

PINELLAS COUNTY GOVERNMENT IS COMMITTED TO PROGRESSIVE PUBLIC POLICY, SUPERIOR PUBLIC SERVICE, COURTEOUS PUBLIC CONTACT, JUDICIOUS EXERCISE OF AUTHORITY AND SOUND MANAGEMENT OF PUBLIC RESOURCES, TO MEET THE NEEDS AND CONCERNS OF OUR CITIZENS TODAY AND TOMORROW.



NON-CONTINUING PROFESSIONAL SERVICES AGREEMENT

RFP TITLE: Runway 18-36 Rehabilitation – Professional Engineering Services

RFP CONTRACT NO. 178-0102-NC (SS)

NON-CONTINUING FIRM: Kimley-Horn and Associates, Inc.

**PROFESSIONAL ENGINEERING SERVICES NON-CONTINUING SERVICES
SAMPLE AGREEMENT
TABLE OF CONTENTS**

SECTION 1 INTENT OF AGREEMENT 3

SECTION 2 SCOPE OF PROJECT 4

 2.1 PROJECT DESCRIPTION AND PROFESSIONAL REQUIREMENTS..... 4

 2.2 PROJECT PHASES..... 4

 2.3 CONSULTING RESPONSIBILITIES..... 4

 2.4 GENERAL DESIGN CONDITIONS..... 5

 2.5 GOVERNING SPECIFICATIONS REGULATIONS AND PERTINENT DOCUMENTS..... 5

SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT..... 5

 3.1 SEE EXHIBIT A – SCOPE OF SERVICES. (Document to be provided prior to Agreement execution) 5

 3.2 BIDDING PHASE 5

 3.3 CONSTRUCTION PHASE 6

 3.4 PROVISIONS RELATED TO ALL PHASES 7

 3.5 PERMIT APPLICATIONS AND APPROVALS 8

 3.6 COORDINATION WITH UTILITY SERVICES AND AFFECTED PUBLIC AGENCIES..... 9

SECTION 4 SERVICES TO BE FURNISHED BY THE COUNTY 9

SECTION 5 PRESENTATIONS, PUBLIC MEETINGS AND TECHNICAL LIAISON..... 9

SECTION 6 PAYMENT GUIDELINES AND CATEGORY OF SERVICES..... 10

 6.1 BASIC SERVICES 10

 6.2 OPTIONAL SERVICES 10

 6.3 CONTINGENCY SERVICES 10

 6.4 ADDITIONAL SERVICES 10

 6.5 INVOICING..... 10

SECTION 7 COMPENSATION TO THE CONSULTANT 12

SECTION 8 PERFORMANCE SCHEDULE 13

SECTION 9 AUTHORIZATION FOR CONTINGENT OR ADDITIONAL SERVICES..... 13

SECTION 10 FIRMS AND INDIVIDUALS PROVIDING SUBCONSULTING SERVICES..... 13

SECTION 11 SATISFACTORY PERFORMANCE..... 13

SECTION 12 RESOLUTION OF DISAGREEMENTS..... 13

SECTION 13 CONSULTANT’S ACCOUNTING RECORDS 14

SECTION 14 OWNERSHIP OF PROJECT DOCUMENTS 14

SECTION 15 INSURANCE COVERAGE AND INDEMNIFICATION..... 14

SECTION 16 EQUAL EMPLOYMENT OPPORTUNITY CLAUSE FOR CONTRACTS NOT SUBJECT TO EXECUTIVE ORDER 11246..... 15

SECTION 17 INDEPENDENT CONTRACTOR STATUS AND COMPLIANCE WITH THE IMMIGRATION REFORM AND CONTROL ACT OF 1986 15

SECTION 18 PROHIBITION AGAINST CONTINGENT FEE 15

SECTION 19 TRUTH IN NEGOTIATIONS..... 15

SECTION 20 SUCCESSORS AND ASSIGNS..... 15

SECTION 21 INTEREST ON JUDGMENTS 15

SECTION 22 TERMINATION OF AGREEMENT 16

SECTION 23 AGREEMENT TERM..... 16

SECTION 24 CONFLICT OF INTEREST 16

SECTION 25 ENTIRE AGREEMENT..... 16

SECTION 26 PUBLIC ENTITY CRIMES..... 17

SECTION 27 PUBLIC RECORDS..... 17

SECTION 28 GOVERNING LAW AND AGREEMENT EXECUTION..... 18

EXHIBIT B – Hourly Rates and Fees

EXHIBIT C – Grant Funding Conditions

EXHIBIT D – Florida Department of Transportation Funding

**SECTION 1
INTENT OF AGREEMENT**

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR
Runway 18-36 Rehabilitation – Professional Engineering Services**

THIS AGREEMENT, entered into on the ____ day of _____, 20____, between PINELLAS COUNTY, a political subdivision of the State of Florida, hereinafter referred to as the COUNTY, represented by its Board of County Commissioners, and, Kimley – Horn and Associates, Inc., with offices in Tampa, Florida hereinafter referred to as the CONSULTANT.

WITNESSETH, That:

WHEREAS, Pinellas County, herein referred to as the COUNTY, requires **PROFESSIONAL ENGINEERING SERVICES** associated with support to develop plans and specifications and perform all other professional engineering services as may be required during the construction of the pavement rehabilitation of Runway 18-36 at the St Pete-Clearwater International Airport, Pinellas County, Florida

WHEREAS, the COUNTY desires the CONSULTANT provide PROFESSIONAL ENGINEERING SERVICES requisite to the development of the PROJECT; and

WHEREAS, the CONSULTANT has expressed the willingness and ability to provide the aforementioned Services; and

NOW THEREFORE, the COUNTY and the CONSULTANT, in consideration of the mutual covenants hereinafter set forth, agree as follows:

SECTION 2 SCOPE OF PROJECT

2.1 PROJECT DESCRIPTION AND PROFESSIONAL REQUIREMENTS

For the purposes of this Agreement the term PROJECT shall include all areas of proposed improvements, all areas that may reasonably be judged to have an impact on the PROJECT, and all PROJECT development phases and the services and activities attendant thereto. It is not the intent of this Agreement to identify the exact limits or details involved in providing satisfactorily completed PROJECT construction documents. The CONSULTANT shall provide the following professional services to prepare construction plans, specifications, and complete applications for and receive all federal, state, and local permits required for construction of the PROJECT. The PROJECT design shall be based on the following data:

All required permits shall be obtained by the engineering consultant. Plans shall be prepared in accordance with Civil 3D Pinellas County Requirements. Exhibit A, Scope of Services is attached.

a) Required Deliverables

- Civil 3D file (eTransmit) of construction plans and for each transmittal phase. The plans shall be provided electronically, plus two (2) paper prints signed and sealed by a Professional Engineer certified in the State of Florida.
- All technical specifications required for construction of project.

2.2 PROJECT PHASES

All project phases shall be completed on or before the milestone dates provided below:

- | | |
|-----------------------------------|-----------------------|
| • Preliminary Design (30%) | November, 2018 |
| • Design Development (60%) | January, 2019 |
| • Final Design (90%) | February, 2019 |
| • Bid Documents (100%) | March, 2019 |

2.3 CONSULTING RESPONSIBILITIES

- A. It is the intention of the COUNTY that the CONSULTANT is held accountable for its work, including checking and review of plans, and that submittals are complete.
- B. The CONSULTANT shall be responsible for the accuracy of the work and shall promptly correct its errors and omissions without additional compensation. Acceptance of the work by the COUNTY will not relieve the CONSULTANT of the responsibility for subsequent correction of any errors and the clarification of any ambiguities.
- C. The CONSULTANT represents that it has secured or will secure, at its own expense, all personnel necessary to complete this Agreement; none of whom shall be employees of or have any contractual relationship with the COUNTY. Primary liaison with the COUNTY will be through the CONSULTANT'S Project Manager. All of the services required hereunder will be performed by the CONSULTANT or under the CONSULTANT'S supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under law to perform such services.
- D. The CONSULTANT shall endorse all reports, calculations, contract plans, and survey data. Services shall be prepared under the direction of an engineer registered in the State of Florida and qualified in the required discipline. Products or services performed or checked shall be signed and sealed by the CONSULTANT'S Florida registered engineer.

- E. The CONSULTANT shall be responsible for the preparation of a PROJECT design schedule, prepared in Microsoft Project 2013 or later, which shows a breakdown of all tasks to be performed, and their relationship in achieving the completion of each phase of work. A bar chart schedule showing overall PROJECT time frames should also be prepared. These schedules must be submitted for COUNTY approval within ten (10) days of the initial PROJECT Notice to Proceed. These schedules will be used to verify CONSULTANT performance in relationship to Fees claimed and to allow the COUNTY'S Project Manager to monitor the CONSULTANT'S efforts. The CONSULTANT shall be responsible for any updates to these schedules and for documenting in writing to the COUNTY any major deviations in the actual versus estimated PROJECT time frames.
- F. The CONSULTANT shall respond, in writing, to all review comments made by the COUNTY, and shall incorporate appropriate design adjustments into the PROJECT, in a timely manner, resulting from the review exchange.

2.4 GENERAL DESIGN CONDITIONS

2.4.1 The CONSULTANT shall coordinate and solicit appropriate input, with the knowledge of the COUNTY.

2.4.2 All design data, plans, and drawings shall be delivered electronically and or on CD ROM formatted to .DXF or .DWG utilizing Civil 3D 2012 or later; as well as providing reproducible hard copies of plans and drawings. All specification and other documents shall be delivered electronically and or on a CD ROM, Microsoft Word & Excel format as required, as well as the reproducible hard copies.

2.4.3 One (1) original and () nine (9) copies of all deliverables are required unless specific submittal requirements are specified elsewhere in this Agreement.

2.4.4 The CONSULTANT shall develop acceptable alternates to any and all design recommendations that may be declared unacceptable.

2.5 GOVERNING SPECIFICATIONS REGULATIONS AND PERTINENT DOCUMENTS

The PROJECT shall be designed by the CONSULTANT in accordance with applicable industry standards. The CONSULTANT shall be responsible for utilizing and maintaining current knowledge of any laws, ordinances, codes, rules, regulations, standards, guidelines, special conditions, specifications, or other mandates relevant to the PROJECT or the services to be performed.

**SECTION 3
SERVICES TO BE FURNISHED BY THE CONSULTANT**

3.1 SEE EXHIBIT A – SCOPE OF SERVICES. (Document to be provided prior to Agreement execution)

3.2 BIDDING PHASE

The CONSULTANT shall prepare with the COUNTY'S assistance the necessary bidding information, bidding forms, the conditions of the contract, and the form of agreement between the COUNTY and the Contractor. The CONSULTANT also, shall bear the cost of two (2) complete sets of documents (plans and specifications), two (2) of which shall be signed and sealed by the CONSULTANT as original record sets for the PROJECT. Each sheet in the two (2) construction plans print sets shall be signed, sealed and dated. The title sheet only of the two (2) specifications sets shall be signed, sealed, and dated. Additionally, any required addenda shall be signed, sealed, and dated.

3.2.1 The CONSULTANT, following the COUNTY'S review of the Construction Documents and of the latest Engineers Estimate of Probable Construction Cost, shall be available to assist the COUNTY in obtaining bids, and in preparing and awarding construction contracts for each bid package. The CONSULTANT shall assist conducting pre-bid conferences, prepare a Bid Tabulation spreadsheet, and provide a Letter of Recommendation to Award following receipt of bids.

3.2.2 If the Advertisement for bids has not commenced within sixty (60) days after the CONSULTANT submits the approved Construction Documents to the COUNTY, any fixed limit of Construction Cost established as a condition of this Agreement shall be adjusted to reflect any change in the general level of prices which may have occurred during that period of time in construction industry. The adjustment shall reflect changes between the date of submission of the Construction Documents to the COUNTY and the date on which the Advertisement for Bids occurred.

3.2.3 The CONSULTANT shall prepare any required addenda to construction plans and specifications on the PROJECT during the bidding phase affecting the CONSULTANT'S plans and specifications. The CONSULTANT shall also provide any addenda during the Construction Phase in sufficient quantity to distribute to all necessary parties as determined by the COUNTY. Addenda material shall be placed in envelopes by the CONSULTANT for mailing by the COUNTY. The CONSULTANT shall also furnish certified mail receipt material and prepare mailing labels. The COUNTY shall mail all addenda.

3.3 CONSTRUCTION PHASE

All contact and/or communication from the CONSULTANT to the Contractor shall be coordinated with the knowledge of the COUNTY.

A. Construction Consultation Services

1. Processing, review, approval and distribution of shop drawings, product data, samples and other submittals required by the Contract Documents.
2. Maintenance of master file of submittals with duplicate for COUNTY.
3. Construction Field Observation Services consisting of visits to the site as frequent as necessary, but not less than once every week, to become generally familiar with the progress and quality of the work and to determine in general if the work is proceeding in accordance with the Contract Documents and prepare related reports and communications. Provide written report of each visit. This field observation requirement shall include any sub-consultants at appropriate construction points.
4. Review for comment or approval any and all proposal requests, supplemental drawings and information and change orders.
5. Review for correctness Contractors pay requests for the COUNTY.
6. Prepare, reproduce and distribute supplemental drawings, specifications and interpretations in response to requests for clarification by the Contractor or the COUNTY as required by construction exigencies. Response to any request must be received by the COUNTY within twenty-four (24) hours of request, or the next available working day when the request is prior to a weekend or holiday.
7. Review, upon notice by the Contractor that work is ready for final inspection and acceptance.
8. Notify the COUNTY of any deficiencies found in follow-up reviews.
9. Evaluate all testing results and make recommendations to the COUNTY.

10. Assist in the establishment by the COUNTY of programs of operation and maintenance of the physical plant and equipment.
11. Arrange for and coordinate instructions on operations and maintenance of equipment in conjunction with manufacturer's representatives.
12. Prepare an operation and maintenance manual, if needed, for the COUNTY'S use.
13. The CONSULTANT shall visit the project as necessary, but at a minimum of three (3) month, six (6) month and upon construction completion in order to certify that the permit conditions have been met satisfactorily. This shall not relieve the CONSULTANT of other needed visits to the project should specific issues arise.
14. Assistance in the training of the facility operation and maintenance personnel in proper operations, schedules, procedures and maintenance inventory.
15. Prepare as-built record drawings, based on information furnished by the Contractors including significant changes in the work made during construction. The CONSULTANT will provide one (1) set of signed and sealed prints and one (1) CADD disk of the as-built record construction documents.
16. Transmit certified as-built record drawings and general data, appropriately identified, to the COUNTY within thirty (30) days following completion of construction.
17. Consult with, and recommend solutions to, the COUNTY during the duration of warranties in connection with inadequate performance of materials, systems, and equipment under warranty.
18. Review facilities or equipment prior to expiration of warranty period(s) to ascertain adequacy of performance, materials, systems and equipment.
19. Document noted defects or deficiencies and assist the COUNTY in preparing instructions to the Contractor for correction of noted defects.
20. The Contractor shall provide the CONSULTANT with all the required project close out material for CONSULTANT'S use in the warranty period services.
21. The Contractor shall have prime responsibility in the warranty period for all services herein. The CONSULTANT shall assist, consult, observe review and document as noted.

3.4 PROVISIONS RELATED TO ALL PHASES

3.4.1 The CONSULTANT will investigate and confirm in writing to the COUNTY, to the best of the CONSULTANT'S knowledge, conformance with all applicable local public and utility regulations.

3.4.2 The CONSULTANT will coordinate work designed by various disciplines.

3.4.3 The CONSULTANT shall submit to the COUNTY design notes and computations to document the design conclusions reached during the development of the construction plans.

- a. Five (5) copies of the design notes and computations shall be submitted to the COUNTY with the design development review plans. When the plans are submitted for final review, the design notes and computations corrected for any COUNTY comments shall be resubmitted. At the PROJECT completion, a final set of the design notes and computations, properly endorsed by the CONSULTANT, shall be submitted with the record set of plans and tracings.
- b. The design notes and calculations shall include, but not be limited to, the following data:
 - 1) Design criteria used for the PROJECT.
 - 2) Airfield geometric calculations
 - 3) Structural calculations.
 - 4) Drainage calculations.
 - 5) Construction Safety and Phasing Plans Calculations showing probable cost comparisons of various alternatives considered.
 - 6) Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
 - 7) Other PROJECT-related correspondences as appropriate.

3.4.4 Each set of plans for the PROJECT shall be accurate, legible, complete in design, suitable for bidding purposes and drawn to scales acceptable to the COUNTY. The completed plans shall be furnished on reproducible material and in a format, which is acceptable to the COUNTY.

3.4.5 The CONSULTANT shall make such reviews, visits, attend such meetings and conferences and make such contacts as are necessary for the proper preparation of plans and specifications for the PROJECT.

3.4.6 The COUNTY in no way obligates itself to check the CONSULTANT'S work and further is not responsible for maintaining project schedules.

3.4.7 Other CONSULTANT responsibilities shall be as listed below:

- a. Provide necessary sealed drawings to obtain building permits or any utility permit.
- b. Assist the COUNTY in Contractor claims and/or litigation.
- c. Review the Adequacy and completeness of documents submitted by the Contractor to protect the COUNTY against claims by suppliers or third parties.

3.4.8 The CONSULTANT must be familiar with the intent, thoroughness, safety factors and design assumptions of all structural calculations.

3.4.9 All work prepared and/or submitted shall be reviewed and checked by a CONSULTANT (Architect/Engineer) registered in Florida. All plans shall be signed and sealed by the Professional CONSULTANT in responsible charge.

3.5 PERMIT APPLICATIONS AND APPROVALS

3.5.1 The CONSULTANT shall prepare all permit applications, data and drawings required for submittal BY THE COUNTY for approval of local, state and federal agencies.

3.5.2 The CONSULTANT shall, at no additional cost to the COUNTY, make all reasonable and necessary construction plans revisions required to obtain the necessary permit approvals for construction of the PROJECT.

3.5.3 For the purpose of ensuring the timely approval of all permits necessary for the construction of the PROJECT, the CONSULTANT shall schedule the necessary contacts and liaison with all agencies having permit jurisdiction over the PROJECT, and shall furnish, on a timely basis, such plans, data and information as may be necessary to secure approval of the required permits.

3.6 COORDINATION WITH UTILITY SERVICES AND AFFECTED PUBLIC AGENCIES

3.6.1 The requirements of the various utility services shall be recognized and properly coordinated with the PROJECT design.

3.6.2 Drainage investigations and drainage design shall be coordinated with any city or drainage district that may be affected by or have an effect on the PROJECT.

**SECTION 4
SERVICES TO BE FURNISHED BY THE COUNTY**

- 4.1 The COUNTY shall provide the following for the CONSULTANT'S use and guidance:
- A. Copies of existing maps, existing aerial photographs, as-built construction plans and data pertinent to the PROJECT design, which the COUNTY may have in its possession.
 - B. Reproducibles of the COUNTY Engineering Department Standard Drawings applicable to the PROJECT.
 - C. Sample copies of the COUNTY standard contract documents and specifications.
 - D. Preparation of legal (front-end) section of the specifications.

**SECTION 5
PRESENTATIONS, PUBLIC MEETINGS AND TECHNICAL LIAISON**

The following services shall be provided at no additional cost to the COUNTY:

5.1 Prior to the commencement of design activities, the COUNTY will conduct with the CONSULTANT a pre-design conference for the purpose of discussing issues relative to the PROJECT, plans preparation and submittal procedures and to convey to the CONSULTANT such items provided for under Section 4 as may be required and available at that time.

5.2 The CONSULTANT shall make presentations to the COUNTY'S Director of St. Pete-Clearwater International Airport or designee as often as reasonably requested and at any point in the PROJECT development should issues arise which make additional presentations other than those listed elsewhere in this Agreement, in the COUNTY'S best interest.

5.3 The CONSULTANT shall participate in Monthly PROJECT Conferences with COUNTY staff personnel. The meetings will be scheduled by the COUNTY at a location provided by the COUNTY.

5.4 The CONSULTANT shall attend, as technical advisor to the COUNTY all meetings or hearings conducted by permitting agencies or public bodies in connection with any permit required for the construction of the PROJECT, and shall prepare all presentation aids, documents and data required in connection with such meetings or hearings, and at the discretion of the COUNTY, shall either plead the COUNTY'S case or provide engineering and technical assistance to the COUNTY in its pleading of the case.

5.5 The CONSULTANT shall keep accurate minutes of all meetings and distribute copies to all attending. These meetings shall be set up through the COUNTY and appropriate COUNTY staff shall attend.

SECTION 6 PAYMENT GUIDELINES AND CATEGORY OF SERVICES

6.1 BASIC SERVICES

The services described and provided for under Sections 2, 3 and Exhibit A shall constitute the Basic Services to be performed by the CONSULTANT under this Agreement.

6.2 OPTIONAL SERVICES

Services noted in Exhibit A of this Agreement as "Optional" shall constitute the Optional Services to be performed by the CONSULTANT under this Agreement. Optional Services shall be rendered by the CONSULTANT only upon written authorization by the COUNTY'S Executive Director of the St. Pete-Clearwater International Airport, or designee.

6.3 CONTINGENCY SERVICES

When authorized in writing by the COUNTY'S Director of St. Pete-Clearwater International Airport or designee, the CONSULTANT shall furnish services resulting from unforeseen circumstances not anticipated under Basic Services due to minor changes in the PROJECT scope.

Compensation for any Contingency Services assignments shall be negotiated between the COUNTY and the CONSULTANT at the time the need for services becomes known.

6.4 ADDITIONAL SERVICES

When executed by the County Administrator or Board of County Commissioners as an amendment to this Agreement, the CONSULTANT shall provide such additional services as may become necessary because of changes in the Scope of PROJECT. Additional Services shall be classified as any change beyond the Contingency Services upset limit for compensation.

6.5 INVOICING

The CONSULTANT may submit invoices for fees earned on a monthly basis. Such invoicing shall be supported by a Progress Report showing the actual tasks performed and their relationship to the percentage of fee claimed for each phase. Billings within each phase of work shall be for the percentage of work effort completed to date for that phase. The COUNTY shall make payments to the CONSULTANT for work performed in accordance with the Local Government Prompt Payment Act, Section 218.70 et. seq., F.S.

The following services shall be considered reimbursable services and may be filled in full upon their completion and acceptance. The CONSULTANT shall provide copies of supporting receipts/invoices/billing documentation. Self-performed reimbursable work shall be reimbursed at the firm's standard hourly rates for all related services. A breakdown of man hours and billing rates shall be provided with each invoice. An hourly rate sheet is attached (Exhibit B).

- A. Contamination Assessments/Hazardous Material Analysis (if required).
- B. Aerial Photography (if required).
- C. Payment of Permit Fees (if required).
- D. Payment of the Public Information Meeting Advertisements, if required.
- E. Payment of the Court Reporter for public meetings, if required.
- F. Printing and Binding Services.

Should an invoiced amount for fees earned appear to exceed the work effort believed to be completed, the COUNTY may, prior to processing of the invoice for payment, require the CONSULTANT to submit satisfactory evidence to support the invoice.

All progress reports shall be mailed to the attention of the designated Project Manager, St. Pete-Clearwater International Airport, 14700 Terminal Blvd. Suite #221, Clearwater, Florida 33762.

SUPPLIER shall submit invoices for payment due as provided herein with such documentation as required by Pinellas County and all payments shall be made in accordance with the requirements of Section 218.70 *et. seq.*, Florida Statutes, "The Local Government Prompt Payment Act." Invoices shall be submitted to the address below unless instructed otherwise on the purchase order, or if no purchase order, by the ordering department:

Finance Division Accounts Payable
Pinellas County Board of County Commissioners
P. O. Box 2438
Clearwater, FL 33757

Each invoice shall include, at a minimum, the Supplier's name, contact information and the standard purchase order number. The County may dispute any payments invoiced by SUPPLIER in accordance with the County's Dispute Resolution Process for Invoiced Payments, established in accordance with Section 218.76, Florida Statutes, and any such disputes shall be resolved in accordance with the County's Dispute Resolution Process.

Fees for contingent or additional services authorized shall be invoiced separately, and shall be due and payable in full upon the presentation of satisfactory evidence that the corresponding services have been performed.

**SECTION 7
COMPENSATION TO THE CONSULTANT**

7.1 For the BASIC SERVICES provided for in this Agreement, as defined in Section 3.10, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of Four hundred seventy thousand two hundred seventy two dollars and 00/100 (\$470,272.00) for the Task 1 – Preliminary Design (30%)
- A Lump Sum Fee of Three hundred twenty five thousand ninety one dollars and 75/100 (\$325,091.75) for the Task 2 - Engineering Design (60%).
- A Lump Sum Fee of: Two hundred five thousand two hundred one dollars and 00/100 (\$205,201.00) for the Task 3 – Final Design (90%)
- A Lump Sum Fee of: One hundred thirty five thousand four hundred twelve dollars and 50/100 (\$135,412.50) for the Task 4 – Bidding Documents
- A Lump Sum Fee of: Twenty seven thousand two hundred eighty four dollars and 00/100 (\$27,284.00) for the Task 5 – Bidding Services
- A Lump Sum Fee of: Two hundred eighty two thousand eight hundred twenty eight and 00/100 (\$282,828.00) for the Task 6 – Construction Administration

The above fees shall constitute the total not to exceed amount of **one million four hundred forty six thousand eighty nine dollars and 25/100 (\$1,446,089.25)** to the CONSULTANT for the performance of Basic Services. All man hours are billed per the established and agreed hourly rates. The hourly rates are fully loaded and include all labor, overhead, expenses and profit of any nature including travel within the Tampa Bay Metropolitan Statistical area. Travel outside of the Tampa Bay Metropolitan Statistical Area will be reimbursed in accordance with Section 112.061 F.S. and/or the County Travel Policy, as approved by the County.

7.2 For the OPTIONAL SERVICES provided for in the Agreement, as defined in Exhibit A, the COUNTY agrees to pay the CONSULTANT as follows:

A Not to Exceed Fee of seventeen **thousand seven hundred fifty nine dollars and 00/100 (\$17,759.00)** for Utility Mapping and Subsurface Utility Engineering (SUE).

7.3 For any CONTINGENCY SERVICES performed, the COUNTY agrees to pay the CONSULTANT, a negotiated fee based on the assignment, up to a maximum amount not to exceed **one hundred thousand dollars 00/100 (\$100,000.00)** for all assignments performed.

7.4 Total agreement amount **One million five hundred sixty three thousand eight hundred forty eight dollars and 27/100 (\$1,563,848.25)**.

7.5 For any ADDITIONAL SERVICES, the COUNTY agrees to pay the CONSULTANT a negotiated total fee based on the work to be performed as detailed by a written amendment to this Agreement.

7.6 In the event that this Agreement is terminated under the provisions of this contract the total and complete compensation due the CONSULTANT shall be as established by the COUNTY based on the COUNTY'S determination of the percentage of work effort completed to date of termination.

**SECTION 8
PERFORMANCE SCHEDULE**

Time is of the essence in this Agreement. The CONSULTANT shall plan and execute the performance of all services provided for in this Agreement in such manner as to ensure their proper and timely completion in accordance with the following schedule:

8.1 The services to be rendered by the CONSULTANT shall be commenced upon receipt from the COUNTY of written "NOTICE TO PROCEED."

8.2 All project phases shall be completed on or before the milestone dates provided in the COUNTY approved PROJECT design schedule referenced in 2.3 E.

8.3 The CONSULTANT shall not be held responsible for delays in the completion of the PROJECT design when the COUNTY causes such delays. The COUNTY reviews related to the above submittals shall not exceed twenty-one (21) days.

**SECTION 9
AUTHORIZATION FOR CONTINGENT OR ADDITIONAL SERVICES**

9.1 The CONTINGENCY services provided for under this Agreement shall be performed only upon prior written authorization from the Director of St. Pete-Clearwater International Airport or designee.

9.2 The ADDITIONAL services provided for under this Agreement shall be performed only upon approval of the County Administrator or Board of County Commissioners.

9.3 The CONSULTANT shall perform no services contemplated to merit compensation beyond that provided for in this Agreement unless such services, and compensation therefore, shall be provided for by appropriate written authorization or amendment(s) to this Agreement.

**SECTION 10
FIRMS AND INDIVIDUALS PROVIDING SUBCONSULTING SERVICES**

The COUNTY reserves the right to review the qualifications of any and all subconsultants, and to reject any subconsultant in a proper and timely manner, deemed not qualified to perform the services for which it shall have been engaged. Any subconsultant not listed as part of the prime consultants team at time of award must be approved by the Director of Purchasing prior to performing any service.

**SECTION 11
SATISFACTORY PERFORMANCE**

All services to be provided by the CONSULTANT under the provisions of this Agreement, including services to be provided by subcontractors, shall be performed to the reasonable satisfaction of the COUNTY'S Director of St. Pete-Clearwater International Airport or designee.

**SECTION 12
RESOLUTION OF DISAGREEMENTS**

12.1 The COUNTY shall reasonably decide all questions and disputes, of any nature whatsoever, that may arise in the execution and fulfillment of the services provided for under this Agreement.

12.2 The decision of the COUNTY upon all claims, questions, disputes and conflicts shall be final and conclusive, and shall be binding upon all parties to this Agreement, subject to judicial review.

SECTION 13 CONSULTANT'S ACCOUNTING RECORDS

13.1 Records of expenses pertaining to all services performed shall be kept in accordance with generally accepted accounting principles and procedures.

13.2 The CONSULTANT'S records shall be open to inspection and subject to examination, audit, and/or reproduction during normal working hours by the COUNTY'S agent or authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the CONSULTANT or any of his payees pursuant to the execution of the Agreement. These records shall include, but not be limited to, accounting records, written policies and procedures, subcontractor files (including proposals of successful and unsuccessful bidders), original estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this Agreement. They shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this Agreement. The COUNTY shall not audit payroll and expense records on task assignments paid by lump sum fee.

