

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: Cargo Apron Reconstruction and Replacement of Runway 9-27 with a Taxiway - Professional Engineering Services

RFP CONTRACT NO. 21-0546-NC (SS)

NON-CONTINUING FIRM: Michael Baker International, Inc.

PROFESSIONAL ENGINEERING SERVICES NON-CONTINUING SERVICES AGREEMENT

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**SECTION 1
INTENT OF AGREEMENT**

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR
Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway –
Professional Engineering Services**

THIS AGREEMENT, entered into on the 7 day of Dec. , 2021, 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, Michael Baker International, 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 **Cargo Apron Reconstruction and Replacement of Runway 9-27 with a Taxiway project at the St. Pete-Clearwater International Airport, located in 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. Required deliverables are outlined in **Exhibit A**, Scope of Services.

2.2 PROJECT PHASES

All project phases shall be completed on or before the milestone dates provided in the COUNTY approved PROJECT design schedule referenced in **Exhibit A**, Scope of Services.

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.

The CONSULTANT shall be responsible for the review of the contractor's construction schedule, which shows a breakdown of all construction tasks to be performed, and their relationship in achieving the completion of each construction 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 construction PROJECT Notice to Proceed. 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 travel drives 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 two travel drives, Microsoft Word & Excel format as required, as well as the reproducible hard copies.

2.4.3 Required design data, plans, drawing, specifications and other document deliverables are outlined in Exhibit A, Scope of services.

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

2.5.1 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.

2.5.2 The Contractor and Subcontractor must register with and use the E-verify system in accordance with Florida Statute 448.095. The County will verify the work authorization of the Contractor and Subcontractor. A Contractor and Subcontractor may not enter into a contract with the County unless each party registers with and uses the E-verify system.

If a Contractor enters a contract with a Subcontractor, the Subcontractor must provide the Contractor with an affidavit stating that the Subcontractor does not employ, contract with, or subcontract with unauthorized aliens. The Contractor must maintain a copy of the affidavit for the duration of the contract.

If the County, Contractor, or Subcontract has a good faith belief that a person or entity with which it is contracting has knowingly violated Florida Statute 448.09(1) shall immediately terminate the contract with the person or entity.

If the County has a good faith belief that a Subcontractor knowingly violated this provision, but the Contractor otherwise complied with this provision, the County will notify the Contractor and order that the Contractor immediately terminate the contract with the Subcontractor.

A contract terminated under the provisions of this section is not a breach of contract and may not be considered such. Any contract termination under the provisions of this section may be challenged to Section 448.095(2)(d), Florida Statute. Contractor acknowledges upon termination of this agreement by the County for violation of this section by Contractor, Contractor may not be awarded a public contract for at least one (1) year. Contractor acknowledges that Contractor is liable for any additional costs incurred by the County as a result of termination of any contract for a violation of this section.

Contractor or Subcontractor shall insert in any subcontracts the clauses set forth in this section, requiring the subcontracts to include these clauses in any lower tier subcontracts. Contractor shall be responsible for compliance by any Subcontractor or Lower Tier Subcontractor with the clause set forth in this section.

- 2.5.3 Supplier acknowledges and warrants that all digital content and services provided under this contract conforms and shall continue to conform during the Term of this Agreement to the W3C Web Content Accessibility Guidelines, version 2.0 (“WCAG 2.0”) at conformance Level A and AA. If all digital content and services does not fully conform to WCAG 2.0 A and AA, Supplier shall advise Pinellas County in writing of the nonconformance prior to execution of this Agreement and shall provide Pinellas County a plan to achieve conformance to WCAG 2.0 A and AA, including but not limited to, an intended timeline for conformance. Failure to achieve conformance, as determined in Pinellas County’s sole discretion, on its intended timeline shall be considered a material breach of this Agreement and grounds for termination by Pinellas County.

If during the Term of this Agreement, Supplier fails to maintain compliance with WCAG 2.0 A and AA or Pinellas County otherwise identifies an issue related to accessibility of the product (the “Accessibility Issue”) that renders the product inaccessible, then Pinellas County shall notify Supplier of non-compliance. Within 30 days of Supplier’s receipt of a non-compliance notice (“Notice”), Supplier and Pinellas County shall meet and mutually agree upon an appropriate timeline for resolution of the Accessibility Issue(s) (“Initial Meeting”).

Should Supplier:

- i. fail to acknowledge receipt of the notice within 30 days of receipt of the Notice;
- ii. unreasonably and solely withhold agreement regarding a timeline for resolution for more than 30 days following the Initial Meeting; or
- iii. fail to materially resolve the Accessibility Issue(s) within the agreed-upon timeline,

Failure to comply with the requirements of this section shall constitute a material breach of this Agreement and shall be grounds for termination of this Agreement by Pinellas County and subject Supplier to section 15 of this Agreement, “Indemnification.”

SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT

3.1 SEE EXHIBIT A – SCOPE OF SERVICES.

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 Consultant. The CONSULTANT also, shall provide an electronic set of all applicable documents, including plans and specifications. Construction plan sheets shall be signed, sealed and dated. The title sheet only of the specifications sets shall be signed, sealed and dated.

3.2.1 The CONSULTANT, following the COUNTY’S review of the Construction Documents and of the latest Statement 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, and shall prepare a Bid Tabulation spreadsheet 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. Provide conformed signed and sealed plans and specifications in electronic PDF format to the Contractor. Provide three (3) printed 11x17 signed and sealed conformed plan sets and three (3) printed 8.5x11 conformed specification sets to the owner.
2. Processing, review, approval and distribution of shop drawings, product data, samples and other submittals required by the Contract Documents.
3. Maintenance of master file of submittals with duplicate for COUNTY.
4. 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.
5. Review for comment or approval any and all proposal requests, supplemental drawings and information and change orders.
6. Review for correctness Contractors pay requests for the COUNTY.
7. 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.
8. Review, upon notice by the Contractor that work is ready for final inspection and acceptance.
9. Notify the COUNTY of any deficiencies found in follow-up reviews.
10. Evaluate all testing results and make recommendations to the COUNTY.
11. Assist in the establishment by the COUNTY of programs of operation and maintenance of the physical plant and equipment.
12. Arrange for and coordinate instructions on operations and maintenance of equipment in conjunction with manufacturer's representatives.
13. Prepare an operation and maintenance manual for the COUNTY'S use.
14. 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.
15. Assistance in the training of the facility operation and maintenance personnel in proper operations, schedules, procedures and maintenance inventory.
16. 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 three

(3) 11x17 sets of signed and sealed prints, one (1) electronic (PDF) set of signed and sealed prints and one (1) CADD disk of the as-built record construction documents.

17. Transmit certified as-built record drawings and general data, appropriately identified, to the COUNTY within thirty (30) days following completion of construction.
18. 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.
19. Review facilities or equipment prior to expiration of warranty period(s) to ascertain adequacy of performance, materials, systems and equipment.
20. Document noted defects or deficiencies and assist the COUNTY in preparing instructions to the Contractor for correction of noted defects.
21. The Contractor shall provide the CONSULTANT with all the required project close out material for CONSULTANT'S use in the warranty period services.
22. 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. Electronic copies of the design notes and computations shall be submitted to the COUNTY with the design development review plans and specifications. Required design development review plan and specification deliverables are outlined in Exhibit A, Scope of Services. 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) Roadway geometric calculations
 - 3) Structural calculations.
 - 4) Drainage calculations.
 - 5) Traffic design calculations
 - 6) Traffic control calculations
 - 7) Calculations as required by provisions of the Florida Energy Conservation Manual (Department of General Services), latest revision.
 - 8) Calculations showing probable cost comparisons of various alternatives considered.
 - 9) Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
 - 10) 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.
- E. The COUNTY will pay for permit review fees.

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

The services below shall be provided to the COUNTY, but are not limited to the following:

- 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 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 Bi-Weekly 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 Director of the Airport, or designee.

6.3 CONTINGENCY SERVICES

When authorized in writing by the COUNTY'S Director of 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.

- A. Pavement Marking Support (Siteline) – not to exceed **ten thousand eight hundred dollars (\$10,800.00)**
- B. Quality Assurance Materials Testing (Mc2) – not to exceed **ninety seven six hundred and ninety dollars (\$97,690.00)**
- C. Payment of the Public Information Meeting Advertisements (if required).
- D. Payment of the Court Reporter for public meetings (if required).

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, Angela Dunkel.

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
727-464-8389
FinanceAccountsPay@MyPinellasClerk.org

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 3.1 and Exhibit A, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: Two hundred forty-nine thousand five hundred twenty dollars and 74/100 (\$249,520.74) for Task 1 – Phase 1 Design Data Collection.
- A Lump Sum Fee of: One hundred thousand nine hundred fifty-four dollars and 00/100 (\$100,954.00) for Task 2 - Phase 2 Conceptual Design and Stormwater Treatment Study.
- A Lump Sum Fee of: One hundred thirty five thousand seven hundred fifty-two dollars and 19/100 (\$135,752.19) for Task 3 – Phase 3 Preliminary Design (30%).
- A Lump Sum Fee of: Two hundred seven thousand one hundred seventy-two dollars and 08/100 (\$207,172.08) for Task 4 – Phase 4 Engineering Design (60%).
- A Lump Sum Fee of: One hundred fifty-eight thousand two hundred seventy-four dollars and 66/100 (\$158,274.66) for Task 5 – Phase 5 Final Design (90%).
- A Lump Sum Fee of: Eighty thousand seventy-one dollars and 45/100 (\$80,071.45) for Task 6 – Phase 6 Design Bid Documents (100%).
- A Lump Sum Fee of: Twenty-two thousand one hundred forty and 53/100 (\$22,140.53) for Task 7 – Phase 7 Design Bidding.
- A Lump Sum Fee of: Two hundred thousand two hundred ninety dollars and 80/100 (\$200,290.80) for Task 8 – Phase 8 Construction Services/Construction Administration.
- A Lump Sum Fee of: Four hundred twelve thousand one hundred ninety-two dollars and 00/100 (\$412,192.00) for Task 9 – Phase 9 Construction Services/Construction Management and RPR.

The above fees shall constitute the total not to exceed amount of **one million five hundred sixty-six thousand three hundred sixty-eight dollars and 45/100 (\$1,566,368.45)** 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 REIMBURSABLE SERVICES provided for in the Agreement, as defined in Section 6.5, the COUNTY agrees to pay the CONSULTANT as follows:

- A Not to Exceed Fee of: Ten thousand eight hundred dollars and 00/100 (\$10,800.00) for Pavement Marking Support performed by Sightline during Task 9 – Phase 9 Construction Services/Construction Management and RPR.
- A Not to Exceed Fee of: Ninety-seven thousand six hundred ninety dollars and 00/100 (\$97,690.00) for Quality Assurance Materials Testing performed by MC² during Task 9 – Phase 9 Construction Services/Construction Management and RPR.

The above fees shall constitute the total not to exceed amount of **one hundred eight thousand four hundred ninety dollars and 00/100 (\$108,490.00)** to the CONSULTANT for the performance of Reimbursable Services. 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.

7.3 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 **fifty thousand dollars (\$50,000.00)** for 1.6 Optional Conventional Survey, 3.3 SUE and Vertical Locates and/or 11.1 QA As-Built Surveying.

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 and ten thousand (\$110,000.00)** for all assignments performed.

7.5 Total agreement not-to-exceed amount **one million eight hundred thirty-four thousand eight hundred fifty-eight and 45/100 (\$1,834,858.45)**.

7.6 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.

7.7 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 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 subconsultants, shall be performed to the reasonable satisfaction of the COUNTY'S Director of 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, subconsultant 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 Consultant 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 or is qualified 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 Consultant 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 **seven hundred and fifty (750)** consecutive calendar days 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**

Consultant 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 Consultant 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
CONTRACT PROVISIONS**

The CONSULTANT acknowledges that there may be Federal and/or State requirements for the services related to this Agreement. These additional contract provisions, include but are not limited to those shown in the Exhibits incorporated into this Agreement.

**SECTION 29
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: Michael Baker International, Inc.

PINELLAS COUNTY, by and through its Board of County Commissioners

By: [Signature]
Print Name: R. Mark Pitchford
Title: Vice President Date: 11/12/21

By: [Signature: Dave Egus]
Name Date: 12/7/2021
Chairman

ATTEST:
Ken Burke, Clerk of the Circuit Court



By: [Signature: Ken Burke]
Deputy Clerk Date: 12/7/2021

APPROVED AS TO FORM
By: Jacina Parson
Office of the County Attorney



EXHIBIT A SCOPE OF SERVICES

Exhibit A - Scope of Work
Cargo Apron Reconstruction & Replacement
For Runway 9-27 with a Taxiway
St. Pete-Clearwater International Airport (PIE)
October 29, 2021

Cargo Apron Reconstruction & Replacement for Runway 9-27 with a Taxiway St. Pete-Clearwater International Airport (PIE) **Design, Bidding, Construction Administration, and** **Construction Management Services**

Project Description

The St. Pete-Clearwater International Airport and Pinellas County (OWNER) has selected Michael Baker International, Inc. (CONSULTANT) to perform airfield engineering, design, bidding, construction administration, construction management, and RPR services and the management of those services to construct the Cargo Apron Reconstruction & Replacement for Runway 9-27 with a Taxiway (PROJECT).

The project is divided into two (2) distinct project areas as shown in **Figure 1**: Project Area 1 - Cargo Apron Reconstruction, and Project Area 2 - Replacement for Runway 9-27 with a Taxiway. Project Area 1 will be funded by an FDOT Strategic Intermodal System (SIS) Grant. Project Area 2 will be funded by Passenger Facility Charges (PFCs). Therefore, design and construction costs for each project area will be tracked separately. FAA AIP Grant funding is not being pursued for this project; therefore, the design schedule will not be dictated by the FAA AIP Grant application deadline.

Project Area 1 – Cargo Apron Reconstruction

The existing Cargo Apron is mostly Asphalt Concrete over Portland Cement Concrete (PCC), but also includes three (3) PCC hardstands. This pavement section will be reconstructed full depth with a new PCC pavement section. Construction phasing is required to maintain the use of at least one (1) aircraft parking position and maintain space for Allegiant Airlines ground support equipment (GSE) throughout construction. At this time, it is expected that Pad 12 will be reconstructed alone and Pads 13 and 14 together. The apron will be designed for Airplane Design Group (ADG) III aircraft to include the Airbus A319/A320 and an undetermined cargo aircraft. Project Area 1 will include:

- Existing Asphalt and concrete pavement demolition (14,800 SY)
- New concrete pavement (13,200 SY)
- New asphalt overlay (1,600 SY)
- Drainage adjustments (potentially)
- New pavement markings to include:
 - Re-striping of Pad 11 GSE and stop bar markings
 - Re-striping of lead-in lines for Pads 11-14
 - Re-striping the non-movement line from Gate “P” extending to Pad 1A
- The overall east-west dimension of the apron will be evaluated to determine if a parking position can be added
- High-mast lighting

Project Area 2 – Replacement for Runway 9-27 with a Taxiway

The decommissioned Runway 9-27 will be demolished between Taxiway B and Runway 18-36. New Taxiways C and A4 will be constructed in generally the same area. Taxiway C will be designed for ADG III aircraft (A319/A320) – 50ft wide with turfed shoulders. Taxiway A4 will be designed to the same geometric standards as the other connector taxiways to Runway 18-36 (ADG V / TDG 5 and will include 30-ft paved shoulders. Construction phasing for Taxiway C will be required to minimize or avoid impact to Taxiways A and B. Construction phasing for Taxiway A4 will be required to avoid or minimize impact to Runway 18-36 and Taxiway A. Project Area 2 will include:

- Asphalt pavement demolition (37,700 SY)
- New asphalt pavement
 - Taxiway C (50 ft wide X 1,650 ft long)
 - Taxiway A4 (75 ft wide with 30 ft wide paved shoulder X 380 ft long)
- Drainage adjustments
- New pavement markings
- Airfield lighting and signage
 - New edge lights and signage for Taxiways C and A4
 - Demolition and reconfiguration of existing edge lights and signage impacted by Taxiways C and A4
 - Demolition of existing PAPI, edge lights, and underground conduits/cable for Runway 9-27
 - New Taxiway C Circuit and connection to (or extension of) the homerun duct bank
 - Changing sign panels or replacing signs – Taxiways A4-A7
 - Minor adjustments within the new airfield lighting vault
 - Airfield Lighting Control and Monitoring (ALCMS) updates
- Electrical and/or NAVAID adjustments