13.3 For the purpose of such audits, inspections, examinations and evaluations, the COUNTY'S agent or authorized representative shall have access to said records from the effective date of the Agreement, for the duration of work, and until five (5) years after the date of final payment by the COUNTY to the CONSULTANT pursuant to this Agreement.

13.4 The COUNTY'S agent or authorized representative shall have access to the CONSULTANT'S facilities and all necessary records in order to conduct audits in compliance with this Section. The COUNTY'S agent or authorized representative shall give the CONSULTANT reasonable advance notice of intended inspections, examinations, and/or audits.

SECTION 14 OWNERSHIP OF PROJECT DOCUMENTS

Upon completion or termination of this Agreement, all records, documents, tracings, plans, specifications, maps, evaluations, reports and other technical data, other than working papers, prepared or developed by the CONSULTANT under this Agreement shall be delivered to and become the property of the COUNTY. The CONSULTANT, at its own expense, may retain copies for its files and internal use. The COUNTY shall not reuse any design plans or specifications to construct another project at the same or a different location without the CONSULTANT'S specific written verification, adaptation or approval.

SECTION 15 INSURANCE COVERAGE AND INDEMNIFICATION

15.1 The Contractor must maintain insurance in at least the amounts required in the Request for Proposal throughout the term of this contract. The contractor must provide a Certificate of Insurance in accordance with Insurance Requirements of the Request for Proposal, evidencing such coverage prior to issuance of a purchase order or commencement of any work under this Contract. See Section C Insurance Requirements – Attached

15.2 If the CONSULTANT is an individual or entity licensed by the state of Florida who holds a current certificate of registration under Chapter 481, Florida Statutes, to practice architecture or landscape architecture, under Chapter 472, Florida Statutes, to practice land surveying and mapping, or under Chapter 471, Florida Statutes, to practice engineering, and who enters into a written agreement with the COUNTY relating to the planning, design, construction, administration, study, evaluation, consulting, or other professional and technical support services furnished in connection with any actual or proposed construction, improvement, alteration, repair, maintenance, operation, management, relocation, demolition, excavation, or other facility, land, air, water, or utility development or improvement, the CONSULTANT will indemnify and hold harmless the COUNTY, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of the Agreement.

**SECTION 16
EQUAL EMPLOYMENT OPPORTUNITY CLAUSE
FOR CONTRACTS NOT SUBJECT TO EXECUTIVE ORDER 11246**

In carrying out the contract, the CONSULTANT shall not discriminate against employee or applicant for employment because of race, color, religion, sex or national origin.

**SECTION 17
INDEPENDENT CONTRACTOR STATUS AND COMPLIANCE WITH THE
IMMIGRATION REFORM AND CONTROL ACT OF 1986**

CONSULTANT acknowledges that it is functioning as an independent contractor in performing under the terms of this Agreement, and it is not acting as an employee of COUNTY. CONSULTANT acknowledges that it is responsible for complying with the provisions of the Immigration Reform and Control Act of 1986, located at 8 U.S.C. Section 1324, et seq., and regulations relating thereto. Failure to comply with the above provisions of this contract shall be considered a material breach and shall be grounds for immediate termination of the contract.

**SECTION 18
PROHIBITION AGAINST CONTINGENT FEE**

The CONSULTANT warrants that he 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 he 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.

**SECTION 19
TRUTH IN NEGOTIATIONS**

By execution of this Agreement, the CONSULTANT certifies to truth-in-negotiations and that wage rates and other factual unit costs supporting the compensation are accurate, complete and current at the time of contracting. Further, the original contract amount and any additions thereto shall be adjusted to exclude any significant sums where the COUNTY determines the contract price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. Such adjustments must be made within one (1) year following the end of the contract.

**SECTION 20
SUCCESSORS AND ASSIGNS**

The CONSULTANT shall not assign, sublet, or transfer his interest in this Agreement without the written consent of the COUNTY.

**SECTION 21
INTEREST ON JUDGMENTS**

In the event of any disputes between the parties to this Agreement, including without limitation thereto, their assignees and/or assigns, arising out of or relating in any way to this Agreement, which results in litigation and a subsequent judgment, award or decree against either party, it is agreed that any entitlement to post judgment interest, to either party and/or their attorneys, shall be fixed by the proper court at the rate of five percent (5%), per annum, simple interest. Under no circumstances shall either party be entitled to pre-judgment interest. The parties expressly acknowledge and, to the extent allowed by law, hereby opt out of any provision of federal or state statute not in agreement with this paragraph.

**SECTION 22
TERMINATION OF AGREEMENT**

22.1 The COUNTY reserves the right to cancel this Agreement, without cause, by giving thirty (30) days prior written notice to the CONSULTANT of the intention to cancel. Failure of the CONSULTANT to fulfill or abide by any of the terms or conditions specified shall be considered a material breach of contract and shall be cause for immediate termination of the contract at the discretion of COUNTY. Alternatively, at the COUNTY'S discretion, the COUNTY may provide to CONSULTANT thirty (30) days to cure the breach. Where notice of breach and opportunity to cure is given, and CONSULTANT fails to cure the breach within the time provided for cure, COUNTY reserves the right to treat the notice of breach as notice of intent to cancel the Agreement for convenience.

22.2 If COUNTY terminates the Agreement for convenience, other than where the CONSULTANT breaches the Agreement, the CONSULTANT'S recovery against the COUNTY shall be limited to that portion of the CONSULTANT'S compensation earned through date of termination, together with any costs reasonably incurred by the CONSULTANT that are directly attributable to the termination. The CONSULTANT shall not be entitled to any further recovery against the COUNTY, including but not limited to anticipated fees or profit on work not required to be performed.

22.3 Upon termination, the CONSULTANT shall deliver to the COUNTY all original papers, records, documents, drawings, models, and other material set forth and described in this Agreement.

22.4 In the event that conditions arise, such as lack of available funds, which in the COUNTY'S opinion make it advisable and in the public interest to terminate this Agreement, it may do so upon written notice.

**SECTION 23
AGREEMENT TERM**

This Agreement will become effective on the date of execution first written above and shall remain in effect for thirty-six (36) consecutive calendar months from the commencement date on the Notice to Proceed, unless terminated at an earlier date under other provisions of this Agreement, or unless extended for a longer term by amendment.

**SECTION 24
CONFLICT OF INTEREST**

24.1 By accepting award of this Contract, the CONSULTANT, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of services required hereunder, including as described in the CONSULTANT'S own professional ethical requirements. An interest in a business or activity which shall be deemed a conflict includes but is not limited to direct financial interest in any of the material and equipment manufacturers suppliers, distributors, or contractors who will be eligible to supply material and equipment for the PROJECT for which the CONSULTANT is furnishing its services required hereunder.

24.2 If, in the sole discretion of the County Administrator or designee, a conflict of interest is deemed to exist or arise during the term of the contract, the County Administrator or designee may cancel this contract, effective upon the date so stated in the Written Notice of Cancellation, without penalty to the COUNTY.

**SECTION 25
ENTIRE AGREEMENT**

This Agreement represents, together with all Exhibits and Appendices, the entire written Agreement between the COUNTY and the CONSULTANT and may be amended only by written instrument signed by both the COUNTY and the CONSULTANT.

**SECTION 26
PUBLIC ENTITY CRIMES**

CONSULTANT is directed to the Florida Public Entity Crime Act, Fla. Stat. 287.133, and Fla. Stat. 287.135 regarding Scrutinized Companies, and CONSULTANT agrees that its bid and, if awarded, its performance of the agreement will comply with all applicable laws including those referenced herein. CONSULTANT represents and certifies that CONSULTANT is and will at all times remain eligible to bid for and perform the services subject to the requirements of these, and other applicable, laws. CONSULTANT agrees that any contract awarded to CONSULTANT will be subject to termination by the County if CONSULTANT fails to comply or to maintain such compliance.

**SECTION 27
PUBLIC RECORDS**

Contractor acknowledges that information and data it manages as part of the services may be public records in accordance with Chapter 119, Florida Statutes and Pinellas County public records policies. Contractor agrees that prior to providing services it will implement policies and procedures to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies, including but not limited to the Section 119.0701, Florida Statutes. Notwithstanding any other provision of this Agreement relating to compensation, the Contractor agrees to charge the County, and/or any third parties requesting public records only such fees allowed by Section 119.07, Florida Statutes, and County policy for locating and producing public records during the term of this Agreement.

CONTRACTOR'S DUTY

If the contractor has questions regarding the application of Chapter 119, Florida Statutes, to the Contractor's duty to provide public records relating to this contract, contact the Pinellas County Board of County Commissioners, Purchasing Department, Operations Manager custodian of public records at 727-464-3311, purchase@pinellascounty.org, Pinellas County Government, Purchasing Department, Operations Manager, 400 S. Ft. Harrison Ave, 6th Floor, Clearwater, FL 33756.


**SECTION 28
GOVERNING LAW AND AGREEMENT EXECUTION**

This Agreement shall be governed by the laws of the State of Florida.

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

Firm Name: Kimley-Horn and Associates, Inc.

PINELLAS COUNTY, by and through its
Board of County Commissioners

By: 
Print Name: SCOTT W. GILNER, PE
Title: VICE PRESIDENT Date: 7/12/2018

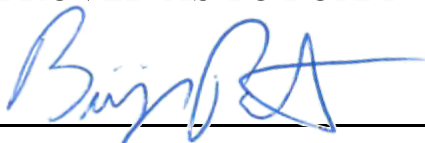
By: _____
Name _____ Date: _____
Chairman

ATTEST:

Ken Burke, clerk of the Circuit Court

By: _____
Deputy Clerk _____ Date: _____

APPROVED AS TO FORM

By: 
Office of the County Attorney



**PROFESSIONAL SERVICES FOR
REHABILITATION OF RUNWAY 18-36
ST. PETE/CLEARWATER INTERNATIONAL AIRPORT
Contract No. 178-0102-NC (SS)**

May 14, 2018



Kimley»»Horn

PROFESSIONAL SERVICES FOR REHABILITATION OF RUNWAY 18-36 ST. PETE/CLEARWATER INTERNATIONAL AIRPORT

Project Description

Runway 18-36 is 9,730' x 150' with 15' paved shoulders. There is a 930' displaced threshold at the Runway 36 end. The runway also has paved blast pads of 150' and 395' for Runway 18-36, respectively. The existing pavement is bituminous asphalt and is exhibiting distresses such as longitudinal cracking, raveling, and weathering. The last pavement rehabilitation was completed in 2008-2009.

The project consists of the rehabilitation of the existing bituminous asphalt pavement; reconstruction of the centerline, touch down zone, and runway edge lighting systems; reconstruction of the runway distance remaining signs; reconstruction of existing airfield signage (if needed); and widening of the paved shoulders to meet the current runway design standards for an Approach Category D, Airplane Design Group IV runway.

As part of this project, the scope of work will also include the construction of a 100' extension to Runway 4 which will increase Runway 4-22's total length to a minimum of 6,000' so air carrier aircraft can use this runway during the prolonged closure of Runway 18-36 for construction.

The St. Petersburg/Clearwater Airport (PIE) has requested Kimley-Horn to prepare bid documents for the rehabilitation of Runway 18-36 and the extension of Runway 4. The Scope of Work will include civil engineering, electrical engineer, topographic surveys; subsurface geotechnical investigations; design and development of construction contract document; bid phase services; and construction administration.



Team

The professional services will include general items of work with the following breakdown of services between design team members.

Kimley-Horn and Associates:

- Lead design consultant and coordinating all efforts of the team
- Airfield civil engineering
- Pavement design
- Airfield markings
- Project phasing and sequencing
- Preparation of contract drawings, specifications and engineer's report
- Design, bidding and construction administration

Arora Engineers, Inc.:

- Airfield electrical engineering
- Airfield signage, lighting, navigational aids
- Preparation of contract drawings, specifications and reports
- Design, bidding and construction administration

Pavement Technical Solutions, Inc.:

- Non Destructive Testing
- Rehabilitation Strategies

Florida Design Consultants, Inc.:

- Environmental Resources Permitting (ERP)

Connico, Inc.:

- Assistance with preparing the construction schedule
- Preparation of engineer's estimate of probable construction costs

Michael Baker International:

- Constructability Reviews

Northwest Surveying, Inc.

- Topographic field survey

Maser Consulting

- LiDAR survey and mapping

ECHO Utility Engineering & Survey, Inc.

- Utility Mapping
- Subsurface Utility Engineering (SUE)

Tierra, Inc.:

- Geotechnical Investigations for design.

Project Schedule

Desgin NTP	9/15/2018
Preliminary Design, 30%	11/29/2018
Engineering Design, 60%	1/13/2019
Final Design, 90%	2/12/2019
Bid Documents, 100%	3/11/2019
Advertise for Bids	4/26/2019
Bid Opening	6/11/2019
Submit FAA Grant	6/14/2019

Scope of Services

Task 1 – Preliminary Design, 30%

- 1.1 **Design Kick-Off Meeting** – KHA will attend one kickoff meeting with PIE Staff and design team. The purpose of this meeting is to introduce the participants of the project, to confirm and clarify project and design requirements, administrative procedures, restrictions and limitations, invoicing/pay procedures, security procedures, safety requirements, and to address the concerns of affected parties. KHA will prepare and publish minutes to the meeting.

- 1.2 **Data Collection and Review** – KHA will collect, review, compile, and summarize available data provided by PIE. PIE is to provide relevant information such as as-builts, aerial photogrammetry, survey data, previous design plan record drawings, specifications, and geotechnical investigation reports. Specifically, record documents on file with the Airport are to provide data regarding stormwater, pavements, electrical and communication. This information will be compiled and visually verified in the field for the preparation of a base plan for conceptual design. It is assumed that available as-built data is incomplete. Field investigations will be conducted.

- 1.3 **Pavement Inspection** – KHA will visit the site to examine existing conditions of pavements within the project area. Information gathered will be used to direct the geotechnical investigation to specific areas. Any discrepancies found within the record information will be noted and the base drawing will be updated to current field conditions.

1.4 Subconsultant Coordination – KHA will coordinate with their subconsultants and airport operations for the Non-destructive testing (NDT), topographic survey, geotechnical investigations and subsurface utility engineering (SUE). Field activity schedules will be coordinated with Airport Operations and stakeholders. KHA will provide full time escort and on site observation during these field activities. In addition, KHA will prepare the necessary exhibits to facilitate the SWFWMD ERP process. KHA is responsible for airside escorts. PIE will not provide airside escorts.

1.5 Pavement Rehabilitation Strategies – Using the data obtained from the geotechnical investigation, aircraft data provide by PIE and the NDT, KHA will develop the pavement design for Runway 18-36 and adjacent shoulders. The design for the new pavement section(s) will comply with the most current methods accepted by FAA. Strategies include mill/overlay, partial full depth reconstruction, rehabilitation of keel section.

1.6 Drawing Preparation - Drawings will be prepared in accordance with specific format requirements provided by PIE. Drawings prepared up to this phase include:

Cover	MOT Notes and Details
Project Drawing List	MOT Plans (15)
Summary of Quantities (2)	Existing Conditions (9)
General Notes	Horizontal and Vertical Control Plan (5)
Abbreviations/Legend	Boring Log and Pavement Core Profiles (5)
Project Construction Haul Route and Staging Plan	Erosion Control Plans and Details (3)
Safety and Security Notes	Site Demolition Plans
Construction Safety Details	Site Demolition Details
Overall Phasing Plan and Notes	Pavement Sections (3)
Project Schedule	
Phasing Plans (20)	

1.7 Construction Safety and Phasing Plan (CSPP) – KHA will prepare the outline CSPP. This document will be submitted to the FAA and serve as the basis for the final CSPP. During this time, it is anticipated that stakeholder engagement (FAA, ATCT, Tenants, Executive Airport Staff and Air Carriers) will be needed. KHA will prepare needed exhibits, power points, etc.

- 1.8 Technical Specifications** – At this time, KHA will prepare outline technical specifications. Specifications will follow FAA format using unit cost where applicable.
- 1.9 Project Quantities and Engineer’s Estimate** – Where appropriate, KHA will determine project quantities for all items of work. In turn, these quantities shall be used by Connico to prepare the OPCs (Opinion of Probable Costs). KHA will evaluate Connico’s product prior to submitting to PIE Staff. Consideration will be given to alternate pay items.
- 1.10 Project Management** – Throughout this phase, KHA shall manage the project design and coordinate with all subconsultants in accordance with customary practices for design projects. KHA’s internal administration for staffing, coordination, production coordination, schedule, scope and budget adherence is part of this task.
- 1.11 Quality Control** - Prior to each submission, KHA will perform an internal technical review of deliverables. This review will include appropriate checklists and written comments with responses for each.
- 1.12 Deliverable** – KHA will package and deliver the following to PIE at the complete of the 30% design:
- 3 bound hard copies of 11x17 plans
 - Technical Specifications (Table of Contents)
 - 1 hard copies of Engineer’s Estimate of Probable Costs
 - 1 PDF of plans and specs
 - Autocad/Civil 3D files
- 1.13 Review Meetings** – Conduct progress meetings at PIE’s office at key intervals to review the progress of the design for necessary input and discussions from PIE Staff (anticipated to one meeting every week throughout the design). Shortly after the submission of the 30% plans and specifications, KHA will attend one review meeting with PIE. KHA will be prepared to discuss the details of the site and the challenges with the site moving forward. It is anticipated that separate meetings with stakeholders (ATCT, FAA, Tenants, Airport Executive Staff and Air Carriers) will be needed. KHA will prepare and distribute meeting minutes.

- 1.14 **County Development Review Services (DRS)** – KHA will submit the completed 30% plans to the County. KHA will schedule and attend a pre-application meeting with DRS. Minutes will be taken and published to PIE and design team.

Task 2 – Engineering Design Phase, 60%

The information obtained during the 30% phase will be reviewed and refined during the Engineering Phase - 60%. This phase will encompass the professional services required to furnish PIE with a set of 60% documents, including technical specifications, 60% drawings, construction phasing and safety and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance with FAA standards and will provide sufficient detail for the review of proposed design by PIE Staff and all other appropriate parties.

- 2.1 **Safety Risk Management (SRM) Process**– It is anticipated that this project will require a safety risk assessment (SRA) during the design process to understand and mitigate potential safety hazards associated with the construction/implementation of the project, as well as any changes in the runway environment resulting from the project design. This task will entail organization of the appropriate stakeholders to participate in the SRA meeting, and discussion of expectations, process, and goals of the SRA with the airport staff. It is understood that the FAA will facilitate a safety risk assessment meeting at the airport with the attendees identified in the pre-planning. KHA will prepare meeting materials and exhibits to be used as part of the SRA. This SRA will utilize the FAA Office of Airports Safety Risk Management (SRM) process as described in FAA Order 5200.11. The SRA will be scheduled for up to eight hours, held over the course of two (2) days in four (4) hour sessions, if one 4-hour session is deemed insufficient based on SRA pre-planning with airport staff. Following the SRA, the consultant will prepare summary documentation describing the SRM process utilized, hazards that were identified and credible outcomes, risk assessment results, and any potential mitigation actions and responsibilities. Although this process will begin in the 60% Phase, it is anticipated it will continue into the subsequent phase(s) until the process is complete.

- 2.2 **Drawing Preparation** – Drawing prepared under the 30% phase will be refined and expanded to the 60% level. Drawings prepared up to this phase include:

Cover
 Project Drawing List
 Summary of Quantities (2)

General Notes
 Abbreviations/Legend

Project Construction Haul Route and Staging Plan	Erosion Control Plans and Details (3)
Safety and Security Notes	Site Demolition Plans
Construction Safety Details	Site Demolition Details
Overall Phasing Plan and Notes	Pavement Sections (3)
Project Schedule	Runway Profiles (7)
Phasing Plans (20)	Pavement Details (3)
MOT Notes and Details	Grading and Drainage Plans (14)
MOT Plans (15)	Drainage Sections and Details (3)
Existing Conditions (9)	Temporary Marking Plans (14)
Horizontal and Vertical Control Plan (5)	Final Marking Plans (14)
Boring Log and Pavement Core Profiles (5)	Marking Details (4)

- 2.3 Technical Specifications** – At this time, KHA will prepare 60% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant a FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text.
- 2.4 Project Quantities and Engineer’s Estimate** – Where appropriate, KHA will determine project quantities for all items of work. In turn, these quantities shall be used by Connico to prepare the OPCs. KHA will evaluate Connico’s product prior to submitting to PIE. Consideration will be given to alternate pay items.
- 2.5 Modification of Standards (MOS)** – One Modification of Standards to the FAA criteria for P-211 Lime Rock Base is anticipated. KHA will prepare, submit and engage PIE Staff and FAA in requesting such modification. KHA will evaluate two other MOS’ for shoulder, and blast pad design.
- 2.6 Project Management** – Throughout the 60% Phase, KHA shall manage the project design and coordinate with all subconsultants in accordance with customary practices for design projects. KHA internal administration for staffing, coordination, production coordination, schedule, scope and budget adherence is part of this task.

- 2.7 Quality Control** - Prior to each submission, KHA will perform an internal technical review of deliverables. This review will include appropriate checklists and written comments with responses for each.
- 2.8 Deliverable** – KHA will package and deliver the following to PIE at the completion of the 60% Phase:
- 3 bound hard copies of 11x17 plans
 - Technical Specifications
 - Draft Engineer’s Report
 - 1 hard copies of Engineer’s Estimate of Probable Costs
 - 1 PDF of plans and specs
 - Autocad/Civil 3D files
- 2.9 Review Meetings** – Conduct meetings at PIE’s office at key intervals to review the progress of the design for necessary input and discussions from PIE Staff (anticipated to one meeting every week throughout the design). Specific items to coordination with PIE Staff and affected stakeholders are project phasing and sequencing, haul route and staging area, maintenance of aircraft operations and construction durations. Shortly after the submission of the 60% plans and specifications, KHA will attend one review meeting with PIE. KHA will be prepared to discuss the details of the site and the challenges with the site moving forward. It is anticipated that separate meetings with stakeholders (ATCT, FAA, Tenants, Airport Executive Staff and Air Carriers) will be needed. KHA will prepare and distribute meeting minutes.
- 2.10 County Development Review Services (DRS)** – KHA will attend a DRS meeting. Minutes will be taken and published to PIE and design team. KHA will incorporate comments received from the DRS into the contract plans.
- 2.11 Draft Engineer’s Report** - As part of this phase, a draft engineer’s report will be submitted to PIE. The report will discuss the work product in greater detail. The document will include a discussion of the rationale for selection of various design elements such as utility investigations, permitting, pavement design, drainage, construction sequencing, etc. This report will include pertinent documents in support of direction already provided and decisions already made by PIE, our Team, and/or pertinent authorities.

2.12 Safety Area Determination – KHA will perform the Runway Safety Area Determination in accordance with FAA Order 5200.8. KHA will coordinate this effort with PIE’s Master Planner. Data will be collected and recorded on the appropriate forms provided in the Order. KHA will submit the data to FAA to obtain FAA approval. Improvements to RSA recommended by FAA via the approval process will be discussed with PIE and incorporated into the design.

Task 3 – Final Design, 90%

The information prepared during the 60% phase will be reviewed and refined during the Final Design Phase - 90%. This phase will encompass the professional services required to furnish PIE with a set of 90% documents, including technical specifications, 90% drawings, construction phasing and safety plans, engineer’s report, draft project manual and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance with FAA standards and will provide sufficient detail for the review of proposed design by PIE Staff and all other appropriate parties.

3.1 Drawing Preparation – Drawing prepared under the 60% phase will be refined and expanded to the 90% level. Drawings prepared up to this phase include:

- | | |
|--|---|
| Cover | Boring Log and Pavement Core Profiles (5) |
| Project Drawing List | Erosion Control Plans and Details (3) |
| Summary of Quantities (2) | Site Demolition Plans |
| General Notes | Site Demolition Details |
| Abbreviations/Legend | Pavement Sections (3) |
| Project Construction Haul Route and Staging Plan | Runway Profiles (7) |
| Safety and Security Notes | Pavement Details (3) |
| Construction Safety Details | Grading and Drainage Plans (14) |
| Overall Phasing Plan and Notes | Drainage Sections and Details (3) |
| Project Schedule | Temporary Marking Plans (14) |
| Phasing Plans (20) | Final Marking Plans (14) |
| MOT Notes and Details | Marking Details (4) |
| MOT Plans (15) | Grooving Plans (8) |
| Existing Conditions (9) | |
| Horizontal and Vertical Control Plan (5) | |

- 3.2 Technical Specifications** – At this time, KHA will prepare 90% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant a FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text.
- 3.3 Construction Safety and Phasing Plan (CSPP)** – KHA will prepare the final CSPP. KHA will coordinate the project construction phasing and sequencing plan with PIE Staff. During this time, it is anticipated that stakeholder engagement (FAA, ATCT, Tenants, Executive Airport Staff and Air Carriers) will be needed. KHA will prepare needed exhibits, power points, etc. The CSPP will supplement the technical specifications and serve as a guide for the selected Contractor when preparing the Safety Plan Compliance Document (SPCD). KHA will submit the final CSPP to PIE and FAA.
- 3.4 Project Quantities and Engineer's Estimate** – Where appropriate, KHA will determine project quantities for all items of work. In turn, these quantities shall be used by Connico to prepare the OPCs. KHA will evaluate Connico's product prior to submitting to PIE. Consideration will be given to alternate pay items.
- 3.5 Project Management** – KHA shall manage the project design and coordinate with all subconsultants in accordance with customary practices for design projects. KHA internal administration for staffing, coordination, production coordination, schedule, scope and budget adherence is part of this task.
- 3.6 Quality Control** - Prior to each submission, KHA will perform an internal technical review of deliverables. This review will include appropriate checklists and written comments with responses for each.
- 3.7 Deliverable** – KHA will package and deliver the following to PIE at the complete of the 90% design:
- 3 bound hard copies of 11x17 plans
 - Technical Specifications
 - 1 hard copies of Engineer's Estimate of Probable Costs
 - 1 PDF of plans and specs
 - Autocad/Civil 3D files

- 3.8 Review Meetings** – Conduct meetings at PIE’s office at key intervals to review the progress of the design for necessary input and discussions from PIE Staff (anticipated to one meeting every week throughout the design). Shortly after the submission of the 90% plans and specifications, KHA will attend one review meeting with PIE Staff. KHA will be prepared to discuss the details of the site and the challenges with the site moving forward. It is anticipated that separate meetings with stakeholders (ATCT, FAA, Tenants, Airport Executive Staff and Air Carriers) will be needed. KHA will prepare and distribute meeting minutes.

Task 4 – Bid Documents, 100%

During this phase final bid documents will be prepared. All comments received from PIE will be addressed to complete the bid documents.

- 4.1 Drawing Preparation** – Further refinement of the 90% plans will continue. Drawings prepared up to this phase include:

Cover	Boring Log and Pavement Core Profiles (5)
Project Drawing List	Erosion Control Plans and Details (3)
Summary of Quantities (2)	Site Demolition Plans
General Notes	Site Demolition Details
Abbreviations/Legend	Pavement Sections (3)
Project Construction Haul Route and Staging Plan	Runway Profiles (7)
Safety and Security Notes	Pavement Details (3)
Construction Safety Details	Grading and Drainage Plans (14)
Overall Phasing Plan and Notes	Drainage Sections and Details (3)
Project Schedule	Temporary Marking Plans (14)
Phasing Plans (20)	Final Marking Plans (14)
MOT Notes and Details	Marking Details (4)
MOT Plans (15)	Grooving Plans (8)
Existing Conditions (9)	Cross Sections (28)
Horizontal and Vertical Control Plan (5)	

- 4.2 Technical Specifications** – At this time, KHA will prepare the final technical specifications ready for bid. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant a FAA

Modification of Standards (MOS) will be identified by strike-through and bold-italic text.

- 4.3 Project Manual (Front End)** – KHA will assist PIE Staff in preparation of the front end of the project manual. This includes preparing descriptive paragraphs of the project and work, construction sequencing narrative, bid schedule, drawing list, spec list, etc. In addition, KHA will prepare a list of anticipated permits required of the Contractor and associated fee. KHA will evaluate the County's standard provisions against FAA's standard provision to determine potential conflicts. All front end documents will be provided electronically to KHA by PIE for inclusion in the overall Project Manual.
- 4.4 Project Quantities and Engineer's Estimate** – Bid items and project quantities will be re-evaluated in an effort to determine the final engineer's estimate. In turn, these quantities shall be used by Connico to prepare the OPCs. KHA will evaluate Connico's product prior to submitting to PIE Staff. KHA will assist PIE in developing the estimated contract DBE participation. At this phase of design there will be no contingency adjustment to the overall estimate. Consideration will be given to alternate pay items.
- 4.5 Final Engineer's Report** - As part of the final bid documents phase, an engineer's report will be submitted to PIE. The report will be a continuation of effort started within the 60% phase. The document will include a discussion of the rationale for selection of various design elements such as building layout, utility investigation, permitting, pavement design, drainage, construction sequencing, etc. This report will include pertinent documents in support of direction already provided and decisions already made by PIE, our Team, and/or pertinent authorities.
- 4.6 Project Management** – KHA shall manage the project design and coordinate with all subconsultants in accordance with customary practices for design projects. KHA internal administration for staffing, coordination, production coordination, schedule, scope and budget adherence is part of this task.
- 4.7 Quality Control** - Prior to each submission, KHA will perform an internal technical review of deliverables. This review will include appropriate checklists and written comments with responses for each.
- 4.8 Deliverable** – KHA will package and deliver the following to PIE Staff at the complete of the 100% design:

- 6 bound hard copies of 11x17 plans
- Technical Specifications
- 1 hard copies of Engineer's Estimate of Probable Costs
- Engineer's Report
- 1 PDF of plans and specs
- Autocad/Civil 3D files

4.9 Review Meetings – Conduct meetings at the PIE's office at key intervals to review the progress of the design for necessary input and discussions from PIE Staff (anticipated to one meeting every week throughout the design). Shortly after the submission of the 100% plans and specifications, KHA will attend one review meeting with PIE. KHA will be prepared to discuss the details of the site and the challenges with the site moving forward. It is anticipated that separate meetings with stakeholders (ATCT, FAA, Tenants, Airport Executive Staff and Air Carriers) will be needed. KHA will prepare and distribute meeting minutes.

Task 5 – Bidding Services

- 5.1 Pre Bid Meeting** – KHA will prepare exhibits relative to the project, attend and present at the pre bid meeting. KHA will participate in a site walk. This meeting will be chaired and managed by PIE Staff.
- 5.2 Preparation of Addenda** – KHA will coordinate with the team and prepare addenda material including any change to the final Engineer's Estimate of Probable Construction Costs, in required. KHA will provide PIE addenda in electronic format. PIE will make available these documents to potential bidders and plan rooms. At the conclusion of the bidding services and prior to construction, KHA will prepare a complete set of conformed contract documents for distribution. These documents will reflect all modifications to the plans and specifications identified in the bid addenda.
- 5.3 Recommendation of Contract Award** – KHA will attend the bid opening, prepare the bid tabulation and provide the recommendation of award. Documentation provided by each bidder will be examined for completeness and compliance with bidding instructions.
- 5.4 Deliverable** – KHA will package and deliver the following to PIE as part of this task:

Conformed Documents

- 3 bound hard copies of 11x17 plans
- Technical Specifications
- 1 PDF of plans and specs, signed and sealed
- Autocad/Civil 3D files

Task 6 – Construction Administration Services

Following PIE Staff's award of the construction contract, KHA will support PIE in administering the construction contract.

KHA shall not be responsible for the acts or omissions of any Contractor, or of any of their subcontractors, suppliers, or of any other individual or entity performing or furnishing the Work. KHA shall not have the authority or responsibility to stop the work of any Contractor. KHA may advise PIE Staff to suspend operations, wholly or in part, when safety violations or persistent nonconformance to the plans and specs are noted. Specific services to be provided include:

- 6.1 General Administration of Construction Contract** – KHA will coordinate with PIE and act as their representative as provided in the Contract Documents; attend one pre-construction conference stated in FAA Advisor Circular 150/5370-2F, paragraph 104.b(3), KHA will attend the pre-construction conference and shall be prepared to discuss the CSPP and attend weekly construction progress meetings. General administration is inclusive of managing the team's subconsultants.
- 6.2 Construction Management Plan (CMP)** – Prepare a CMP for approval by the FAA. Coordinate with independent testing laboratory as well as contractor's laboratory to confirm preconstruction testing procedures are in place.
- 6.3 Visits to Site and Observation of Construction** - KHA will provide on-site construction observation services during the construction phase. KHA will make 36 weekly visits (excluding mobilization period) within the estimated duration of Task 5 in order to observe the progress of the work. Visit will coincide with the weekly construction progress meetings. In addition to the 36 weekly visits, KHA will make 10 additional site visits to facilitate with the progression of work. Such visits and observations by KHA are not intended to be exhaustive or to extend to every aspect of Contractor's work in progress. Observations are to be limited to

spot checking, selective measurement, and similar methods of general observation of the work by PIE on KHA's exercise of professional judgment. Based on information obtained during such visits and such observations, KHA will evaluate whether Contractor's work is generally proceeding in accordance with the plans and specifications, and KHA will keep the PIE Staff informed of the general progress of the work.

The purpose of KHA's site visits will be to enable KHA to better carry out the duties and responsibilities specifically assigned in this agreement to KHA, and to provide PIE a greater degree of confidence that the completed Work will conform in general to the plans and specs. KHA shall not, during such visits or as a result of such observations of Contractor's work in progress, supervise, direct, or have control over Contractor's work, nor shall KHA have authority over or responsibility for the means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction selected by Contractor, for safety precautions and programs incident to Contractor's work, nor for any failure of Contractor to comply with laws and regulations applicable to Contractor's furnishing and performing the Work. Accordingly, KHA neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the plans and specs.

KHA will recommend to PIE that Contractor's work be disapproved and rejected while it is in progress if, on the basis of such observations, KHA believes that such work will not produce a completed project that conforms to plans and specs.

6.4 Clarifications and Interpretations - KHA will respond to reasonable and appropriate Contractor requests for information (RFIs) and issue necessary clarifications and interpretations of the Contract Documents to PIE Staff as appropriate to the orderly completion of Contractor's work. Any orders authorizing variations from the Contract Documents will be made by PIE.

KHA will, if requested by PIE Staff, render written decision on all claims of PIE and Contractor relating to the acceptability of Contractor's work or the interpretation of the requirements of the plans and specs pertaining to the progress of Contractor's work. In rendering such decisions, KHA shall be fair and not show partiality to PIE or Contractor and shall not be liable in connection with any decision rendered in good faith in such capacity.

Throughout the duration of the construction, KHA will revise the CSPP up to two times as inclusive in this contract. As the CSPP is revised, KHA will resubmit to the FAA for approval.

6.5 Change Orders and Field Orders - KHA may recommend Change Orders to PIE, and will review and make recommendations related to Change Orders submitted or proposed by the Contractor. PIE Staff will authorize Field Orders authorizing variations from the requirements of the Contract Documents. KHA will assist in preparation of Change Orders in compliance with PIE for the project.

6.6 Shop Drawings and Samples - KHA will review or take other appropriate action in respect to Shop Drawings and Samples and other data which Contractor is required to submit, but only for conformance with the information given in the plans and specs. Such review and approvals or other action will not extend to means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction or to related safety precautions and programs.

KHA will evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by the Contractor in accordance with the Contract Documents, but subject to the provisions of applicable standards of state, local government entities and PIE.

6.7 Substantial Completion - KHA will, promptly after notice from Contractor that it considers the Work ready for its intended use, in company with PIE and Contractor, conduct a site visit to determine if the Work is substantially complete. Work will be considered substantially complete following satisfactory completion of all items with the exception of those identified on a final punch list. If after considering any objections of PIE Staff, KHA considers the Work substantially complete, KHA will notify PIE and Contractor.

6.8 Final Notice of Acceptability of the Work - KHA will conduct a final site visit to determine if the completed work of Contractor is generally in accordance with the plans and specs so that KHA may recommend, in writing, final payment to the Contractor. Accompanying the recommendation for final payment, KHA shall also provide a notice that the Work is generally in accordance with the Contract Documents to the best of KHA's knowledge, information, and belief based on the extent of its services and based upon information provided to KHA upon which it is entitled to rely.

6.9 Post Construction Phase - KHA will provide assistance and consultation to PIE for up to one year following the Project final completion. This will include one site visit to observe any Contractor deficiencies in their work and assist PIE in recommendations in correcting such Contractor deficiencies.

6.10 Deliverable - KHA will assist PIE in preparing close-out documentation. KHA will prepare record drawings for submittal PIE within 30 days of receipt of acceptable as-built drawings from the Contractor. Record drawings will be submitted to PIE in both electronic and hardcopy format. KHA will package and deliver the following to PIE Staff at the complete of the construction phase:

- 3 bound hard copies of 11x17 plans
- Technical Specifications
- 1 PDF of plans and specs, signed and sealed
- Autocad/Civil 3D files

EXCLUSIONS:

1. It is understood that materials testing during construction, Quality Assurance, will be performed by others.
2. It is understood that this effort does not include an update of PCI values for Runway 18-36.
3. Threatened and endangered species will not be required (i.e. burrowing owls and gopher tortoises).
4. This Scope of Services has been developed based on a single construction contract. Subdividing the program into multiple bid packages will be considered additional services and a scope and fee negotiated at the appropriate time.
5. Environmental Contamination Assessment and cleanup is not included in this proposal.
6. Construction management and inspection services are not included in this scope of work.
7. Any effort in towards an Categorical Exclusion, Finding of No Significant Impact or Environmental Assessment would be considered additional work.

END



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PROFESSIONAL SERVICES FOR REHABILITATION OF RUNWAY 18-36 ST. PETERSBURG/CLEARWATER INTERNATIONAL AIRPORT

Arora Engineers, Inc. (Arora) is pleased to offer this scope of work for professional services of aeronautical electrical engineering to Kimley-Horn Associates in support of the Rehabilitation of Runway 18-36 St. Petersburg/Clearwater International Airport

Project Scope

Arora understands the scope of work to include the following:

RW 4-22: Extending RW 22 End 100 Feet

1. Design and layout of RW Edge Lights
 - a. Existing RW threshold/end light fixtures shall be relocated on new light bases
 - b. Approximately two (2) new RW edge light on new light bases in extended RW area (100' section)
 - c. Modifications/revisions to RW edge lights color coding
 - d. Extension of existing RW edge light series lighting cable in existing and new conduit infrastructure
2. Design modifications/revisions to RW distance remaining signs (RDR)
 - a. Existing layout needs to be reviewed to determine full impact; ranges from 2 signs to all (5) signs.
3. Design for the relocation of existing Airport owned PAPI system based on new threshold locations (siting and design)
 - a. Extension of existing circuits in new conduit infrastructure.
 - b. Siting Calculations (3.00° Glide Path)
 - c. PCU and LHA Power, Grounding & Foundations
4. Design for the relocation of existing Airport owned REIL system based on new threshold locations (siting and design)
 - a. Extension of existing circuits in new conduit infrastructure
 - b. Siting Layout
 - c. Master and Secondary Unit Power, Grounding & Foundation
5. Airfield Electrical Vault Modifications
 - a. Recalibration of CCRs

RW 18-36 Threshold Relocation (Temporary Phase Design)

1. Design and layout of RW Edge Lights
 - a. Existing RW threshold/end light fixtures shall be relocated to temporary threshold location
 - b. Modifications to RW edge lights color coding based on temporary threshold location

1. Use of existing RW edge lights from closed portion of RW
- c. Modifications and temporary routing of the RW edge light circuit
 1. Use existing and new series lighting cable in existing and new conduit infrastructure
2. Design and layout of RW Centerline Lights
 - a. Modifications to RW centerline lights color coding based on temporary threshold location
 1. Use of existing RW centerline lights from closed portion of RW
 - b. Modifications to RW centerline light circuit
3. Touchdown Zone Lights
 - a. Decommissioning of TDZ lights at CCR and ALCMS
4. Modifications/revisions to RW distance remaining signs (RDR)
 - b. Change panels and cover existing signs
5. FAA owned PAPI System
 - a. Place existing PAPI as out of service, disconnect power and control
 - b. Locate temporary PAPI based on temporary threshold (siting and design)
 1. Provide current driven LED PAPI system and connect to RW edge lights (one option)
 2. Siting Calculations (3.00° Glide Path)
 3. Provide temporary power and foundations
6. Temporary REIL System
 - a. Locate temporary RW End Identifier Light System based on temporary threshold (siting and design)
 - b. Provide current driven LED REIL system and connect to RW edge lights
 - c. Siting layout
7. Decommission glide slope; Localizer can be maintained if desired
8. Modifications/revisions to ALCMS graphics and/or software for temporary RW configuration

Closed Portion of RW 36 End (2700')

1. Design and layout of RW Edge and Threshold Lights
 - a. New light bases, conduit, cable and light fixtures
 - b. Verify light location offset and spacing
2. Design and layout of Guidance Signs
 - a. Adjust guidance signs pending shoulder and grading revisions/modifications
 - b. Revisions to foundations
 - c. Extend series cable and conduit infrastructure
 - d. Verify siting and offset
3. Design and layout of RW Centerline Lights
 - a. New light bases, conduit, cable and light fixtures
 - b. Verify light location offset and spacing
4. Site investigation shall be performed to verify conditions of light bases for reuse, for now full replacement is being used for design basis
5. Design and layout of TW Edge Lights
 - a. Adjustment or replacement of TEL light bases pending RW shoulder revisions/modifications on TW's A5 and A6

- b. Reuse or extend conduit infrastructure depending on RW shoulder revisions/modifications on TW's A5 and A6.

RW 18-36 (Within Temporary Threshold Displacement Area)

1. Remove temporary Airfield Ground Lights and NAVAIDS: RW lights, PAPI and REIL
2. Design and Layout of RW Edge and Threshold Lights
 - a. New light bases, conduit, cable and light fixtures
 - b. Verify light location offset and spacing
3. Design and layout of Guidance Signs
 - e. Adjust guidance signs pending shoulder and grading revisions/modifications
 - f. Revisions to foundations
 - g. Extend series cable and conduit infrastructure
 - h. Verify siting and offset
4. Design and layout of RW Centerline Lights
 - a. New light bases, conduit, cable and light fixtures
 - b. Verify light location offset and spacing
5. Design and layout of Touchdown Zone Lights
 - a. New light bases, conduit, cable and light fixtures
 - b. Verify light locations and system configuration
6. Site investigation shall be performed to verify conditions of light bases for reuse, for now full replacement is being used as design basis
7. Design and layout of TW Edge Lights
 - a. Adjustment or replacement of TEL light bases pending RW shoulder revisions/modifications on TW's A1, A2, A3 and A4
 - b. Reuse or extend conduit infrastructure depending on RW shoulder revisions/modifications on TW's A1, A2, A3 and A4.
8. Design of Power Distribution for Airfield Electrical Vault
 - a. Replace constant current regulators for RW centerline lights and edge lights circuits due to new LED light fixtures.
 - b. ALCMS calibration and commissioning

Project Execution Tasks

Arora understands the project execution tasks, site visits, meeting attendance, and deliverables for the project's Design, Bidding and Construction Administration phase to include the following:

Task 1 – Preliminary Design, 30%

- 1.1 **Design Kick-Off Meeting** – *Arora* will attend one kickoff meeting with PIE Staff and design team. The purpose of this meeting is to introduce the participants of the project, to confirm and clarify project and design requirements, and to address the concerns of affected parties. *Arora* will assist in preparing minutes to the meeting.
- 1.2 **Data Collection and Review** – *Arora* will assist in the collection and review of data provided by PIE. Relevant information includes items such as as-builts, previous design

plan record drawings and specifications. This information will be compiled and visually verified in the field for the preparation of a base plan for conceptual design.

1.3 Field Investigation – *Arora* will visit the site to examine existing conditions of the airfield ground lighting (AGL) systems, 5kV distribution, light bases, conduit and NAVAIDS within the project area. Information gathered will be used to develop an existing condition report and propose design recommendations. Any discrepancies found within the record information will be noted and the base drawing will be updated to current field conditions.

1.4 Drawing Preparation - Drawings will be prepared in accordance with specific format requirements provided by PIE. Drawings prepared up to this phase include:

General Notes

Abbreviations/Legend

Phasing and Temporary Work Plans

Electrical Demolition Plans

Electrical Lighting Plans

Airfield Electrical Vault Plans

PAPI Siting Plan

REIL Siting Plan

1.5 Technical Specifications – *Arora* will prepare outline technical specifications. Specifications will follow FAA format using unit cost where applicable.

1.6 Project Quantities and Engineer's Estimate – *Arora* will assist in the development and review of project quantities for the electrical items of work.

1.7 Quality Control – Prior to each submission, *Arora* will perform an internal technical review of the electrical design. Additionally, *Arora* will provide a QC submission to KH for a review and comment process and provide appropriate checklists and written comments with responses for each.

1.8 Deliverable – *Arora* 30% submission package will include following:

- AutoCAD files
- Hard copy drawings
- Outline Technical Specifications
- Evidence of quality control review

1.9 Review Meetings – *Arora* will attend two (2) meetings, a progress design meeting and submission progress review meeting.

Task 2 – Engineering Design Phase, 60%

The information obtained during the 30% phase will be reviewed and refined during the Engineering Phase - 60%. This phase will encompass the professional services required to furnish PIE with a set of 60% documents, including technical specifications, 60% drawings, construction phasing and safety and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance with FAA standards and will provide sufficient detail for the review of proposed design by the Authority and all other appropriate parties.

2.1 Drawing Preparation – Drawing prepared under the 30% phase will be refined and expanded to the 60% level. Drawings prepared up to this phase include:

- General Notes
- Abbreviations/Legend
- Phasing and Temporary Work Plans
- Electrical Demolition Plans
- Electrical Lighting Plans
- Airfield Electrical Vault Plans
- Light Fixture Installation Details
- PAPI Siting Plan
- PAPI Installation Details
- REIL Siting Plan
- REIL Installation Details
- Conduit & Ductbank Details
- Wiring Diagrams
- Circuit Schematics
- Taxi Guidance Sign Details

2.2 Technical Specifications – *Arora* will prepare 60% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant a FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text.

2.3 Project Quantities and Engineer's Estimate – *Arora* will assist in the development and review of project quantities for the electrical items of work.

2.4 Quality Control – Prior to each submission, *Arora* will perform an internal technical review of the electrical design. Additionally, *Arora* will provide a QC submission to KH for a review and comment process and provide appropriate checklists and written comments with responses for each.

2.5 Deliverable – *Arora* 60% submission package will include following:

- AutoCAD files
- Hard copy drawings
- Preliminary Engineering Report
- Technical Specifications
- Evidence of quality control review

2.6 Review Meetings – *Arora* will attend two (2) meetings, a progress design meeting and submission progress review meeting.

Task 3 – Final Design, 90%

The information prepared during the 60% phase will be reviewed and refined during the Final Design Phase - 90%. This phase will encompass the professional services required to furnish PIE with a set of 90% documents, including technical specifications, 90% drawings, construction phasing and safety plans, engineer's report, draft project manual and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance with FAA standards and will provide sufficient detail for the review of proposed design by the Authority and all other appropriate parties.

3.1 Drawing Preparation – Drawing prepared under the 60% phase will be refined and expanded to the 90% level. Drawings prepared up to this phase include:

General Notes
Abbreviations/Legend
Phasing and Temporary Work Plans
Electrical Demolition Plans
Electrical Lighting Plans
Airfield Electrical Vault Plans
Light Fixture Installation Details
PAPI Siting Plan
PAPI Installation Details
REIL Siting Plan
REIL Installation Details
Conduit & Ductbank Details
Wiring Diagrams
Circuit Schematics
Taxi Guidance Sign Details
Lighting Fixture Schedules

3.2 Technical Specifications – *Arora* will prepare 90% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the

specifications that do not warrant a FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text.

3.3 Project Quantities and Engineer's Estimate – *Arora* will assist in the development and review of project quantities for the electrical items of work.

3.4 Quality Control – Prior to each submission, *Arora* will perform an internal technical review of the electrical design. Additionally, *Arora* will provide a QC submission to KH for a review and comment process and provide appropriate checklists and written comments with responses for each.

3.5 Deliverable – *Arora* 90% submission package will include:

- AutoCAD files
- Hard copy drawings
- Technical Specifications
- Evidence of quality control review

3.6 Review Meetings – *Arora* will attend two (2) meetings, a progress design meeting and submission progress review meeting.

Task 4 – Bid Documents, 100%

During this phase final bid documents will be prepared. All comments received from PIE and other team members will be addressed to complete the bid documents.

4.1 Drawing Preparation – Further refinement of the 90% plans will continue. Drawings prepared up to this phase include:

General Notes
Abbreviations/Legend
Phasing and Temporary Work Plans
Electrical Demolition Plans
Electrical Lighting Plans
Airfield Electrical Vault Plans
Light Fixture Installation Details
PAPI Siting Plan
PAPI Installation Details
REIL Siting Plan
REIL Installation Details
Conduit & Ductbank Details
Wiring Diagrams
Circuit Schematics
Taxi Guidance Sign Details
Lighting Fixture Schedules

- 4.2 Technical Specifications** – *Arora* will prepare the final technical specifications ready for bid. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant a FAA Modification of Standards (MOS) will be removed from final version.
- 4.3 Project Manual** – *Arora* will assist KH in preparation of the project manual. This includes preparing descriptive paragraphs of the electrical project and work, bid schedule, drawing list, spec list, etc.
- 4.4 Project Quantities and Engineer's Estimate** – Electrical bid items and project quantities will be re-evaluated to assist in determining the final engineer's estimate.
- 4.5 Final Engineer's Report** – As part of the final bid documents phase, *Arora* will submit and electrical engineer's report to KH for incorporation into the project's final report.
- 4.6 Quality Control** – Prior to each submission, *Arora* will perform an internal technical review of the electrical design. Additionally, *ARORA* will provide a QC submission to KH for a review and comment process and provide appropriate checklists and written comments with responses for each.
- 4.7 Deliverable** – *Arora* 90% submission package will include:
- AutoCAD files
 - Signed and sealed hard copy drawings
 - Final Engineering Report
 - Final Technical Specifications
 - Evidence of quality control review
- 4.8 Review Meetings** – *Arora* will attend a final design review meeting.

Task 5 – Bidding Services

- 5.1 Preparation of Addenda** – *Arora* will prepare the necessary electrical addenda material including any change to the final drawings, specifications, quantities and engineer's report if required. At the end of the bidding services and prior to construction, *Arora* will prepare the electrical conformed contract documents and provide to KH. These documents will reflect all modifications to the plans and specifications identified in the bid addenda.
- 5.2 Recommendation of Contract Award** – *Arora* will review the electrical bid tabulation and provide cost justification comments.

5.3 Deliverable – *Arora* will provide the following as part of this task:

Bid and Conformed Documents

- AutoCAD files
- Signed and sealed hard copy drawings
- Final Engineering Report
- Final Technical Specifications

Task 6 – Construction Administration Services

Following the Authority’s award of the construction contract, *Arora* will support KH in administering of the electrical design portion of the construction contract.

Arora shall not be responsible for the acts or omissions of the prime Contractor, or of any of the prime contractor’: subcontractors, suppliers, or of any other individual or entity performing or furnishing the Work. *Arora* may advise KH to recommend to the Authority to suspend operations, wholly or in part, when safety violations or persistent nonconformance to the electrical plans and specs are noted. Specific services to be provided include:

6.1 General Administration of Construction Contract – *Arora* will coordinate with KH during the construction phase to ensure the electrical design intent is met; attend one pre-construction conference stated in FAA Advisor Circular 150/5370-2F, paragraph 104.b(3); and periodically attend the weekly construction progress meetings.

6.2 Visits to Site and Observation of Construction – *Arora* will provide on-site construction observation services during the construction phase. *Arora* will make twelve (12) visits, to coincide with the weekly construction meetings, within the estimated duration of Task 5 to observe the progress of the work. Such visits and observations by *Arora* are not intended to be exhaustive or to extend to every aspect of Contractor's work in progress. Observations are to be limited to spot checking, selective measurement, and similar methods of general observation of the work and *Arora*’s exercise of professional judgment. Based on information obtained during such visits and such observations, *Arora* will evaluate whether the electrical work is generally proceeding in accordance with the plans and specifications. *Arora* will report to KH of the general progress of the work.

Arora shall not, during such visits or as a result of such observations of Contractor's work in progress, supervise, direct, or have control over Contractor's work, nor shall *Arora* have authority over or responsibility for the means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction selected by Contractor, for safety precautions and programs incident to Contractor's work, nor for any failure of Contractor to comply with laws and regulations applicable to Contractor's furnishing and performing the Work. Accordingly, *Arora* neither guarantees the performance of any

Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the plans and specs.

Arora will inform KH that Contractor's work be disapproved and rejected while it is in progress if, based on such observations, *Arora* believes that such work will not produce a completed project that conforms to plans and specs.

- 6.3 Clarifications and Interpretations** – *Arora* will respond to reasonable and appropriate Contractor requests for information (RFIs) and issue necessary clarifications and interpretations of the Contract Documents to the Authority as appropriate to the orderly completion of Contractor's work. Any orders authorizing variations from the Contract Documents will be made by PIE.

Arora will, if requested by KH, assist in rendering written decision on electrical claims relating to the acceptability of Contractor's work or the interpretation of the requirements of the plans and specs pertaining to the progress of Contractor's work. In rendering such decisions, *Arora* shall be fair and not show partiality and shall not be liable in connection with any decision rendered in good faith in such capacity.

- 6.4 Change Orders and Field Orders** – *Arora* may recommend Change Orders to KH and will review and make recommendations related to Change Orders submitted or proposed by the Contractor. *Arora* will not authorize Field Orders authorizing variations from the requirements of the Contract Documents. *Arora* will assist KH in preparation of Change Orders in compliance with the project.

- 6.5 Shop Drawings and Samples** – *Arora* will review or take other appropriate action in respect to Electrical Shop Drawings and Samples and other data which Contractor is required to submit, but only for conformance with the information given in the plans and specs. Such review and approvals or other action will not extend to means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction or to related safety precautions and programs.

Arora will evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by the Contractor in accordance with the Contract Documents, but subject to the provisions of applicable standards of state, local government entities and PIE.

- 6.6 Substantial Completion** – *Arora* will, after notice from KH, conduct a site visit to determine if the Work is substantially complete. Work will be considered substantially complete following satisfactory completion of all items with the exception of those identified on a final punch list. If after considering any objections of from KH, *Arora* considers the Work substantially complete and will notify KH.

- 6.7 Final Notice of Acceptability of the Work** – *Arora* will conduct a final site visit to determine if the completed work of Electrical Contractor is generally in accordance with

the plans and specs and will inform KH of such findings. *Arora* will provide a notice to KH, that the Work is generally in accordance with the Electrical Contract Documents to the best of *Arora's* knowledge, information, and belief based on the extent of its services and based upon information provided to *Arora* upon which it is entitled to rely.

6.8 Post Construction Phase – *Arora* will provide assistance and consultation to KH for up to one year following the project's accepted completion. This will include one site visit to observe any Contractor deficiencies in their work and assist KH in recommendations in correcting such Contractor deficiencies.

6.9 Deliverable – *Arora* will assist KH in preparing close-out documentation. *Arora* will prepare electrical record drawings for submittal within 30 days of receipt of acceptable as-built drawings from the Contractor. Record drawings will be submitted to KH in both electronic and hardcopy format.

Arora will deliver the following to KH at the completion of the construction phase:

- Reproducible hard copies (pdf format) of project record plans
- Electrical portion of the record project manual
- CAD and MSWord files representing record documents

EXHIBIT “A” – SCOPE OF WORK**ST PETE-CLEARWATER INTERNATIONAL AIRPORT****REHABILITATION OF RUNWAY 18-36****PROJECT DESCRIPTION**

Michael Baker will provide support to the Prime Consultant for Constructability Reviews and in developing the Project Construction Phasing. The following identifies the specific efforts to be provided:

Task 1: Preliminary Design

Immediately following Notice-To-Proceed, Michael Baker will attend and participate in a project kickoff meeting to obtain input from the St Pete-Clearwater International Airport (PIE) regarding the design approach, construction phasing constraints, critical periods for airport operations and appropriate interaction with airlines and other key stakeholders in developing the construction phasing.

Michael Baker will review the 30% Plan Set for Constructability concerns and constraints in the initial concepts and provide documentation of the comments for proof of the deliverable. Michael Baker will provide Quality Control of the deliverables to the Prime Consultant.

Michael Baker will coordinate and work in conjunction with the Prime Consultant to develop the construction phasing plans and phasing constraints consistent with the 30% Plan Set. Michael Baker will attend a review meeting with PIE to assist the Prime Consultant in discussion of the conceptual Construction Phasing.

Deliverables: Comment Response Form, Drawing Markups (Electronic Form)

Task 2: Engineering Design Phase, 60%

Michael Baker will review the 60% Plan Set for Constructability concerns and constraints in the initial concepts and provide documentation of the comments for proof of the deliverable. Michael Baker will provide Quality Control of the deliverables to the Prime Consultant.

Michael Baker will coordinate and work in conjunction with the Prime Consultant to develop the construction phasing plans and phasing constraints consistent with the 60% Plan Set. Michael Baker will attend a review meeting with PIE to assist the Prime Consultant in discussion of the Construction Phasing and constraints with each Phase.

Deliverables: Comment Response Form, Drawing Markups (Electronic Form)

Task 3: Final Design Phase, 90%

Michael Baker will review the 90% Plan Set and Technical Specifications for Constructability concerns and constraints in the initial concepts and provide documentation of the comments for proof of the deliverable. Michael Baker will provide Quality Control of the deliverables to the Prime Consultant.

Michael Baker will coordinate and work in conjunction with the Prime Consultant to develop the construction phasing plans and phasing constraints consistent with the 90% Plan Set and Technical Specifications. Michael Baker will attend a review meeting with PIE to assist the Prime Consultant in discussion of the Construction Phasing and constraints with each Phase.

Deliverables: Comment Response Form, Drawing Markups (Electronic Form)

Task 4: Bidding Documents, 100%

Michael Baker will review the 100% Plan Set and Technical Specifications for Constructability concerns and to make sure that all prior comments have been addressed. Michael Baker will provide documentation of the comments for proof of the deliverable. Michael Baker will provide Quality Control of its deliverables to the Prime Consultant.

Michael Baker will coordinate and work in conjunction with the Prime Consultant to develop the construction phasing plans and phasing constraints consistent with the 60% Plan Set and Technical Specifications. Michael Baker will attend a review meeting with PIE to assist the Prime Consultant in discussion of the Construction Phasing and constraints with each Phase.

Deliverables: Comment Response Form, Drawing Markups (Electronic Form)

Task 5: Bidding Services

No assistance from Michael Baker will be provided during the Bidding Phase of the project.