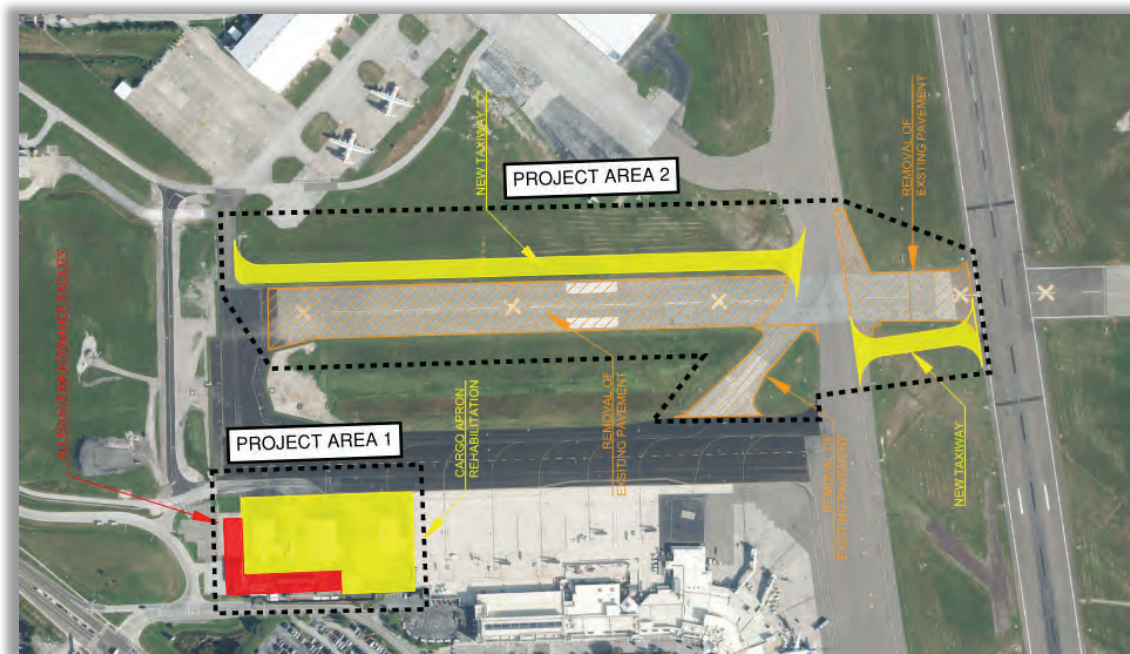


Figure 1 – Project Limits



Project Team

The Team of consultants being used for this project and their general roles are listed below:

Firm	Responsibilities	Applicable Project Areas
Michael Baker	Project Management, Mobile LiDAR, Airfield Engineering, Construction Phasing, Drainage Engineering, SWFWMD Permitting, Electrical Support, Bidding Support, Construction Administration, Construction Management and RPR	Both Project Areas
Bluewing	Environmental Support – Ponds and Wildlife Attractants, FAA Coordination	Project Area 2 Only
Echo UES	Subsurface Utility Engineering, Conventional Survey	Both Project Areas
Landis Evans	Drainage Support, Pinellas County Permitting	Both Project Areas
MC Squared	Geotechnical Investigation, Material Reuse	Both Project Areas
The Ohmega Group	Airfield Lighting Lead, High-Mast Lighting, Static Grounding, Bidding and Construction Support	Both Project Areas
Sightline	Pavement Marking, Construction Support, Quality Control	Both Project Areas

Scope Organization

This scope of work has been dividing into the following phases, listed in the anticipated chronological order:

- Phase 1 – Data Collection
- Phase 2 – Conceptual Design and Stormwater Treatment Study
- Phase 3 – Preliminary Design Phase (30%)
- Phase 4 – Engineering Phase (60%)
- Phase 5 – Final Design Phase (90%)
- Phase 6 – Bid Documents Phase (100%)
- Phase 7 – Bidding Phase
- Phase 8 – Construction Phase / Construction Administration
- Phase 9 – Construction Phase / Construction Management & RPR
- Phase 10 – Construction Phase / QA Materials Testing
- Phase 11 – Quality Assurance As-Built Survey (Optional Service)

Phases 8 and 9 were coordinated to eliminate overlap of the manhours required between those two phases. This was done by reducing tasks that would normally be included in Phase 9 that are already covered in Phase 8 and reducing the hours required for some of the tasks in Phase 8.



Separation of Professional Fees

As previously stated, costs are being tracked separately for Project Areas 1 and 2. This includes both engineering and construction costs. Therefore, a separate manhour fee estimate (professional fees) is provided for each project area, respectively. Each of the eleven (11) phases listed above and the tasks described below generally represent both project areas. Tasks that only apply to one of the project areas are identified in the task titles. The manhour fee proposal for Project Area 1 is provided as **Project Area 1 – Cargo Apron Reconstruction**. The manhour fee proposal for Project Area 2 is provided as **Project Area 2 – Replacement for Runway 9-27 with a Taxiway**.

Phase 1 – Data Collection

1.1 Internal Project and Contract Management

This task includes the internal management of the contract including accounting, cost tracking, billing, filing, and record keeping. CONSULTANT will prepare and maintain the Project Management and Quality Management Plans for the project. During this phase, CONSULTANT will assign tasks to appropriate internal production staff and monitor schedule and confirm internal quality control procedures are being followed. CONSULTANT will monitor and control budget and schedule. CONSULTANT will prepare, submit, and track invoices to OWNER and receive and process subconsultant invoices.

Deliverables: Invoices with Progress Reports (electronic pdf format); Quality Control Documentation, Project Management Plan, and Quality Management Plan (electronic pdf format – upon request)

1.2 Owner, Stakeholder, and Subconsultant Coordination

CONSULTANT will maintain communications and coordination with OWNER, Stakeholders, and Subconsultants throughout this phase, including monthly project status updates. All coordination with Stakeholders shall be directed through the OWNER'S designated Point of Contact. CONSULTANT will maintain communications and coordination with up to four (4) subconsultant firms during this phase. Task will include coordinating schedule and site activities and deliverables with overall project schedule and with OWNER.

Deliverables: Email correspondence (upon request)

1.3 Review of Pertinent Documents

CONSULTANT will review all available documents, as-built information, and associated engineering calculations that are pertinent to this project. This will include efforts by the following firms:

- Michael Baker
- Bluewing
- Landis Evans
- Ohmega



The pertinent document review will include the following, to be provided by OWNER:

- 2020 Master Plan
- 2020 Airport Layout Plan
- 2020 Master Drainage Plan
 - Includes ICPR Drainage Model
- Sheltair Leasehold Exhibit
- New Sheriff's Hangar Exhibit
- Latest FDOT Pavement Management Report
- Pinellas County GIS – Existing Utilities
- Design Plans and Engineers' Reports
 - New Airfield Lighting Vault
- As-Built Plans and Engineers' Reports
 - Taxiway Rehabilitation Phase 1
 - Taxiway Rehabilitation Phase 2
 - Apron Hardstand (Gates 7-11)
 - High-Mast Lighting (Gates 7-11)
 - Runway 9-27
 - Taxiway D

Deliverables: None

1.4 Data Collection Escort

CONSULTANT will provide a badged escort onsite during Mobile LiDAR, Survey, SUE, and Geotechnical field work. The escort will be present onsite for up to 10 hours per day for up to 29 days and will communicate directly with the tower and monitor field crews so that they remain in authorized areas.

Deliverables: None

1.5 Mobile LiDAR (Collect Entire Airfield, Process Project Sites Only)

CONSULTANT will perform Mobile Light Detection and Ranging (LiDAR) scanning utilizing a Teledyne-Optech LYNX SG1 Mobile Mapping System with integrated FLIR Ladybug5 panoramic camera system. Mobile LiDAR will be performed over the areas shown in **Figures 2 and 3**. Prior to mobilization, CONSULTANT will provide OWNER with a detailed data collection plan delineating survey area, desired driving routes and estimates for timing in various survey areas. CONSULTANT will coordinate logistics with OWNER and determine escort requirements and ideal collection days and times to minimize airfield operations to the greatest extent possible.

Following data collection, the LiDAR point cloud and imagery will be calibrated and processed..to ensure proper sensor alignment and LiDAR colorization. The data collected for the entire airfield will be integrated into CONSULTANT's online webservice and hosted for a period of 2 years following publication for OWNER and CONSULTANT to utilize. LiDAR point clouds will only be processed for Project Areas 1 and 2 as shown in Figure 2. Point cloud processing of the remaining airfield is excluded from this scope of services and can be processed later, on a case-by-case basis.



Project mapping will be developed using Mobile LiDAR technology, augmented with traditional survey, to produce CAD deliverables according to the FAA AC 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic information System (GIS) Standards.

The initial mapping produced will be engineering mapping using the layer scheme of FAA AC 150/5300-18B and blocks from our standard library. The mapping that will be provided under this contract does not include safety critical data, NAVAIDs, or obstructions. This mapping will not be attributed, will not be translated to GIS, and it will not be submitted to the FAA AGIS web site. The mapping included in this Scope of Work will include all above ground, visible features, except for those listed above, that are listed in Chapter 5 of FAA AC 150/5300-18B.

Meetings: This task includes a hybrid meeting before performing the mobile LiDAR to include the CONSULTANT's Project Manager in person and the CONSULTANT's Mobile LiDAR Specialist virtually.

Deliverables: Pre-collection data collection plan (PDF format), 3D planimetric features - 0.2' contours for pavement, 0.5' contours elsewhere (AutoCAD DWG format), Digital Terrain Model (DTM) with breaklines - 5-ft gridded surface (LandXML format), field report w/ photographs (PDF format), GPS log sheets (PDF format), meeting agenda and minutes

1.6 Conventional Survey – Echo UES

CONSULTANT will provide a subconsultant to perform a conventional topographic survey covering the area shown in **Figure 2**. This survey will include topography in areas inaccessible by the Mobile LiDAR as well as drainage structure tops, drainage pipe invert elevations, and drainage pipe sizes throughout the project area. The conventional survey will also locate horizontal and vertical locations and sizes of existing underground utilities where applicable. See **Task 1.7** for more information. In support of Mobile LiDAR activities, subconsultant will perform supplemental surveying to establish survey control for the LiDAR survey. Subconsultant will collect approximately 27 evenly distributed control points within the primary survey area. These control points will consist of existing airport features collected by the mobile LiDAR unit - including paint markings, manholes and/or lights - and will be collected using GNSS- RTK methodologies for horizontal positioning and leveling for elevation. This task is detailed in the attached subconsultant proposal.

Meetings: This task includes one (1) in-person meeting before performing the Survey, SUE, and Geotechnical Investigations (combined with **Tasks 1.7 and 1.8**). The meeting will include CONSULTANT's Project Manager and a subconsultant representative for each of the three (3) data collection activities.

Deliverables: Topographic survey drawing (Electronically signed and sealed PDF format and AutoCAD DWG format; 3 signed and sealed hard copies (22x34 size)), meeting agenda and minutes



1.7 Subsurface Utility Engineering (SUE), Horizontal Locates – Echo UES

CONSULTANT will provide a subconsultant to perform a SUE within the limits shown in **Figure 2**. Only horizontal utility, drainage pipe, and underground airfield electrical locations will be identified within the limits shown. Metal detection and other means may be used for horizontal locates. Locates will be done prior to the Geotechnical Investigation and Conventional Survey. This task is detailed in the attached subconsultant proposal. See **Phase 3** for the vertical SUE task.

Meetings: This task includes one (1) in-person meeting before performing the Survey, SUE, and Geotechnical Investigations (combined with **Tasks 1.6 and 1.8**). The meeting will include CONSULTANT's Project Manager and a subconsultant representative for each of the three (3) data collection activities.

Deliverables: Drawing of existing utilities (PDF and AutoCAD DWG format - combined with topographic survey), meeting agenda and minutes

1.8 Geotechnical Investigation – MC Squared

CONSULTANT will provide a subconsultant to perform a geotechnical investigation, provide pavement design parameters, and investigate the suitability of existing pavement materials for reuse. The geotechnical investigation will cover the limits and boring locations shown in **Figure 2**. The geotechnical subconsultant will prepare a geotechnical report describing the findings and recommendations. This task is detailed in the attached subconsultant proposal.

Meetings: This task includes one (1) in-person meeting before performing the Survey, SUE, and Geotechnical Investigations (combined with **Tasks 1.6 and 1.7**). The meeting will include CONSULTANT's Project Manager and a subconsultant representative for each of the three (3) data collection activities.

Deliverables: Signed and sealed geotechnical report (Digitally Signed PDF format), meeting agenda and minutes

1.9 Engineers' Field Visits

After all other field investigations have been completed, CONSULTANT and applicable subconsultants will visit the site to review existing conditions and verify the survey, SUE, and geotechnical data obtained. CONSULTANT's electrical engineer will coordinate with Ohmega in advance of the site visit for electrical site reconnaissance. CONSULTANT and subconsultants will prepare site visit reports with photographic documentation. This will include field visits by the following firms:

- Michael Baker – Project Manager and Airfield Engineer (Technical Manager) (Two (2) representatives)
- Bluewing – Environmental (One (1) representative)
- Landis Evans – Drainage Engineer (One (1) representative)
- Ohmega – Electrical Engineer (One (1) representative)

Deliverables: Site visit report with photographic documentation (electronic email or PDF format)



1.10 Survey Integration / Base Mapping

CONSULTANT will obtain the latest airport-wide base file and/or ALP from the OWNER in AutoCAD DWG format and integrate the mobile LiDAR, conventional survey, and SUE information collected to create a single, complete existing conditions AutoCAD file. This file will be used as the basis of design. CONSULTANT will perform an internal Quality Control review of the final compiled base file.

Deliverables: None

Phase 2 – Conceptual Design and Stormwater Treatment Study

2.1 Internal Project and Contract Management

This task includes the internal management of the contract including accounting, cost tracking, billing, filing, and record keeping. During this phase, CONSULTANT will assign tasks to appropriate internal production staff and monitor schedule and confirm internal quality control procedures are being followed. CONSULTANT will monitor and control budget and schedule. CONSULTANT will prepare, submit, and track invoices to OWNER and receive and process subconsultant invoices.

Deliverables: Invoices with Progress Reports (electronic pdf format); Quality Control Documentation (electronic pdf format – upon request)

2.2 Owner, Stakeholder, and Subconsultant Coordination

CONSULTANT will maintain communications and coordination with OWNER, Stakeholders, and Subconsultants throughout this phase, including monthly project status updates. CONSULTANT will maintain communications and coordination with up to three (3) subconsultant firms during this phase. Task will include coordinating schedule, tasks, and deliverables with overall project schedule and with OWNER.

Meetings: This task includes a Design Kickoff Meeting before beginning Phase 2 to include the CONSULTANT's Project Manager in person and Airfield Engineer (Technical Manager) and Electrical Engineer virtually.

Deliverables: Email correspondence (upon request), Presentation Slides (Power Point)

2.3 Concept Exhibits

CONSULTANT will prepare color exhibits to refine the project scope and establish the final design direction. The exhibits will be based the existing conditions compiled in **Phase 1** and feedback received from the OWNER meetings. The concepts will be coordinated for compatibility with the Airport Master Plan, Airport Layout Plan, and the project budget. The "Final Project Concepts" will also incorporate feedback obtained from the Pinellas County Engineering and Southwest Florida Water Management



District (SWFWMD) pre-application meetings. CONSULTANT will perform an internal Quality Control review of the Exhibits. The Exhibits will include:

Project Area 1

- Vehicle Service Road and Non-Movement Markings Near Gate P
- Light-Duty vs. Heavy-Duty PCC Pavement Limits
- Future East Terminal Expansion Coordination
 - Future Ramp Grading Schematic / NFPA Grading Requirements
 - Future Conceptual Cross-Sections from the Terminal to the Cargo Apron
- Parking Position Layouts
 - Includes AviPlan Pro Modeling
- Final Project Concept
 - Proposed and Demolition

Project Area 2

- Sheltair and Sheriff Leaseholds w/ Taxiway C Taxiway Object Free Area (TOFA) and Taxiway Safety Area (TSA) Limits
- Future East Terminal Expansion Coordination
 - Taxiway C Centerline Elevation
 - Future Ramp Grading Schematic
 - Future Conceptual Cross-Sections from the Terminal to Taxiway C
- Taxiway A4 Alignment/Extents
- Final Project Concept
 - Proposed and Demolition
 - Includes AviPlan Pro Modeling

A draft of each exhibit will be provided initially and then a final version of each exhibit will be provided, incorporating OWNER feedback (Two (2) versions of each exhibit).

Meetings: CONSULTANT will attend one (1) hybrid meeting during conceptual design with CONSULTANT's Project Manager in-person, Airfield Engineer (Technical Manager) virtually, and Architect in-person. CONSULTANT will attend one (1) additional hybrid meeting at the completion of conceptual design with CONSULTANT's Project Manager in-person, Airfield Engineer (Technical Manager) virtually, and Architect in-person.

Deliverables: Project Area 1 - Up to seven (7) 11x17 color exhibits (PDF format only), Project Area 2 - Up to six (6) 11x17 color exhibits (PDF format only), Presentation Slides (Power Point), meeting agendas and minutes

2.4 Budgetary Cost Estimates

CONSULTANT will prepare a separate budgetary cost estimate for Project Areas 1 and 2 for OWNER comparison with the project budgets. CONSULTANT will prepare a preliminary list of pay items, calculate quantities for each pay item, and estimate a unit price for each pay item. This will require input electrical quantity calculations and pay items provided by Ohmega. These cost estimates will



include a 15% contingency and 3% cost escalation. CONSULTANT will perform an internal Quality Control review of the two (2) cost estimates.