Deliverables: None

Task 6: Construction Administration

Michael Baker will assist the Prime Consultant in the review of value engineering proposals, alternative project schedules or an alternative phasing plan. Michael Baker staff will attend 4 construction meetings at the request of the Prime Consultant.

Deliverables: Correspondence to Prime Consultant as needed

OTHER PROVISIONS

Prime Consultant shall provide all CADD services. Michael Baker will only provide review services and document those reviews.

All deliverables shall be in electronic format.

Prime Consultant may negotiate additional contract(s) with Michael Baker for services beyond the scope of this project as outlined above.

SCHEDULE

Michael Baker will perform the above services according to the overall project schedule to be provided by the Prime Consultant prior to Notice To Proceed.

EXHIBIT A – SCOPE OF WORK AND FEE

Project Scope

The scope of this project is to rehabilitate Runway 18-36 at St. Pete-Clearwater International Airport. The work will entail multiple phases to completely rehab the runway including lengthening the runway by 100' and displacing the threshold including the relocation of navigational aids and remarking such that rehabilitation of 2,700' of the runway can occur. Once that is complete, Runway 18-36 will be closed and Runway 4-22 utilized for air traffic while the remainder of Runway 18-36 is rehabilitated.

The construction budget has been estimated as \$15,000,000.

Scope of Services

Connico proposes to provide an Opinion of Probable Construction Cost services and Scheduling services as follows:

- ⇓ 30% Design Estimate
- ⇓ 60% Design Estimate
- ⇓ 60% Design Construction Schedule and Phasing Study
- ⇓ 90% Design Estimate
- ⇓ 100% Design Estimate

Each estimate phase includes an initial scope of work review meeting, and an estimate draft review meeting prior to issuing the estimate via teleconference. No onsite meetings are included in this proposal. Should onsite meetings be required, they will be considered Additional Services. Quantities of work will be furnished by the client with a spot check of quantities by Connico. A Construction Schedule for the purpose of developing Construction Phasing will be prepared at the 60% Design by Kimley-Horn. The proposal is for design phase services only; construction phase services are not included.

Hazardous Materials Abatement is not included. If consultant provides estimate for hazardous materials, Connico will include in the estimate and cite source.

In providing estimates of probable construction cost the Client understands that the Consultant has no control over the cost or availability of labor, equipment, or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's estimates of probable construction costs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's estimate of probable construction cost.

We require an electronic version of the drawings (PDF and CAD) and narrative/specifications, and a copy of the soil borings report, if available and applicable.

Deliverables

The estimate will be prepared in a customized format to fit the requirements of the Client provided the format is established at the beginning of the estimating task. The estimate will identify our opinion of probable construction cost of the project, based on the documents provided by the Client. Connico is entitled to rely and will rely on the accuracy and completeness of all such documents provided by Kimley-Horn without undertaking an independent investigation to confirm the same.



EXHIBIT A – SCOPE OF WORK AND FEE

Also included within the estimate shall be our Estimate Notes. The notes will contain allowances, criteria, and clarifications for the estimate, based on our assumptions and verbal information provided by the design team. The notes will also include any other comments about the project estimate that we feel are relevant. Connico will provide an electronic copy of the estimate report.

The construction schedule will be prepared using MS PROJECT. The submittal will include a narrative report that includes the assumptions used in preparing the schedule. Included in this report will be a discussion of production rates used for the major items of work.

The estimate(s) shall be prepared within ten (10) business days from the date all design information required is received by Connico. In the event that supplemental information is furnished to Connico after a task has begun, and such information requires changes to any quantity take-off currently in progress, Connico reserves the right to request additional compensation for any such additional take-off. No additional time shall be expended on work affected by such supplemental information without the prior written consent of the Client and an agreement having been reached as to the scope and additional fee required.

Proposed Fees (Basic Scope of Services)

“See Attached Fee Spreadsheet”

The proposed fees are based on providing all listed phase of estimates. Fees shown on the spreadsheet will be considered Lump Sum. Should the Client elect to change the scope of services, Connico reserves the right to renegotiate our fees.

Services not set forth above are specifically excluded from the scope of the Consultant's services. The Consultant assumes no responsibility to perform any services not specifically listed.

Additional Services

Additional services are not included as part of the Basic Scope of Services and shall be paid for by the Client, in addition to payment for Basic Services, in accordance with Connico’s schedules below, or as agreed to by the Client and Connico.

Basic Services do not include, evaluating or making recommendations regarding substitution of materials, products, or equipment proposed, design alternatives or value engineering building or site systems; reconciliation estimates or services, and meetings not included within the base proposal. Connico shall be reimbursed at the following rates for additional services and shall remain in effect through the duration of the design for this project.



**STORMWATER PERMITTING ASSISTANCE FOR RUNWAY 18-36 REHABILITATION
PROFESSIONAL ENGINEERING SERVICES - CONTRACT NO. 178-0102-NC (SS)
FDC PROPOSAL #18-059R2**

The following services are proposed in support of Kimley-Horn and Associates, Inc. (KHA) regarding the following project, Runway 18-36 Rehabilitation – Professional Engineering Services - Contract No. 178-0102-NC (SS). This project is located at St. Petersburg/Clearwater International Airport and all services proposed are for features located there.

Task 1 – 30% Design

Task 1.1 Pre-App

Florida Design Consultants, Inc. (FDC) will prepare for, schedule, and attend one Pre-Application Meeting with the Southwest Florida Water Management District (SWFWMD) at SWFWMD's Tampa Service Office.

FDC will prepare for, schedule, and attend one Pre-Application Meeting with the Pinellas County Stormwater Department at the County's Offices.

Subtasks

- A. Prepare Applications/Requests for Pre-App Meetings
- B. Prepare Exhibits for Meetings (illustrating the general nature of the proposed improvements)
- C. Attend Meetings (SWFWMD and Pinellas County)
- D. Prepare Minutes (SWFWMD Prepared by them, Pinellas County Prepared by FDC)

Deliverables: Meeting Minutes from each meeting

Task 1.2 Master Drainage Model (Optional, If Necessary)

Modifications to the Airports master drainage model (ICPR v3) to incorporate proposed drainage changes and increased impervious area. FDC will update a permitted ICPR model (ERP 1557.052 or later). The Airport will provide ICPR model and associated GIS data for use by FDC. FDC will convert ICPR v3 model to ICPR v4, rerun and compare results. Any significant differences between the ICPR v3 and ICPR v4 results (greater than 0.1-feet for stages and greater than 5% for flows) will be identified and investigated to determine if, which model version represents the most accurate results. FDC will use the ICPR model deemed most accurate for proposed modifications. FDC will update GIS data, as necessary, to match proposed conditions.

Subtasks

- A. Rerun Current Master Drainage Model (ICPR v3)
- B. Convert ICPR v3 model to ICPR v4
- C. Run ICPR v4 model
- D. Compare Results from ICPR v3 and v4
- E. Select ICPR model
- F. Updated selected ICPR Model
- G. Prepare Drainage Report for proposed Master Drainage Model

Deliverables: Modified Master Drainage Model (ICPR v3 or v4), Updated GIS data (If Necessary)

Task 1.3 Water Quality Analysis

FDC will prepare exhibits for proposed Best Management Practices (BMPs) for treating the additional runoff from increased impervious areas (mostly shoulders). FDC will prepare water quality analysis, using BMPTRAINS or Statewide Airport Stormwater Best Management Practices Manual (2013), as required. The Water Quality Analysis of proposed stormwater management systems these systems meet requirements of both the Southwest Florida Water Management District (SWFWMD) and Pinellas County Stormwater Department.

Subtasks

- A. Identify Locations of Increased Impervious
- B. Review available stormwater management systems
- C. Review potential onsite (at increased impervious) treatment (including vegetated upland buffer)
- D. Prepare Water Quality Analysis
- E. Summarize Water Quality Analysis

Deliverables: Existing and Proposed Water Quality Analysis

Task 2 – 60% Design

Task 2.1 ERP

FDC will prepare Environmental Resource Permit (ERP) Application (Sections A, C, and E; as necessary). Specific exhibits required by the ERP applications will be produced by FDC, however construction plans will be provided by Kimley-Horn and Associates (KHA) and signed and sealed by the appropriate professionals. Storm sewer analysis (minor drainage analysis), will be prepared and provided by KHA for inclusion with the ERP. The ERP will be submitted electronically, all documents must be electronically signed and sealed by the professionals in responsible charge.

Subtasks

- A. Prepare ERP Application Sections (included exhibits)
- B. Submit Materials (including from other professionals)

Deliverables: Application Submitted Electronically

Reimbursables: ERP Application Fee

Task 2.2 County Stormwater Permit

FDC will submit previously prepared materials for review by Pinellas County Stormwater Department.

Deliverables: Application, Exhibits, Calculations

Task 2.3 RAI

FDC will prepare responses to Request for Additional Information (RAI) comments, relating to components prepared by us. FDC will incorporate responses to RAI comments prepared by other professionals, for components prepared by them.

Deliverables: Application, Exhibits

ADDITIONAL SERVICES

The following services, though not anticipated at this time, may become necessary and will require additional fees.

- A. Permit Application Fees (Other than SWFWMD ERP App Fee)
- B. US Army Corps of Engineers Permitting
- C. Historic Site Investigation
- D. Any Survey Services
- E. Minor Drainage Design (for example, storm sewer design, inlet sizing and location)
- F. Wetland Delineations
- G. Wetland Impacts and Mitigations
- H. Master Drainage Model

Pavement Technical Solutions, Inc. (PTS)
St. Pete–Clearwater International Airport (PIE), Clearwater, FL
Airfield Pavement Evaluation

Proposed Scope of Work (SOW)
April 2018

INTRODUCTION

The following Scope of Work (SOW) details the proposed structural pavement evaluation to be performed by Pavement Technical Solutions, Inc. (PTS) including Non-Destructive Testing (NDT) and structural analysis of Runway 18-36 pavements at St. Pete–Clearwater International Airport (PIE) located in Clearwater, FL. This effort is being completed in support of the Runway 18-36 Rehabilitation project.

The project limits include the full length (9,730') and width (150') of Runway 18-36.

TASK SUMMARY

The following tasks are proposed by PTS:

Task 1 – Preliminary, 30%

- Task 1.1: Non-Destructive Testing (NDT)
- Task 1.2: Structural Analysis
- Task 1.3: Summary Letter of Results

Subtask 1.1: Non-Destructive Testing (NDT)

PTS's field crew will consist of one (1) Falling Weight Deflectometer (FWD) operator, with extensive experience with airfield operations and safety requirements.

NDT will be conducted using PTS's in-house Dynatest Model 8000 FWD on Runway 18-36. The PTS FWD is configured as shown in the following photos and Figure 1 below.



Photos of PTS's Dynatest Model 8000 FWD

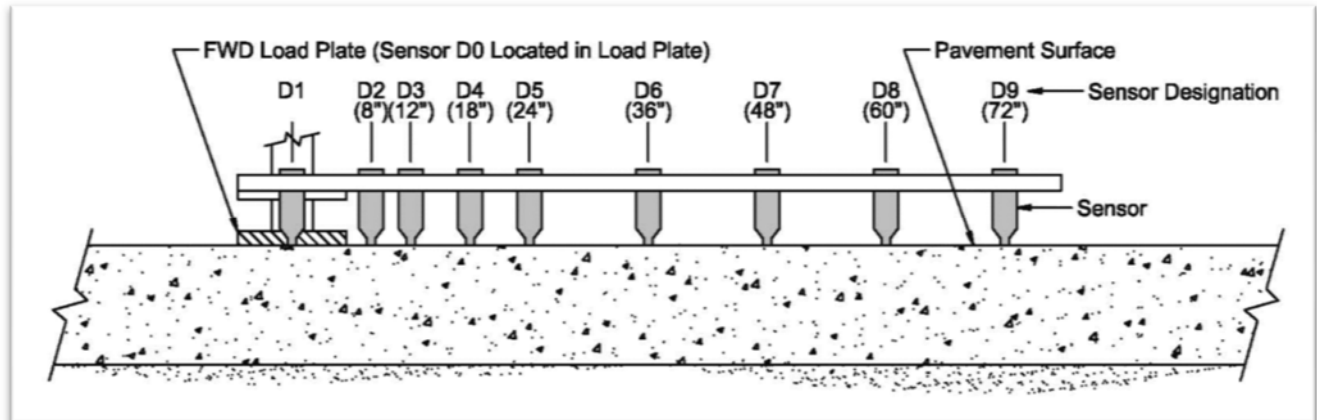


Figure 1 - Schematic of PTS FWD load plate and sensor configurations

NDT tests will generally be conducted at the following intervals and offsets:

- **Runways:** NDT tests will be conducted on 6 lanes total.
 - Lanes 1 and 2 will be conducted at offsets approximately 10 feet right and left of the runway centerline. Tests will be spaced every 100 feet longitudinally, and staggered by 50 feet for adjacent lanes.
 - Lanes 3 and 4 will be conducted at offsets approximately 35 feet right and left of the runway centerline. Tests will be spaced every 200 feet longitudinally, and staggered by 100 feet for adjacent lanes.
 - Lanes 5 and 6 will be conducted at offsets approximately 60 feet right and left of the runway centerline. Tests will be spaced every 400 feet longitudinally, and staggered by 200 feet for adjacent lanes.

For any Portland Cement Concrete (PCC) pavements encountered, tests will be conducted at the mid-slab only.

For each NDT test, three load applications will be applied to the pavement surface. The magnitude of these load applications will be determined in the field with a maximum allowable load of approximately 30,000 lbs. For each load application, the corresponding pavement deflections will be measured and recorded in the FWD's on-board computer. In addition, each FWD test location will be recorded by station, offset, lane number, and GPS coordinate.

NDT Assumptions:

1. PTS assumes the NDT on Runway 18-36 will be completed during nightly runway closures (2 nights) with a duration of 10 hours. All runway closures are assumed to be on consecutive days.
2. PTS assumes KHA will provide an escort for all airfield access and that there is no badging requirement of PTS personnel.

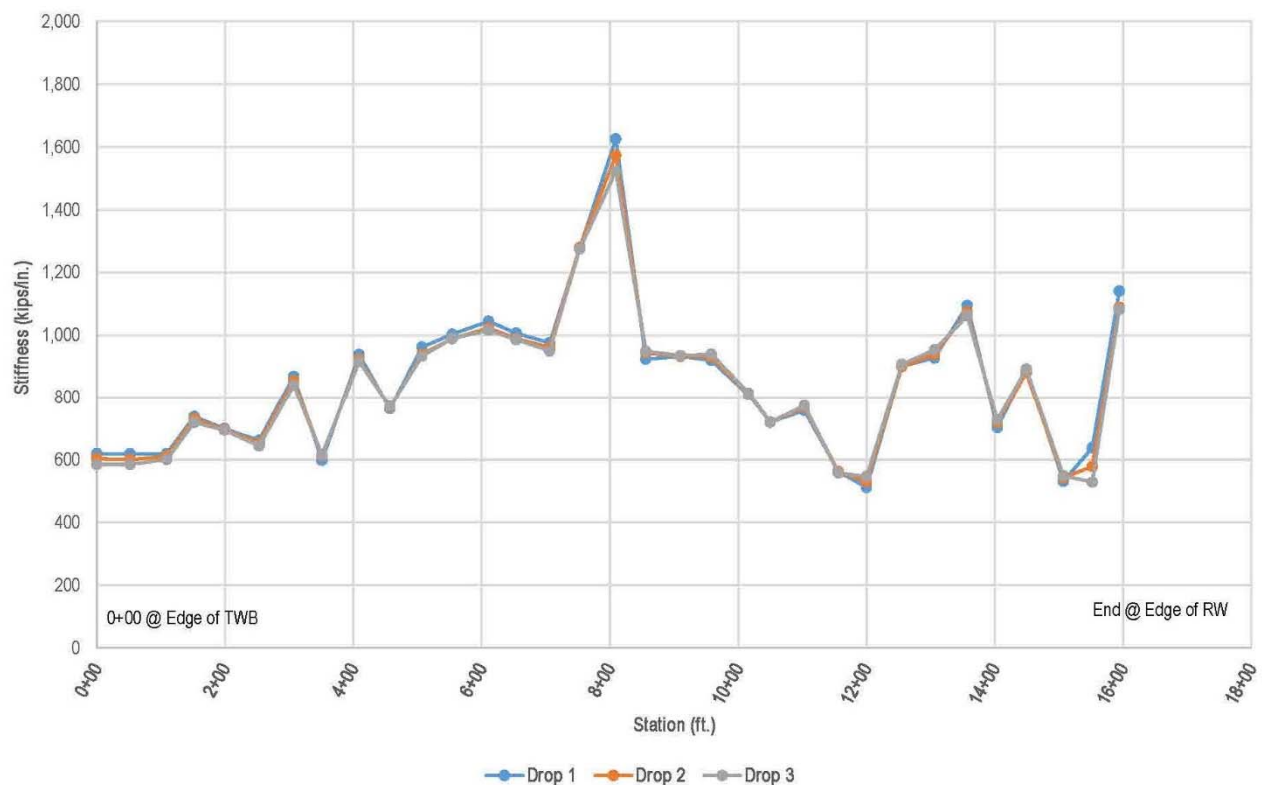
Subtask 1.2: Structural Analysis

Subtask 1.2a) NDT Data Reduction

PTS will review and reduce the raw data collected during the NDT testing. The raw data will be reviewed for any anomalies recorded during testing. The data will be converted into a usable format to complete the structural analysis. Finally, the data will be organized by feature (section), as necessary.

Subtask 1.2b) Impulse Stiffness Modulus (ISM)

The maximum FWD deflections (deflection occurring directly under the FWD load plate) and the FWD load will be analyzed to identify pavement strength and assess the overall support conditions of the in-place pavements. The ISM is the FWD load (lbs) divided by measured deflection.



Pavement ISM profile plots are helpful in identifying changes in pavement cross sections for long stretches of pavement. The ISM values from each NDT test location are plotted against the stationing of each pavement section. Changes in a pavement's structural capacity or current condition are easily identified by abrupt changes in the deflection profile. Profile plots of ISM's will be developed and presented in the summary letter of results. These plots may also assist in identifying isolated pavement sections that are structurally weaker than surrounding pavement.

The analysis will be conducted in accordance with FAA Advisory Circular 150/5370-11B, "Use of Nondestructive Testing in the Evaluation of Airport Pavements". The results of the analysis will be shown both graphically and in tabular form.

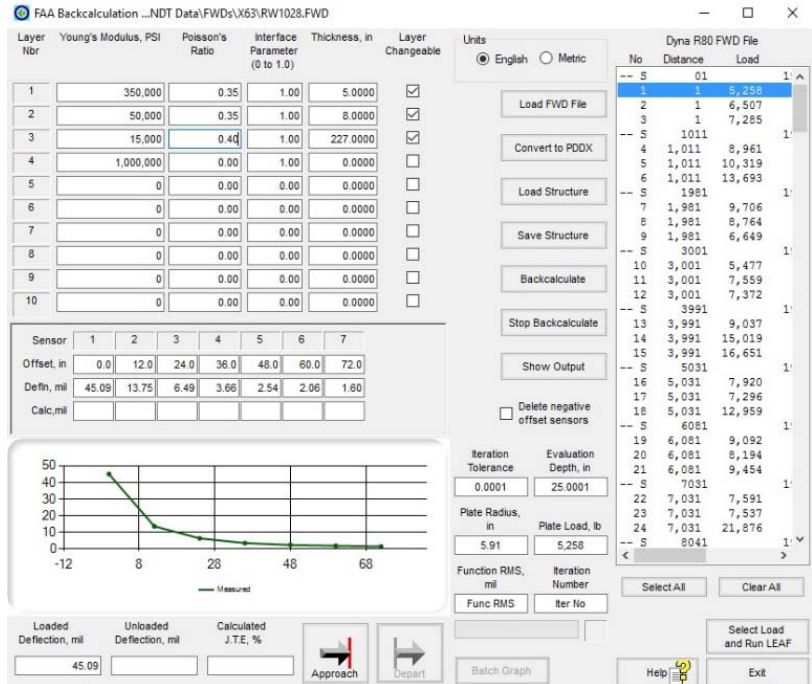
Subtask 1.2c) Backcalculation of Pavement Layer Strengths

A pavement layer strength analysis will be performed to identify the stiffness (strength) of the AC and PCC (if any) layers, the base course beneath the surface layers, and the underlying subgrade support. The pavement layer strength analysis will be performed using a technique called *backcalculation*. The backcalculated modulus values may be examined to draw some conclusions about the degree of structural deterioration in the pavement layers and the expected remaining life of the pavement.

The general principle of backcalculation is that the deflections measured by the FWD are dependent on the following parameters:

- Thickness and stiffness of the pavement layers
- Stiffness of the foundation
- Degree of friction between the pavement layers
- Magnitude of applied load
- Radius of applied load
- Rate of loading
- Position of the deflection sensors

If the loading, deflection, and layer thickness parameters are known and the interface friction condition is assumed, the measured pavement deflections may be used to solve for the stiffness of the pavement layers and foundation.



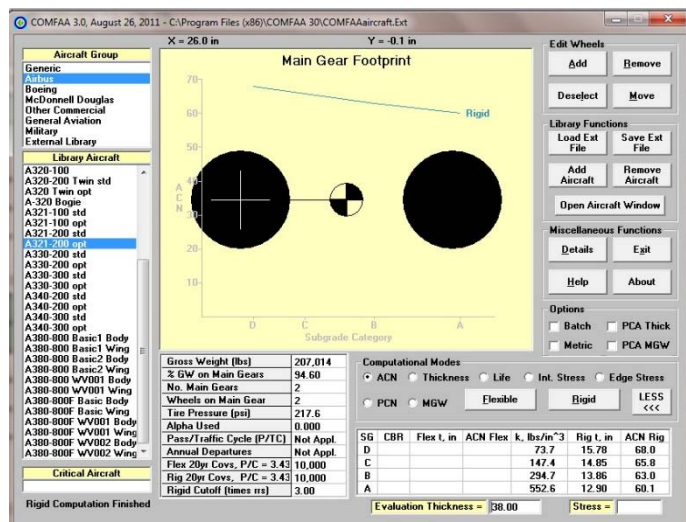
The backcalculations will be completed utilizing FAA software, BAKFAA, and in accordance with FAA Advisory Circular 150/5370-11B, "Use of Nondestructive Testing in the Evaluation of Airport Pavements". PTS assumes KHA will provide existing pavement thickness and composition information for all pavement sections.

Subtask 1.2d) ACN/PCN Analysis

An Aircraft Classification Number (ACN) and Pavement Classification Number (PCN) will be computed for each pavement section. The computations will be conducted utilizing FAA software, COMFAA.

PTS assumes that KHA will provide the aircraft traffic including aircraft type, weight, and annual departures. Additionally, PTS will utilize the backcalculated results of the elastic modulus of the subgrade.

The ACN/PCN analysis will be completed in accordance with FAA AC 150/5335-5C, "Standardized Method of Reporting Airport Pavement Strength – PCN".



Subtask 1.2e) Remaining Life Analysis

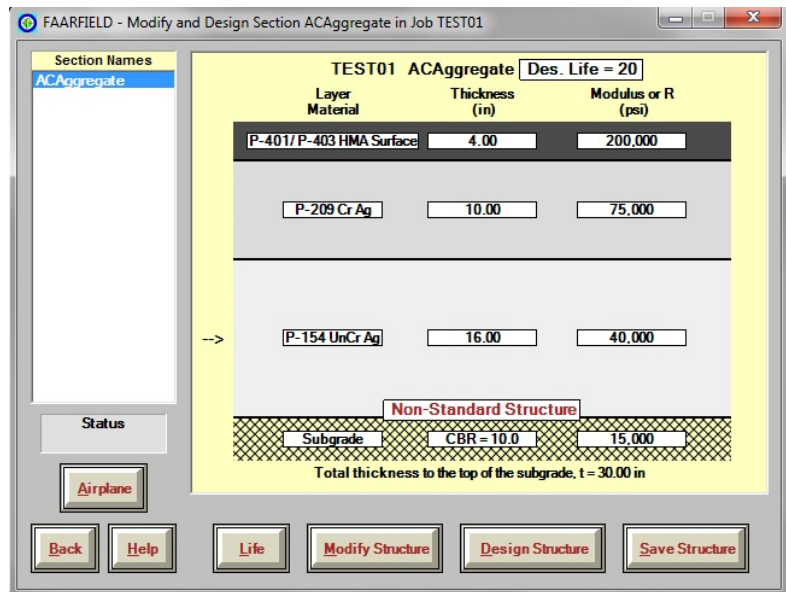
Remaining structural life computations will be completed for each pavement section utilizing FAA software, FAARFIELD.

PTS will utilize the existing pavement thickness and composition information and aircraft traffic information provided by KHA in conjunction with the results of the backcalculated elastic modulus of the subgrade to complete the remaining life computations.

Subtask 1.2f) Rehabilitation Strategies

Rehabilitation design strategies will be developed to improve the load-carrying capacity of the pavement sections to provide the intended design life, based on projected aircraft traffic operations. Rehabilitation alternatives will be developed utilizing FAA software, FAARFIELD. Feasible rehabilitation strategies will include the minimum required overlay and will be based on the current pavement condition, NDT deflection data, structural analysis results, previous geotechnical studies, and projected aircraft operations.

PTS will utilize the existing pavement thickness and composition information and aircraft traffic information provided by KHA in conjunction with the results of the backcalculated elastic modulus of the subgrade during the design of the pavement rehabilitation and reconstruction alternatives.



Structural Analysis Assumptions:

1. PTS assumes KHA will provide the existing pavement thickness and composition data for Runway 18-36.
2. PTS assumes KHA will provide the aircraft fleet mix data for Runway 18-36, including aircraft type, weight, and annual departures.

Subtask 1.3: Summary Letter of Results

A summary letter detailing the NDT testing and subsequent analysis will be developed that will include the purpose of the project, list of available information, NDT results, and structural evaluation results including ISM profiles and data, backcalculation results, and rehabilitation design strategies. The letter will include the following attachments:

1. Project Limits Map including NDT Lane Locations
2. Impulse Stiffness Modulus Profile Plots and Data
3. Backcalculations Summary Table
4. ACN/PCN Summary Table
5. Rehabilitation Alternatives Summary Table

Schedule

Task	Weeks				
	1	2	3	4	5
Subtask 1.1: Non-Destructive Testing (NDT)					
Subtask 1.2: Structural Analysis					
Subtask 1.3: Summary Letter of Results					

Schedule Assumptions:

1. Week 1 is assumed to begin when PTS has received Notice to Proceed and a signed contract from KHA.
2. PTS assumes KHA will provide the existing pavement thickness and composition data for Runway 18-36 by the **end of Week 2** in the above schedule.
3. PTS assumes KHA will provide the aircraft fleet mix data for Runway 18-36, including aircraft type, weight, and annual departures by the **end of Week 2** in the above schedule.



Northwest Surveying, Inc. (fka Northwest Engineering, Inc.)

A certified MBE/DBE/SBE Corporation

8409 Sunstate Street. Tampa, Florida 33634-1309

(813) 889-9236; Fax: (813) 886-3315

www.nsitampa.com

Mr. Paul Piro, PE
Kimley Horn & Associates
655 North Franklin Street, Suite 150
Tampa, Florida 33602

May 1, 2018

REVISION NO. 1

RE: Clearwater-St. Petersburg Airport (PIE) Runway 18-36 Rehabilitation
NSI Proposal No. 180103

Dear Mr. Piro,

Thank you for the opportunity to present his proposal for surveying services at the above referenced site.

The scope of work is a topographic survey of Runway 18-36 extending 300' to either side from the centerline and 300' beyond the runway end points. The runway and taxiway pavement survey data will be obtained by Maser Consulting, PA, utilizing Mobile Lidar to obtain the data. Northwest Surveying Inc. (NSI) will establish the XY&Z coordinates on 80 targets, obtain the ground shots in the unpaved areas, locate all topographic features within 300' of the runway centerline and end points, open manholes to obtain underground pipe data and perform 10 test cross sections on the runway. We understand that the survey work will be performed at night therefore we will rent a light tower to illuminate the work area.

The deliverables will be an Autocad Civil 3D file along with signed hard copy maps. We anticipate submitting deliverables within 4 weeks of your notice to proceed date.

The horizontal and vertical datums will be tied to Airport PACS and SACS NAD 83/2011 adjustment and NAVD 88.

All of the work will be performed under the direct supervision of a Professional Land Surveyor and will meet or exceed the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J17.050 to 5J17.052, Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.

If you have any questions, comments or concerns, please do not hesitate to contact our office.

Sincerely,

NORTHWEST SURVEYING, INC.

Gerald Silva, PSM
President



Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

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www.maserconsulting.com

May 1, 2018

VIA E-MAIL

Paul Prio, PE
Kimley-Horn
55 N Franklin St #150
Tampa, FL 33602
Paul.Piro@kimley-horn.com

**Re: Proposal for Mobile LiDAR & Topographic Survey
MC Proposal No.: 18000385P – Runway 18-36 Rehabilitation – PIE Airport**

Dear Mr. Piro,

Maser Consulting P.A. is pleased to submit this proposal for Topographic Survey utilizing Mobile LiDAR of the project areas highlighted in yellow within the airfield located at St. Pete-Clearwater International Airport as shown in Figure 1 below.