Deliverables: Project Area 1 Budgetary Cost Estimate (electronic PDF format), Project 2 Budgetary Cost Estimate (electronic PDF format)

2.5 Stormwater Treatment Study (Project Area 2 Only)

For Project Area 2, CONSULTANT will perform a preliminary assessment of up to 3 alternatives for providing stormwater treatment and attenuation for the project. This will be coordinated with **Tasks 2.3 and 2.4**. The alternatives will be ranked based on the ability to satisfy design criteria as well as environmental and airport safety considerations, maintainability, compatibility with future development, and costs. The results will be documented in a technical memorandum with an evaluation matrix and concept sketch for each alternative. CONSULTANT will perform an internal Quality Control review of the deliverables.

Meetings: CONSULTANT will attend one (1) hybrid meeting during conceptual design with CONSULTANT's Project Manager in-person and Drainage Engineer virtually.

Deliverables: Technical memorandum w/ evaluation matrix (PDF format), 11x17 color concept exhibit (PDF format), Presentation Slides (Power Point), meeting agenda and minutes

2.6 Environmental Support – Bluewing (Project Area 2 Only)

CONSULTANT will provide an environmental subconsultant to provide support related to the stormwater treatment alternatives, proposed airfield turfing, and wildlife hazards. This task is detailed in the attached subconsultant proposal. The recommendations of this study will be incorporated into the Stormwater Treatment Study technical memorandum (**Task 2.5**), and as modifications to the FAA technical specification for turfing and/or seeding.

Meetings: Subconsultant will attend the stormwater treatment study meeting in-person (**Task 2.5**).

Deliverables: See **Task 2.5**, FAA letter (PDF format)

2.7 SWFWMD Pre-Application Meeting (Split Between Project Areas 1 & 2)

After developing the overall conceptual project layouts, CONSULTANT will attend an in-person meeting with the SWFWMD to establish the design requirements, review the existing relevant drainage requirements, establish the permitting requirements, and finalize the preferred drainage approach. This meeting will include the CONSULTANT's Project Manager and Drainage Engineer and a representative from Landis Evans.

Meetings: Described above.

Deliverables: Meeting minutes (electronic email or PDF format)



2.8 Pinellas County Pre-Application Meeting (Split Between Project Areas 1 & 2)

After developing the overall conceptual project layouts, CONSULTANT will attend an in-person meeting with Pinellas County to establish the design requirements, review the existing relevant drainage and other project requirements, establish the permitting requirements, and finalize the project approach. This meeting will include the CONSULTANT's Project Manager and a representative from Landis Evans.

Meetings: Described above.

Deliverables: Meeting minutes (electronic email or PDF format)

Phase 3 – Preliminary Design Phase (30%)

3.1 Internal Project and Contract Management

This task is described in **Task 2.1.**

Meetings: Weekly internal design meetings during design – 1-hr per meeting – to include: Five (5) CONSULTANT design personnel and two (2) subconsultant representatives (Ohmega and Landis Evans).

Deliverables: As described in **Task 2.1.**

3.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2.**

Meetings: CONSULTANT's Project Manager will attend up to two (2) OWNER coordination meetings in-person during this phase.

Deliverables: None.

3.3 Subsurface Utility Engineering (SUE) – Vertical Locates – Optional Added Service - Echo UES

If there is a possibility of conflict based on the final approved concepts and the location of horizontal utilities to remain, the SUE subconsultant will return to the site to vertically locate all potential conflicts. This will include determining the depth, size, and material type for each underground utility in question. Compensation will be on a per day basis for a SUE Crew, including field and office support time. This task is detailed in the attached subconsultant proposal.

Meetings: In-person meeting prior to field work to include the CONSULTANT's Project Manager and the SUE subconsultant representative.

Deliverables: Updated horizontal utility locations with vertical component (PDF and AutoCAD DWG formats), Test Hole Data Report (PDF format)



3.4 Engineering Design, Modeling, and Calculations (30%)

After finalizing the conceptual exhibits and design approach, CONSULTANT will prepare 30% documents. This task will include performing preliminary engineering designs and calculations to complete the 30% documents. This Task will be performed by each discipline lead (Airfield/Civil Engineer and Drainage Engineer) and will the items below. CONSULTANT will perform an internal Quality Control review of the calculations.

- Pavement Designs
 - Project 1 - 2 concrete pavement designs
 - Project 2 - 4 asphalt pavement designs (2 options for each new taxiway)
- ICPR Drainage Modeling
 - Project 2 Only
- Drainage Hydraulic Calculations
 - Project Area 2 Only
- Lateral shaft capacity calculation for the high mast light pole drill shaft foundation(s)

Deliverables: Included as appendices in the Engineer's Report (PDF format)

3.5 Drawings (30%)

After finalizing the conceptual layouts for Project Areas 1 and 2 (described in **Phase 2**), the 30% Conceptual plans will be prepared. Project Areas 1 and 2 will be combined into a single set of plans but will be separated into distinct project areas and drawing sheets for separate cost tracking. CONSULTANT's in-house electrical engineer will also perform a peer review of the electrical plans. The plan sheets expected for this deliverable are listed below, estimated at forty-one (41) sheets. CONSULTANT will perform an internal Quality Control and Cross-Disciplinary review of the Plans.

- Cover Sheet (1 Sheet)
- Drawing Index (1)
- General Notes (1)
- Project Layout, Access, and Staging Plan (1)
- Boring Location Plans (2)
- Airspace Protection Plan (1)
- Construction Phasing Plans - Overall
 - Project Area 1 (1)
 - Project Area 2 (1)
- Existing Condition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Demolition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Typical Pavement Sections
 - Project Area 1 (1)



- Project Area 2 (1)
- Pavement Geometry Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Pavement Marking Plans
 - Project Area 1 (3)
 - Project Area 2 (4)
- High-Mast Lighting Plan – Ohmega
 - Project Area 1 (1)
- Airfield Electrical Layout Plans – Ohmega
 - Project Area 2 (7)

Deliverables: Conceptual (30%) Plans, 22X34 (electronic PDF format only)

3.6 Technical Specifications List

Based on the approved concepts, CONSULTANT will prepare a list of technical specifications to be used for the project based on the FAA standard specifications. Additional, custom specifications may also be included.

Deliverables: Technical Specifications List (PDF format)

3.7 Cost Estimate (30%)

CONSULTANT will refine the list of pay items from **Phase 2**, re-calculate quantities for each pay item, refine the estimated unit prices for each pay item, and prepare a separate cost estimate for each project area. Cost estimates will reflect work represented by the 30% plans. This estimate will include a 15% contingency and cost escalation, if applicable. CONSULTANT will perform an internal Quality Control review of the Cost Estimates.

Deliverables: Preliminary (30%) Cost Estimate (electronic PDF format)

3.8 Design Review Meeting (30%)

After OWNER has had about a week to review the 30% design documents, CONSULTANT will prepare the required materials and facilitate a meeting with the OWNER and Stakeholders to present and review the 30% documents. Microsoft Power Point slides will be prepared by CONSULTANT. The meeting will be attended in-person by the CONSULTANT's Project Manager and virtually by the CONSULTANT's Airfield Engineer (Technical Manager). A representative from Ohmega will also attend the meeting virtually.

Meetings: Described above.

Deliverables: Presentation slides (Power Point), Meeting agenda and minutes (PDF or Word format)



Phase 4 – Engineering Phase (60%)

4.1 Internal Project and Contract Management

This task is described in **Task 2.1.**

Meetings: As described in **Task 3.1.**

Deliverables: As described in **Task 2.1.**

4.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2.**

Meetings: As described in **Task 3.2.**

Deliverables: None.

4.3 Engineering Design, Modeling, and Calculations (60%)

Applying feedback from OWNER and permitting agencies, CONSULTANT will prepare 60% documents. This task will include advancing the engineering designs and calculations to 60% completion. This Task will be performed by each discipline lead (Airfield/Civil Engineer, Drainage Engineer, and Electrical Engineer) and will include the items listed below. CONSULTANT will perform an internal Quality Control review of the calculations.

- Pavement Designs
 - Project Area 1 - 2 concrete pavement designs
 - Project 2 Area – 4 asphalt pavement designs (2 options for each new taxiway, standard and recycling options)
- ICPR Drainage Modeling
 - Project Area 2 Only
- Drainage Hydraulic Calculations
 - Project Area 2 Only
- Electrical Load Calculations – Ohmega
- Airfield Lighting Control and Monitoring System (ALCMS) Modifications - Ohmega

Deliverables: Included as appendices in the Engineer’s Report (PDF format)

4.4 Drawings (60%)

The 60% Plans will be prepared by incorporating reviewer feedback on the 30% plans, advancing the design, and preparing additional drawings and drawing detail sheets. Project Areas 1 and 2 will be combined into a single set of plans but will be separated into distinct project areas and drawing sheets for separate cost tracking. CONSULTANT’s in-house electrical engineer will also perform a peer review of the electrical plans. The plan sheets expected for this deliverable are listed below, estimated at



eighty-seven (87) sheets. CONSULTANT will perform an internal Quality Control and Cross-Disciplinary review of the Plans.

- Cover Sheet (1 Sheet)
- Drawing Index (1)
- General Notes (1)
- Project Layout, Access, and Staging Plan (1)
- Boring Location Plans (2)
- Boring Logs (4)
- Airspace Protection Plan (1)
- Construction Phasing Plans - Overall
 - Project Area 1 (1)
 - Project Area 2 (1)
- Construction Phasing Details (1)
- Construction Phasing Plans – Individual Phases
 - Project Area 1 (5)
 - Project Area 2 (4)
- Existing Condition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Demolition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Typical Pavement Sections and Paving Details
 - Project Area 1 (3)
 - Project Area 2 (2)
- Pavement Geometry Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Joint Layout and Elevation Plans
 - Project Area 1 (4)
- Taxiway Profiles
 - Project Area 2 (2)
- Grading and Drainage Plans
 - Project Area 1 (2)
 - Project Area 2 (6)
- Drainage Details (1)
- Erosion Control Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Erosion Control Details (1)
- Stormwater Pollution Prevention Plan (SWPPP) (1)
- Pavement Marking Plans
 - Project Area 1 (3)



- Project Area 2 (4)
- Pavement Marking Details (1)
- High-Mast Lighting Plan – Ohmega
 - Project Area 1 (1)
- Airfield Electrical Layout and Circuiting Plans – Ohmega
 - Project Area 2 (6)
- High-Mast Lighting Details - Ohmega
 - Project Area 1 (1)
- Airfield Electrical Details - Ohmega
 - Project Area 2 (4)
- Airfield Lighting Vault Details – Ohmega
 - Project Area 2 (1)

Deliverables: Preliminary (60%) Plans, 22X34 (electronic PDF format)

4.5 Technical Specifications (60%)

CONSULTANT will prepare 60% technical specifications based on the technical specifications list provided at 30% and covering the design elements shown in the 60% plans. Technical specifications will follow the latest version of the standard FAA specifications where applicable. Modifications to standard specifications may be made to suit the project and will be clearly identified by strikeout and italic text. CONSULTANT will perform an internal Quality Control review of the Technical Specifications.

Deliverables: 60% Technical Specifications (PDF format)

4.6 Engineer's Report (60%)

CONSULTANT will prepare an Engineer's Report at the 60% design phase. The report will be based on OWNER and permitting agency feedback received to date. The report will document design standards, permitting considerations, design calculations, assumptions, and rationale. The report will include a summary of the Drainage Report described in **Task 4.10**. CONSULTANT will perform an internal Quality Control review of the Engineer's Report.

Deliverables: 60% Engineer's Report (PDF format)

4.7 Construction Safety and Phasing Plan (CSPP) (60%)

CONSULTANT will prepare a preliminary CSPP document at the 60% design phase. The report will be based on the 60% Construction Phasing Plans and related OWNER feedback received to date. The report will be structured as outlined in FAA AC 150/5370-2G – Operational Safety on Airport During Construction, Section 2.4. The CSPP will ultimately be incorporated into the construction document package. CONSULTANT will perform an internal Quality Control review of the CSPP. CONSULTANT will also support the OWNER in up to three (3) meetings related to the FAA's Safety Management System (SMS) and associated Safety Risk Management (SRM) Program.

Deliverables: 60% CSPP (PDF format)



4.8 Cost Estimate (60%)

CONSULTANT will refine the list of pay items from **Phase 3**, re-calculate quantities for each pay item, refine the estimated unit prices for each pay item, and prepare a separate cost estimate for each project area. Cost estimates will reflect work represented by the 60% plans. This estimate will include a 10% contingency and cost escalation, if applicable. CONSULTANT will perform an internal Quality Control review of the Cost Estimates.

Deliverables: Preliminary (60%) Cost Estimate (electronic PDF format)

4.9 Design Review Meeting (60%)

After OWNER has had about a week to review the 60% design documents, CONSULTANT will prepare the required materials and facilitate a meeting with the OWNER and Stakeholders to present and review the 60% documents. Microsoft Power Point slides will be prepared by CONSULTANT. The meeting will be attended in-person by the CONSULTANT's Project Manager and virtually by the CONSULTANT's Airfield Engineer (Technical Manager). A representative from Ohmega will also attend the meeting virtually.

Meetings: Described above.

Deliverables: Presentation slides (Power Point), Meeting agenda and minutes (PDF or Word format)

4.10 SWFWMD Coordination and Permit Application (Split Between Project Areas 1 & 2)

It is understood that this project will require a New Individual Environmental Resource Permit (ERP) through the SWFWMD. CONSULTANT will coordinate with SWFWMD staff as required and prepare a drainage report. The drainage report will include drainage calculations, pond calculations, and hydraulic calculations for submission with the SWFWMD ERP permit application. The drainage design and report will be based on the stormwater treatment approach established in **Task 2.5** which will be coordinated with the project concept shown in the 2020 Master Drainage Plan. As part of the ERP permit application, CONSULTANT will submit an abbreviated 60% plan set to the SWFWMD, focused on grading and drainage (to exclude electrical and pavement marking sheets, and other irrelevant sheets). Relevant 60% OWNER review comments will be incorporated into the abbreviated plan set.

Deliverables: Electronic PDF format: Drainage Report, ERP Application, Abbreviated 60% Plans; Hard Copies: (3) copies 22x34 signed and sealed plans, (3) copies drainage report, (3) copies ERP application

Phase 5 – Final Design Phase (90%)

5.1 Internal Project and Contract Management

This task is described in **Task 2.1**.



Meetings: As described in **Task 3.1.**

Deliverables: As described in **Task 2.1.**

5.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2.**

Meetings: As described in **Task 3.2.**

Deliverables: None.

5.3 Engineering Design, Modeling, and Calculations (90%)

Applying feedback from the OWNER and permitting agencies, CONSULTANT will prepare 90% documents. This task will include advancing the engineering designs and calculations to final completion. This Task will be performed by each discipline lead (Airfield/Civil Engineer, Drainage Engineer, and Electrical Engineer) and will include the items listed below. The CONSULTANT's structural engineer will perform the high-mast light pole foundation design and calculations. The structural engineer's time is shown under the Drainage Engineer III column on the fee sheet. CONSULTANT will perform an internal Quality Control review of the calculations.

- Pavement Designs
 - Project Area 1 - 2 concrete pavement designs
 - Project Area 2 - 4 asphalt pavement designs (2 options for each new taxiway, standard and recycling options)
- ICPR Drainage Modeling
 - Project Area 2 Only
- Drainage Hydraulic Calculations
 - Project Area 2 Only
- High-Mast Light Pole Wind Load Calculations and Design
 - Includes validating rebar and anchor bolt details
 - Includes providing top of shaft loads to geotechnical engineer for foundation sizing
 - Project Area 1 Only
- Electrical Load Calculations - Ohmega
- Airfield Lighting Control and Monitoring System (ALCMS) Modifications - Ohmega

Deliverables: Included as appendices in the Engineer's Report (PDF format)

5.4 Drawings (90%)

The 90% Plans will be prepared by incorporating reviewer feedback on the 60% plans, advancing the design, and preparing additional drawing detail sheets. Project Areas 1 and 2 will be combined into a single set of plans but will be separated into distinct project areas and drawing sheets for separate cost tracking. CONSULTANT's in-house electrical engineer will also perform a peer review of the electrical plans. The plan sheets expected for this deliverable are listed below, estimated at ninety-six



(96) sheets. CONSULTANT will perform an internal Quality Control and Cross-Disciplinary review of the Plans.

- Cover Sheet (1 Sheet)
- Drawing Index (1)
- General Notes (1)
- Project Layout, Access, and Staging Plan (1)
- Boring Location Plans (2)
- Boring Logs (4)
- Airspace Protection Plan (1)
- Construction Phasing Plans - Overall
 - Project Area 1 (1)
 - Project Area 2 (1)
- Construction Phasing Details (1)
- Construction Phasing Plans – Individual Phases
 - Project Area 1 (5)
 - Project Area 2 (4)
- Existing Condition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Demolition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Typical Pavement Sections and Paving Details
 - Project Area 1 (3)
 - Project Area 2 (2)
- High Mast Light Pole Foundation Details
 - Project Area 1 (1)
- Pavement Geometry Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Joint Layout and Elevation Plans
 - Project Area 1 (4)
- Taxiway Profiles
 - Project Area 2 (2)
- Taxiway Cross Sections
 - Project Area 2 (8)
- Grading and Drainage Plans
 - Project Area 1 (2)
 - Project Area 2 (6)
- Drainage Details (1)
- Erosion Control Plans
 - Project Area 1 (1)
 - Project Area 2 (4)



- Erosion Control Details (1)
- Stormwater Pollution Prevention Plan (SWPPP) (1)
- Pavement Marking Plans
 - Project Area 1 (3)
 - Project Area 2 (4)
- Pavement Marking Details (1)
- High-Mast Lighting Plan – Ohmega
 - Project Area 1 (1)
- Airfield Electrical Layout and Circuiting Plans – Ohmega
 - Project Area 2 (7)
- High-Mast Lighting Details - Ohmega
 - Project Area 1 (1)
- Airfield Electrical Details - Ohmega
 - Project Area 2 (5)
- Airfield Lighting Vault Details – Ohmega
 - Project Area 2 (1)

Deliverables: Final (90%) Plans, 22X34 (electronic PDF format)

5.5 Technical Specifications (90%)

CONSULTANT will advance the technical specifications to 90% completion based on the technical specifications list provided at 30% and covering the design adjustments made between 60% and 90% plans. Technical specifications will follow the latest version of the standard FAA specifications where applicable. Modifications to standard specifications may be made to suit the project and will be clearly identified by strikeout and italic text. CONSULTANT will perform an internal Quality Control review of the Technical Specifications.

Deliverables: 90% Technical Specifications (PDF format)

5.6 Construction Safety and Phasing Plan (CSPP) (90%)

CONSULTANT will prepare a preliminary CSPP document at the 90% design phase. The report will be based on the 90% Construction Phasing Plans and related OWNER feedback received to date. The report will be structured as outlined in FAA AC 150/5370-2G – Operational Safety on Airport During Construction, Section 2.4. The CSPP will ultimately be incorporated into the construction document package. CONSULTANT will perform an internal Quality Control review of the CSPP. CONSULTANT will also support the OWNER in up to three (3) meetings related to the FAA’s Safety Management System (SMS) and associated Safety Risk Management (SRM) Program.

Deliverables: 90% CSPP (PDF format)



5.7 Cost Estimate (90%)

CONSULTANT will refine the list of pay items from **Phase 4**, re-calculate quantities for each pay item, refine the estimated unit prices for each pay item, and prepare a separate cost estimate for each project area. Cost estimates will reflect work represented by the 90% plans. This estimate will include a 5% contingency and cost escalation, if applicable. CONSULTANT will perform an internal Quality Control review of the Cost Estimates.

Deliverables: Final (90%) Cost Estimate (electronic PDF format)

5.8 Front-End Bidding and Contracting Documents (90%)

OWNER will provide CONSULTANT with the latest version of the OWNER's construction contract agreement, general conditions, insurance requirements, bidding forms and other OWNER standard front-end documents. CONSULTANT will review front end documents and add other sections that may be necessary or beneficial to OWNER. CONSULTANT will edit the front-end documents with the correct bidding phase dates, project information, personnel contact information, header/footers and overall formatting to provide a cohesive project manual.

Deliverables: Front End Bidding Documents (PDF format - to be combined with technical specifications)

5.9 Design Review Meeting (90%)

After OWNER has had about a week to review the 90% design documents, CONSULTANT will prepare the required materials and facilitate a meeting with the OWNER and Stakeholders to present and review the 90% documents. Microsoft Power Point slides will be prepared by CONSULTANT. The meeting will be attended in-person by the CONSULTANT's Project Manager and virtually by the CONSULTANT's Airfield Engineer (Technical Manager). A representative from Ohmega will also attend the meeting virtually.

Meetings: Described above.

Deliverables: Presentation slides (Power Point), Meeting agenda and minutes (PDF or Word format)

5.10 Pinellas County Coordination and Permit Application – Landis Evans (Split Between Project Areas 1 & 2)

The project will require a Pinellas County Site Plan and Habitat Management permit applications through the Pinellas County Engineering Department. CONSULTANT will provide a subconsultant to coordinate with Pinellas County staff as required and prepare a drainage report. The drainage report will include pollutant reduction and other drainage calculations for submission with the County permit application. The drainage calculations and report will be based on the stormwater treatment approach established in **Task 2.5** which will be coordinated with the project concept shown in the 2020 Master Drainage Plan. As part of the Pinellas County permit application, CONSULTANT will prepare and submit an abbreviated 90% plan set, focused on grading and drainage and pavements (to exclude electrical



and pavement marking sheets, and other irrelevant sheets). Relevant 90% OWNER review comments will be incorporated into the abbreviated plan set.

Deliverables: Electronic PDF copies: Drainage Report and Calculations, County Permit Application, abbreviated 90% Plans, Technical Specifications; Hard copies: Plans - (6) 22x34 hard copies – all sheets signed and sealed by hand, (1) copy technical specifications, (1) copy drainage report and calculations, (1) copy permit application

Phase 6 – Bid Documents Phase (100%)

6.1 Internal Project and Contract Management

This task is described in **Task 2.1.**

Meetings: As described in **Task 3.1.**

Deliverables: As described in **Task 2.1.**

6.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2.**

Deliverables: None

6.3 Stormwater Ledger (Project Area 2 Only)

CONSULTANT will document any additional water quality and attenuation provided by the Project Area 2 into a ledger to provide credits, in terms of impervious area, for future projects within the same airport basins. The ledger will document the permitted treatment volume for the new Project Area 2 stormwater management systems and any existing systems within the same airport basins; the proposed Project Area 2 improvements will be deducted, and the remaining credits will be available for future projects. The ledger will include consideration of the water quality requirements for the Southwest Florida Water Management District and Pinellas County and will be included with their respective permit applications for review/approval and documentation for future permits.

Deliverables: Stormwater Ledger Report (PDF Format)

6.4 Drawings (100%)

Final (100%) Plans will be prepared (labeled as “Bid Documents”) by incorporating reviewer feedback on the 90% plans. Little-to-no design will be remaining, and no sheets are expected to be added to advance from 90-100%. CONSULTANT will not perform an in-house electrical engineering peer review for the final drawings. The plan sheets expected for this deliverable are listed below, estimated at ninety-six (96) sheets. CONSULTANT will perform an internal Quality Control and Cross-Disciplinary review of the Plans.

- Cover Sheet (1 Sheet)



- Drawing Index (1)
- General Notes (1)
- Project Layout, Access, and Staging Plan (1)
- Boring Location Plans (2)
- Boring Logs (4)
- Airspace Protection Plan (1)
- Construction Phasing Plans - Overall
 - Project Area 1 (1)
 - Project Area 2 (1)
- Construction Phasing Details (1)
- Construction Phasing Plans – Individual Phases
 - Project Area 1 (5)
 - Project Area 2 (4)
- Existing Condition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Demolition Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Typical Pavement Sections and Paving Details
 - Project Area 1 (3)
 - Project Area 2 (2)
- High-Mast Light Pole Foundation Details
 - Project Area 1 (1)
- Pavement Geometry Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Joint Layout and Elevation Plans
 - Project Area 1 (4)
- Taxiway Profiles
 - Project Area 2 (2)
- Taxiway Cross Sections
 - Project Area 2 (8)
- Grading and Drainage Plans
 - Project Area 1 (2)
 - Project Area 2 (6)
- Drainage Details (1)
- Erosion Control Plans
 - Project Area 1 (1)
 - Project Area 2 (4)
- Erosion Control Details (1)
- Stormwater Pollution Prevention Plan (SWPPP) (1)
- Pavement Marking Plans
 - Project Area 1 (3)



- Project Area 2 (4)
- Pavement Marking Details (1)
- High-Mast Lighting Plan – Ohmega
 - Project Area 1 (1)
- Airfield Electrical Layout and Circuiting Plans – Ohmega
 - Project Area 2 (7)
- High-Mast Lighting Details - Ohmega
 - Project Area 1 (1)
- Airfield Electrical Details - Ohmega
 - Project Area 2 (5)
- Airfield Lighting Vault Details – Ohmega
 - Project Area 2 (1)

Deliverables: Bid (100%) Plans, 22X34 (electronic PDF format)

6.5 Technical Specifications (100%)

CONSULTANT will advance the technical specifications to 100% completion covering the design adjustments made between 90% and 100% plans. Changes at this stage will be largely based on final OWNER and permitting agency comments rather than design updates. CONSULTANT will perform an internal Quality Control review of the Technical Specifications.

Deliverables: 100% (Bid) Technical Specifications (PDF format)

6.6 Engineer's Report (100%)

CONSULTANT will prepare a 100% Engineer's Report at the completion of the design phase. The report will be based on final OWNER and permitting agency feedback and incorporate comments made on the 60% report. Updates made to the design since the 60% report will be incorporated into the final report. The report will document design standards, permitting considerations, design calculations, assumptions, and rationale. OWNER and other agency review comments are not expected after this submission. CONSULTANT will perform an internal Quality Control review of the Engineer's Report.

Deliverables: Final Engineer's Report (PDF format)

6.7 Construction Safety and Phasing Plan (CSPP) (100%)

CONSULTANT will prepare the final CSPP document at the 100% design phase. The report will be based on the 100% Construction Phasing Plans and related OWNER feedback received to date. The report will be structured as outlined in FAA AC 150/5370-2G – Operational Safety on Airport During Construction, Section 2.4. The CSPP will be incorporated into the construction document package. CONSULTANT will perform an internal Quality Control review of the CSPP.

Deliverables: 100% CSPP (PDF format)



6.8 FAA Form 7460 Online Submission

CONSULTANT will prepare exhibits to show equipment heights, heights of proposed permanent features and associated elevations, a cross-section of the runway transitional surface, and file online the FAA Form 7460 – Notice of Proposed Construction or Alteration. CONSULTANT will perform an internal Quality Control review of the 7460 exhibits and submission. The final CSPP will also be submitted online at the same time.

Deliverables: 7460 Exhibits and 7460 online receipt (PDF formats)

6.9 Cost Estimate (100%)

CONSULTANT will refine the list of pay items from **Phase 5**, re-calculate quantities for each pay item, refine the estimated unit prices for each pay item, and prepare a separate cost estimate for each project area. Cost estimates will reflect work represented by the 100% plans. This estimate will include no contingency but will include a cost escalation, if applicable. CONSULTANT will perform an internal Quality Control review of the Cost Estimates.

Deliverables: Bid (100%) Cost Estimate (electronic PDF format)

6.10 Front-End Bidding and Contracting Documents (100%)

CONSULTANT incorporate comments from OWNER's Purchasing Department and finalize the front-end documents with the correct bidding phase dates, project information, personnel contact information, headers/footers and overall formatting. The technical specifications and CSPP will be incorporated with the front-end bidding documents to provide a cohesive Project Manual to be issued for bids.

Deliverables: Front End Bidding Documents (PDF format - to be combined with technical specifications and CSPP)

Phase 7 – Bidding Phase

7.1 Internal Project and Contract Management

This task is described in **Task 2.1**.

Deliverables: As described in **Task 2.1**.

7.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2**.

Deliverables: None



7.3 Prebid Meeting and Bid Opening

CONSULTANT's Project Manager and one support personnel will prepare an agenda and facilitate the pre-bid meeting. Project Manager will attend the pre-bid meeting in person. CONSULTANT's Airfield Engineer (Technical Manager) attend the meeting virtually. A representative from Ohmega will attend the meeting virtually. CONSULTANT will answer technical, schedule and phasing related questions during the meeting. OWNER will answer bidding, contracting and insurance related questions. CONSULTANT will record notes and prepare and distribute meeting minutes. CONSULTANT's Project Manager will attend the bid opening in person. The bid opening will not require an agenda or minutes.

Deliverables: Pre-Bid Agenda, Pre-Bid Sign-In Sheet, Pre-Bid Minutes (PDF format)

7.4 Document Changes During Bidding

CONSULTANT will update / revise documents based on questions and comments received during the bidding phase. Manhour estimate is based on 2 document changes at 8 hours per change.

Deliverables: Revised Documents (PDF format)

7.5 Requests for Information

CONSULTANT will respond to technical, schedule and construction phasing related questions during the bidding phase. Manhour estimate is based on 10 questions at 1 hour per response.

Deliverables: RFI Responses (PDF format or email responses)

7.6 Evaluation of Bids and Award Recommendation

CONSULTANT will review the lowest three (3) bids for responsiveness and completeness and tabulate all bids. CONSULTANT will tabulate and check all bids for mathematical correctness. CONSULTANT will prepare award recommendation letter and deliver to OWNER with the bid tabulation.

Deliverables: Bid Tabulation, Award Recommendation Letter (PDF format)

Phase 8 – Construction Phase / Construction Administration

8.1 Internal Project and Contract Management

This task is described in **Task 2.1**.

Deliverables: As described in **Task 2.1**.

8.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2**. CONSULTANT will also coordinate with OWNER and provide the necessary as-built data to update Airport Diagram.



Deliverables: None.

8.3 Conformed Documents

CONSULTANT will prepare and distribute conformed documents for construction which will include all addenda changes during the bidding period.

Deliverables: Conformed plans and specifications (pdf format, (3) 11x17 hard copies, (3) hard copies specifications)

8.4 Pre-Construction Meeting

The CONSULTANT's Project Manager will attend the Pre-Construction meeting in-person. CONSULTANT's Airfield Engineer (Technical Manager), and one (1) Ohmega representative will attend virtually. CONSULTANT will assist with preparation of the agenda and minutes. Final agenda, minutes, and sign-in sheet will be by the OWNER or RPR.

Deliverables: Email notes to support agenda and minutes

8.5 Engineers' Site Visits

The manhour estimates are based on CONSULTANT's Project Manager performing biweekly site visits on the same day as the construction progress meetings and is based on a 10-month construction duration (23 total site visits for both project areas combined) by CONSULTANT's Project Manager and Engineering Associate II. It assumed that both project areas will be reviewed during each site visit and separate site visits will not be made for each project area. Ohmega will perform (10) monthly site visits during construction. Sightline will be on-site during the pavement marking test strips to assist in equipment calibration and establish a baseline for quality of temporary and permanent markings. Following the completion of the final markings, Sightline will return to the site to measure airfield marking retro-reflectance and dimensional conformance with the plans. See Sightline proposal, Tasks 3 and 4 details.

Deliverables: Site visit reports with photographs (PDF format)

8.6 Construction Progress Meetings

The CONSULTANT's project manager will attend all biweekly construction progress meetings to facilitate timely and adequate coordination with OWNER, RPR, and Contractor. The manhour estimates are based on the Project Manager attending biweekly progress meetings in-person for 45 weeks (22 total meetings). CONSULTANT's Airfield Engineer (Technical Manager) will attend 22 meetings virtually. A representative from Ohmega will attend 22 meetings virtually. Sightline will participate in one (1) of the construction progress meetings virtually just prior to the application of pavement markings. See Sightline's proposal, Task 2 for details.

Meetings: Biweekly construction progress meetings. PM in-person, AF Engineer virtually, biweekly. Ohmega biweekly virtually.

Deliverables: Email notes to support minutes prepared by OWNER or RPR



8.7 Technical Submittals

CONSULTANT will review all technical submittals required to by the contract documents submitted by the Contractor, through the RPR, and provide a review action for each. The manhour estimates are based on reviewing twenty-seven (27) submittals for both project areas combined at an average of two (2) reviews per submittal (4 hrs per submittal).

Deliverables: Submittal review action cover sheet and submittal redline comments (PDF format) transmitted by email.

8.8 Requests for Information (RFIs)

CONSULTANT will provide responses to RFIs and other technical clarifications to the documents, received through the RPR, as required during construction. The manhour estimates are based on responding to a total of thirty (30) RFIs for both project areas combined at 2 hrs per RFI.

Deliverables: RFI responses, transmitted by email (pdf or email format)

8.9 Document Updates During Construction

CONSULTANT will prepare revisions to drawings and technical specifications as required during construction and log these revisions on the draw index sheet. Changes will be based on field changes or unforeseen conditions. These document revisions will be issued in the form of an RFI response or Engineering Supplement Instruction (ESI). The manhour estimates are based on performing eighteen (18) document updates during construction for both project areas combined at an average of 8 hours per update.

Deliverables: Document Revisions – plans and specifications, transmitted by email (pdf format)

8.10 Materials Testing Reports

The CONSULTANT will review results of contractor quality control and owner quality assurance testing data to verify all required testing is being conducted and test results conform to specification requirements. CONSULTANT's office staff will review the quality assurance testing schedule and quality control testing schedule in coordination with the RPR. The manhour estimates are based on reviewing forty (40) QA testing reports and forty (40) QC testing reports for both project areas combined.