Figure 1



This proposal is divided into the following sections:

Section I – Scope of Services

SECTION I – SCOPE OF SERVICES

Based on our conversations and information noted above, we propose to complete the following:

PHASE 1 - CONTROL

Northwest Surveying, Inc. will locate/recover existing Airport Primary and Secondary Control Stations (PACS and SACS). All Horizontal controls will reference NAD 1983 (2011) State Plane Coordinate System. All Vertical controls will reference NAVD 1988. This information will be provided to Maser Consulting as Primary control for utilization in data acquisition. Maser Consulting will provide a plan for optimal location of photo identifiable points within the existing project site that will be required to post process data to the control datums. Northwest Surveying will establish X,Y,Z coordinate values on these points and deliver to Maser Consulting.

The Mobile LiDAR and conventional topographic collection will be done utilizing Maser Primary control (PACS and SACS).

PHASE 2 – MOBILE LiDAR DATA ACQUISITION

All field work to be performed on site in Clearwater, FL with post processing being performed Mobile LiDAR processing center. Maser Consulting plans to collect Mobile LiDAR data on the runway, taxiway, and local roads within the topo limits shown in Figure 1 for use in engineering design. Maser Consulting will adhere to standard procedures for Mobile LiDAR data collection as referenced in NCHRP report 748 as applicable to project tasks. The Mobile LiDAR model's absolute accuracy is based on the value of survey control as provided. Maser Consulting can match absolute project coordinate positional accuracy up to 0.06' h/v within 95% of data checked. Upon export the LiDAR data will be reviewed and trimmed as necessary and tiled data files will be created for use in data extraction. Color digital geo-referenced images from a Ladybug immersive 360 camera system and 4 on-board directional cameras will be captured and exported. The Ladybug imagery will be delivered with an intuitive viewer for use in viewing site conditions as collected. This viewer is standard with the delivery of data. A colorization of the point cloud is possible as well and can be of value in certain settings.

Maser Consulting will utilize a Riegl VMX-450 mobile scanning system which consists of:

- 2 - Riegl VQ-450 line scanners
- 4 - Riegl CS6 5MPx cameras (8 fps ea.)
- 1 – Lady Bug v.5 360deg spherical camera system
- 1 - Applanix POS LV 510 position and orientation system
- 1 - Trimble BD960 GNSS receiver
- 2 - Trimble Zephyr Model 2 GNSS Antenna.
- 1 - DMI wheel mounted unit



During data acquisition, a GPS (GLONASS capable) base station will be set by Maser Consulting staff to log satellite data at 1-second epochs, consistent with the log rate of the mobile GPS unit. The mobile GPS positioning is further supplemented by the IMU providing vehicle and sensor position and orientation updates at a rate of 200 times per second. Each scanner will be set to a measurement rate of 550 kHz (1.1 MHz combined). The Maser Consulting mobile mapping vehicle will travel at the predetermined speeds throughout the project area with an anticipated speed of +/- 10 MPH.

Maser Consulting will adjust the trajectory using the Riegl processing software, utilizing the least squares adjustment module. Maser Consulting will provide a standard survey report outlining the statistical results of the adjustments. These results include system calibration and scan data adjustment.

PHASE 3 – TOPOGRAPHIC SURVEY

Maser Consulting will develop topographic survey information from the resulting Lidar point cloud defined by the bullet points below.

1. Airfield apron, runway and taxiway pavement areas shall be surveyed on a 25' grid or less, edges of pavements, ground shots at edges of pavements, and at all grade breaks, including visible depressions.
2. Areas off pavement shall be surveyed by Northwest Survey with elevations taken on existing ground at grid points and all grade breaks. Elevations shall be taken to define all swales.
3. Location of all runway, taxiway and apron edge lights including type of light (base or stake mounted).
4. Location of all signs, including sign message and description of type of sign and any concrete sign base/footer.
5. Location of all pavement markings and all other features which lie in the survey zone.

PHASE 4 – DELIVERABLES

Maser Consulting will deliver the final point cloud files in LAS format, in addition to the corresponding imagery. The project specific coordinate system will be used to calibrate the Mobile LiDAR data. For the purposes of this proposal, we are assuming PIE Airport Primary Control (PACS/SCACS) in US Survey Foot.

Additionally, Maser Consulting will develop survey design files utilizing CADD standards specified by the client in either AutoCAD Civil 3D 2016 or Microstation V8i. these design files will include the following geospatial information derived from the LIDAR dataset.



1. Provide a DTM file (*.DXF format) compatible for use with the computer program AutoCAD Civil 3D. All survey points shall have a descriptor identifying the shot as a pavement, edge of pavement, ground, ground at edge of pavement, etc.
2. Provide topographic survey maps of area identified above with 0.5-foot contours and all elevation shots. Maps will show field survey information as described in each item. The maps will be at a scale to best display the information. Two final prints signed and sealed by a professional land surveyor registered in the State of Florida shall be submitted.

In regard to anticipated scheduling of services, all final deliverables are needed within 30 consecutive calendar days, weather dependent and as long as we are provided adequate site access to perform all tasks.

ASSUMPTIONS AND EXCLUSIONS:

The following assumptions were made by Maser Consulting while preparing this proposal:

- Project limits are based on discussions and Exhibits provided by the client file delivered to Maser.
- Maser Consulting will be able to utilize a standard SUV vehicle within the project corridor for all mobile mapping and LiDAR operations.
- No Boundary Survey work is included in this proposal of work
- Only above ground utility features will be located. Unless work is being done in Phase 6 of this proposal
- Airfield runway pavements and Taxiway Connectors shall be surveyed in accordance with the Field Data Collection and Geographic Information System (GIS) Standards in FAA Advisory Circular 150/5300-18B – General Guidance and Specifications for submission of Aeronautical Surveys to NGS. Geo-referenced imagery is not required for this survey activity.

TIERRA

May 2, 2018 Revised Task 1 – 100 cores

Kimley-Horn
655 North Franklin Street, Suite 150
Tampa, Florida 33602
Attn: Mr. Paul P. Piro, PE

RE: **Scope of Services**
Proposal for Geotechnical Engineering Services
Pinellas County Runway 18-36 Rehabilitation
Contract No. 178-0102-NC (SS)
Tierra Project Number 6511-18-057

Mr. Piro:

Please find the requested Scope of Services for the referenced project. Tierra, Inc. appreciates the opportunity to be of service to Kimley-Horn. Please contact our office should any additional information be required.

Task 1 Scope of Services

- Perform 100 pavement cores at the location provided by Kimley-Horn. Asphalt could be up to 14" over a 14" limerock base. All core areas will be advanced to the subgrade.
- Complete 12 Standard Penetration Test borings to a depth of 10 feet below existing grades.
- Obtain 2 CBR samples for bearing ration testing.
- Provide a data transmittal report summarizing the requested asphalt pavement type and thicknesses, base type and thicknesses, coring location plan and CBR results.

Tierra understands that the above itemized scope of services is subject to change. The schedule for Task 6 services has been removed in accordance with the airport directives. Tierra appreciates the opportunity to be of service to Kimley-Horn.

Respectfully Submitted,

TIERRA, INC.



Henri V. Jean, P.E.

Principal Geotechnical Engineer



ECHO UES, Inc.
16514 N. Dale Mabry Hwy.
Tampa, Florida 33618
888.778.ECHO
Grow, Inspire, Make a Difference

April 17, 2018 (Revised 04/26/18) **(Revised 05/01/18)**

Paul Piro, PE
Kimley-Horn
655 North Franklin Street
Suite 150
Tampa, FL 33602

PROPOSAL FOR SUBSURFACE UTILITY ENGINEERING (SUE) SERVICES

Project: 178-0102-NC (SS) Runway 18-36 Rehabilitation (PIE)

Dear Mr. Piro:

At ECHO UES, Inc. (ECHO) we value your consideration and appreciate the opportunity to provide a technical proposal for the provision of professional subsurface utility engineering (SUE) services. This technical proposal inclusive of a competitive offer and schedule, details the approach we consider as the most suitable for your specific project's needs.

Project Synopsis: Based on the information made available to ECHO, we understand the project to consist of design and construction services to repair the pavement and extend pavement life, obtain a consistent pavement classification number, re-establish runway crown and profile, runway lighting upgrades, and shoulder width upgrades to 35 feet for Runway 18-36, at the St. Pete-Clearwater International Airport (PIE) in Clearwater, Florida.

Subsurface Utility Engineering Services

Limits of Services: ECHO's proposed SUE services will be performed within a well-defined area (i.e. Project Limits – EXHIBIT A) as shown on the attached graphic representation, specifically Area Runway 18-36.

Using a combination of field investigative techniques and technology, including surface geophysical instruments, vacuum excavation (if needed), ECHO will perform the following services.

Task 1 - Preliminary Engineering, 30%

- **Identification and marking of existing underground utilities.** Utilities potentially in conflict with the project and located within the project limits will be investigated in the attempt to identify their position. The results will be marked on the ground surface using the most appropriate method (i.e. pin flags, paint etc.) and showing the approximate position of the identified utilities. Particularly in the areas of proposed runway shoulder widening.

Utilities that ECHO will attempt to identify and mark are utilities located within the project limits, with the exclusion of irrigation lines, service lines and sewer laterals. Gravity sewer and storm water systems will not be collected during the SUE efforts.

Task 2 - Engineering Design Phase, 60%

- **Verification of utility location and characteristics.** At locations selected by the client, ECHO will attempt to expose utilities via minimally intrusive methods (e.g. use of vacuum excavation) to confirm their characteristics (e.g. type, size, material, direction, configuration) and provide an accurate location. At completion of each excavation (test hole) ECHO will record all verifiable utility information, mark the utility location with the most appropriate method (e.g. wooden lathes, "X" mark on concrete, disc and nail on asphalt) and restore the field to as close as possible to its original conditions.

ECHO will survey all utility information obtained during Task I and Task II noted above and incorporate it into the SUE survey file.

Please note that the proposed fee for the SUE and Survey services is inclusive of field and office effort necessary to support the project.

Deliverables

Subsurface Utility Engineering

- Field deliverables will consist of field marks (e.g. pin flags, paint marks, wooden lathes, nails/discs etc.) showing the position of the designated and located utilities.
- Office deliverables will consist of:
 - Images and a sketch (not to scale unless otherwise stated) based on the project plans or aerial imagery publicly available.
 - Test hole data sheets containing all the information obtained via test holes and visual verification.
 - Survey digital CADD file (AutoCAD or MicroStation – to be determined prior to field activities) and a separate signed and sealed surveyor's report.

Survey to Support the SUE (Specific Notes):

- Deliverables shall meet KHA's Digital Survey Deliverable Specifications.
- Base vertical and horizontal controls shall be provided by others.
- Surveys shall be conducted in accordance with the requirements of FAA AC 150/5300-16 (latest version), FAA AC 150/5300-17 (latest version), and FAA AC 150/5300-18 (latest version).
- ECHO shall coordinate all access to the site in accordance with the requirements contained within the attached RFQ including any necessary badging, etc.
- All survey efforts will be conducted in accordance with the Standards of Practice set forth in Rule Chapter 5J-17, F.A.C., pursuant to Section 472.027, F.S.

Proposed Schedule**Task 1 - Preliminary Engineering, 30%**

- ECHO proposes to begin the Task I SUE services described above within two (2) business days from Notice to Proceed (NTP) with deliverables being provided within twenty (20) calendar days from NTP.

Task 2 - Engineering Design Phase, 60%

- ECHO will proceed with Task II SUE as directed by Kimley-Horn. For scheduling purposes, this work phase consists of about two (2) field work days followed by relative office work.

The proposed schedules shall be valid barring any unforeseen conditions.

Notes and Limitations:

1. Site must be clear from obstacles impeding access to any portion of the project limits.
2. ECHO will not work on any site that is known to be contaminated with any hazardous or harmful substance.
3. Unless otherwise stated within this proposal, test holes have usual depth of up to eight (8) ft. from the ground surface, and diameter of up to 1 ft. Should there be a need for deeper or wider excavations, additional charges may apply.
4. The original ground surface at each test hole location will be restored to as close as possible to its original conditions, using concrete mix or asphalt cold patch as applicable. Any deviation from this standard (e.g. use of hot asphalt, flowable fill etc.) may require additional charges and the use of specialty subcontractors.
5. Regardless of the type of estimate proposed (e.g. lump sum, limiting amount, time and materials, etc.) such estimate should be considered indicative and based on preliminary information. Should any situation out of ECHO's control heavily impact our field work performance (e.g. adverse site conditions), ECHO reserves the right to seek additional funds to complete the work.
6. The exact location of any underground utility is not guaranteed unless clearly exposed and visually verified at a specific location. Utility characteristics, methods of installation, soil conditions and the surrounding environment all may impact adversely the results of any utility investigation with surface geophysical instruments and technology. No guarantee is made that all utilities will be found and identified.

7. Independently from ECHO's scope of work and performance, the Client shall comply with the relative chapter from the Florida (or any other applicable) Statutes: "Underground Facility Damage Prevention and Safety Act" and call 811 prior to any excavation taking place.
8. Subsurface Utility Engineering, Designating and Locating terms all refer to the American Society of Civil Engineers / Construction Institute Standard for the Collection and Depiction of Subsurface Utility Data (ASCE/CI 38-02). Should ECHO adopt this standard for the performance of the scope of work and preparation of deliverables, clear mention to the Standard shall be made throughout the deliverable.

At ECHO UES, Inc. we believe in collaboration and communication with our clients, driven to understand their needs and provide time efficient and cost-effective solutions. ECHO strives to provide quality utility and survey reliable data to design better, build faster, and safely enhance Engineering, Design, Construction and Maintenance of infrastructure.

Thank you for considering ECHO for this important project and please do not hesitate to contact me directly should you have any questions or concern.

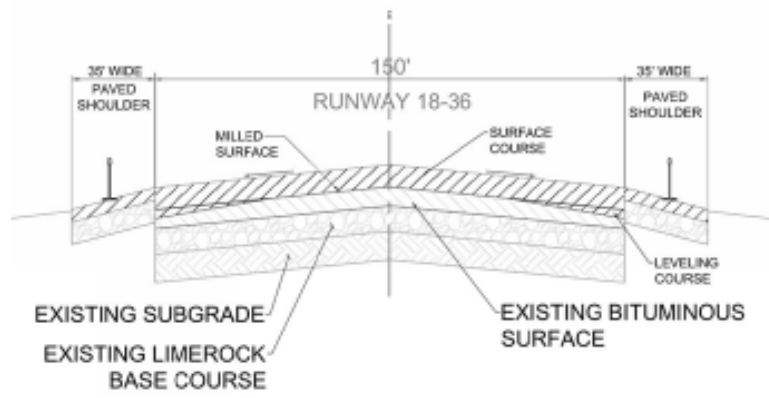
Sincerely,

ECHO UES, Inc.

A handwritten signature in blue ink, appearing to read "Jerry Comellas, Jr.", with a stylized flourish at the end.

Jerry Comellas, Jr., PE
President

EXHIBIT A



PHASING EXHIBITS

Phase A






Scope of Work

- 100' Additional Pavement
- Relocation of Runway End Identifier Lights (REILs)
- Relocation of Runway Threshold Lights
- Relocation of Precision Approach Path Indicator (PAPI)
- Flight Check
- Addition of Two Runway Edge Lights (MIRLs)
- Runway Remarking
- Consideration to Rehabilitation 400' of Asphalt

OPERATIONAL IMPACTS

- RW 4-22 Closed
- Partial Impacts
- Air Traffic Utilizes RW 18-36

PROGRAM SEQUENCE

- Phase A 
- Phase B 
- Phase C 
- Phase D 
- Phase E 

- Night Work in RSA Bullseye (Re-Marking, PAPI Relocation)

Phase B

Scope of Work

- Displaced Threshold
- Centerline and Edge Lights Color Coding
- New RW Markings
- Temporary RDR
- Temporary PAPI
- Flight Check
- Temporary RW End Identifier Lights
- Temporary Threshold Lights
- Decommission RW36 ILS

OPERATIONAL IMPACTS

- RW 18-36 Closed
- Air Traffic Utilizes RW 4-22

~6,000 FT

18-36

18-36

A1

A2

A3

A4

A5

A6

A6

PROGRAM SEQUENCE

Phase A

Phase B

Phase C

Phase D

Phase E

- Marking Removal

Phase C

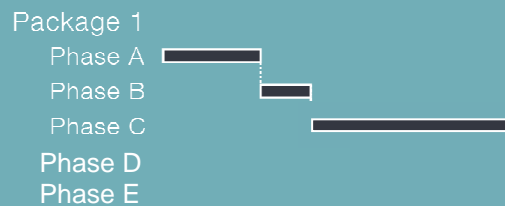
Scope of Work

- Mill/Overlay 2700' of RW 36
- Shoulder Widening
- Relocate Signage
- Some Markings (Bulls Eye)
- Grooving
- Replace RW Center Line Lights/Conductors

OPERATIONAL IMPACTS

- RW 4-22 Closed
- Air Traffic Utilizes RW 18-36
- GA Traffic Crosses
- RW 18-36 at TW A4

PROGRAM SEQUENCE



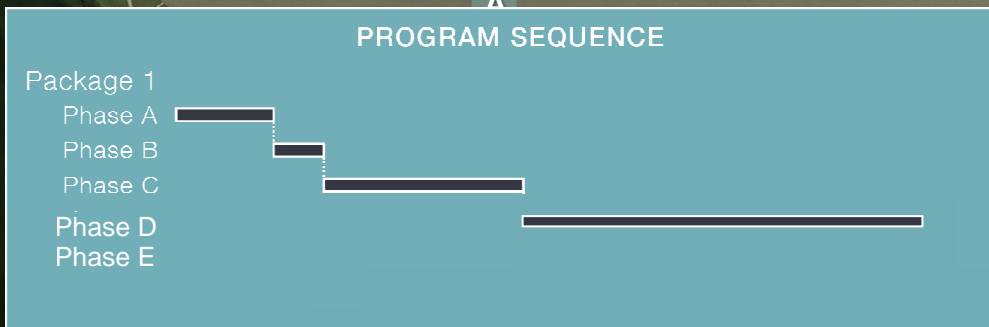
Phase D

Scope of Work

- Remove Temporary Lighting/Signage/PAPI/REILs
- Mill/Overlay 7500' of RW 18
- Grooving
- Replace RW Center Line Lights/Conductors
- Shoulder Widening
- Relocate Signage

OPERATIONAL IMPACTS

- RW 18-36 Closed
- Air Traffic Utilizes RW 4-22



Phase E

Scope of Work

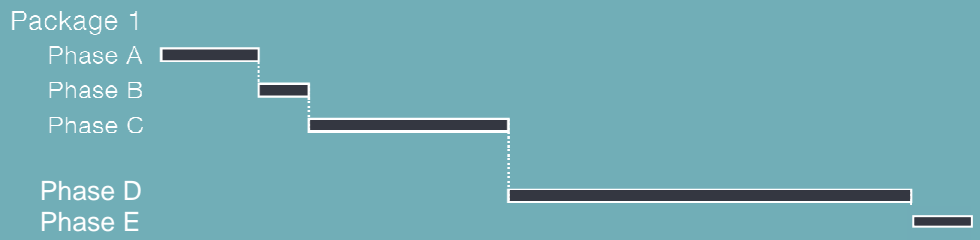
- Final Markings
- Flight Check

OPERATIONAL IMPACTS

- RW 18-36 Closed
- Air Traffic Utilizes RW 4-22



PROGRAM SEQUENCE



- Night Work in RSA Bullseye
- Markings

**FEE SUMMARY
PROFESSIONAL SERVICES FOR
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

	TASK 1 PRELIMINARY DESIGN, 30%	TASK 2 ENGINEERING DESIGN, 60%	TASK 3 FINAL DESIGN, 90%	TASK 4 BIDDING DOCUMENTS	TASK 5 BIDDING SERVICES	TASK 6 CONSTRUCTION ADMINISTRATION	TOTALS
Basic Services, Lump Sum							
Kimley-Horn and Associates	\$243,828.00	\$238,837.00	\$119,754.00	\$99,636.00	\$14,212.00	\$237,956.00	\$954,223.00
Arora Engineers, Inc.	\$50,232.00	\$55,418.00	\$76,337.00	\$27,619.00	\$13,072.00	\$42,892.00	\$265,570.00
Michael Baker International	\$5,302.00	\$5,984.00	\$4,664.00	\$4,664.00		\$1,980.00	\$22,594.00
Connico, Inc.	\$7,242.00	\$15,387.00	\$4,446.00	\$3,493.50			\$30,568.50
Florida Design Consultants, Inc.	\$22,635.00	\$9,465.75					\$32,100.75
Pavement Technical Services	\$23,025.00						\$23,025.00
Northwest Survey, Inc.	\$42,375.00						\$42,375.00
Maser Consulting, PA	\$20,092.00						\$20,092.00
Tierra	\$55,541.00						\$55,541.00
Subtotal	\$470,272.00	\$325,091.75	\$205,201.00	\$135,412.50	\$27,284.00	\$282,828.00	
						Subtotal Basic Services	\$1,446,089.25
Reimbursable Expenses, Not -To-Exceed							
ECHO	\$11,054.00	\$6,705.00					\$17,759.00
Subtotal	\$11,054.00	\$6,705.00	\$0.00	\$0.00	\$0.00	\$0.00	
						Subtotal Reimbursible Expenses	\$17,759.00
TOTALS	\$481,326.00	\$331,796.75	\$205,201.00	\$135,412.50	\$27,284.00	\$282,828.00	\$1,463,848.25

**HOURLY AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

KIMLEY-HORN AND ASSOCIATES	CHIEF ENGINEER		SENIOR PROJECT MANAGER		SENIOR PROF. ENGINEER		PROFESSIONAL ENGINEER II		PROFESSIONAL ENGINEER I		DESIGNER/ ENGINEERING TECH		ADMINISTRATIVE/ CLERICAL		TOTAL	
	\$250		\$242		\$202		\$162		\$135		\$104		\$74		labor hours	Cost
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost		
TASK 1 - PRELIMINARY DESIGN, 30%																
1.1 Design Kick Off Meeting		\$0	4	\$968		\$0	4	\$648		\$0		\$0	2	\$148	10	\$1,764
1.2 Data Collection and Review		\$0	20	\$4,840		\$0	30	\$4,860	16	\$2,160		\$0		\$0	66	\$11,860
1.3 Pavement Inspection		\$0	16	\$3,872	16	\$3,232		\$0		\$0		\$0		\$0	32	\$7,104
1.4 Subconsultant Coordination		\$0	16	\$3,872		\$0	16	\$2,592		\$0		\$0		\$0	32	\$6,464
1.5 Pavement Rehabilitation Strategies		\$0	8	\$1,936	24	\$4,848		\$0	24	\$3,240	16	\$1,664		\$0	72	\$11,688
1.6 Drawing Preparation																
Cover Sheet		\$0		\$0		\$0		\$0		\$0	2	\$208		\$0	2	\$208
Project Drawing Index		\$0		\$0		\$0	2	\$324		\$0	2	\$208		\$0	4	\$532
Summary of Quantities (2)		\$0		\$0		\$0	2	\$324		\$0	4	\$416		\$0	6	\$740
General Notes		\$0		\$0		\$0	2	\$324		\$0	4	\$416		\$0	6	\$740
Abbreviations/Legend		\$0		\$0		\$0		\$0		\$0	4	\$416		\$0	4	\$416
Project Construction Haul Route and Staging Area		\$0	8	\$1,936		\$0	10	\$1,620	10	\$1,350	16	\$1,664		\$0	44	\$6,570
Safety and Security Notes		\$0	8	\$1,936		\$0	10	\$1,620	10	\$1,350	8	\$832		\$0	36	\$5,738
Construction Safety Details		\$0	8	\$1,936		\$0	10	\$1,620	10	\$1,350	16	\$1,664		\$0	44	\$6,570
Overall Phasing Plan and Notes		\$0	20	\$4,840		\$0	20	\$3,240	20	\$2,700	16	\$1,664		\$0	76	\$12,444
Project Schedule		\$0	16	\$3,872		\$0	20	\$3,240	20	\$2,700	8	\$832		\$0	64	\$10,644
Phasing Plans (20)		\$0	10	\$2,420		\$0	30	\$4,860	20	\$2,700	60	\$6,240		\$0	120	\$16,220
MOT Plans (15)		\$0	10	\$2,420		\$0	30	\$4,860	20	\$2,700	60	\$6,240		\$0	120	\$16,220
MOT Notes and Details		\$0	8	\$1,936		\$0	10	\$1,620		\$0	16	\$1,664		\$0	34	\$5,220
Horizontal and Vertical Control Plans (5)		\$0	8	\$1,936		\$0	4	\$648		\$0	16	\$1,664		\$0	28	\$4,248
Boring Logs and Pavment Cores (5)		\$0	8	\$1,936		\$0	4	\$648		\$0	16	\$1,664		\$0	28	\$4,248
Site Demolition Plans		\$0	8	\$1,936		\$0	16	\$2,592	10	\$1,350	30	\$3,120		\$0	64	\$8,998
Site Demolition Details		\$0	10	\$2,420		\$0	16	\$2,592	10	\$1,350	30	\$3,120		\$0	66	\$9,482
Pavement Section (3)		\$0	10	\$2,420	16	\$3,232	4	\$648		\$0	30	\$3,120		\$0	60	\$9,420
1.7 Construction Safety and Phasing Plan (CSPP)		\$0	2	\$484		\$0	32	\$5,184		\$0	16	\$1,664	2	\$148	52	\$7,480
1.8 Technical Specifications		\$0	1	\$242	4	\$808		\$0		\$0		\$0		\$0	5	\$1,050
1.9 Project Quantities and Engineer's Estimate of Probable Construction Costs		\$0	24	\$5,808		\$0		\$0		\$0	16	\$1,664		\$0	40	\$7,472
1.10 Project Management		\$0	214	\$51,788		\$0		\$0		\$0		\$0		\$0	214	\$51,788
1.11 Quality Control	8	\$2,000	4	\$968		\$0	10	\$1,620		\$0	16	\$1,664		\$0	38	\$6,252
1.12 Deliverable		\$0		\$0		\$0	4	\$648		\$0	16	\$1,664		\$0	20	\$2,312
1.13 Review Meetings		\$0	8	\$1,936		\$0	8	\$1,296		\$0		\$0	2	\$148	18	\$3,380
1.14 County Develop Review Services		\$0	8	\$1,936		\$0	4	\$648	16	\$2,160	16	\$1,664	2	\$148	46	\$6,556
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	8	\$2,000	457	\$110,594	60	\$12,120	298	\$48,276	186	\$25,110	434	\$45,136	8	\$592	1,451	\$243,828

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

KIMLEY-HORN AND ASSOCIATES	CHIEF ENGINEER		SENIOR PROJECT MANAGER		SENIOR PROF. ENGINEER		PROFESSIONAL ENGINEER II		PROFESSIONAL ENGINEER I		DESIGNER/ ENGINEERING TECH		ADMINISTRATIVE/ CLERICAL		TOTAL	
	\$250		\$242		\$202		\$162		\$135		\$104		\$74		labor hours	Cost
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost		
Task 2 - Engineering Design Phase, 60%																
2.1 Safety Risk Management (SRM) Process		\$0	24	\$5,808	80	\$16,160	24	\$3,888	160	\$21,600		\$0		\$0	288	\$47,456
2.2 Drawing Preparation																
Cover Sheet		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Project Drawing Index		\$0		\$0		\$0		\$0	2	\$270	2	\$208		\$0	4	\$478
Summary of Quantities (2)		\$0		\$0		\$0		\$0		\$0	4	\$416		\$0	4	\$416
General Notes		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Abbreviations/Legend		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Project Construction Haul Route and Staging Area		\$0		\$0		\$0	2	\$324	5	\$675	4	\$416		\$0	11	\$1,415
Safety and Security Notes		\$0		\$0		\$0	2	\$324	5	\$675	4	\$416		\$0	11	\$1,415
Construction Safety Details		\$0		\$0		\$0		\$0	5	\$675	4	\$416		\$0	9	\$1,091
Overall Phasing Plan and Notes		\$0		\$0	8	\$1,616	8	\$1,296	5	\$675	8	\$832		\$0	29	\$4,419
Project Schedule		\$0	4	\$968		\$0	8	\$1,296	10	\$1,350	8	\$832		\$0	30	\$4,446
Phasing Plans (20)		\$0	10	\$2,420	23	\$4,646		\$0	21	\$2,835	60	\$6,240		\$0	114	\$16,141
MOT Plans (15)		\$0	10	\$2,420	8	\$1,616	8	\$1,296	20	\$2,700	16	\$1,664		\$0	62	\$9,696
MOT Notes and Details		\$0		\$0		\$0		\$0		\$0	10	\$1,040		\$0	10	\$1,040
Existing Conditions (9)		\$0		\$0		\$0		\$0		\$0	10	\$1,040		\$0	10	\$1,040
Horizontal and Vertical Control Plans (5)		\$0		\$0		\$0		\$0		\$0	4	\$416		\$0	4	\$416
Boring Logs and Pavment Cores (5)		\$0		\$0		\$0	10	\$1,620		\$0	4	\$416		\$0	14	\$2,036
Erosion Control Plans and Details (3)		\$0		\$0		\$0	10	\$1,620		\$0	8	\$832		\$0	18	\$2,452
Site Demolition Plans		\$0	10	\$2,420		\$0	10	\$1,620		\$0	40	\$4,160		\$0	60	\$8,200
Site Demolition Details		\$0	4	\$968		\$0	10	\$1,620		\$0	16	\$1,664		\$0	30	\$4,252
Pavement Section (3)		\$0		\$0		\$0	10	\$1,620		\$0	8	\$832		\$0	18	\$2,452
Runway Profiles (7)		\$0	10	\$2,420	8	\$1,616	10	\$1,620		\$0	40	\$4,160		\$0	68	\$9,816
Pavement Details (3)		\$0	10	\$2,420		\$0	8	\$1,296		\$0	40	\$4,160		\$0	58	\$7,876
Grading and Drainage Plans (14)		\$0	10	\$2,420	32	\$6,464	10	\$1,620		\$0	40	\$4,160		\$0	92	\$14,664
Temporary Marking Plans (14)		\$0	10	\$2,420		\$0	10	\$1,620		\$0	40	\$4,160		\$0	60	\$8,200
Final Marking Plans (14)		\$0	10	\$2,420		\$0	10	\$1,620		\$0	40	\$4,160		\$0	60	\$8,200
Marking Details (4)		\$0	4	\$968		\$0	10	\$1,620		\$0	16	\$1,664		\$0	30	\$4,252
2.3 Technical Specification		\$0	30	\$7,260	10	\$2,020		\$0		\$0		\$0	8	\$592	48	\$9,872
2.4 Project Quantities and Engineer's Estimate of Probable Construction Costs		\$0	16	\$3,872		\$0	8	\$1,296		\$0		\$0		\$0	24	\$5,168
2.5 Modification of Standards		\$0	20	\$4,840		\$0	10	\$1,620		\$0	10	\$1,040		\$0	40	\$7,500
2.6 Project Management		\$0	94	\$22,748		\$0		\$0		\$0		\$0		\$0	94	\$22,748
2.7 Quality Control	8	\$2,000	4	\$968		\$0	10	\$1,620		\$0	16	\$1,664		\$0	38	\$6,252
2.8 Deliverable		\$0		\$0		\$0	4	\$648		\$0	8	\$832		\$0	12	\$1,480
2.9 Review Meetings		\$0	4	\$968		\$0	4	\$648		\$0		\$0	2	\$148	10	\$1,764
2.10 County Development Review Services		\$0	4	\$968		\$0	8	\$1,296		\$0	8	\$832	2	\$148	22	\$3,244
2.11 Draft Engineer's Report		\$0	4	\$968	16	\$3,232	32	\$5,184		\$0	16	\$1,664	2	\$148	70	\$11,196
2.12 Safety Area Determination		\$0	4	\$968	32	\$6,464		\$0		\$0		\$0		\$0	36	\$7,432
Sub-Total Task 2 - Engineering Design Phase, 60%	8	\$2,000	296	\$71,632	217	\$43,834	236	\$38,232	233	\$31,455	487	\$50,648	14	\$1,036	1,491	\$238,837