Deliverables: Email comments on test reports

8.11 Substantial Completion, Punch List, and Final Completion

The CONSULTANT's Project Manager and Engineering Associate II will attend the substantial completion walk through, prepare a site visit report with photographs, and assist the RPR in developing a punch list of items observed to be incomplete or non-compliant with contract documents. The CONSULTANT's Project Manager will return to the site for a final completion walk through to confirm all punch list items have been completed and prepare a letter acknowledging project completion. The manhour estimates are based on two (2) site visits, reports, and punch list by the Project Manager. Both project areas will be completed during each site visit.



Deliverables: Substantial completion site visit report with photographs, punch list, substantial completion certificate, final completion letter, final completion certificate (PDF format)

8.12 Record Drawings

A signed and sealed as-built survey and construction redline drawings will be provided to CONSULTANT's office staff by the Contractor and CONSULTANT's RPR. CONSULTANT will prepare record drawings for the project based on the information provided and any changes that the CONSULTANT documented during construction as part of **Task 8.10**. CONSULTANT will also prepare an updated airport-wide base map to reflect the as-built existing conditions to be furnished to OWNER. Ohmega will prepare electrical record drawings. CONSULTANT will perform an internal Quality Control review of the Record Drawings.

Deliverables: Record drawings – AutoCAD DWG format, electronic PDF format, three (3) 11x17 hard copies, updated airport-wide base file (AutoCAD DWG format)

Phase 9 – Construction Phase / Construction Management and RPR

9.1 Internal Project and Contract Management

This task is described in **Task 2.1**.

Deliverables: As described in **Task 2.1**.

9.2 Owner, Stakeholder, and Subconsultant Coordination

This task is described in **Task 2.2**.

Deliverables: None.

9.3 Create Construction Management Files

CONSULTANT will prepare construction management files including but not limited to:

- Online Document Filing Platform (Procore, Teams, or similar), if applicable
- Daily Report Template
- QA Testing Log
- Submittal and RFI Logs
- Notice of Non-Compliance Form
- Change Order Form
- Meeting Agendas and Minutes Templates
- Substantial and Final Completion Forms

Deliverables: None



9.4 Pre-Construction Document Review

CONSULTANT's RPR and backup Inspector will review and familiarize themselves with the construction plans, specifications, cost estimate, and schedule of values in advance of construction. They will also review the final Engineer's Report to understand design rationale and intent.

Deliverables: None

9.5 Pre-Construction Meeting

CONSULTANT's RPR and Project Manager will prepare for, facilitate, and prepare minutes for the preconstruction meeting. Only the RPR hours are included for this task. PM hours are included in **Task 8.4.**

Deliverables: Power Point presentation, meeting agenda, meeting minutes

9.6 Review Contractor's QC Plans and Other Submittals

CONSULTANT's backup Inspector will review Contractor's QC Plan and any submittals pertinent to the work being inspected at the time. This task is considered incidental to the full-time RPR hours.

Deliverables: None

9.7 Develop Construction Management / Quality Assurance Plan (CMP)

CONSULTANT's Construction Specialist and RPR will prepare a CMP in report format. The CMP will serve as guidance to the OWNER, RPR, and Contractor during construction. The CMP would include topics like general QA and QC plan guidance, engineer's duties, RPR's duties, testing laboratory requirements, expected submittals, QA testing schedule, staffing and management plan, PWL calculations, and testing laboratory accreditations.

Deliverables: Construction Management Plan (PDF format)

9.8 Assist the OWNER's Grant Administrator

CONSULTANT's office staff will assist the OWNER's Grant Administrator in tracking costs against the available budget and in the collection of all required grant closeout documents. This will include Consultant's Certification of Construction, certified test results, final release of lien, and other required documentation.

Deliverables: Construction closeout documents (PDF format)

9.9 Collect, Organize, and Log Technical Submittals and RFIs

CONSULTANT's office staff will collect submittals and RFIs from the field staff and tabulate the submittals using either a spreadsheet, Microsoft Teams, or other online document filing platform. CONSULTANT will track submittal and RFI response times and facilitate timely responses.



Deliverables: Submittal and RFI logs – biweekly or continuously online (PDF or Excel Format or online platform)

9.10 Collect and Organize Construction Photographs

CONSULTANT's office staff will collect photographic construction documentation from the field staff, organize and file the photographs on either CONSULTANT's file server, Microsoft Teams, or other online document filing platform. CONSULTANT will provide all project photographs to OWNER upon completion as part of the closeout documentation.

Deliverables: Photographs (JPEG format)

9.11 Assist OWNER in Resolving Claims and Disputes and Negotiating Change Orders

CONSULTANT will make recommendations, with support from the Design Engineer, for any contract change orders and prepare written reports outlining the need and justification. CONSULTANT will assist in preparing change orders. CONSULTANT will also assist the OWNER in resolving claims and disputes between the Contractor and OWNER and/or designer.

Deliverables: Change order forms and backup, letters responding to claims or disputes (if required) (PDF or Word format)

9.12 Collect and Review Project Closeout Documentation and Prepare Closeout Book

CONSULTANT will assemble all closeout documents and prepare summaries of the various documents including final project cost summary, pay applications, change orders, as-built drawings, O&M Manuals, warranties, certifications, test results, DBE participation summary, final lien releases, RPR daily reports, and Contractor daily reports.

Deliverables: Closeout book (PDF format)

9.13 Full-Time Resident Project Representative (RPR)

The CONSULTANT will provide one (1) full-time Resident Project Representative (RPR). Fee proposal is based on providing a single RPR dedicated to the project full-time. The RPR fee proposal is based on an average work week of 43-hours, 5 days per week for 45 weeks. RPR will be the CONSULTANT's agent and represent the OWNER's interests at the site, will act as directed by and under the supervision of CONSULTANT, and will confer with CONSULTANT regarding construction activities. RPR's dealings in matters pertaining to the onsite work shall, in general, be with the CONSULTANT and Contractor, and dealings with subcontractors shall only be through or with the full knowledge of Contractor. Written communication with OWNER will be only through or as directed by CONSULTANT. The RPR will be primarily located onsite full-time to observe and record construction processes, progress, and quality of work. The RPR duties will also include:



- Serving as the point of contact between the OWNER, Designer, and Contractor and facilitating that communication.
- Running biweekly construction meetings in-person.
- Attending and assisting with weekly or daily onsite job safety meetings.
- Conducting on-site observations of work in progress to assist in determining general construction conformance with the contract documents and permitting conditions. Reporting in writing any deviation from contract documents or observed unsafe conditions.
- Preparing daily inspection reports with photographic documentation.
 - Description of construction activities performed
 - Extents and approximate quantities of work performed
 - Weather conditions
 - Construction personnel and equipment present
 - Changed conditions
 - List of visitors
 - General and specific observations
 - Observed testing procedures
- Preparing a QA materials testing schedule.
- Scheduling and coordinating QA materials testing services.
- Reviewing QC Plans and other submittals that may affect the RPR's role and responsibilities.
- Confirming the QC materials testing is being completed by the Contractor in accordance with the technical specifications.
- Ensuring all failed QA testing is corrected and retested until passing results are obtained.
- Transmitting QA and QC materials testing to the Engineer for review and filing.
- Coordinating with the Contractor that adequate project files and records are being maintained.
- Reviewing Contractor's progress schedules, schedule of shop drawings, testing schedules, and schedule of values prepared by Contractor and monitoring that these schedules are being adhered to.
- Measuring and tracking quantities during construction and review monthly pay applications for consistency.
- Reviewing monthly pay applications, verifying all backup documentation is provided including lien waivers, DBE participation, and schedule updates.
- Evaluating Contractor claims, disputes, and change orders.
- Assisting office staff in maintaining submittal and RFI logs and monitoring the response times from the Engineer.
- Reviewing Contractor as-built and redline drawings monthly as a prerequisite for payment approval and reviewing Contractor's final as-built drawings prior to submission to Engineer.
- Assisting in compiling project closeout documentation.
- Coordinating and attending the substantial completion and final completion inspections.
- Assisting in the preparation of the punch list and confirming punch list completion.
- Coordinating that the proper equipment testing, commissioning, and training is being performed by the Contractor in the presence of the appropriate personnel.

Deliverables: Daily inspection reports, official meeting agendas and minutes, written correspondence, closeout documentation book, photographic documentation, QA testing schedule, punch list, pay



request quantity reviews, substantial and final completion signoffs, schedule comments, redline as-built drawings

9.14 Back-up Inspector (Nights and Concurrent Work)

CONSULTANT will provide a backup Inspector (Construction Specialist II) to be present onsite up to 232 hours (approximately 29 days, 14.5 days per project area) when multi-shift days, weekend, or nightwork is being performed. The backup Inspector will observe and record construction activities, confirm the work agrees with the construction documents, and assist the RPR in scheduling and tracking QA materials testing during these time periods.

Deliverables: Daily inspection reports, QA test reports, photographic documentation

Phase 10 – Construction Phase / QA Materials Testing

10.1 Quality Assurance Materials Testing

CONSULTANT will provide a subconsultant (MC Squared, Inc.) to perform Quality Assurance (QA) materials testing as required by the FAA standard technical specifications. The subconsultant's services are detailed in the attached subconsultant proposal.

Deliverables: Certified QA Test Reports (Signed and Sealed)

Phase 11 – Quality Assurance As-Built Survey (Optional Service)

11.1 Quality Assurance As-Built Survey (Optional Service)

If the RPR or EOR have reason to believe Contractor's as-built survey is inaccurate and OWNER agrees, the RPR will order a verification survey in select locations to check the Contractor's survey. A contingency allowance of \$30,000 has been included for this effort.

Deliverables: As-Built survey spot elevation drawing (AutoCAD and/or PDF format)

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Project Phase Durations

The manhour fee estimate is based on the following phase durations and review periods. A more detailed schedule is attached.

TASK	DURATION (Calendar Days)
Design Notice to Proceed (Estimated January 4, 2022)	0
Phase 1 – Data Collection	84 (12 weeks)
Phase 2 – Conceptual Design and Stormwater Treatment Study (Overlaps Phase 1 by 3 weeks)	49 (7 weeks)
Phase 3 – Preliminary Design Phase (30%)	28 (4 weeks)
OWNER Review Period	14 (2 weeks)
Phase 4 – Engineering Phase (60%)	35 (5 weeks)
OWNER Review Period	14 (2 weeks)
Phase 5 – Final Design Phase (90%)	35 (5 weeks)
OWNER, County Engineering, and Purchasing Review Period	35 (5 weeks)
Phase 6 – Bid Documents Phase (100%)	21 (3 weeks)
Design Phase Duration (Jan. 4, 2022 – Oct. 24, 2022)	294 (9.7 Months)
Phase 7 – Bidding Phase (Oct. 25, 2022 – Jan. 2, 2023)	70 (2.3 Months)
Phase 8 - Construction Phase Duration (Jan. 3, 2023 – Nov. 13, 2023)	315 (10 Months)
Phase 8 – Project Area 1 Completion (Jan. 3, 2023 – Jul. 10, 2023)	189 (6.2 Months)
Total Project Duration	679 (22.3 Months)

*Based on a professional services contract execution by December 21, 2021.

Design Criteria, Design Methodology, and Specifications:

Michael will prepare the design drawings and specifications in accordance with the following technical design criteria and methodology as provided by the following agencies and appropriate publications:

- FAA Advisory Circular 150/5300-13A or 13B, “Airport Design”
- FAA Advisory Circular 150/5340-1M, “Standards for Airport Pavement Markings”
- FAA Advisory Circular 150/5320-6G, “Airport Pavement Design & Evaluation”
- FAA Advisory Circular 150/5370-2G, “Operational Safety on Airport During Construction”
- FAA Advisory Circular 150/5340-18G, “Standards for Airport Sign Systems”
- FAA Advisory Circular 150/5340-30J, “Design and Installation Details for Airport Visual Aids”
- FAA Advisory Circular 150/5370-10H, “Standards for Specifying Construction of Airports”
- FAA Advisory Circular 150/5320-5D, “Airport Drainage Design”



Southwest Florida Water Management District Design Criteria

Pinellas County Engineering Design Criteria

Assumptions and Exclusions

- The project will only be divided into Project Areas 1 and 2, both as separate base bid schedules represented by a single set of construction documents. Scope excludes splitting the project into any additional bid alternates. It is assumed that both base bids will be awarded and constructed.
- The project does not include demolishing Runway 9-27 east of Runway 18-36. However, this can be added to the scope of work if requested.
- The scope includes preparing only a single set of bid / construction documents, not two (2) separate sets of documents for each project area.
- Scope excludes three-dimensional renderings. Two-dimensional site layouts are included.
- Scope excludes preparing an update to the Airport Layout Plan (ALP), the Airport Master Plan (AMP), or the Airport Master Drainage Plan (AMDP).
- Scope excludes designing water or wastewater adjustments or improvements.
- It is assumed that a Construction Safety and Phasing Plan (CSPP) will be prepared as described in this document, even though FAA Grant funding is not being pursued.
- Scope excludes payment of any permitting fees. It is assumed the Contractor will apply for and pay for the NPDES construction permit and all other permitting fees will be paid by the Owner.
- Scope excludes the design of any new fencing or gates or adjustments to existing fencing and gates.
- Scope excludes wetland delineation or wetland mitigation and associated permitting. It is assumed that the site has been formally cleared of these items.
- Scope excludes hazardous materials surveys and mitigation and associated permitting.
- Permitting services covered by this scope of work are limited to only those services specifically described in this scope of work.
- OWNER will provide the CONSULTANT and subconsultants access to the site to perform site investigations as necessary. CONSULTANT is responsible for badge fees and escorting CONSULTANT's staff onsite.
- OWNER will provide all available information pertinent to the design and construction of this project including the documentation listed in **Task 1.3**.
- The DBE goals for this contract are 5.09% for FY2022 and 6.64% for FY2023. These goals are expected to be exceeded.
- All meeting attendance will be virtual unless specifically indicated as in-person attendance.



- Subconsultants will not attend OWNER meetings unless specially stated otherwise.
- The civil/site design will be prepared in AutoDesk Civil 3D, version 2020 or newer.
- OWNER will submit FDOT Grant applications and other grant applications that might be required.
- Grant services are currently excluded from the scope of work.
- Quality Control materials testing is excluded from the scope of work as this will be performed by the Contractor.
- CONSULTANT's Project Manager is badged. CONSULTANT will have an additional person badged to escort survey and geotechnical crews during field work. The RPR and backup Inspector will also be badged. No other badging is expected for CONSULTANT's staff. One (1) representative from each of the subconsultant's will be badged to perform field work: Bluewing, Echo UES, and MC Squared.
- It is assumed that CM staff will only be reviewing and administering a single set of construction documents, not two (2) separate sets of documents for each project area.
- CONSULTANT is not preparing or maintaining a construction schedule, only reviewing, and tracking the Contractor's schedule.
- CONSULTANT's RPR will perform Davis Bacon Wage Rate interviews and collect and file Certified Payrolls.
- The fee proposal is based on Project Areas 1 and 2 largely being constructed concurrently and there being no delay or time gap between work in each project area.
- If the duration from NTP to final construction completion exceeds 10-months, CONSULTANT will receive additional compensation for Construction Administration and CM/RPR services which will be negotiated and approved prior to beginning work. Compensation for additional Backup Inspector and QA Materials testing may also be required.
- Scope excludes CM related to handling hazardous materials.
- Flagging of surface water limits are not included in this scope.
- U.S. Army Corps of Engineers (USACE) Section 404 Permit Application is not included in this scope.
- Scope excludes gopher tortoise and burrowing owl surveys.
- Special purpose protected species surveys for the Florida bonneted bat, the Florida scrub-jay, bald eagles and/or the crested caracara are not included in this scope.
- Formal consultation meetings or correspondence with the USFWS to address potential protected species impacts is not included in this scope.
- The ERP application will be submitted electronically via the SWFWMD's ePermitting portal.
- Hard copy deliverables are not included unless specifically stated otherwise in this scope of work.



- OWNER may negotiate additional contract(s) with CONSULTANT for services beyond the scope or assumptions of this project for PROJECT related services not specifically identified above.
- Contractor will provide office space at the airport or near the project site for the RPR. At least 100 square feet to include: HVAC, plumbing, power, internet, desktop, and printer. This will be written into the Contractor's contract.
- Except upon written instructions of the CONSULTANT, RPR and backup Inspector shall not:
 - Authorize any deviation from the contract documents or approve any substitute materials or equipment.
 - Exceed limitations of the CONSULTANT's authority as set forth in the contract documents.
 - Undertake any of the responsibilities of the Contractor, subcontractors, or Contractor's superintendent, or expedite the work.
 - Advise on or issue directions relative to any aspect of the means, methods, techniques, sequences, or procedures of construction unless such is specifically called for in the contract documents.
 - Issue directions as to Contractor's safety programs in connection with the work.
 - Accept shop drawing or sample submittals from anyone other than the Contractor.
 - Authorize COUNTY to occupy or utilize the project in whole or in part, without the approval of the CONSULTANT.
 - Participate in specialized field or laboratory tests, or inspections conducted by others except as specifically authorized by the CONSULTANT.
- Quality Assurance (QA) materials testing assumptions:
 - Ten (10) month construction duration.
 - One hundred (100) days of QA testing services is assumed which includes:
 - Embankment compaction testing
 - Pipe/structure backfill compaction testing
 - Crushed concrete and/or limerock base course compaction testing and thickness verification
 - PCC pavement (P-501) sampling
 - ACC pavement (P-401) sampling
 - Structural concrete (P-610) sampling
 - Sample pickups not in conjunction with other onsite work
 - Two security badges for MC Squared
 - Up to five (5) different soil types for embankment soil testing
 - Up to ten (10) days of crushing/processing of demolished concrete pavement. Gradation testing twice per day. Two (2) modified proctors for crushed concrete.
 - Assumed no less than 3,000 square yards / shift production rate on average for P-401. The phasing plan has not yet been established and may result in a lower average production rate and may require additional testing.
 - Average of 60 CY/hr and performed in 6 hour-shifts for P-501. Assumed up to 17 days of paving and 2 acceptance beams per subplot. The phasing plan has not yet been established and may result in a lower average production rate and may require additional testing.
 - Maturity meters are included for an early break comparison for high-early strength concrete.



- Beams will sit onsite for at least 24-hours before transporting to lab for strength testing.
- It is assumed that light cans will be precast and not require QA concrete testing.
- Scope includes concrete testing for up to ten (10) new sign pads.

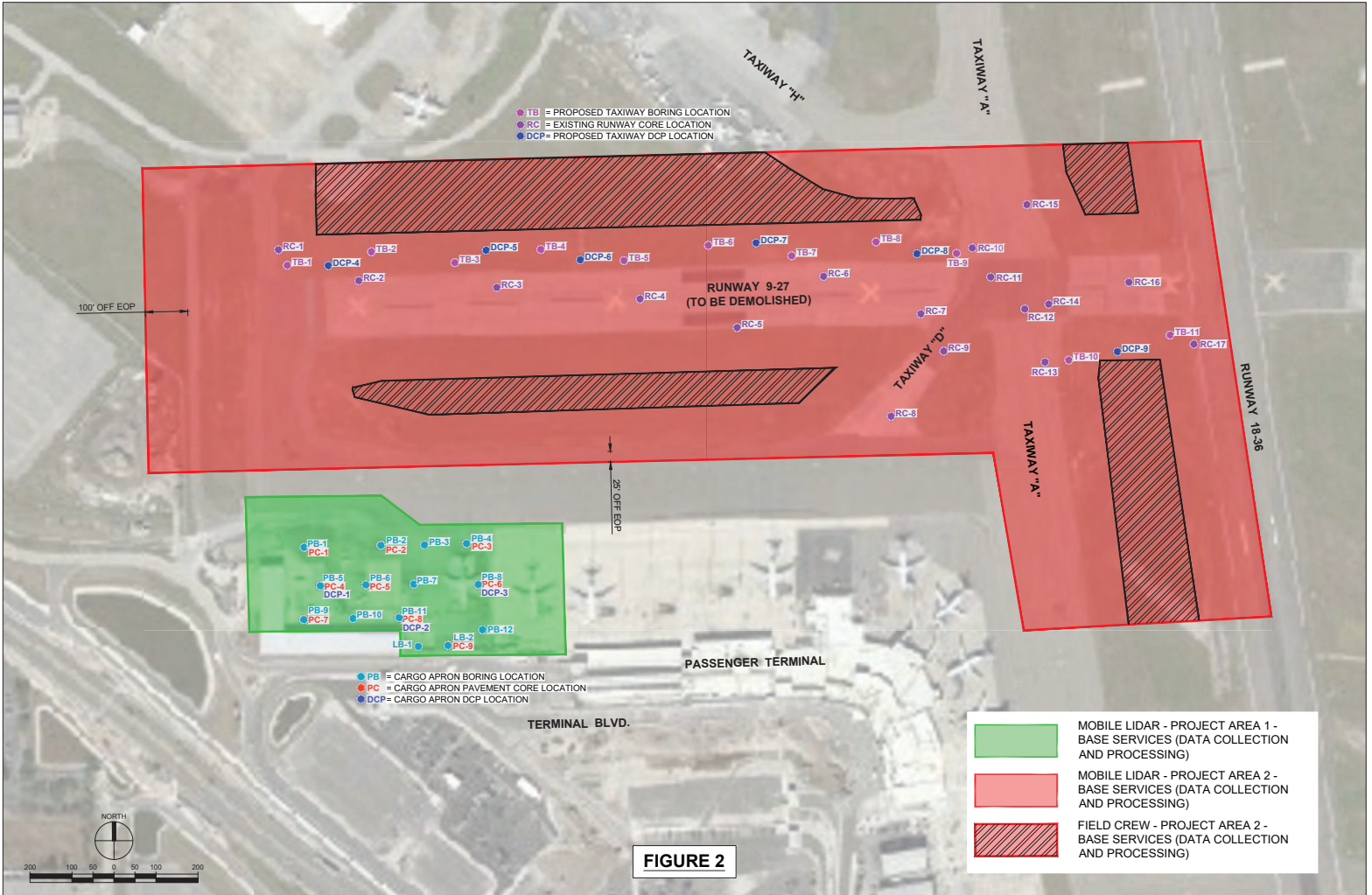
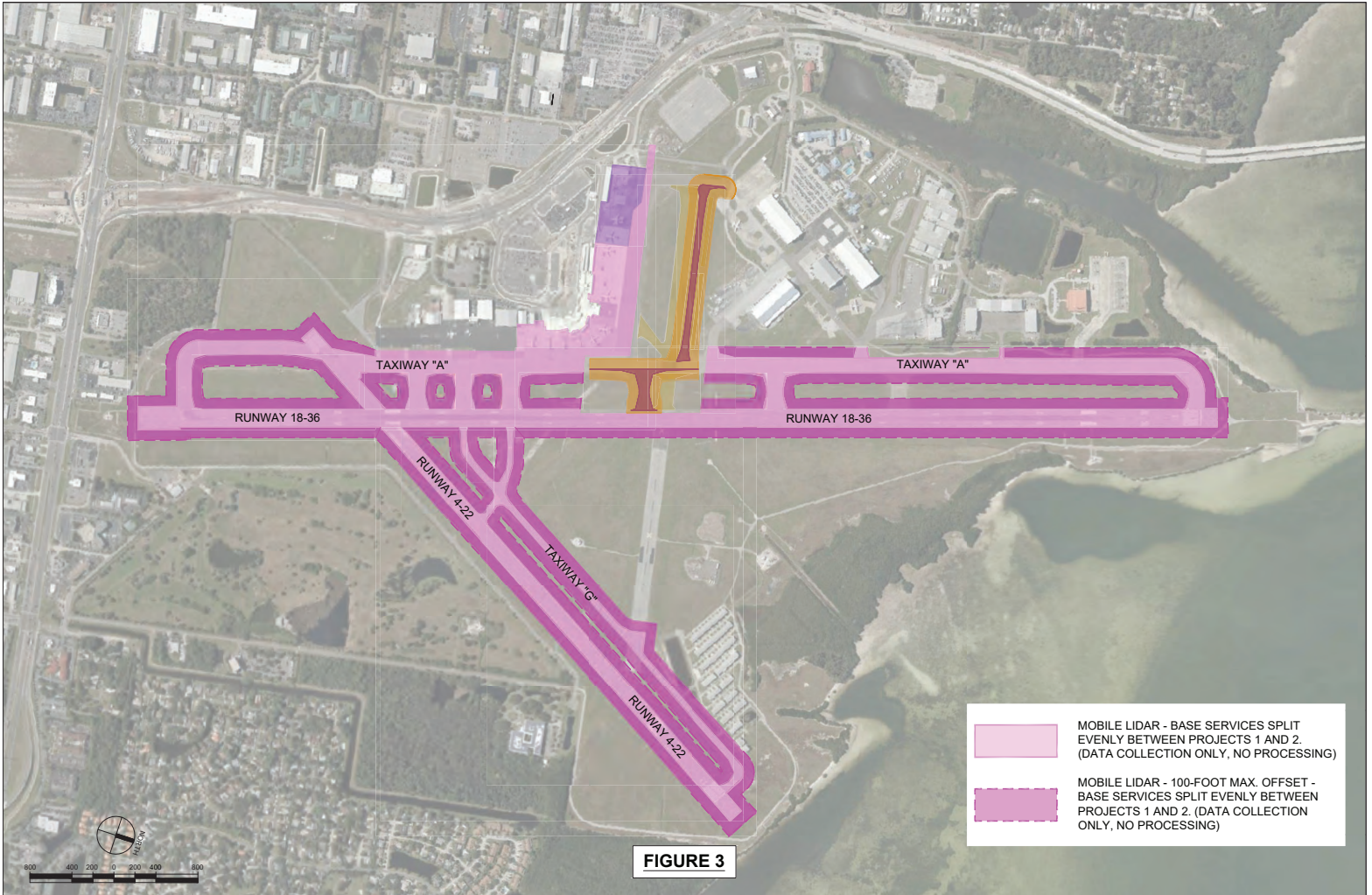


FIGURE 2





FEE SUMMARY

DESIGN AND BIDDING SERVICES	Project Area 1	Project Area 2	Both Project Areas
Phase 1 - Data Collection			
Michael Baker Labor	\$ 40,368.00	\$ 46,751.00	\$ 87,119.00
Michael Baker Reimbursable Expenses (LiDAR)	\$ 3,050.00	\$ 3,050.00	\$ 6,100.00
1.5 Conventional Survey - Echo UES	\$ 9,316.00	\$ 18,304.00	\$ 27,620.00
1.6 SUE, Horizontal Locates - Echo UES	\$ 9,043.00	\$ 21,282.00	\$ 30,325.00
1.7 Geotechnical Investigation - MC Squared	\$ 57,942.10	\$ 40,414.64	\$ 98,356.74
Phase 2 - Concept Design and Stormwater			
Michael Baker Labor	\$ 31,203.00	\$ 56,851.00	\$ 88,054.00
2.6 Environmental Support - Bluewing (Area 2 Only)	\$ -	\$ 6,900.00	\$ 6,900.00
5.11 Pinellas County Permitting - Landis Evans (Concept)	\$ 3,000.00	\$ 3,000.00	\$ 6,000.00
Phase 3 - 30% Design			
Michael Baker Labor	\$ 48,677.50	\$ 48,460.50	\$ 97,138.00
Airfield Electrical and High-Mast Lighting - Omega	\$ 9,695.03	\$ 28,919.16	\$ 38,614.19
Phase 4 - 60% Design			
Michael Baker Labor	\$ 81,744.00	\$ 82,321.00	\$ 164,065.00
Airfield Electrical and High-Mast Lighting - Omega	\$ 8,323.37	\$ 23,244.31	\$ 31,567.68
5.11 Pinellas County Permitting - Landis Evans (60% Design)	\$ 5,769.70	\$ 5,769.70	\$ 11,539.40
Phase 5 - 90% Design			
Michael Baker Labor	\$ 61,739.50	\$ 66,610.00	\$ 128,349.50
Airfield Electrical and High-Mast Lighting - Omega	\$ 6,680.85	\$ 23,244.31	\$ 29,925.16
Phase 6 - 100% Design			
Michael Baker Labor	\$ 24,954.50	\$ 31,199.00	\$ 56,153.50
Airfield Electrical and High-Mast Lighting - Omega	\$ 6,894.81	\$ 17,023.14	\$ 23,917.95
Phase 7 - Bidding			
Michael Baker Labor	\$ 8,170.00	\$ 8,170.00	\$ 16,340.00
Airfield Electrical and High-Mast Lighting - Omega	\$ 1,263.99	\$ 2,916.54	\$ 4,180.53
Michael Baker Reimbursable Expenses	\$ 810.00	\$ 810.00	\$ 1,620.00
SUBTOTAL MBI SERVICES	\$ 300,716.50	\$ 344,222.50	\$ 644,939.00
SUBTOTAL SUBCONSULTANT SERVICES	\$ 117,928.85	\$ 191,017.80	\$ 308,946.65
TOTAL DESIGN AND BIDDING SERVICES	\$ 418,645.35	\$ 535,240.30	\$ 953,885.65
CONSTRUCTION SERVICES			
Phase 8 - Construction Administration			
Michael Baker Labor	\$ 84,209.00	\$ 84,209.00	\$ 168,418.00
Airfield Electrical and High-Mast Lighting - Omega	\$ 7,069.63	\$ 24,803.17	\$ 31,872.80
Phase 9 - Construction Management / RPR			
Michael Baker Labor	\$ 206,096.00	\$ 206,096.00	\$ 412,192.00
4.6, 4.7, 8.5, 8.6 Pavement Marking Support - Sightline	\$ 5,400.00	\$ 5,400.00	\$ 10,800.00
10.1 Quality Assurance Materials Testing - MC Squared	\$ 48,845.00	\$ 48,845.00	\$ 97,690.00
SUBTOTAL MBI SERVICES	\$ 290,305.00	\$ 290,305.00	\$ 580,610.00
SUBTOTAL SUBCONSULTANT SERVICES	\$ 61,314.63	\$ 79,048.17	\$ 140,362.80
TOTAL CONSTRUCTION SERVICES	\$ 351,619.63	\$ 369,353.17	\$ 720,972.80
TOTAL MBI SERVICES	\$ 591,021.50	\$ 634,527.50	\$ 1,225,549.00
TOTAL SUBCONSULTANT SERVICES	\$ 179,243.48	\$ 270,065.97	\$ 449,309.45
TOTAL DESIGN/BIDDING & CONSTRUCTION	\$ 770,264.98	\$ 904,593.47	\$ 1,674,858.45

Total Pinellas County SBEs (Base Services)	16.6%	\$ 278,431.14
Total DBEs (Base Services)	25.8%	\$ 431,770.05

OPTIONAL ADDED SERVICES (SUBS ONLY)			
1.6 Conventional Survey - Echo UES - Drainage Outfalls (Assumes All 3 Outfalls) (DESIGN ONLY)	\$ -	\$ 10,000.04	\$ 10,000.04
3.3 Subsurface Utility Engineering (SUE), Vertical Locates - Echo UES (Assumes 3 Days) (DESIGN ONLY)	\$ 6,760.00	\$ 6,760.00	\$ 13,520.00
11.1 Quality Assurance As-Built Surveying (If Required, Allowance) (CONSTRUCTION ONLY)	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00
TOTAL OPTIONAL ADDED SERVICES (SUBS ONLY)	\$ 21,760.00	\$ 31,760.04	\$ 53,520.04
TOTAL OPTIONAL ADDED SERVICES (SUBS ONLY)			\$ 50,000.00

Firm is Both an SBE and DBE
 Firm is Only a Pinellas County SBE
 Firm is Only a Disadvantaged Business Enterprise (DBE)





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Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
PROJECT AREA 1 - CARGO APRON REHABILITATION
St. Pete-Clearwater International Airport (PIE)
Design, Bidding, Construction Administration, and Construction Management Services

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Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPPF)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
Phase 1 - Data Collection (12 Weeks)													
1.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	14												14
1.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	14												14
1.3 Review of Pertinent Documents		4		4	6	4	6	6					30
1.4 Data Collection Escort								149					149
1.5A Mobile LIDAR Collection (Figures 2 and 3, Project Area 1 and Half the Airfield)		5							21				26
1.5B Mobile LIDAR Processing (Figure 2, Project Area 1)		8							24				32
1.9 Engineers' Field Visits	6	4											10
1.10 Survey Integration / Base Mapping					8		8	4					20
Phase 1 - Data Collection (12 Weeks) Hours	34	21	0	4	14	4	14	159	45	0	0	0	295
Phase 1 - Data Collection (12 Weeks) Fee	\$6,630.00	\$4,977.00	\$0.00	\$718.00	\$2,240.00	\$718.00	\$1,974.00	\$17,490.00	\$5,625.00	\$0.00	\$0.00	\$0.00	\$40,368.00
Phase 2 - Conceptual Design and Stormwater Treatment Study (7 Weeks)													
2.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	10												10
2.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	10												10
2.3 Concept Exhibits (Includes QC)													
Vehicle Service Road / Non-Movement Markings Near Gate P			0.5	1			3	3					7.5
Light-Duty vs. Heavy-Duty Concrete Limits			0.5	1			4	5					10.5
Future Ramp Grading Schematic / NFPA Grading Requirements		8.0	0.5	4	2		12	12					38.5
Future Conceptual Cross-Sections		8.0	0.5	2	1		8	12					31.5
Parking Position Layouts			0.5	2			8	8					18.5
Final Project Concept			0.5	2		5	8	12					27.5
Concept Design Meeting (2 Meetings, Split Into 1 Meeting Per Project Area)	3	5.0											8
2.4 Budgetary Cost Estimate (Includes QC)	2		2.0	3	3	3	8	3					24
2.5 Stormwater Treatment Study (Project Area 2 Only) (Includes QC)													0
2.7 SWFWMD Pre-Application Meeting (Split Between Project Areas 1 & 2)	2	2.0			2		4						10
2.8 Pinellas County Pre-Application Meeting (Split Between Project Areas 1 & 2)	2												2
Phase 2 - Conceptual Design and Stormwater Treatment Study (7 Weeks) Hours	29	23	5	15	8	8	55	55	0	0	0	0	198
Phase 2 - Conceptual Design and Stormwater Treatment Study (7 Weeks) Fee	\$5,655.00	\$5,451.00	\$895.00	\$2,685.00	\$1,280.00	\$1,432.00	\$7,755.00	\$6,050.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31,203.00
Phase 3 - Preliminary Design Phase (30%) (6 Weeks)													
3.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	12			6	6		6	6					36
3.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	12	6											18
3.4 Engineering Design, Modeling, and Calculations (30%) (Includes QC)		4		12	20								36
3.5 Drawings (30%) (Includes QC & Electrical Peer Review)						8							8
Cover Sheet			0.5				2	2					5
Drawing Index			0.5				2	3					6
General Notes			0.5	2			2	2					7
Project Layout, Access, and Staging Plan			0.5	3			6	8					18