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

KIMLEY-HORN AND ASSOCIATES	CHIEF ENGINEER		SENIOR PROJECT MANAGER		SENIOR PROF. ENGINEER		PROFESSIONAL ENGINEER II		PROFESSIONAL ENGINEER I		DESIGNER/ ENGINEERING TECH		ADMINISTRATIVE/ CLERICAL		TOTAL	
	\$250		\$242		\$202		\$162		\$135		\$104		\$74		labor hours	Cost
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost		
Task 3 - Final Design, 90%																
3.1 Drawing Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0
Cover Sheet		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Project Drawing Index		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Summary of Quantities (2)		\$0		\$0		\$0	1	\$162		\$0	1	\$104		\$0	2	\$266
General Notes		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Abbreviations/Legend		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Project Construction Haul Route and Staging Area		\$0		\$0		\$0	2	\$324	5	\$675	2	\$208		\$0	9	\$1,207
Safety and Security Notes		\$0		\$0		\$0	2	\$324	5	\$675	1	\$104		\$0	8	\$1,103
Construction Safety Details		\$0		\$0		\$0		\$0	5	\$675	1	\$104		\$0	6	\$779
Overall Phasing Plan and Notes		\$0	4	\$968		\$0	4	\$648	5	\$675		\$0		\$0	13	\$2,291
Project Schedule		\$0	8	\$1,936		\$0	8	\$1,296	10	\$1,350		\$0		\$0	26	\$4,582
Phasing Plans (20)		\$0	8	\$1,936		\$0	32	\$5,184	10	\$1,350	8	\$832		\$0	58	\$9,302
MOT Plans (15)		\$0		\$0		\$0	32	\$5,184	10	\$1,350	8	\$832		\$0	50	\$7,366
MOT Notes and Details		\$0		\$0		\$0		\$0		\$0	2	\$208		\$0	2	\$208
Existing Conditions (9)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Horizontal and Vertical Control Plans (5)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Boring Logs and Pavment Cores (5)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Erosion Control Plans and Details (3)		\$0		\$0		\$0	8	\$1,296		\$0	8	\$832		\$0	16	\$2,128
Site Demolition Plans		\$0		\$0		\$0	8	\$1,296		\$0	30	\$3,120		\$0	38	\$4,416
Site Demolition Details		\$0	8	\$1,936		\$0		\$0		\$0	30	\$3,120		\$0	38	\$5,056
Pavement Section (3)		\$0		\$0		\$0	4	\$648		\$0	4	\$416		\$0	8	\$1,064
Runway Profiles (7)		\$0	8	\$1,936		\$0	16	\$2,592		\$0	32	\$3,328		\$0	56	\$7,856
Pavement Details (3)		\$0		\$0		\$0	8	\$1,296		\$0	20	\$2,080		\$0	28	\$3,376
Grading and Drainage Plans (14)		\$0	16	\$3,872		\$0	40	\$8,080		\$0	60	\$6,240		\$0	116	\$18,192
Temporary Marking Plans (14)		\$0		\$0		\$0	20	\$4,040		\$0	20	\$2,080		\$0	40	\$6,120
Final Marking Plans (14)		\$0		\$0		\$0	10	\$2,020		\$0	10	\$1,040		\$0	20	\$3,060
Marking Details (4)		\$0		\$0		\$0	8	\$1,296		\$0	8	\$832		\$0	16	\$2,128
Grooving Plans (8)		\$0		\$0		\$0		\$0	10	\$1,350	10	\$1,040		\$0	20	\$2,390
3.2 Technical Specification		\$0	16	\$3,872		\$0	8	\$1,296		\$0		\$0		\$0	24	\$5,168
3.3 Construction Safety and Phasing Plan		\$0		\$0		\$0	8	\$1,616		\$0		\$0	2	\$148	10	\$1,764
3.4 Project Quantities and Engineer's Estimate of Probable Construction Cost		\$0	16	\$3,872		\$0		\$0		\$0		\$0		\$0	16	\$3,872
3.5 Project Management		\$0	62	\$15,004		\$0		\$0		\$0		\$0		\$0	62	\$15,004
3.6 Quality Control	8	\$2,000	4	\$968		\$0	10	\$1,620		\$0	16	\$1,664		\$0	38	\$6,252
3.7 Deliverable		\$0		\$0		\$0	4	\$648		\$0	16	\$1,664		\$0	20	\$2,312
3.8 Review Meetings		\$0	4	\$968		\$0	4	\$648		\$0		\$0	2	\$148	10	\$1,764
<i>Sub-Total Task 3 - Final Design, 90%</i>	8	\$2,000	154	\$37,268	78	\$15,756	159	\$25,758	60	\$8,100	294	\$30,576	4	\$296	757	\$119,754

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

KIMLEY-HORN AND ASSOCIATES	CHIEF ENGINEER		SENIOR PROJECT MANAGER		SENIOR PROF. ENGINEER		PROFESSIONAL ENGINEER II		PROFESSIONAL ENGINEER I		DESIGNER/ ENGINEERING TECH		ADMINISTRATIVE/ CLERICAL		TOTAL	
	\$250		\$242		\$202		\$162		\$135		\$104		\$74		labor hours	Cost
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost		
Task 4 - Bidding Documents, 100%																
4.1 Drawing Preparation																
Cover Sheet		\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0
Project Drawing Index		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Summary of Quantities (2)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
General Notes		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Abbreviations/Legend		\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0
Project Construction Haul Route and Staging Area		\$0		\$0		\$0		\$0	5	\$675	2	\$208		\$0	7	\$883
Safety and Security Notes		\$0	1	\$242		\$0		\$0	5	\$675	2	\$208		\$0	8	\$1,125
Construction Safety Details		\$0		\$0		\$0		\$0	5	\$675	2	\$208		\$0	7	\$883
Overall Phasing Plan and Notes		\$0	4	\$968		\$0	30	\$4,860	5	\$675	2	\$208		\$0	41	\$6,711
Project Schedule		\$0		\$0		\$0	30	\$4,860	5	\$675		\$0		\$0	35	\$5,535
Phasing Plans (20)		\$0		\$0		\$0	8	\$1,296	5	\$675	16	\$1,664		\$0	29	\$3,635
MOT Plans (15)		\$0		\$0		\$0	8	\$1,296	5	\$675	8	\$832		\$0	21	\$2,803
MOT Notes and Details		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Existing Conditions (9)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Horizontal and Vertical Control Plans (5)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Boring Logs and Pavment Cores (5)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Erosion Control Plans and Details (3)		\$0		\$0		\$0		\$0		\$0	1	\$104		\$0	1	\$104
Site Demolition Plans		\$0		\$0		\$0	10	\$1,620		\$0	16	\$1,664		\$0	26	\$3,284
Site Demolition Details		\$0		\$0		\$0	10	\$1,620		\$0	10	\$1,040		\$0	20	\$2,660
Pavement Section (3)		\$0	4	\$968		\$0		\$0		\$0	10	\$1,040		\$0	14	\$2,008
Runway Profiles (7)		\$0		\$0		\$0	10	\$1,620		\$0	10	\$1,040		\$0	20	\$2,660
Pavement Details (3)		\$0		\$0		\$0	10	\$1,620		\$0	10	\$1,040		\$0	20	\$2,660
Grading and Drainage Plans (14)		\$0		\$0	16	\$3,232		\$0		\$0	10	\$1,040		\$0	26	\$4,272
Temporary Marking Plans (14)		\$0		\$0		\$0	10	\$1,620		\$0	10	\$1,040		\$0	20	\$2,660
Final Marking Plans (14)		\$0		\$0		\$0	10	\$1,620		\$0	10	\$1,040		\$0	20	\$2,660
Marking Details (4)		\$0		\$0		\$0	2	\$324		\$0	10	\$1,040		\$0	12	\$1,364
Grooving Plans (8)		\$0		\$0		\$0		\$0	5	\$675	5	\$520		\$0	10	\$1,195
Cross Sections (28)		\$0		\$0		\$0	8	\$1,296		\$0	80	\$8,320		\$0	88	\$9,616
4.2 Technical Specifications		\$0	10	\$2,420		\$0		\$0		\$0		\$0		\$0	10	\$2,420
4.3 Project Manual		\$0	10	\$2,420		\$0	30	\$4,860		\$0		\$0		\$0	40	\$7,280
4.4 Project Quantities and Engineer's Estimate of Probable Construction Costs		\$0	8	\$1,936		\$0		\$0		\$0		\$0		\$0	8	\$1,936
4.5 Final Engineer's Report		\$0	4	\$968	20	\$4,040		\$0		\$0		\$0	8	\$592	32	\$5,600
4.6 Project Management		\$0	57	\$13,794		\$0		\$0		\$0		\$0		\$0	57	\$13,794
4.7 Quality Control	8	\$2,000	4	\$968		\$0	10	\$1,620		\$0	20	\$2,080		\$0	42	\$6,668
4.8 Deliverable		\$0		\$0		\$0	4	\$648		\$0	20	\$2,080		\$0	24	\$2,728
4.9 Review Meetings		\$0	4	\$968		\$0	4	\$648		\$0		\$0	2	\$148	10	\$1,764
Sub-Total Task 4 - Bidding Documents, 100%	8	\$2,000	106	\$25,652	36	\$7,272	194	\$31,428	40	\$5,400	261	\$27,144	10	\$740	655	\$99,636

**HOURLY AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

KIMLEY-HORN AND ASSOCIATES	CHIEF ENGINEER		SENIOR PROJECT MANAGER		SENIOR PROF. ENGINEER		PROFESSIONAL ENGINEER II		PROFESSIONAL ENGINEER I		DESIGNER/ ENGINEERING TECH		ADMINISTRATIVE/ CLERICAL		TOTAL	
	\$250		\$242		\$202		\$162		\$135		\$104		\$74		labor hours	Cost
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost		
Task 5 - Bidding Services																
5.1 Pre Bid Meeting		\$0	4	\$968	4	\$808		\$0		\$0		\$0		\$0	8	\$1,776
5.2 Prepare Addenda		\$0	4	\$968	8	\$1,616	8	\$1,296	16	\$2,160		\$0		\$0	36	\$6,040
5.3 Recommendation of Contract Award		\$0	4	\$968	10	\$2,020		\$0		\$0	4	\$416		\$0	18	\$3,404
5.4 Deliverable		\$0		\$0	8	\$1,616		\$0	8	\$1,080		\$0	4	\$296	20	\$2,992
<i>Sub-Total Task 5 - Bidding Services</i>	<i>0</i>	<i>\$0</i>	<i>12</i>	<i>\$2,904</i>	<i>30</i>	<i>\$6,060</i>	<i>8</i>	<i>\$1,296</i>	<i>24</i>	<i>\$3,240</i>	<i>4</i>	<i>\$416</i>	<i>4</i>	<i>\$296</i>	<i>82</i>	<i>\$14,212</i>
Task 6 - Construction Administration Services																
6.1 General Administration of Construction Contract		\$0	300	\$72,600	300	\$60,600		\$0		\$0		\$0		\$0	600	\$133,200
6.2 Construction Management Plan		\$0	5	\$1,210		\$0	20	\$3,240		\$0	4	\$416		\$0	29	\$4,866
6.3 Visit to Site and Observation of Construction		\$0	40	\$9,680		\$0	80	\$12,960	20	\$2,700		\$0		\$0	140	\$25,340
6.4 Clarifications and Interpretations		\$0	30	\$7,260		\$0	70	\$11,340		\$0		\$0		\$0	100	\$18,600
6.5 Change Orders and Field Orders		\$0	30	\$7,260		\$0	100	\$16,200		\$0		\$0		\$0	130	\$23,460
6.6 Shop Drawings and Samples		\$0	20	\$4,840		\$0	60	\$9,720		\$0	8	\$832		\$0	88	\$15,392
6.7 Substantial Completion		\$0	6	\$1,452		\$0	4	\$648		\$0	2	\$208		\$0	12	\$2,308
6.8 Final Notice of Acceptability of the Work		\$0	5	\$1,210		\$0	5	\$810		\$0	2	\$208		\$0	12	\$2,228
6.9 Post Construction Phase		\$0	20	\$4,840		\$0	20	\$3,240	10	\$1,350		\$0		\$0	50	\$9,430
6.10 Deliverable		\$0		\$0		\$0	16	\$2,592	4	\$540		\$0		\$0	20	\$3,132
<i>Sub-Total Task 6 - Construction Administration Services</i>	<i>0</i>	<i>\$0</i>	<i>456</i>	<i>\$110,352</i>	<i>300</i>	<i>\$60,600</i>	<i>375</i>	<i>\$60,750</i>	<i>34</i>	<i>\$4,590</i>	<i>16</i>	<i>\$1,664</i>	<i>0</i>	<i>\$0</i>	<i>1,181</i>	<i>\$237,956</i>
TOTAL ALL LABOR	32	8,000	1,481	358,402	721	145,642	1,270	205,740	577	77,895	1,496	155,584	40	2,960	5,617	954,223

Total Basic Services Fee: \$954,223

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETERSBURG/CLEARWATER AIRPORT**

Arora	PRINCIPAL		CHIEF ENGINEER		PROJECT MANAGER		SR. AERONAUTICAL/ ELECTRICAL DESIGNER		AERONAUTICAL/ ELECTRICAL DESIGNER		BIM/CAD MANAGER		CAD TECHNICIAN		QA/QC REVIEWER		ADMINISTRATIVE		TOTAL		
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	
Rate (\$/Hour):	\$255		\$222		\$198		\$133		\$79		\$119		\$83		\$184		\$79				
TASK 1 - PRELIMINARY DESIGN, 30%																					
Sub-tasks Include:																					
Design Kick-off Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0	8	\$664		\$0		\$0	16	\$2,248	
Site Investigation & Data Collection		\$0		\$0	16	\$3,168		\$0		\$0		\$0		\$0		\$0		\$0	16	\$3,168	
Drawing Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0	
General Electrical Notes		\$0		\$0	3	\$594		\$0	6	\$474	1	\$119	6	\$498		\$0		\$0	16	\$1,685	
Abbreviations & Legend		\$0		\$0	1	\$198	5	\$665	5	\$395	1	\$119	8	\$664		\$0		\$0	20	\$2,041	
Electrical Demolition Plans (13 Sheets)		\$0		\$0	2	\$396	32	\$4,256		\$0	2	\$238	40	\$3,320		\$0		\$0	76	\$8,210	
Electrical Lighting Plans (13 Sheets)		\$0		\$0	2	\$396	32	\$4,256		\$0	2	\$238	40	\$3,320		\$0		\$0	76	\$8,210	
Airfield Electrical Vault Plans (2 Sheets)		\$0		\$0	2	\$396	16	\$2,128		\$0	1	\$119		\$0		\$0		\$0	19	\$2,643	
PAPI Siting Plan (2 Sheets)		\$0		\$0	2	\$396		\$0	24	\$1,896		\$0		\$0		\$0		\$0	27	\$2,411	
REIL Siting Plan (2 Sheets)		\$0		\$0	2	\$396		\$0	24	\$1,896		\$0		\$0		\$0		\$0	27	\$2,411	
Technical Specs Outline		\$0		\$0	1	\$198		\$0		\$0		\$0		\$184		\$184	1	\$79	3	\$461	
Electrical Bid Items Quantities		\$0		\$0		\$0		\$0	8	\$632		\$0		\$0		\$0		\$0	12	\$1,368	
QA/QC Review		\$0		\$0	16	\$3,168		\$0		\$0		\$0	24	\$4,416		\$0		\$0	40	\$7,584	
Progress Design Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0	4	\$736		\$0	12	\$2,320	
Submission Review Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0		\$0		\$0	8	\$1,584	
30% Comments Response Preparation		\$0		\$0	8	\$1,584		\$0	8	\$632		\$0		\$0	2	\$368	4	\$315	22	\$2,900	
Sub-Total Task 1 - PRELIMINARY DESIGN, 30%	0	\$0	0	\$0	79	\$15,642	85	\$11,305	75	\$5,925	9	\$1,071	102	\$8,466	35	\$6,440	5	\$395	390	\$49,244	
Task 2 - Engineering Design Phase, 60%																					
Sub-tasks Include:																					
Drawing Preparation																					
General Electrical Notes		\$0		\$0		\$0		\$0		\$0		\$0	1	\$83		\$0		\$0	1	\$83	
Abbreviations & Legend		\$0		\$0		\$0	4	\$532		\$0		\$0		\$0		\$0		\$0	4	\$532	
Electrical Demolition Plans (13 Sheets)		\$0		\$0		\$0	25	\$3,325	16	\$1,264		\$0	16	\$1,328		\$0		\$0	57	\$5,917	
Electrical Lighting Plans (13 Sheets)		\$0		\$0		\$0	28	\$3,724	16	\$1,264		\$0	28	\$2,324		\$0		\$0	72	\$7,312	
Airfield Electrical Vault Plans (3 Sheets)		\$0		\$0		\$0	8	\$1,064		\$0		\$0	8	\$664		\$0		\$0	16	\$1,728	
Signage schedule (2 Sheets)		\$0		\$0		\$0	16	\$2,128		\$0		\$0	16	\$1,328		\$0		\$0	32	\$3,456	
Light Fixture Adjustment & Installation Details (4 Sheets)		\$0		\$0		\$0	16	\$2,128		\$0		\$0	8	\$664		\$0		\$0	24	\$2,792	
PAPI Plans (5 Sheets)		\$0		\$0		\$0		\$0	24	\$1,896		\$0		\$0		\$0		\$0	24	\$1,896	
REIL Plans (3 Sheets)		\$0		\$0		\$0		\$0	16	\$1,264		\$0		\$0		\$0		\$0	16	\$1,264	
Touchdown Zone Lights Layout (1 Sheet)		\$0		\$0		\$0		\$0	8	\$632	1	\$119		\$0		\$0		\$0	9	\$751	
Guidance Sign Installation Detail (1 Sheet)		\$0		\$0		\$0		\$0	8	\$632	1	\$119		\$0		\$0		\$0	9	\$751	
Conduit & Ductbank Details (1 Sheet)		\$0		\$0		\$0		\$0	8	\$632	1	\$119		\$0		\$0		\$0	9	\$751	
Grounding & Counterpoise Details (1 Sheet)		\$0		\$0		\$0		\$0	8	\$632	1	\$119		\$0		\$0		\$0	9	\$751	
Junction Can Plaza Details (1 Sheet)		\$0		\$0		\$0		\$0	8	\$632	1	\$119		\$0		\$0		\$0	9	\$751	
Light Fixture Wiring Diagrams (2 Sheets)		\$0		\$0		\$0		\$0	12	\$948	1	\$119		\$0		\$0		\$0	13	\$1,067	
Ductbank Plan (1 Sheet)		\$0		\$0		\$0		\$0	6	\$474	1	\$119		\$0		\$0		\$0	7	\$593	
Light Fixtures Circuit Plans (3 Sheets)		\$0		\$0		\$0	16	\$2,128		\$0	1	\$119	16	\$1,328		\$0		\$0	33	\$3,575	
Preliminary Engineering Report		\$0		\$0	8	\$1,584		\$0		\$0		\$0	8	\$1,472	8	\$632		\$0	24	\$3,688	
Technical Specs		\$0		\$0	4	\$792		\$0		\$0		\$0	8	\$1,472	8	\$632		\$0	20	\$2,896	
Electrical Bid Items Quantities		\$0		\$0	4	\$792		\$0	12	\$948		\$0		\$0	4	\$736	8	\$632	28	\$3,108	
QA/QC Review		\$0		\$0	8	\$1,584		\$0		\$0		\$0	15	\$2,760		\$0		\$0	23	\$4,344	
Progress Design Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0		\$0		\$0	8	\$1,584	
Submission Review Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0	4	\$736		\$0	12	\$2,320	
60% Submission Comments Response Preparation		\$0		\$0	3	\$594		\$0		\$0		\$0	8	\$664	6	\$1,104	2	\$158	19	\$2,520	
Sub-Total Task 2 - Engineering Design Phase, 60%	0	\$0	0	\$0	43	\$8,514	113	\$15,029	142	\$11,218	8	\$952	101	\$8,383	45	\$8,280	26	\$2,054	478	\$54,430	

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETERSBURG/CLEARWATER AIRPORT**

Arora	PRINCIPAL		CHIEF ENGINEER		PROJECT MANAGER		SR. AERONAUTICAL/ ELECTRICAL DESIGNER		AERONAUTICAL/ ELECTRICAL DESIGNER		BIM/CAD MANAGER		CAD TECHNICIAN		QA/QC REVIEWER		ADMINISTRATIVE		TOTAL		
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	
Rate (\$/Hour):	\$255		\$222		\$198		\$133		\$79		\$119		\$83		\$184		\$79				
Task 3 - Final Design, 90%																					
Sub-tasks Include:																					
Drawing Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		0	\$0
General Electrical Notes		\$0		\$0		\$0		\$0		\$0		\$0	1	\$83		\$0		\$0		1	\$83
Abbreviations & Legend		\$0		\$0		\$0	4	\$532		\$0		\$0		\$0		\$0		\$0		4	\$532
Electrical Demolition Plans (13 Sheets)		\$0		\$0	4	\$792	48	\$6,384	6	\$474		\$0	48	\$3,984		\$0		\$0		106	\$11,634
Electrical Lighting Plans (13 Sheets)		\$0		\$0	8	\$1,584	48	\$6,384	6	\$474		\$0	72	\$5,976		\$0		\$0		134	\$14,418
Airfield Electrical Vault Plans (3 Sheets)		\$0		\$0	3	\$594	8	\$1,064		\$0		\$0	8	\$664		\$0		\$0		19	\$2,322
Signage schedule (2 Sheets)		\$0		\$0		\$0	8	\$1,064		\$0		\$0	20	\$1,660		\$0		\$0		28	\$2,724
Light Fixture Adjustment & Installation Details (4 Sheets)		\$0		\$0	8	\$1,584	20	\$2,660		\$0		\$0	8	\$664		\$0		\$0		36	\$4,908
PAPI Plans (5 Sheets)		\$0		\$0	4	\$792		\$0	20	\$1,580		\$0		\$0		\$0		\$0		24	\$2,372
REIL Plans (3 Sheets)		\$0		\$0	3	\$594		\$0	16	\$1,264		\$0		\$0		\$0		\$0		19	\$1,858
Touchdown Zone Lights Layout (1 Sheet)		\$0		\$0	1	\$198		\$0	4	\$316		\$0		\$0		\$0		\$0		5	\$514
Guidance Sign Installation Detail (1 Sheet)		\$0		\$0	1	\$198		\$0	4	\$316		\$0		\$0		\$0		\$0		5	\$514
Conduit & Ductbank Details (1 Sheet)		\$0		\$0	1	\$198		\$0	4	\$316		\$0		\$0		\$0		\$0		5	\$514
Grounding & Counterpoise Details (1 Sheet)		\$0		\$0	1	\$198		\$0	4	\$316		\$0		\$0		\$0		\$0		5	\$514
Junction Can Plaza Details (1 Sheet)		\$0		\$0	1	\$198		\$0	4	\$316		\$0		\$0		\$0		\$0		5	\$514
Light Fixture Wiring Diagrams (2 Sheets)		\$0		\$0	1	\$198		\$0	6	\$474		\$0		\$0		\$0		\$0		7	\$672
Ductbank Plan (1 Sheet)		\$0		\$0	1	\$198		\$0	4	\$316		\$0		\$0		\$0		\$0		5	\$514
Light Fixtures Circuit Plans (3 Sheets)		\$0		\$0	1	\$198	8	\$1,064		\$0		\$0		\$0		\$0		\$0		9	\$1,262
Light Fixture Schedules (2 Sheets)		\$0		\$0	1	\$198	10	\$1,330		\$0		\$0	8	\$664		\$0		\$0		19	\$2,192
Technical Specs		\$0		\$0	4	\$792		\$0		\$0		\$0		\$0	8	\$1,472	8	\$632		20	\$2,896
Electrical Bid Items Quantities		\$0		\$0		\$0		\$0	8	\$632		\$0		\$0	8	\$1,472		\$0		16	\$2,104
QA/QC Review	4	\$1,020	8	\$1,776	24	\$4,752		\$0		\$0	8	\$952		\$0	20	\$3,680		\$0		64	\$12,180
Progress Design Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0	8	\$1,472		\$0		16	\$3,056
Submission Review Meeting		\$0		\$0	8	\$1,584	8	\$1,064		\$0		\$0		\$0	4	\$736		\$0		20	\$3,384
90% Submission Comments Response Preparation		\$0		\$0	8	\$1,584		\$0		\$0		\$0	8	\$664	6	\$1,104	4	\$316		26	\$3,668
Sub-Total Task 3 - Final Design, 90%	4	\$1,020	8	\$1,776	91	\$18,018	162	\$21,546	86	\$6,794	8	\$952	173	\$14,359	54	\$9,936	12	\$948		598	\$75,349
Task 4 - Bidding Documents, 100%																					
Sub-tasks Include:																					
Drawing Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		0	\$0
General Electrical Notes		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		0	\$0
Abbreviations & Legend		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		0	\$0
Electrical Demolition Plans (13 Sheets)		\$0		\$0		\$0	8	\$1,064		\$0		\$0	8	\$664		\$0		\$0		16	\$1,728
Electrical Lighting Plans (13 Sheets)		\$0		\$0		\$0	16	\$2,128		\$0		\$0	24	\$1,992		\$0		\$0		40	\$4,120
Airfield Electrical Vault Plans (3 Sheets)		\$0		\$0		\$0	2	\$266		\$0		\$0		\$0		\$0		\$0		2	\$266
Signage schedule (2 Sheets)		\$0		\$0		\$0	2	\$266		\$0		\$0		\$0		\$0		\$0		2	\$266
Light Fixture Adjustment & Installation Details (4 Sheets)		\$0		\$0		\$0	2	\$266		\$0		\$0		\$0		\$0		\$0		2	\$266
PAPI Plans (5 Sheets)		\$0		\$0		\$0		\$0	8	\$632		\$0		\$0		\$0		\$0		8	\$632
REIL Plans (3 Sheets)		\$0		\$0		\$0		\$0	3	\$237		\$0		\$0		\$0		\$0		3	\$237
Touchdown Zone Lights Layout (1 Sheet)		\$0		\$0		\$0		\$0	2	\$158		\$0		\$0		\$0		\$0		2	\$158
Guidance Sign Installation Detail (1 Sheet)		\$0		\$0		\$0		\$0	2	\$158		\$0		\$0		\$0		\$0		2	\$158
Conduit & Ductbank Details (1 Sheet)		\$0		\$0		\$0		\$0	2	\$158		\$0		\$0		\$0		\$0		2	\$158
Grounding & Counterpoise Details (1 Sheet)		\$0		\$0		\$0		\$0	2	\$158		\$0		\$0		\$0		\$0		2	\$158
Junction Can Plaza Details (1 Sheet)		\$0		\$0		\$0		\$0	2	\$158		\$0		\$0		\$0		\$0		2	\$158
Light Fixture Wiring Diagrams (2 Sheets)		\$0		\$0		\$0		\$0	3	\$237		\$0		\$0		\$0		\$0		3	\$237
Ductbank Plan (1 Sheet)		\$0		\$0		\$0		\$0	2	\$158		\$0		\$0		\$0		\$0		2	\$158
Light Fixtures Circuit Plans (3 Sheets)		\$0		\$0		\$0	2	\$266		\$0		\$0		\$0		\$0		\$0		2	\$266
Light Fixture Schedules (2 Sheets)		\$0		\$0		\$0	2	\$266		\$0	1	\$79		\$0		\$0		\$0		3	\$345
Technical Specs		\$0		\$0		\$0		\$0		\$0		\$0		\$0	6	\$1,104		\$0		6	\$1,104
Electrical Bid Items Quantities		\$0		\$0		\$0		\$0		\$0		\$0		\$0	2	\$368		\$0		2	\$368
Final Engineering Report		\$0		\$0	12	\$2,376		\$0		\$0		\$0		\$0	10	\$1,840	8	\$632		30	\$4,848
Project Manual		\$0		\$0	4	\$792		\$0		\$0		\$0		\$0	8	\$1,472		\$0		12	\$2,264
QA/QC Review	4	\$1,020	6	\$1,332	6	\$1,188		\$0		\$0	8	\$952		\$0	8	\$1,472		\$0		32	\$5,964
Final Design Meeting		\$0		\$0	6	\$1,188		\$0		\$0		\$0		\$0		\$0		\$0		6	\$1,188
Submission Review Meeting		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0		\$0		\$0		8	\$1,584
Sub-Total Task 4 - Bidding Documents, 100%	4	\$1,020	6	\$1,332	36	\$7,128	34	\$4,522	27	\$2,133	8	\$952	32	\$2,656	34	\$6,256	8	\$632		169	\$26,631