Cargo Apron Reconstruction

Design, Bidding, Construction Administration, and Construction Management Services



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St. Pete-Clearwater International Airport (PIE)
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Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPP)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
Airspace Protection Plan			0.5	3			6	8					18
Construction Phasing Plan - Overall		2	1.0	3			6	8					20
Existing Condition Plan			1.0	3			6	8					18
Demolition Plan			1.0	6			6	8					21
Typical Pavement Sections			0.5	4			6	8					19
Pavement Geometry Plan			1.0	8			8	12					29
Pavement Marking Plan			0.5	4			6	8					19
3.6 Technical Specifications List				2				2					4
3.7 Cost Estimate (30%)	1		3.0	6	4		6	8					28
3.8 Design Review Meeting (30%)	4	3						6					13
Phase 3 - Preliminary Design Phase (30%) (6 Weeks) Hours	29	15	11	62	30	8	68	97	0	0	0	0	320
Phase 3 - Preliminary Design Phase (30%) (6 Weeks) Fee	\$5,655.00	\$3,555.00	\$1,879.50	\$11,098.00	\$4,800.00	\$1,432.00	\$9,588.00	\$10,670.00	\$0.00	\$0.00	\$0.00	\$0.00	\$48,677.50
Phase 4 - Engineering Phase (60% Design) (7 Weeks)													
4.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	14			6	6		6	6					38
4.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	14	6											20
4.3 Engineering Design and Calculations (Includes QC)		4		12	20								36
4.4 Drawings (60%) (Includes QC and Electrical Peer Review)						8							8
Cover Sheet			0.5				1	1					2.5
Drawing Index			0.5				1	2					3.5
General Notes			0.5	1			1	1					3.5
Project Layout, Access, and Staging Plan			0.5	2			2	4					8.5
Airspace Protection Plan			0.5	2			2	4					8.5
Construction Phasing Plan - Overall (1)		2	1.0	2			2	4					11
Construction Phasing Plan - Individual Phases (5)		4.0	1.0	6			8	12					31
Construction Phasing Details (1)			0.5	1			2	2					5.5
Existing Conditions Plan (1)			0.5	1			2	2					5.5
Demolition Plan (1)			0.5	4			8	8					20.5
Typical Pavement Sections and Paving Details (3)			0.5	4			8	8					20.5
Pavement Geometry Plan (1)			1.0	2			6	6					15
Joint Layout and Elevation Plans (4)			1.0	6			8	8					23
Grading and Drainage Plans (2)			1.0	6	6		8	8					29
Drainage Details (1)			0.5		3		8	8					19.5
Erosion Control Plan (2)			0.5	2			8	8					18.5
SWPPP (1)			0.5		2		4	4					10.5
Pavement Marking Plan (3)			0.5	4			8	8					20.5
Pavement Marking Details (1)			0.5	2			4	4					10.5
4.5 Technical Specifications (60%) (Includes QC)			2.0	4				8					14

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PROJECT AREA 1 - CARGO APRON REHABILITATION

Non-Local Travel Required by Prime

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Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
4.6 Engineer's Report (60%) (Includes QC)	4	8.0	1.0	12	16		8	8					57
4.7 CSPP (60%) (Includes QC)	1	4.0		4			8	4					21
4.8 Cost Estimate (60%) (Includes QC)	1		3.0	6	4		8	8					30
4.9 Design Review Meeting (60%)	4	3						6					13
4.10 SWFWMD Coordination and Permit Application (Split Between Project Areas 1 & 2)		3.0			12		8	8					31
Phase 4 - Engineering Phase (60% Design) (7 Weeks) Hours	38	34	18	87	71	8	129	150	0	0	0	0	535
Phase 4 - Engineering Phase (60% Design) (7 Weeks) Fee	\$7,410.00	\$8,068.00	\$3,222.00	\$15,573.00	\$11,360.00	\$1,432.00	\$18,189.00	\$18,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$81,744.00
Phase 5 - Final Design Phase (90%) (10 Weeks)													
5.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	12			6	6		6	6					36
5.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	12												12
5.3 Engineering Design and Calculations (Includes QC) (8 Additional Hrs for Struct Engr)		4		8	20								32
5.4 Drawings (90%) (Includes QC and Electrical Peer Review)						8							8
Cover Sheet			0.5				1	1					3
Drawing Index			0.5				2	2					5
General Notes			0.5	1			1	1					4
Project Layout, Access, and Staging Plan			0.5	2			4	4					11
Airspace Protection Plan			0.5	2			4	4					11
Construction Phasing Plan - Overall (1)		2	1.0	2			4	4					13
Construction Phasing Plan - Individual Phases (5)		4.0	1.0	6			4	4					19
Construction Phasing Details (1)			0.5	1			1	1					4
Existing Conditions Plan (1)			0.5	1			2	2					6
Demolition Plan (1)			0.5	2			4	4					11
Typical Pavement Sections and Paving Details (3)			0.5	2			4	4					11
High Mast Light Pole Foundation Details (1)			0.5		6		4						11
Pavement Geometry Plan (1)			1.0	2			4	4					11
Joint Layout and Elevation Plans (4)			1.0	4			6	8					19
Grading and Drainage Plans (2)			1.0	4	4		6	8					23
Drainage Details (1)			0.5		4		4	4					13
Erosion Control Plan (2)			0.5		2		4	4					11
SWPPP (1)			0.5		2		2	2					7
Pavement Marking Plan (3)			0.5	2			8	8					19
Pavement Marking Details (1)			0.5	1			4	4					10
5.5 Technical Specifications (90%) (Includes QC)			2.0	4				8					14
5.6 CSPP (90%) (Includes QC)	2	4.0		4			8	4					22
5.7 Cost Estimate (90%) (Includes QC)	1		3.0	6	4		8	8					30
5.8 Front-End Bidding and Contracting Documents (90%)	4	4											8
5.9 Design Review Meeting (90%)	4	3						6					13

Cargo Apron Reconstruction

Design, Bidding, Construction Administration, and Construction Management Services



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Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
PROJECT AREA 1 - CARGO APRON REHABILITATION
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Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
5.10 Pinellas County Coordination and Permit Application (Michael Baker Portion) (Split Between Project Areas 1 & 2)							8	8					16
Phase 5 - Final Design Phase (90%) (10 Weeks) Hours	35	21	18	60	48	8	103	113	0	0	0	0	406
Phase 5 - Final Design Phase (90%) (10 Weeks) Fee	\$6,826.00	\$4,977.00	\$3,132.50	\$10,740.00	\$7,080.00	\$1,432.00	\$14,823.00	\$12,430.00	\$0.00	\$0.00	\$0.00	\$0.00	\$61,738.50
Phase 6 - Bid Documents Phase (100%) (3 Weeks)													
6.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	6			3	3		3	3					18
6.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	6												6
6.4 Drawings (100%) (Includes QC)													0
Cover Sheet			0.5					1					2
Drawing Index			0.5					2					3
General Notes			0.5					1					2
Project Layout, Access, and Staging Plan			0.5	1				2					4
Airspace Protection Plan			0.5	1			1	1					4
Construction Phasing Plan - Overall (1)		1	1.0	1			2	2					7
Construction Phasing Plan - Individual Phases (5)		2.0	1.0	2			3	3					11
Construction Phasing Details (1)			0.5					1					2
Existing Conditions Plan (1)			0.5				1	1					3
Demolition Plan (1)			0.5	2			2	2					7
Typical Pavement Sections and Paving Details (3)			0.5	2			2	2					7
High Mast Light Pole Foundation Details (1)			0.5		1		2						4
Pavement Geometry Plan (1)			1.0	1			2	2					6
Joint Layout and Elevation Plans (4)			1.0	2			2	2					7
Grading and Drainage Plans (2)			1.0	2			2	2					7
Drainage Details (1)			0.5				1	1					3
Erosion Control Plan (2)			0.5					1					2
SWPPP (1)			0.5					1					2
Pavement Marking Plan (3)			0.5	1			1	1					4
Pavement Marking Details (1)			0.5	1				2					4
6.5 Technical Specifications (100%) (Includes QC)			1.0	2				4					7
6.6 Engineer's Report (100%) (Includes QC)	4		1.0	2									7
6.7 CSPP (100%) (Includes QC)	1			2									3
6.8 FAA Form 7460 Online Submission (Includes QC)			1.0	2			8	12					23
6.9 Cost Estimate (100%) (Includes QC)	1		2.0	2			4	4					13
6.10 Front-End Bidding and Contracting Documents (100%)	2	2											4
Phase 6 - Bid Documents Phase (100%) (3 Weeks) Hours	20	5	18	29	4	0	36	53	0	0	0	0	165
Phase 6 - Bid Documents Phase (100%) (3 Weeks) Fee	\$3,900.00	\$1,185.00	\$3,132.50	\$5,191.00	\$640.00	\$0.00	\$5,076.00	\$5,830.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,964.50
Phase 7 - Bidding Phase (10 Weeks)													

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Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
7.1 Internal Project and Contract Management (PM 1 hr/week per project area)	9												9
7.2 Owner, Stakeholder, and Subconsultant Coordination (PM 1 hr/week per project area)	9												9
7.3 Prebid Meeting and Bid Opening	4	2						2					8
7.4 Document Changes During Bidding				2	2		2	2					8
7.5 Requests for Information	1	1		2				1					5
7.6 Evaluation of Bids and Award Recommendation	2			4									6
Phase 7 - Bidding Phase (10 Weeks) Hours	25	3	0	8	2	0	2	5	0	0	0	0	45
Phase 7 - Bidding Phase (10 Weeks) Fee	\$4,875.00	\$711.00	\$0.00	\$1,432.00	\$320.00	\$0.00	\$282.00	\$550.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,170.00
Phase 8 - Construction Administration (45 Weeks)													
8.1 Internal Project and Contract Management (PM 1 hr/week per project area)	45												45
8.2 Owner, Stakeholder, and Subconsultant Coordination (PM 1 hr/week per project area)	45												45
8.3 Conformed Documents			2	4			12	20					38
8.4 Pre-Construction Meeting	5	3											8
8.5 Engineers' Site Visits	33							75					108
8.6 Construction Progress Meetings	25	11											36
8.7 Technical Submittals	2	5		18	10			19					54
8.8 Requests for Information (RFIs)	6			8	8			8					30
8.9 Document Updates During Construction				20			24	28					72
8.10 Materials Testing Reports				15				25					40
8.11 Substantial Completion, Punch List, and Final Completion	8							10					18
8.12 Record Drawings				8			20	20					48
Phase 8 - Construction Administration (45 Weeks) Hours	169	19	2	73	18	0	56	205	0	0	0	0	542
Phase 8 - Construction Administration (45 Weeks) Fee	\$32,955.00	\$4,503.00	\$358.00	\$13,067.00	\$2,880.00	\$0.00	\$7,896.00	\$22,550.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84,209.00
Phase 9 - Construction Management and RPR (45 Weeks)													
9.1 Internal Project and Contract Management (PM 0.5 hr/week per project area)	23	8											31
9.2 Owner, Stakeholder, and Subconsultant Coordination (PM 0.5 hr/week per project area)	23												23
9.3 Create Construction Management Files										12			12
9.4 Pre-Construction Document Review										12	12		24
9.5 Pre-Construction Meeting (Prepare for, Facilitate, and Prepare Minutes)										8			8
9.6 Review Contractor's QC Plans and Other Submittals											12		12
9.7 Develop Construction Management / Quality Assurance Plan	4			5				6					15
9.8 Assist the Airport's Grant Administrator	3			4				4					11
9.9 Collect, Organize, and Tabulate Technical Submittals and RFIs				4				4				8	16
9.10 Collect and Organize Construction Photographs								12				12	24
9.11 Assist Airport in Resolving Claims and Disputes and Negotiating Change Orders	16	8											24
9.12 Collect and Review Project Closeout Documentation and Prepare Closeout Book	2			4				6				8	20
9.13 Full-Time Resident Project Representative (RPR) (43-hr week, 22.5 weeks (half project duration))										968			968

Cargo Apron Reconstruction

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Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
9.14 Back-up Inspector (Nights and Concurrent Work)											116		116
Phase 9 - Construction Management and RPR (45 Weeks) Hours	71	16	0	17	0	0	0	32	0	1000	140	28	1304
Phase 9 - Construction Management and RPR (45 Weeks) Fee	\$13,845.00	\$3,792.00	\$0.00	\$3,043.00	\$0.00	\$0.00	\$0.00	\$3,520.00	\$0.00	\$160,000.00	\$19,740.00	\$2,156.00	\$206,096.00
Labor Totals (Michael Baker Base Services)													
Total Estimated Hours:	450	157	71	355	195	36	463	869	45	1000	140	28	3808.5
Total Labor Costs (Michael Baker, Lump Sum):	\$67,750.00	\$37,209.00	\$12,619.50	\$63,545.00	\$31,200.00	\$8,444.00	\$65,283.00	\$95,590.00	\$5,625.00	\$160,000.00	\$19,740.00	\$2,156.00	\$587,161.50
Reimbursable Expenses (Michael Baker Base Services)													
Non-Local Travel (2 Trips x 440 Miles per Trip X \$0.58/mile)													\$ 510.00
Lodging (Non-Local Travel) (2 Nights at \$150/night)													\$ 300.00
Mobile LIDAR Expenses (Per Diem, Vehicle, Equipment) - Base Survey (Task 1.4A)													\$ 3,050.00
Total Base Expenses (Michael Baker, Reimbursable)													\$ 3,860.00
TOTAL MBI SERVICES (LABOR PLUS REIMBURSEABLE EXPENSES)													\$591,021.50
Subconsultants (Base Services)													
1.5 Conventional Survey - Echo UES													\$ 9,316.00
1.6 Subsurface Utility Engineering (SUE), Horizontal Locates - Echo UES													\$ 9,043.00
1.7 Geotechnical Investigation - MC Squared													\$ 57,942.10
5.11 Pinellas County Coordination and Permit Application - Landis Evans													\$ 8,769.70
8.5, 8.6 Pavement Marking Support - Sightline													\$ 5,400.00
Ohmega - Airfield Electrical and High-Mast Lighting, Bidding, and Construction Support													\$ 39,927.68
10.1 Quality Assurance Materials Testing													\$ 48,845.00
Subconsultants Total (Base Services)													\$ 179,243.48
Subconsultants (Optional Services)													
3.3 Subsurface Utility Engineering (SUE), Vertical Locates - Echo UES (Assumes 3 Days)													\$ 6,760.00
11.1 Quality Assurance As-Built Surveying													\$ 15,000.00
Subconsultants Total (Total Services Maybe Not Required or Optional Added Services)													\$ 21,760.00
TOTAL LUMP SUM AMOUNT (BASE SERVICES)													\$770,264.98
TOTAL (OPTIONAL SERVICES)													\$21,760.00

Cargo Apron Reconstruction

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
PROJECT AREA 1 - CARGO APRON REHABILITATION
St. Pete-Clearwater International Airport (PIE)
Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIT Technical Specialist I	Construction Manager I (RPR)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
FEE SUMMARY													

Total Design, Bidding, Construction Administration, and Construction Management Services **\$770,264.98**

Total Construction Cost - Budgetary Estimate **\$2,600,000.00**

HOURS SUMMARY	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIT Technical Specialist I	Construction Manager I (RPR)	Construction Specialist II	Administrative Assistant II	TOTALS
Total Hours	450.0	157.0	70.5	355.0	195.0	36.0	463.0	869.0	45.0	1000.0	140.0	28.0	3808.5
Total Days	56.3	19.6	8.8	44.4	24.4	4.5	57.9	108.6	5.6	125.0	17.5	3.5	476.1
Total Weeks	11.3	3.9	1.8	8.9	4.9	0.9	11.6	21.7	1.1	25.0	3.5	0.7	95.2
Total Months	2.6	0.9	0.4	2.0	1.1	0.2	2.6	4.9	0.3	5.7	0.8	0.2	21.6