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETERSBURG/CLEARWATER AIRPORT**

Arora	PRINCIPAL		CHIEF ENGINEER		PROJECT MANAGER		SR. AERONAUTICAL/ELECTRICAL DESIGNER		AERONAUTICAL/ELECTRICAL DESIGNER		BIM/CAD MANAGER		CAD TECHNICIAN		QA/QC REVIEWER		ADMINISTRATIVE		TOTAL			
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost		
Rate (\$/Hour):	\$255		\$222		\$198		\$133		\$79		\$119		\$83		\$184		\$79					
Task 5 - Bidding Services																						
Sub-tasks Include:																						
Prepare Addenda		\$0		\$0	4	\$792	16	\$2,128		\$0		\$0	16	\$1,328		\$0		\$0		\$0	36	\$4,248
Recommendation of Contract Award		\$0		\$0	4	\$792		\$0		\$0		\$0	4	\$332		\$0		\$0		\$0	8	\$1,124
Final Electrical Documents		\$0		\$0	14	\$2,772	16	\$2,128		\$0		\$0	16	\$1,328	8	\$1,472		\$0		\$0	54	\$7,700
Sub-Total Task 5 - Bidding Services	0	\$0	0	\$0	22	\$4,356	32	\$4,256	0	\$0	0	\$0	36	\$2,988	8	\$1,472	0	\$0			98	\$13,072
Task 6 - Construction Administration Services																						
Sub-tasks Include:																						
General Administration of Electrical Documents		\$0		\$0	8	\$1,584		\$0	24	\$1,896		\$0	24	\$1,992		\$0		\$0		\$0	56	\$5,472
Visit to Site and Observation of Construction		\$0		\$0	40	\$7,920		\$0		\$0		\$0		\$0		\$0		\$0		\$0	40	\$7,920
Clarifications and Interpretations		\$0		\$0	8	\$1,584	10	\$1,330		\$0		\$0		\$0		\$0		\$0		\$0	18	\$2,914
Change Orders and Field Orders		\$0		\$0	8	\$1,584	10	\$1,330		\$0		\$0		\$0		\$0		\$0		\$0	18	\$2,914
Shop Drawings and Samples		\$0		\$0	4	\$792		\$0	40	\$3,160		\$0		\$0		\$0		\$0		\$0	44	\$3,952
Substantial Completion		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0		\$0		\$0		\$0	8	\$1,584
Final Notice of Acceptability of the Work		\$0		\$0	8	\$1,584		\$0		\$0		\$0		\$0		\$0		\$0		\$0	8	\$1,584
Post Construction Phase		\$0		\$0	28	\$5,544		\$0		\$0		\$0		\$0		\$0		\$0		\$0	28	\$5,544
Final Electrical Documents		\$0		\$0	16	\$3,168		\$0	24	\$1,896		\$0	24	\$1,992		\$0		\$0		\$0	64	\$7,056
Sub-Total Task 6 - Construction Administration Services	0	\$0	0	\$0	128	\$25,344	20	\$2,660	88	\$6,952	0	\$0	48	\$3,984	0	\$0	0	\$0			284	\$38,940
TOTAL ALL LABOR	8	2,040	14	3,108	399	79,002	446	59,318	418	33,022	33	3,927					51	4,029			2,037	257,666

Total Basic Services Fee: \$257,666

DIRECT REIMBURSABLES BREAKDOWN - See 2018 Per Diem Rates Below

DESIGN (Tasks 1-4)

4 Trips @ 2 days per trip

Hotel (4 nights @ \$120.00)	\$480.00
Per Diem (\$54 per day and 2 days per trip) - total 8 days	\$432.00
Airfare - (4 visits @ \$600)	\$2,400.00
Ground Transportation (8 days @ \$80)	\$640.00
SUBTOTAL (DESIGN)	\$3,952.00

CONSTRUCTION ADMINISTRATION (Task 6)

4 site visits

Hotel (4 nights @ \$120.00)	\$480.00
Per Diem (\$54 per day) - total 8 days	\$432.00
Airfare - (4 visits @ \$600)	\$2,400.00
Ground Transportation (8 days @ \$80)	\$640.00
SUBTOTAL (CONSTRUCTION ADMINISTRATION)	\$3,952.00

TOTAL DIRECT REIMBURSABLES \$7,904.00

Tampa and St. Petersburg, Florida Per Diem Rates for 2018

2018

2017

2016

2015

Older Years

Print 2018 FL Per-Diem Table

Rates Apply To:

Tampa and St. Petersburg, Florida:
Pinellas / Hillsborough County

Lodging Rate:

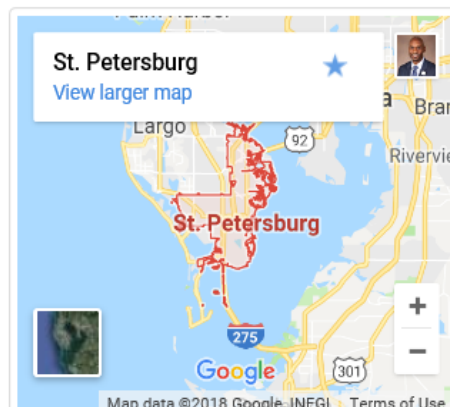
\$120.00

Meal Rate:

\$54.00

Tampa / St. Petersburg has a fixed per-diem rate set by the General Services Administration (GSA), which is used to reimburse overnight travel expenses within the area for Federal employees as well as employees of private companies which also use the GSA's per diem rates.

The **lodging per-diem rate** of **\$120.00** is intended to cover the costs of one night's lodging at a hotel in Tampa and St. Petersburg, based on the average daily rate in the local lodging industry. Many hotels and motels offer business travellers rooms at exactly the local per-diem rate.



**HR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Michael Baker International	PRINCIPAL QA/QC		PROJECT MANAGER		CONSTRUCTION MANAGER		ENGINEER		CADD DESIGNER		TOTAL	
Rate (\$/Hour):	\$195		\$176		\$165		\$150		\$95		labor hours	Cost
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
TASK 1 - PRELIMINARY DESIGN, 30%												
1.1 Project Kickoff		\$0		\$0	2	\$330		\$0		\$0	2	\$330
1.2 Constructability Review - 30% Plans		\$0		\$0	4	\$660		\$0		\$0	4	\$660
1.3 Prepare Comment/Response Form for 30% Review		\$0		\$0	4	\$660		\$0		\$0	4	\$660
1.4 30% Construction Phasing Coordination w KHA		\$0		\$0	16	\$2,640		\$0		\$0	16	\$2,640
1.5 30% Construction Phasing Coordination Stakeholder Mtg		\$0		\$0	4	\$660		\$0		\$0	4	\$660
1.6 QC of 30% Deliverable to KHA		\$0	2	\$352		\$0		\$0		\$0	2	\$352
		\$0		\$0		\$0		\$0		\$0	0	\$0
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	0	\$0	2	\$352	30	\$4,950	0	\$0	0	\$0	32	\$5,302
Task 2 - Engineering Design Phase, 60%												
2.1 60% Constructability Review		\$0		\$0	8	\$1,320		\$0		\$0	8	\$1,320
2.2 Prepare Comment/Response Form for 60% Review		\$0		\$0	4	\$660		\$0		\$0	4	\$660
2.2 60% Construction Phasing Coordination w KHA		\$0		\$0	16	\$2,640		\$0		\$0	16	\$2,640
2.3 60% Construction Phasing Coordination Stakeholder Mtg		\$0		\$0	4	\$660		\$0		\$0	4	\$660
2.4 QC of 60% Deliverable to KHA		\$0	4	\$704		\$0		\$0		\$0	4	\$704
Sub-Total Task 2 - Engineering Design Phase, 60%	0	\$0	4	\$704	32	\$5,280	0	\$0	0	\$0	36	\$5,984
Task 3 - Final Design, 90%												
3.1 90% Constructability Review		\$0		\$0	8	\$1,320		\$0		\$0	8	\$1,320
3.2 Prepare Comment/Response Form for 90% Review		\$0		\$0	4	\$660		\$0		\$0	4	\$660
3.2 90% Construction Phasing Coordination w KHA		\$0		\$0	8	\$1,320		\$0		\$0	8	\$1,320
3.3 90% Construction Phasing Coordination Stakeholder Mtg		\$0		\$0	4	\$660		\$0		\$0	4	\$660
3.4 QC of 90% Deliverable to KHA		\$0	4	\$704		\$0		\$0		\$0	4	\$704
Sub-Total Task 3 - Final Design, 90%	0	\$0	4	\$704	24	\$3,960	0	\$0	0	\$0	28	\$4,664
Task 4 - Bidding Documents, 100%												
4.1 Final Constructability Review		\$0		\$0	8	\$1,320		\$0		\$0	8	\$1,320
4.2 Prepare Comment/Response Form for 90% Review		\$0		\$0	4	\$660		\$0		\$0	4	\$660
4.3 Final Construction Phasing Coordination w KHA		\$0		\$0	8	\$1,320		\$0		\$0	8	\$1,320
4.4 Final Construction Phasing Coordination Stakeholder Mtg		\$0		\$0	4	\$660		\$0		\$0	4	\$660
4.5 QC of Final Deliverable to KHA		\$0	4	\$704		\$0		\$0		\$0	4	\$704
Sub-Total Task 4 - Bidding Documents, 100%	0	\$0	4	\$704	24	\$3,960	0	\$0	0	\$0	28	\$4,664
Task 5 - Bidding Services												
		\$0		\$0		\$0		\$0		\$0	0	\$0
		\$0		\$0		\$0		\$0		\$0	0	\$0
Sub-Total Task 5 - Bidding Services	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Task 6 - Construction Administration Services												
6.1 Attend Construction Meetings		\$0		\$0	12	\$1,980		\$0		\$0	12	\$1,980
Sub-Total Task 6 - Construction Administration Services	0	\$0	0	\$0	12	\$1,980	0	\$0	0	\$0	12	\$1,980
TOTAL ALL LABOR	-	-	14	2,464	122	20,130	-	-	-	-	136	22,594

Total Basic Services Fee: \$22,594

St. Pete-Clearwater International Airport
Rehabilitation of Runway 18-36
Professional Services
Michael Baker International, Basic Services

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Connico, Inc.	PRINCIPAL		SENIOR ASSOCIATE		SENIOR PM/ SCHEDULER		PROJECT MANAGER		ADMIN SUPPORT		TOTAL	
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
Loaded Rate (\$/Hour):	\$225		\$180		\$126		\$120		\$72			
TASK 1 - PRELIMINARY DESIGN, 30%												
1.1 Design Estimate Draft	1	\$225	8	\$1,440		\$0	16	\$1,920	1	\$72	26	\$3,657
1.2 Design Estimate Final	1	\$225	8	\$1,440		\$0	16	\$1,920		\$0	25	\$3,585
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	2	\$450	16	\$2,880	0	\$0	32	\$3,840	1	\$72	51	\$7,242
Task 2 - Engineering Design Phase, 60%												
2.1 Design Estimate Draft	1	\$225	16	\$2,880		\$0	24	\$2,880	1	\$72	42	\$6,057
2.2 Design Estimate Final	1	\$225	8	\$1,440		\$0	8	\$960		\$0	17	\$2,625
2.3 Construction Scheduling and Phasing Draft	1	\$225	8	\$1,440	32	\$4,032		\$0		\$0	41	\$5,697
2.4 Construction Scheduling and Phasing Final		\$0		\$0	8	\$1,008	0	\$0		\$0	8	\$1,008
Sub-Total Task 2 - Engineering Design Phase, 60%	3	\$675	32	\$5,760	40	\$5,040	32	\$3,840	1	\$72	108	\$15,387
Task 3 - Final Design, 90%												
3.1 Design Estimate Draft	1	\$225	4	\$720		\$0	16	\$1,920	0.50	\$36.00	21.50	\$2,901.00
3.2 Design Estimate Final	1	\$225	2	\$360		\$0	8	\$960		\$0	11	\$1,545
Sub-Total Task 3 - Final Design, 90%	2	\$450	6	\$1,080	0	\$0	24	\$2,880	0.50	\$36.00	32.50	\$4,446.00
Task 4 - Bidding Documents, 100%												
4.1 Design Estimate Draft	1	\$225	2	\$360		\$0	16	\$1,920	0.50	\$36.00	19.50	\$2,541.00
4.2 Design Estimate Final	0.50	\$112.50	2	\$360		\$0	4	\$480		\$0	6.50	\$953
Sub-Total Task 4 - Bidding Documents, 100%	1.50	\$338	4	\$720	0	\$0	20	\$2,400	1	\$36	26.00	\$3,493.50
Task 5 - Bidding Services												
		\$0		\$0		\$0		\$0		\$0	0	\$0
		\$0		\$0		\$0		\$0		\$0	0	\$0
Sub-Total Task 5 - Bidding Services	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Task 6 - Construction Administration Services												
		\$0		\$0		\$0		\$0		\$0	0	\$0
Sub-Total Task 6 - Construction Administration Services	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
TOTAL ALL LABOR	9	1,913	58	10,440	40	5,040	108	12,960	3	216	217.50	30,568.50

Total Basic Services Fee: **\$30,568.50**

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Florida Design Consultants	Principal Professional QA/QC		Project Manager		Project Engineer		GIS Technician		TOTAL	
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
Rate (\$/Hour):	\$185		\$160		\$115		\$85			
TASK 1 - PRELIMINARY DESIGN, 30%										
1.1.A Prepare Applications for Pre-Apps		\$0		\$0	1	\$115		\$0	1	\$115
1.1.B Prepare Meeting Exhibits		\$0	2	\$320		\$0	8	\$680	10	\$1,000
1.1.C Attend Meetings		\$0	8	\$1,280	8	\$920		\$0	16	\$2,200
1.1.D Prepare Meeting Minutes		\$0	1	\$160	4	\$460		\$0	5	\$620
1.2.A Rerun Current Master Drainage Model (Optional)		\$0		\$0	2	\$230		\$0	2	\$230
1.2.B Convert ICPR v3 Model (Optional)		\$0		\$0	1	\$115		\$0	1	\$115
1.2.C Run ICPR v4 Model (Optional)		\$0		\$0	2	\$230		\$0	2	\$230
1.2.D Compare Results (Optional)		\$0	2	\$320	2	\$230		\$0	4	\$550
1.2.E Select Model (Optional)		\$0	1	\$160		\$0		\$0	1	\$160
1.2.F Update Selected Model (Optional)		\$0	4	\$640	8	\$920	8	\$680	20	\$2,240
1.2.G Prepare Drainage Report (Optional)		\$0	8	\$1,280	19	\$2,185	20	\$1,700	47	\$5,165
1.3.A Identify Impervious Area Locations		\$0		\$0	4	\$460	4	\$340	8	\$800
1.3.B Review Existing Stormwater Mgmt Sys		\$0	8	\$1,280	16	\$1,840		\$0	24	\$3,120
1.3.C Review Potential Treatment		\$0	4	\$640	8	\$920		\$0	12	\$1,560
1.3.D Prepare Water Quality Analysis		\$0	8	\$1,280	16	\$1,840	8	\$680	32	\$3,800
1.3.E Summarize Water Quality Analysis		\$0	1	\$160	2	\$230	4	\$340	7	\$730
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	0	\$0	47	\$7,520	93	\$10,695	52	\$4,420	192	\$22,635
Task 2 - Engineering Design Phase, 60%										
2.1.A Prepare ERP Application		\$0	1	\$160	2	\$230	4	\$340	7	\$730
2.1.B Submit Materials		\$0	1	\$160	2	\$230		\$0	3	\$390
2.2 Submit Materials to Pinellas Co		\$0	1	\$160	2	\$230		\$0	3	\$390
2.3 Responses to RAIs	2	\$370	8	\$1,280	16	\$1,840	16	\$1,360	42	\$4,850
		\$0		\$0		\$0		\$0	0	\$0
Sub-Total Task 2 - Engineering Design Phase, 60%	2	\$370	11	\$1,760	22	\$2,530	20	\$1,700	55	\$6,360
TOTAL ALL LABOR	2	370	58	9,280	115	13,225	72	6,120	247	28,995

Total Basic Services Labor Fee: **\$28,995.00**
Total Reimbursible Expenses (ERP Permit Fee): **\$3,105.75**

TOTAL FEE \$32,100.75

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Pavement Technical Solutions	PRINCIPAL ENGINEER		PROJECT MANAGER		SENIOR CIVIL ENGINEER		JUNIOR CIVIL ENGINEER		ENG./CAD TECH		CLERICAL/ADMIN SUPPORT		TOTAL	
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
Rate (\$/Hour):	\$135.00		\$135.00		\$105.00		\$94.00		\$80.00		\$56.00			
TASK 1 - PRELIMINARY DESIGN, 30%														
1 - Non-Destructive Testing (NDT)		\$0		\$0		\$0	2	\$188	68	\$5,440		\$0	70	\$5,628
2 - Structural Analysis	6	\$810	7	\$945	16	\$1,680	44	\$4,136	8	\$640		\$0	81	\$8,211
3 - Summary Letter of Results	2	\$270	2	\$270	4	\$420	20	\$1,880	2	\$160		\$0	30	\$3,000
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	8	\$1,080	9	\$1,215	20	\$2,100	66	\$6,204	78	\$6,240	0	\$0	181	\$16,839
TOTAL ALL LABOR	8	\$1,080	9	\$1,215	20	\$2,100	66	\$6,204	78	\$6,240	-	-	181	\$16,839

Total Labor: \$16,839
 Total Travel/Direct Costs: \$6,186
TOTAL FEE: \$23,025

**HOURLY AND FEE PROPOSAL - TRAVEL AND DIRECT COSTS
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Pavement Technical Solutions	FWD EQUIPMENT		PROFILER EQUIPMENT		PER DIEM LODGING		PER DIEM MEALS		LODGING TAX		AIRFARE (ROUNDTRIP)		CAR RENTAL		MILEAGE			
	Rate (\$/Unit Shown):	\$1,500.00	\$1,000.00	\$120.00	\$36.00	\$15.60	\$1,000.00	\$75.00	\$0.445									
	Days	Cost	Days	Cost	Days	Cost	Days	Cost	Days	Cost	Flights	Cost	Days	Cost	Miles	Cost	Cost	
TASK 1 - PRELIMINARY DESIGN, 30%																		
1 - Non-Destructive Testing (NDT)	2	\$3,000	0	\$0	7	\$840	7	\$252	7	\$109	1	\$1,000	2	\$150	1876	\$835	\$6,186	
<i>Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%</i>	2	\$3,000	0	\$0	7	\$840	7	\$252	7	\$109	1	\$1,000	2	\$150	1876	\$835	\$6,186	
TOTAL ALL TRAVEL/DIRECT COSTS	2	\$3,000	-	\$0	7	\$840	7	\$252	7	\$109	1	\$1,000	2	\$150	1,876	\$835	\$6,186	

Total Travel/Direct Costs: \$6,186

**HR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Northwest Survey, Inc.	SURVEY CREW		SR. PROJECT MANAGER		PROJECT MANAGER		CADD TECHNICIAN		ADMIN.		TOTAL	
	labor days	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
Rate (\$/Hour):	\$1,200		\$225		\$135		\$90		\$75			
TASK 1 - PRELIMINARY DESIGN, 30%												
1.1 Topographic Site Survey	19	\$22,800	15	\$3,375	45	\$6,075	90	\$8,100	15	\$1,125	184	\$41,475
		\$0		\$0		\$0		\$0		\$0	0	\$0
		\$0		\$0		\$0		\$0		\$0	0	\$0
<i>Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%</i>	<i>19</i>	<i>\$22,800</i>	<i>15</i>	<i>\$3,375</i>	<i>45</i>	<i>\$6,075</i>	<i>90</i>	<i>\$8,100</i>	<i>15</i>	<i>\$1,125</i>	<i>184</i>	<i>\$41,475</i>
TOTAL ALL LABOR	19	22,800	15	3,375	45	6,075	90	8,100	15	1,125	184	41,475

Total Labor: \$41,475
Total Travel/Direct Costs: \$900
TOTAL FEE: \$42,375

**HOUR AND FEE PROPOSAL - TRAVEL AND DIRECT COSTS
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Northwest Survey, Inc.	LIGHT TOWER										
Rate (\$/Month):	\$900.00										
	Days	Cost	Days	Cost	Days	Cost	Days	Cost	Days	Cost	Cost
TASK 1 - PRELIMINARY DESIGN, 30%											
1 - Night Survey Light Tower	1	\$900		\$0		\$0		\$0		\$0	\$900
		\$0		\$0		\$0		\$0		\$0	\$0
<i>Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%</i>	<i>1</i>	<i>\$900</i>	<i>0</i>	<i>\$0</i>	<i>0</i>	<i>\$0</i>	<i>0</i>	<i>\$0</i>	<i>0</i>	<i>\$0</i>	<i>\$900</i>
TOTAL ALL TRAVEL/DIRECT COSTS	1	\$900	-	\$0	-	\$0	-	\$0	-	\$0	\$900

Total Travel/Direct Costs: **\$900**

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Maser	TECHNICAL DIRECTOR		PROJECT MANAGER		TECHNICAL SPECIALIST		MOBILE LIDAR CREW		SURVEY CREW - 2 MAN		TOTAL	
	labor hours	Cost			labor hours	Cost			labor hours	Cost	labor hours	Cost
Rate (\$/Hour):	\$149.00		\$165		\$113.00		\$164		\$132.00			
TASK 1 - PRELIMINARY DESIGN, 30%												
1.1 Coordination/Mobilization		\$0	1	\$165		\$0		\$0		\$0	1	\$165
1.2 Validation Points		\$0		\$0		\$0		\$0	8	\$1,056	8	\$1,056
1.3 Mobile LiDAR		\$0		\$0		\$0	16	\$2,624		\$0	16	\$2,624
1.4 Mobile LiDAR Processing	8	\$1,192		\$0	20	\$2,260		\$0		\$0	28	\$3,452
1.5 Mobile LiDAR Report		\$0	4	\$660		\$0		\$0		\$0	4	\$660
1.6 LiDAR Data Extraction	1	\$149		\$0	10	\$1,130		\$0		\$0	11	\$1,279
1.7 DTM Creation		\$0		\$0	16	\$1,808		\$0		\$0	16	\$1,808
1.8 CAD Drafting		\$0		\$0	16	\$1,808		\$0		\$0	16	\$1,808
1.9 QA/QC		\$0	2	\$330		\$0		\$0		\$0	2	\$330
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	9	\$1,341	7	\$1,155	62	\$7,006	16	\$2,624	8	\$1,056	102	\$13,182.00
TOTAL ALL LABOR	9	1,341	7	1,155	62	7,006	16	2,624	8	1,056	102	13,182.00

Total Labor: \$13,182.00
Total Travel/Direct Costs: \$6,910.00
TOTAL FEE: \$20,092.00

**HOUR AND FEE PROPOSAL - TRAVEL AND DIRECT COSTS
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Maser	MOBILE LIDAR										
Rate (\$/Month):	\$6,910.00										
	Days	Cost	Days	Cost	Days	Cost	Days	Cost	Days	Cost	Cost
TASK 1 - PRELIMINARY DESIGN, 30%											
1 - Mobile LiDAR Equipment Costs	1	\$6,910		\$0		\$0		\$0		\$0	\$6,910
		\$0		\$0		\$0		\$0		\$0	\$0
<i>Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%</i>	<i>1</i>	<i>\$6,910</i>	<i>0</i>	<i>\$0</i>	<i>0</i>	<i>\$0</i>	<i>0</i>	<i>\$0</i>	<i>0</i>	<i>\$0</i>	<i>\$6,910</i>
TOTAL ALL TRAVEL/DIRECT COSTS	1	\$6,910	-	\$0	-	\$0	-	\$0	-	\$0	\$6,910

\$6,910

**HR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

Position: Tierra Inc	Chief Scientist		Sr Geotech Engineer		Designer		Sr Eng Technician		Geotech Technician		CLERICAL		TOTAL	
Rate (\$/Hour):	\$157		\$176		\$90		\$74		\$90.00		\$78			
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
TASK 1 - PRELIMINARY DESIGN, 30%														
1.1 Pavement Coring and Classification	40	\$6,280	8	\$1,408	16	\$1,440	40	\$2,960	40	\$3,600	10	\$780	154	\$16,468
		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	40	\$6,280	8	\$1,408	16	\$1,440	40	\$2,960	40	\$3,600	10	\$780	154	\$16,468
TOTAL ALL LABOR	40	6,280	8	1,408	16	1,440	40	2,960	40	3,600	10	780	154	16,468

Design Total Labor Task 1: **\$16,468**
 Design Total Travel/Direct Costs: **\$39,073**
 DESIGN FEE: **\$55,541**

TASK 1

Item Description	Unit	Unit Price	Quantity	Total
Geotechnical Field Investigation				
612-Geo Mobilization Drill Rig Truck Mount - 3 Crews for 5 days	Each	\$ 350.00	9	\$3,150.00
418-Geo Drill Crew Support Vehicle - 3 Crews for 5 Days	Day	\$ 160.00	9	\$1,440.00
419-Geo Drilling Crew 2-Person	Hour	\$ 135.00	50	\$6,750.00
Geo SPT Truck 0-50 Ft	LF	\$ 12.90	120	\$1,548.00
Geo SPT Truck 50-100 Ft	LF	\$ 17.00		\$0.00
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.25	120	\$630.00
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00		\$0.00
Asphalt and Concrete Pavement Coring				
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 125.00		\$0.00
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 110.00		\$0.00
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 125.00	100	\$12,500.00
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 110.00		\$0.00
305-Concrete Pavement Coring - 4" Dia	Each	\$ 110.00		\$0.00
306-Concrete Pavement Coring - 6" Dia	Each	\$ 110.00		\$0.00
603-Mobilization Asphalt Coring equipment	Each	\$ 250.00	9	\$2,250.00
606-Mobilization Concrete Coring	Each	\$ 250.00		\$0.00
Geotechnical Soil Laboratory Testing				
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00	10	\$420.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00	10	\$100.00
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 131.00		\$0.00
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00	10	\$670.00
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 175.00		\$0.00
Atterberg Limit Tests (AASHTO T-89 and T-90) Combined	Test	\$ 130.00	4	\$520.00
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515) CBR	Test	\$ 340.00	2	\$680.00
Misc Asphalt and Concrete Testing				
100-Aggregate Acid Insol Retained 200 Sieve (FM 5-510)	Test	\$ 90.00		\$0.00
101-Aggregate Carbonates and Organic Matter (FM 5-514)	Test	\$ 90.00		\$0.00
108-Aggregate Unit Mass and Voids (AASHTO T 19)	Test	\$ 50.00		\$0.00
200-Asphalt Bulk Specific Gravity (FM 1-T 166)	Test	\$ 25.10		\$0.00
201-Asphalt Content (FM 5-563)	Test	\$ 136.00		\$0.00
203-Asphalt Gradation & Content (FM 1-T 030 & FM 5-563)	Test	\$ 187.00	45	\$8,415.00
204-Asphalt Gradation (FM 1-T 030)	Test	\$ 51.00		\$0.00
207-Asphalt Los Angeles (LA) Abrasion Small Agg (FM 1-T 096)	Test	\$ 270.00		\$0.00
300-Concrete Beam Flexural Testing (ASTM C78)	Test	\$ 31.00		\$0.00
301-Concrete Compressive Compressive Strength of Grout\Mortar (ASTM C 109)	Test	\$ 13.00		\$0.00
302-Concrete Cylinder Curing, Capping & Breaking (ASTM C39)	Test	\$ 12.00		\$0.00
303-Concrete Drilled Cores and Sawed Beams (ASTM C42)	Test	\$ 38.00		\$0.00
Total Field and Lab Estimate				\$39,073.00

**HOUR AND FEE PROPOSAL
REHABILITATION OF RUNWAY 18-36
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

EHCO	SUE Designating Crew (2-man/8-hour day)		SUE Locating Crew (2-man/8-hour day)		Survey Crew - Utility Mapping (2-man/8-hour day)		PROJECT MANAGER		Surveyor PSM		CADD TECHNICIAN		ADMIN.		TOTAL	
	labor days	Cost	labor days	Cost	labor days	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost
Rate (\$/Hour):	\$1,546		\$1,858		\$1,200		\$142		\$142		\$90		\$75			
TASK 1 - PRELIMINARY DESIGN, 30%																
1.1 Subsurface Utility Engineering (SUE) - Horizontal Utility Location	4	\$6,184		\$0		\$0	2	\$284	3	\$426	4	\$360	1	\$75	14	\$7,329
1.2 Survey to Support (Map) the SUE (Utility Line Work)		\$0		\$0	2	\$2,400	2	\$284	3	\$426	6	\$540	1	\$75	14	\$3,725
		\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0
Sub-Total TASK 1 - PRELIMINARY DESIGN, 30%	4	\$6,184	0	\$0	2	\$2,400	4	\$568	6	\$852	10	\$900	2	\$150	28	\$11,054
Task 2 - Engineering Design Phase, 60%																
2.1 Subsurface Utility Engineering (SUE) - Vertical Utility Location (Test Holes)		\$0	2	\$3,716		\$0	2	\$284	2	\$284	2	\$180	1	\$75	9	\$4,539
2.2 Survey to Support (Map) the SUE (Test Holes)		\$0		\$0	1	\$1,200	1	\$142	2	\$284	6	\$540		\$0	10	\$2,166
Sub-Total Task 2 - Engineering Design Phase, 60%	0	\$0	2	\$3,716	1	\$1,200	3	\$426	4	\$568	8	\$720	1	\$75	19	\$6,705
TOTAL ALL LABOR	4	\$6,184	2	\$3,716	3	\$3,600	7	\$994	10	\$1,420	18	\$1,620	3	\$225	47	\$17,759

Total Basic Services Fee: \$17,759



EXHIBIT B	
PINELLAS COUNTY - PROFESSIONAL ENGINEERING SERVICES	
Proposal No. 178-0102-NC (SS)	
Kimley-Horn and Associates	
CONTRACT BILLING RATES	
Job Classification	Hourly Billing Rate
Administrative/Clerical	\$ 74.00
Aviation Planner	\$ 160.00
Chief Engineer	\$ 250.00
Designer/Engineering Tech	\$ 104.00
Drafter/CADD Operator	\$ 95.00
Engineer Intern	\$ 105.00
Professional Engineer I	\$ 135.00
Professional Engineer II	\$ 162.00
Senior Aviation Planner	\$ 234.00
Senior Designer/Engineering Tech	\$ 136.00
Senior Professional Engineer	\$ 202.00
Senior Project Manager	\$ 242.00

The above billing rates are fully loaded (burdened) rates and shall remain fixed for the duration of Pinellas County's contract (3 years) for the date of execution by Pinellas County. The above rates include all labor, direct/indirect overhead, margins/profit, salary escalations, customary expenses such as copies, postage, etc., and travel within the Tampa Bay Metropolitan Statistical Area. Travel expenses outside of the Tampa Bay Metropolitan Statistical Area shall be reimbursed in accordance with Florida Statutes.



Arora Engineers, Inc.
61 Wilmington–West Chester Pike
Chadds Ford, PA 19317

P (610) 459-7900
F (610) 459-7950
aroraengineers.com

Exhibit B
LUMP SUM RATE SCHEDULE-2018

Classification	Fully Loaded Rate
Principal-In-Charge	\$255
Chief Engineer	\$222
Project Manager	\$198
Sr Aeronautical/Electrical Designer	\$133
QA/QC Reviewer	\$184
Aeronautical/Electrical Designer	\$79
CAD Technician	\$83
BIM/CAD Manager	\$119
Administrative	\$79

April 27, 2018

Mr. Paul Piro, PE
Kimley-Horn and Associates
Suite 150
655 North Franklin Street
Tampa, FL 33602

RE: Rehabilitation of Runway 18-36

Dear Mr. Piro:

We have made the additional adjustments requested by the County for the above referenced project.

Classification	Revised Rate
Principal	\$195.00
Project Manager	\$176.00
Construction Manager	\$165.00
Engineer	\$150.00
CADD Designer	\$95.00
RPR	\$99.00
Clerical	\$74.00

If you have any questions, or need additional information, please feel free to contact me.

Sincerely,



Mark Kistler, PE
Vice-President, SE Region Aviation Lead



FLORIDA DESIGN
CONSULTANTS, INC.
— THINK IT. ACHIEVE IT. —

3030 Starkey Boulevard
New Port Richey, Florida 34655

707 N. Franklin Street, 6th Floor
Tampa, Florida 33602

800.532.1047
www.fltdesign.com

April 18, 2018

Sue Steele
Pinellas County Purchasing Department
400 South Ft. Harrison, Sixth Floor
Clearwater, Florida 33756

**RE: Pinellas County's Runway 18-36 Rehabilitation – Professional Engineering Services Project
Contract No. 178-0102-NC (SS) – Exhibit B**

Dear Ms. Steele:

The following are Florida Design Consultants, Inc.'s billing rates. The following rates will hold for the duration of the above referenced project.

<u>CLASSIFICATION</u>	<u>BILLABLE RATE</u>
Principal Professional	\$ 185.00
Project Manager	\$ 160.00
Project Engineer	\$ 115.00
GIS Technician	\$ 85.00

Sincerely,

Robert C. Wright, Jr., PLS
President



EXHIBIT B
Connico Fully Loaded Billing Rates
PIE Runway 18-36 Rehabilitation
April 27, 2018

<u>Job Classification</u>	<u>Billing Rate/Hour</u>
Principal	\$225.00
Senior Associate	\$180.00
Senior Project Manager/Scheduler	\$126.00
Project Manager	\$120.00
Admin Support	\$ 72.00



43133 Huntsman Square, Ashburn, VA 20148 • 703 858 5875
153 Delta Lane, Colliers, WV 26035 • 304 527 2438
94-1221 Ka Uka Boulevard, #108, Box #321, Waipahu, HI 96797 • 808 672 2690
fax 703 858 1662 • www.pavementtechsolutions.com

May 3, 2018

Paul P. Piro, P.E.
Kimley-Horn
655 North Franklin Street
Suite 150
Tampa, FL 33602

Re: St. Pete-Clearwater International Airport – PTS Burdened Labor Rates

Dear Mr. Piro:

Pavement Technical Solutions, Inc. (PTS) is pleased to submit our fully burdened labor rates, inclusive of overhead and profit, in accordance with your request for labor rates for the St. Pete-Clearwater International Airport Runway 18-36 Rehabilitation project (Contract No.: 178-0102-NC (SS)). Please find the rates presented below in “*Exhibit B*”.

Exhibit B – PTS Labor Rates

Labor Category	Labor Rate
Principal Engineer	\$135
Project Manager	\$135
Senior Civil Engineer	\$105
Junior Civil Engineer	\$94
Engineering / CAD Technician	\$80
Clerical / Administrative Support	\$56

Labor Rates are fully burdened with Overhead and Profit

PTS is looking forward to the opportunity to work closely with Kimley-Horn on this pavement rehabilitation project. Should you have any questions or require additional information, please do not hesitate to contact me directly at 703-858-5875.

Sincerely,

Brian J. Orandello
President/CEO

Cc: \ Mr. Robert L. Dodson III, P.E., PTS
Mr. Brian J. Santiestevan, PTS



April 16, 2018

EXHIBIT B

CLEARWATER-ST. PETERSBURG AIRPORT (PIE)

RUNWAY 18-36 REHABILITATION

NSI PROPOSAL NO. 180103

NSI FEE SCHEDULE:

TASK
SURVEY CREW
SR. PROJECT MANAGER
PROJECT MANAGER, PSM
CAD TECHNICIAN
ADMIN.

RATE
\$1,200.00/DAY
\$ 225.00/HOUR
\$ 135.00/HOUR
\$ 90.00/HOUR
\$ 75.00/HOUR



Engineers
 Planners
 Surveyors
 Landscape Architects
 Environmental Scientists

5471 West Waters Avenue, Suite 100
 Tampa, FL 33634
 T: 813.207.1061
 F: 813.281.1050
 www.maserconsulting.com

MASER CONSULTING P.A.
Runway 18-36 Rehabilitation – Professional Engineering Services
Contract No. 178-0102-NC (SS)
LOADED RATE SCHEDULE

TECHNICAL STAFF RATES

BILLING TITLES	HOURLY RATES
Technical Director	149.00
Project Manager.....	165.00
Technical Specialist	113.00
Technical Assistant	85.00
Data / Field Technician.....	75.00
Mobile LiDAR Crew.....	164.00
Survey Crew – 2 Man.....	132.00

I do hereby certify that the above fees are consistent with current Maser Consulting P.A. fees for Surveying & Mapping services whether performed for private or governmental clients.

 Michael Ehrhart, PSM
 Senior Associate / Regional Manager

Date: 5/02/2018

TIERRA

April 24, 2018

Kimley-Horn
655 North Franklin Street, Suite 150
Tampa, Florida 33602
Attn: Mr. Paul P. Piro, PE

**RE: Exhibit B – Schedule of Rate Values
Proposal for Geotechnical Engineering
Pinellas County Runway 18-36 Rehabilitation
Contract No. 178-0102-NC (SS)
Tierra Project Number 6511-18-057**

Mr. Piro:

Please find the requested “Exhibit B” for the referenced project. Tierra, Inc. appreciates the opportunity to submit these personnel for service. Please contact our office should any additional information be required.

Respectfully Submitted,

TIERRA, INC.



Henri V. Jean, P.E.
Principal Geotechnical Engineer

Engineering, CEI and Technical Support Services			
Chief Geotechnical Engineer - Principal Engineer	Hour	\$	197.00
Chief Scientist	Hour	\$	157.00
Senior Geotechnical Engineer	Hour	\$	176.00
Geotechnical Engineer	Hour	\$	145.80
Engineer	Hour	\$	117.00
Engineering Intern	Hour	\$	88.00
Senior Scientist	Hour	\$	130.00
Designer	Hour	\$	90.00
Sr Engineering Technician	Hour	\$	74.00
Geotechnical Technician	Hour	\$	90.00
Secretary/Clerical	Hour	\$	78.00

April 20, 2018 **(Revised 04/26/18)**

Paul Piro, PE
 Project Manager
 Kimley-Horn
 655 North Franklin Street, Suite 150
 Tampa, FL 33602

Re: St. Pete-Clearwater International Airport – PTS Burdened Labor Rates

Dear Mr. Piro:

ECHO UES, Inc. (ECHO) is pleased to submit our fully burdened labor rates, inclusive of overhead and profit, in accordance with your request for labor rates for the St. Pete-Clearwater International Airport Runway 18-36 Rehabilitation project (Contract No.: 178-0102-NC (SS)). Please find the rates presented below in “Exhibit B”.

Exhibit B – PTS Labor Rates

Labor Category	Labor Rate
Project Manager	\$142.00/hr
Surveyor (PSM)	\$142.00/hr
CADD Technician	\$ 90.00/hr
Administrative	\$ 75.00/hr
SUE Designating Crew (2-man/8-hour day)	\$1,546.00/day
SUE Locating Crew (2-man/8-hour day)	\$1,858.00/day
Survey Crew - Utility Mapping (2-man/8-hour day)	\$1,200.00/day

Labor Rates are fully burdened with Overhead and Profit

Thank you for considering ECHO for your project, and please do not hesitate to contact me directly should you have any question or concern.

Sincerely,



Jerry Comellas, Jr., PE
 President
ECHO UES, Inc.

Exhibit C**GRANT FUNDING CONDITIONS**

This Agreement is either fully or partially grant funded. Consultants (also referred to as Contractors) shall also comply with the clauses enumerated below. If a clause enumerated below conflicts with the language above, the clauses enumerated below control. To the extent there are additional requirements as a condition of this grant, Consultants must also comply with the additional requirements, which shall be provided by the County if not contained herein.

ACCESS TO RECORDS AND REPORTS

The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the sponsor, the Federal Aviation Administration, and the Comptroller General of the United States or any of their duly authorized representatives, access to any books, documents, papers, and records of the contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

BREACH OF CONTRACT TERMS

Any violation or breach of terms of this contract on the part of the contractor or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

Owner will provide Consultant written notice that describes the nature of the breach and corrective actions the Consultant must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Consultant until such time the Consultant corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which the Consultant must correct the breach. Owner may proceed with termination of the contract if the Consultant fails to correct the breach by deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

GENERAL CIVIL RIGHTS PROVISIONS

The contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the contractor and subtier contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.

Exhibit C

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
 - a. Withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. Cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

TITLE VI LIST OF PERTINENT NONDISCRIMINATION ACTS AND AUTHORITIES

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);

Exhibit C

- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

CLEAN AIR AND WATER POLLUTION CONTROL

Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. § 740-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). The Contractor agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Contractor must include this requirement in all subcontracts that exceeds \$150,000.

CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS**1. Overtime Requirements.**

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; Liability for Unpaid Wages; Liquidated Damages.

In the event of any violation of the clause set forth in paragraph (1) of this clause, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.

Exhibit C**3. Withholding for Unpaid Wages and Liquidated Damages.**

The Federal Aviation Administration (FAA) or the Owner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this clause.

4. Subcontractors.

The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this clause.

DISADVANTAGED BUSINESS ENTERPRISES

Contract Assurance (§ 26.13) - The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate.

Prompt Payment (§26.29) - The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than thirty (30) days from the receipt of each payment the prime contractor receives from COUNTY. The prime contractor agrees further to return retainage payments to each subcontractor within thirty (30) days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the COUNTY. This clause applies to both DBE and non-DBE subcontractors.

TEXTING WHEN DRIVING

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 and involve driving a motor vehicle in performance of work activities associated with the project.

ENERGY CONSERVATION REQUIREMENTS

Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201 *et seq.*).

EQUAL OPPORTUNITY CLAUSE

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identify or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided, however,* That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

EEO SPECIFICATION**STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS**

1. As used in these specifications:

- a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
- b. "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;
- c. "Employer identification number" means the Federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
- d. "Minority" includes:
 - (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors shall be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in a geographical area where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the contractor has a collective bargaining agreement to refer either minorities or women shall excuse the contractor's obligations under these specifications, Executive Order 11246 or the regulations promulgated pursuant thereto.

Exhibit C

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the contractor during the training period and the contractor shall have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:

a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the contractor may have taken.

d. Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or female sent by the contractor, or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor shall provide notice of these programs to the sources compiled under 7b above.

f. Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with onsite supervisory personnel such as superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.

Exhibit C

- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students; and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
 - j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce.
 - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor union, contractor community, or other similar groups of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through 7p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, if the particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally,) the contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.
10. The contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

Exhibit C

13. The contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The *consultant* has full responsibility to monitor compliance to the referenced statute or regulation. The *consultant* must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970**CONTRACT CLAUSE**

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

SEISMIC SAFETY

In the performance of design services, the Consultant agrees to furnish a building design and associated construction specification that conform to a building code standard which provides a level of seismic safety substantially equivalent to standards as established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their building code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety. At the conclusion of the design services, the Consultant agrees to furnish the Owner a "certification of compliance" that attests conformance of the building design and the construction specifications with the seismic standards of NEHRP or an equivalent building code.

TERMINATION FOR CONVENIENCE

The Owner may, by written notice to the Consultant, terminate this Agreement for its convenience and without cause or default on the part of Consultant. Upon receipt of the notice of termination, except as explicitly directed by the Owner, the Contractor must immediately discontinue all services affected.

Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

TERMINATION FOR DEFAULT

Either party may terminate this Agreement for cause if the other party fails to fulfill its obligations that are essential to the completion of the work per the terms and conditions of the Agreement. The party initiating the termination action must allow the breaching party an opportunity to dispute or cure the breach.

The terminating party must provide the breaching party [7] days advance written notice of its intent to terminate the Agreement. The notice must specify the nature and extent of the breach, the conditions necessary to cure the breach, and the effective date of the termination action. The rights and remedies in this clause are in addition to any other rights and remedies provided by law or under this agreement.

- a) **Termination by Owner:** The Owner may terminate this Agreement in whole or in part, for the failure of the Consultant to:
1. Perform the services within the time specified in this contract or by Owner approved extension;
 2. Make adequate progress so as to endanger satisfactory performance of the Project;
 3. Fulfill the obligations of the Agreement that are essential to the completion of the Project.

Upon receipt of the notice of termination, the Consultant must immediately discontinue all services affected unless the notice directs otherwise. Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

If, after finalization of the termination action, the Owner determines the Consultant was not in default of the Agreement, the rights and obligations of the parties shall be the same as if the Owner issued the termination for the convenience of the Owner.

- b) **Termination by Consultant:** The Consultant may terminate this Agreement in whole or in part, if the Owner:
1. Defaults on its obligations under this Agreement;
 2. Fails to make payment to the Consultant in accordance with the terms of this Agreement;
 3. Suspends the Project for more than [180] days due to reasons beyond the control of the Consultant.

Upon receipt of a notice of termination from the Consultant, Owner agrees to cooperate with Consultant for the purpose of terminating the agreement or portion thereof, by mutual consent. If Owner and Consultant cannot reach mutual agreement on the termination settlement, the Consultant may, without prejudice to any rights and remedies it may have, proceed with terminating all or parts of this Agreement based upon the Owner's breach of the contract.

Exhibit C

In the event of termination due to Owner breach, the Engineer is entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all justified reimbursable expenses incurred by the Consultant through the effective date of termination action. Owner agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

VETERAN'S PREFERENCE

In the employment of labor (excluding executive, administrative, and supervisory positions), the contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 U.S.C. 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

Exhibit D

Florida Department of Transportation Funding

This project is being funded in part by a Grant from the Florida Department of Transportation (FDOT). The contractor must abide by the following contract provisions:

Equal Employment Opportunity: In connection with the carrying out of this Project, the contractor shall not discriminate against any employee or applicant for employment because of race, age, creed, color, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, age, creed, color, sex, or national origin. Such action shall include, but not be limited to, the following: Employment upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor shall insert the foregoing provision modified only to show the particular contractual relationship in all its subcontracts in connection with the development or operation of the Project, except subcontracts for the standard commercial supplies or raw materials, and shall require all such subcontractors to insert a similar provision in all subcontracts, except subcontracts for standard commercial supplies or raw materials. When the Project involves installation, construction, demolition, removal, site improvement, or similar work, the Contractor shall post, in conspicuous places available to employees and applicants for employment for Project work, notices to be provided by the Department setting forth the provisions of the nondiscrimination clause.

Title VI - Civil Rights Act of 1964: The Contractor will comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 USC 2000d, et. seq), the Regulations of the Federal Department of Transportation issued thereunder, and the assurance by the Contractor pursuant thereto.

Title VIII - Civil Rights Act of 1968: The Contractor will comply with all the requirements imposed by Title VIII of the Civil Rights Act of 1968, (42 USC 3601, et seq.,) which among other things, prohibits discrimination in housing on the basis of race, color, national origin, creed, sex and age.

Americans with Disabilities Act of 1990 (ADA): The Contractor will comply with all the requirements imposed by the ADA (42 USC 12012. et. Seq.) the regulations of the federal government issued thereunder, and the assurance by the Contractor pursuant thereto.

Disadvantaged Business Enterprise (DBE) Policy and Obligation:

DBE Policy: It is the policy of the FDOT Grant that Disadvantaged Business Enterprises (DBE) as defined in 49 CFR Part 26, as amended, shall have the equal opportunity to participate in the performance of contracts financed in whole or in part with FDOT funds. The DBE requirements of 49 CFR Part 26, as amended, apply to this contract.

DBE Obligation: The Contractor agrees to ensure that Disadvantaged Business Enterprises as defined in 49 CFR Part 26, as amended, have the equal opportunity to participate in the performance of this contract. In this regard, the contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26, as amended, to ensure that the Disadvantaged Business Enterprises have the maximum opportunity to compete for and perform this contract. The contractor and their subcontractors shall not discriminate on the basis of race, color, national origin or sex in the award and performance of this contract.

Exhibit D

The contractor shall not discriminate on the basis of race color national origin or sex in the award and performance of any DOT assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26 The contractor shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT assisted contracts The airport's DBE program goal as required by 49 CFR part 26 and as approved by DOT is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this contract. Upon notification to the contractor of its failure to carry out its approved program the County may impose sanctions as provided for under part 26 and may in appropriate cases refer the matter for enforcement under 18USC1001 and/or the Program Fraud Civil Remedies Act of 1986 (31USC3801 et seq.)

E-Verify

The contractor 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 Vendor/Contractor during the term of the contract; and

Shall expressly require any subcontractors performing work or providing services pursuant to this contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

1. INSURANCE:

- a) If Consultant does not currently meet insurance requirements, Consultant shall also include verification from their broker or agent that any required insurance not provided at that time of submittal will be in place within 10 days after award recommendation.
- b) Within 10 days of **contract award** and prior to commencement of work, Proposer shall email certificate that is compliant with the insurance requirements to InsuranceCerts@Pinellascounty.org. If certificate received with proposal was a compliant certificate no further action may be necessary. It is imperative that proposer include the unique identifier, which will be supplied by the County's Purchasing Department. The Certificate(s) of Insurance shall be signed by authorized representatives of the insurance companies shown on the Certificate(s). **A copy of the endorsement(s) referenced in paragraph 3.(d) for Additional Insured shall be attached to the certificate(s) referenced in this paragraph.**
- c) No work shall commence at any project site unless and until the required Certificate(s) of Insurance are received and approved by the County. Approval by the County of any Certificate(s) of Insurance does not constitute verification by the County that the insurance requirements have been satisfied or that the insurance policy shown on the Certificate(s) of Insurance is in compliance with the requirements of the Agreement. County reserves the right to require a certified copy of the entire insurance policy, including endorsement(s), at any time during the RFP and/or contract period.
- d) All policies providing liability coverage(s), other than professional liability and workers compensation policies, obtained by the Proposer and any subcontractors to meet the requirements of the Agreement shall be endorsed to include Pinellas County Board of County Commissioners as an Additional Insured.
- e) If any insurance provided pursuant to the Agreement expires prior to the completion of the Work, renewal Certificate(s) of Insurance and endorsement(s) shall be furnished by the Proposer to the County at least thirty (30) days prior to the expiration date.
 - (1) Proposer shall also notify County within twenty-four (24) hours after receipt, of any notices of expiration, cancellation, nonrenewal or adverse material change in coverage received by said Proposer from its insurer. Notice shall be given by certified mail to: **Pinellas County Risk Management 400 South Fort Harrison Ave Clearwater FL 33756**; be sure to include your organization's unique identifier, which will be provided upon notice of award. Nothing contained herein shall absolve Proposer of this requirement to provide notice.
 - (2) Should the Proposer, at any time, not maintain the insurance coverages required herein, the County may terminate the Agreement, or at its sole discretion may purchase such coverages necessary for the protection of the County and charge the Proposer for such purchase or offset the cost against amounts due to proposer for services completed. The County shall be under no obligation to purchase such insurance, nor shall it be responsible for the coverages purchased or the insurance company or companies used. The decision of the County to purchase such insurance shall in no way be construed to be a waiver of any of its rights under the Agreement.
- f) The County reserves the right, but not the duty, to review and request a copy of the Contractor's most recent annual report or audited financial statement when a self-insured retention (SIR) or deductible exceeds \$50,000.

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- g) If subcontracting is allowed under this RFP, the Prime Proposer shall obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth; and require any subcontractors to obtain and maintain, at all times during its performance of the Agreement, insurance limits as it may apply to the portion of the Work performed by the subcontractor; *but in no event will the insurance limits be less than \$500,000 for Workers' Compensation/Employers' Liability, and \$1,000,000 for General Liability and Auto Liability if required below.*
- (1) All subcontracts between Proposer and its subcontractors shall be in writing and may be subject to the County's prior written approval. Further, all subcontracts shall (1) require each subcontractor to be bound to Proposer to the same extent Proposer is bound to the County by the terms of the Contract Documents, as those terms may apply to the portion of the Work to be performed by the subcontractor; (2) provide for the assignment of the subcontracts from Proposer to the County at the election of Owner upon termination of the Contract; (3) provide that County will be an additional indemnified party of the subcontract; (4) provide that the County will be an additional insured on all insurance policies required to be provided by the subcontractor except workers compensation and professional liability; (5) provide waiver of subrogation in favor of the County and other insurance terms and/or conditions as outlined below; (6) assign all warranties directly to the County; and (7) identify the County as an intended third-party beneficiary of the subcontract. Proposer shall make available to each proposed subcontractor, prior to the execution of the subcontract, copies of the Contract Documents to which the subcontractor will be bound by this Section C and identify to the subcontractor any terms and conditions of the proposed subcontract which may be at variance with the Contract Documents.
- h) Each insurance policy and/or certificate shall include the following terms and/or conditions:
- (1) The Named Insured on the Certificate of Insurance and insurance policy must match the entity's name that responded to the solicitation and/or is signing the agreement with the County. If Proposer is a Joint Venture per Section A. titled Joint Venture of this RFP, Certificate of Insurance and Named Insured must show Joint Venture Legal Entity name and the Joint Venture must comply with the requirements of Section C with regard to limits, terms and conditions, including completed operations coverage.
- (2) Companies issuing the insurance policy, or policies, shall have no recourse against County for payment of premiums or assessments for any deductibles which all are at the sole responsibility and risk of Contractor.
- (3) The term "County" or "Pinellas County" shall include all Authorities, Boards, Bureaus, Commissions, Divisions, Departments and Constitutional offices of County and individual members, employees thereof in their official capacities, and/or while acting on behalf of Pinellas County.
- (4) The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by County or any such future coverage, or to County's Self-Insured Retentions of whatever nature.
- (5) All policies shall be written on a primary, non-contributory basis.

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- (6) Any Certificate(s) of Insurance evidencing coverage provided by a leasing company for either workers compensation or commercial general liability shall have a list of covered employees certified by the leasing company attached to the Certificate(s) of Insurance. The County shall have the right, but not the obligation to determine that the Proposer is only using employees named on such list to perform work for the County. Should employees not named be utilized by Proposer, the County, at its option may stop work without penalty to the County until proof of coverage or removal of the employee by the contractor occurs, or alternatively find the Proposer to be in default and take such other protective measures as necessary.
- (7) Insurance policies, other than Professional Liability, shall include waivers of subrogation in favor of Pinellas County from both the Proposer and subcontractor(s).
- i) The minimum insurance requirements and limits for this Agreement, which shall remain in effect throughout its duration and for two (2) years beyond final acceptance for projects with a Completed Operations exposure, are as follows:

(1) Workers' Compensation Insurance

Limit	Florida Statutory
<u>Employers' Liability Limits</u>	
Per Employee	\$ 500,000
Per Employee Disease	\$ 500,000
Policy Limit Disease	\$ 500,000

- (2) Commercial General Liability Insurance including, but not limited to, Independent Contractor, Contractual Liability Premises/Operations, Products/Completed Operations, and Personal Injury.

Limits	
Combined Single Limit Per Occurrence	\$ 1,000,000
Products/Completed Operations Aggregate	\$ 2,000,000
Personal Injury and Advertising Injury	\$ 1,000,000
General Aggregate	\$ 2,000,000

- (3) Business Automobile or Trucker's/Garage Liability Insurance covering owned, hired, and non-owned vehicles. If the Consultant does not own any vehicles, then evidence of Hired and Non-owned coverage is sufficient. Coverage shall be on an "occurrence" basis, such insurance to include coverage for loading and unloading hazards, unless Consultant can show that this coverage exists under the Commercial General Liability policy.

Limit	
Combined Single Limit Per Accident	\$ 1,000,000

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- (4) Excess or Umbrella Liability Insurance excess of the primary coverage required, in paragraphs (1), (2), and (3) above. No exclusion for work at airport.

Limits

Each Occurrence	\$ 4,000,000
General Aggregate	\$ 4,000,000

- (5) Professional Liability (Errors and Omissions) Insurance with at least minimum limits as follows. If “claims made” coverage is provided, “tail coverage” extending three (3) years beyond completion and acceptance of the project with proof of “tail coverage” to be submitted with the invoice for final payment. In lieu of “tail coverage”, Consultant may submit annually to the County, for a three (3) year period, a current certificate of insurance providing “claims made” insurance with prior acts coverage in force with a retroactive date no later than commencement date of this contract.

Limits

Each Occurrence or Claim	\$ 5,000,000
General Aggregate	\$ 5,000,000

For acceptance of Professional Liability coverage included within another policy required herein, a statement notifying the certificate holder must be included on the certificate of insurance and the total amount of said coverage per occurrence must be greater than or equal to the amount of Professional Liability and other coverage combined.

- (6) Pollution Legal/Environmental Legal Liability Insurance for pollution losses arising from all services performed to comply with this contract. Coverage shall apply to sudden and gradual pollution conditions including the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gases, waste materials or other irritants, contaminants or pollutants into or upon land, the atmosphere or any watercourse or body of water, which results in Bodily Injury or Property Damage. If policy is written on a Claims Made form, a retroactive date is required, and coverage must be maintained for 3 years after completion of contract or “tail coverage must be purchased. Coverage should include and be for the at least the minimum limits listed below:

- 1) Bodily injury, sickness, disease, mental anguish or shock sustained by any person, including death; property damage including physical injury to or destruction of tangible property including the resulting loss of use thereof, clean up costs, and the loss of use of tangible property that has not been physically injured or destroyed;
- 2) Defense including costs, charges and expenses incurred in the investigation, adjustment or defense of claims for such compensation damages.
- 3) Cost of Cleanup/Remediation.

Limits

Per Claim or Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

For acceptance of Pollution Legal/Environmental Legal Liability coverage included within another policy coverage required herein, a statement notifying the certificate holder must be included on the certificate of insurance and the total amount of said coverage per occurrence must be greater than or equal to the amount of Pollution Legal/Environmental Legal Liability and other coverage combined.

- (7) Property Insurance Proposer will be responsible for all damage to its own property, equipment and/or materials.