Cargo Apron Reconstruction

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY
St. Pete-Clearwater International Airport (PIE)
Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPP)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
Phase 1 - Data Collection (12 Weeks)													
1.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	14												14
1.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	14												14
1.3 Review of Pertinent Documents		4		4	6	4	6	6					30
1.4 Data Collection Escort								149					149
1.5A Mobile LIDAR Collection (Figures 2 and 3, Project Area 2 and Half the Airfield)		7							40				47
1.5B Mobile LIDAR Processing (Figure 2, Project Area 2)		13							47				60
1.9 Engineers' Field Visits	6	4											10
1.10 Survey Integration / Base Mapping				4	2		6	4					16
Phase 1 - Data Collection (12 Weeks) Hours	34	28.0	0.0	8.0	8.0	4.0	12.0	159.0	87.0	0.0	0.0	0.0	340
Phase 1 - Data Collection (12 Weeks) Fee	\$6,690.00	\$6,696.00	\$0.00	\$1,432.00	\$1,280.00	\$718.00	\$1,892.00	\$17,490.00	\$10,875.00	\$0.00	\$0.00	\$0.00	\$46,751.00
Phase 2 - Conceptual Design and Stormwater Treatment Study (7 Weeks)													
2.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	10												10
2.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	10												10
2.3 Concept Exhibits (Includes QC)													
Leasehold w/ Taxiway C TOFA and TSA Limits			0.5	2			3	4					9.5
Future Ramp Grading Schematic w/ Taxiway C Centerline		4.0	0.5	6			12	12					34.5
Future Conceptual Cross-Sections		8.0	0.5	6	1		12	12					39.5
Taxiway A4 Alignment/Extents		8.0	0.5	6			12	12					38.5
Final Project Concept - Demolition			0.5	2			8	8					18.5
Final Project Concept - Proposed			0.5	2		5	8	8					23.5
Concept Design Meeting (2 Meetings, Split Into 1 Meeting Per Project Area)	3	5.0											8
2.4 Budgetary Cost Estimate (Includes QC)	2		2.0	3	3	3	8	3					24
2.5 Stormwater Treatment Study (Project Area 2 Only) (Includes QC)		20.0			100								120
2.7 SWFWMD Pre-Application Meeting (Split Between Project Areas 1 & 2)	2	2.0			2		4						10
2.8 Pinellas County Pre-Application Meeting (Split Between Project Areas 1 & 2)	2												2
Phase 2 - Conceptual Design and Stormwater Treatment Study (7 Weeks) Hours	29	47	5	27	106	8	67	59	0	0	0	0	348
Phase 2 - Conceptual Design and Stormwater Treatment Study (7 Weeks) Fee	\$5,655.00	\$11,139.00	\$895.00	\$4,833.00	\$16,980.00	\$1,432.00	\$9,447.00	\$6,490.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,851.00
Phase 3 - Preliminary Design Phase (30%) (6 Weeks)													
3.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	12			6	6		6	6					36
3.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	12	6											18
3.4 Engineering Design, Modeling, and Calculations (30%) (Includes QC)		4		8	16								28
3.5 Drawings (30%) (Includes QC & Electrical Peer Review)						8							8
Cover Sheet			0.5				2	2					5
Drawing Index			0.5				3	3					7
General Notes			0.5	2			2	2					7
Project Layout, Access, and Staging Plan			0.5	4			6	8					19

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY

St. Pete-Clearwater International Airport (PIE)

Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPP)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
Airspace Protection Plan			0.5	4			6	8					19
Construction Phasing Plan - Overall		2	1.0	4			6	8					21
Existing Condition Plan			1.0	4			6	8					19
Demolition Plan			1.0	6			6	8					21
Typical Pavement Sections			0.5	4			6	8					19
Pavement Geometry Plan			1.0	8			8	12					29
Pavement Marking Plan			0.5	4			6	8					19
3.6 Technical Specifications List				2				2					4
3.7 Cost Estimate (30%)	1		3.0	6	4		8	8					30
3.8 Design Review Meeting (30%)	4	3						6					13
Phase 3 - Preliminary Design Phase (30%) (6 Weeks) Hours	29	15	11	62	26	8	71	97	0	0	0	0	319
Phase 3 - Preliminary Design Phase (30%) (6 Weeks) Fee	\$5,655.00	\$3,555.00	\$1,879.50	\$11,098.00	\$4,160.00	\$1,432.00	\$10,011.00	\$10,670.00	\$0.00	\$0.00	\$0.00	\$0.00	\$46,480.50
Phase 4 - Engineering Phase (60% Design) (7 Weeks)													
4.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	14			6	6		6	6					38
4.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	14	6											20
4.3 Engineering Design and Calculations (Includes QC)		4		12	20								36
4.4 Drawings (60%) (Includes QC and Electrical Peer Review)						8							8
Cover Sheet			0.5				1	1					2.5
Drawing Index			0.5				2	2					4.5
General Notes			0.5	1			1	1					3.5
Project Layout, Access, and Staging Plan			0.5	2			4	4					10.5
Airspace Protection Plan			0.5	2			4	4					10.5
Construction Phasing Plan - Overall (1)		2	1.0	2			4	4					13
Construction Phasing Plan - Individual Phases (5)		4.0	1.0	10			12	12					39
Construction Phasing Details (1)			0.5	1			2	2					5.5
Existing Conditions Plan (1)			0.5	1			2	2					5.5
Demolition Plan (1)			0.5	4			8	8					20.5
Typical Pavement Sections and Paving Details (3)			0.5	4			8	8					20.5
Pavement Geometry Plan (1)			1.0	2			6	6					15
Taxiway Profiles (2)			1.0	6			8	8					23
Grading and Drainage Plans (3)			1.0	6	6		8	8					29
Drainage Details (1)			0.5		4		8	8					20.5
Erosion Control Plan (3)			0.5		2		8	8					18.5
SWPPP (1)			0.5		2		4	4					10.5
Pavement Marking Plan (3)			0.5	4			6	8					18.5
Pavement Marking Details (1)			0.5	2			4	4					10.5
4.5 Technical Specifications (60%) (Includes QC)			2.0	4				8					14

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY

St. Pete-Clearwater International Airport (PIE)

Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPP)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
4.6 Engineer's Report (60%) (Includes QC)	4	8.0	1.0	12	12		6	6					49
4.7 CSPP (60%) (Includes QC)	1	4.0		4			6	4					19
4.8 Cost Estimate (60%) (Includes QC)	1		3.0	8	4		6	6					28
4.9 Design Review Meeting (60%)	4	3						6					13
4.10 SWFWMD Coordination and Permit Application (Split Between Project Areas 1 & 2)		3.0			12		8	8					31
Phase 4 - Engineering Phase (60% Design) (7 Weeks) Hours	38	34	18	93	68	8	132	146	0	0	0	0	537
Phase 4 - Engineering Phase (60% Design) (7 Weeks) Fee	\$7,410.00	\$8,068.00	\$3,222.00	\$16,647.00	\$10,880.00	\$1,432.00	\$18,612.00	\$16,080.00	\$0.00	\$0.00	\$0.00	\$0.00	\$82,321.00
Phase 5 - Final Design Phase (90%) (10 Weeks)													
5.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	12			6	6		6	6					36
5.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	12												12
5.3 Engineering Design and Calculations (Includes QC)		4		12	16								32
5.4 Drawings (90%) (Includes QC and Electrical Peer Review)						8							8
Cover Sheet			0.5				1	1					3
Drawing Index			0.5				2	2					5
General Notes			0.5	1			1	1					4
Project Layout, Access, and Staging Plan			0.5	2			4	4					11
Airspace Protection Plan			0.5	2			4	4					11
Construction Phasing Plan - Overall (1)		2	1.0	2			4	4					13
Construction Phasing Plan - Individual Phases (5)		4.0	1.0	6			8	8					27
Construction Phasing Details (1)			0.5	1			1	1					4
Existing Conditions Plan (1)			0.5	1			2	2					6
Demolition Plan (1)			0.5	4			4	4					13
Typical Pavement Sections and Paving Details (3)			0.5	4			4	4					13
Pavement Geometry Plan (1)			1.0	2			4	4					11
Taxiway Profiles (3)			1.0	4			8	8					21
Taxiway Cross Sections (8)			2.0	4			12	12					30
Grading and Drainage Plans (2)			1.0	4	6		8	8					27
Drainage Details (1)			0.5		4		8	8					21
Erosion Control Plan (2)			0.5		2		4	4					11
SWPPP (1)			0.5		2		2	2					7
Pavement Marking Plan (3)			0.5	2			8	8					19
Pavement Marking Details (1)			0.5	1			4	4					10
5.5 Technical Specifications (90%) (Includes QC)			2.0	4				8					14
5.6 CSPP (90%) (Includes QC)	2	4.0		4			6	4					20
5.7 Cost Estimate (90%) (Includes QC)	1		3.0	6	4		6	6					26
5.8 Front-End Bidding and Contracting Documents (90%)	4	4											8
5.9 Design Review Meeting (90%)	4	3						6					13

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY

St. Pete-Clearwater International Airport (PIE)

Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPP)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
5.10 Pinellas County Coordination and Permit Application (Michael Baker Portion) (Split Between Project Areas 1 & 2)							6	6					12
Phase 5 - Final Design Phase (90%) (10 Weeks) Hours	35	21	19	72	40	8	117	129	0	0	0	0	441
Phase 5 - Final Design Phase (90%) (10 Weeks) Fee	\$6,825.00	\$4,977.00	\$3,401.00	\$12,888.00	\$6,400.00	\$1,432.00	\$16,497.00	\$14,190.00	\$0.00	\$0.00	\$0.00	\$0.00	\$86,610.00
Phase 6 - Bid Documents Phase (100%) (3 Weeks)													
6.1 Internal Project and Contract Management (PM 2 hrs/week per project area)	6			3	3		3	3					18
6.2 Owner, Stakeholder, and Subconsultant Coordination (PM 2 hrs/week per project area)	6												6
6.3 Stormwater Ledger (Project Area 2 Only)		2			16								18
6.4 Drawings (100%) (Includes QC)													0
Cover Sheet			0.5					1					2
Drawing Index			0.5				1	2					4
General Notes			0.5					1					2
Project Layout, Access, and Staging Plan			0.5	1			1	2					5
Airspace Protection Plan			0.5	1			1	1					4
Construction Phasing Plan - Overall (1)		1	1.0	1			2	2					7
Construction Phasing Plan - Individual Phases (5)		2.0	1.0	2			6	6					17
Construction Phasing Details (1)			0.5					1					2
Existing Conditions Plan (1)			0.5				1	1					3
Demolition Plan (1)			0.5	2			2	2					7
Typical Pavement Sections and Paving Details (3)			0.5	2			2	2					7
Pavement Geometry Plan (1)			1.0	1			2	2					6
Taxiway Profiles (3)			1.0	2			2	2					7
Taxiway Cross Sections (8)			2.0	2			6	6					17
Grading and Drainage Plans (2)			1.0	2			4	4					11
Drainage Details (1)			0.5				1	1					3
Erosion Control Plan (2)			0.5				1	1					3
SWPPP (1)			0.5				1	1					3
Pavement Marking Plan (3)			0.5	1			1	1					4
Pavement Marking Details (1)			0.5	1			1	2					5
6.5 Technical Specifications (100%) (Includes QC)			1.0	2				4					7
6.6 Engineer's Report (100%) (Includes QC)	4		1.0	2									7
6.7 CSPP (100%) (Includes QC)	1			2									3
6.8 FAA Form 7460 Online Submission (Includes QC)			1.0	2			8	8					19
6.9 Cost Estimate (100%) (Includes QC)	1		2.0	2			4	4					13
6.10 Front-End Bidding and Contracting Documents (100%)	2	2											4
Phase 6 - Bid Documents Phase (100%) (3 Weeks) Hours	20	7	19	31	19	0	50	60	0	0	0	0	206
Phase 6 - Bid Documents Phase (100%) (3 Weeks) Fee	\$3,900.00	\$1,659.00	\$3,401.00	\$6,649.00	\$3,040.00	\$0.00	\$7,060.00	\$6,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31,199.00

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY

St. Pete-Clearwater International Airport (PIE)

Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPR)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
Phase 7 - Bidding Phase (9 Weeks)													
7.1 Internal Project and Contract Management (PM 1 hr/week per project area)	9												9
7.2 Owner, Stakeholder, and Subconsultant Coordination (PM 1 hr/week per project area)	9												9
7.3 Prebid Meeting and Bid Opening	4	2						2					8
7.4 Document Changes During Bidding				2	2		2	2					8
7.5 Requests for Information	1	1		2				1					5
7.6 Evaluation of Bids and Award Recommendation	2			4									6
Phase 7 - Bidding Phase (9 Weeks) Hours	25	3	0	8	2	0	2	5	0	0	0	0	45
Phase 7 - Bidding Phase (9 Weeks) Fee	\$4,875.00	\$711.00	\$0.00	\$1,432.00	\$320.00	\$0.00	\$282.00	\$550.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,170.00
Phase 8 - Construction Administration (45 Weeks)													
8.1 Internal Project and Contract Management (PM 1 hr/week per project area)	45												45
8.2 Owner, Stakeholder, and Subconsultant Coordination (PM 1 hr/week per project area)	45												45
8.3 Conformed Documents			2	4			12	20					38
8.4 Preconstruction Meeting	5	3											8
8.5 Engineers' Site Visits	33							75					108
8.6 Construction Progress Meetings	25	11											36
8.7 Technical Submittals	2	5		18	10			19					54
8.8 Requests for Information (RFIs)	6			8	8			8					30
8.9 Document Updates During Construction				20			24	28					72
8.10 Materials Testing Reports				15				25					40
8.11 Substantial Completion, Punch List, and Final Completion	8							10					18
8.12 Record Drawings				8			20	20					48
Phase 8 - Construction Administration (45 Weeks) Hours	169	19	2	73	18	0	56	205	0	0	0	0	542
Phase 8 - Construction Administration (45 Weeks) Fee	\$32,955.00	\$4,503.00	\$358.00	\$13,067.00	\$2,880.00	\$0.00	\$7,896.00	\$22,550.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84,209.00
Phase 9 - Construction Management and RPR (45 Weeks)													
9.1 Internal Project and Contract Management (PM 0.5 hr/week per project area)	23	8											31
9.2 Owner, Stakeholder, and Subconsultant Coordination (PM 0.5 hr/week per project area)	23												23
9.3 Create Construction Management Files										12			12
9.4 Pre-Construction Document Review										12	12		24
9.5 Pre-Construction Meeting (Prepare for, Facilitate, and Prepare Minutes)										8			8
9.6 Review Contractor's QC Plans and Other Submittals											12		12
9.7 Develop Construction Management / Quality Assurance Plan	4			5				6					15
9.8 Assist the Airport's Grant Administrator	3			4				4					11
9.9 Collect, Organize, and Tabulate Technical Submittals and RFIs				4				4				8	16
9.10 Collect and Organize Construction Photographs								12				12	24
9.11 Assist Airport in Resolving Claims and Disputes and Negotiating Change Orders	16	8											24
9.12 Collect and Review Project Closeout Documentation and Prepare Closeout Book	2			4				6				8	20

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY
St. Pete-Clearwater International Airport (PIE)
Design, Bidding, Construction Administration, and Construction Management Services

Non-Local Travel Required by Prime

Service May Not Be Required, or is an Optional Added Service

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIS Technical Specialist I	Construction Manager I (RPR)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
9.13 Full-Time Resident Project Representative (RPR) (43-hr week, 22.5 weeks (half project duration))										968			968
9.14 Back-up Inspector (Nights and Concurrent Work)											116		116
Phase 9 - Construction Management and RPR (45 Weeks) Hours	71	16	0	17	0	0	0	32	0	1000	140	28	1304
Phase 9 - Construction Management and RPR (45 Weeks) Fee	\$13,845.00	\$3,792.00	\$0.00	\$3,043.00	\$0.00	\$0.00	\$0.00	\$3,520.00	\$0.00	\$160,000.00	\$19,740.00	\$2,156.00	\$206,096.00
Labor Totals (Michael Baker Base Services)													
Total Estimated Hours:	450	190	74	391	287	36	507	892	87	1000	140	28	4081.5
Total Labor Costs (Michael Baker, Lump Sum):	\$87,780.00	\$45,030.00	\$13,158.50	\$89,989.00	\$45,920.00	\$6,444.00	\$71,487.00	\$98,120.00	\$10,875.00	\$160,000.00	\$19,740.00	\$2,156.00	\$630,667.50
Reimbursable Expenses (Michael Baker Base Services)													
Non-Local Travel (2 Trips x 440 Miles per Trip X \$0.58/mile)													\$ 510.00
Lodging (Non-Local Travel) (2 Nights at \$150/night)													\$ 300.00
Mobile LIDAR Expenses (Per Diem, Vehicle, Equipment) - Base Survey (Task 1.4A)													\$ 3,050.00
Total Base Expenses (Michael Baker, Reimbursable)													\$ 3,860.00
TOTAL MBI SERVICES (LABOR PLUS REIMBURSEABLE EXPENSES)													\$634,527.50
Subconsultants (Base Services)													
1.5 Conventional Survey - Echo UES													\$ 18,304.00
1.6 Subsurface Utility Engineering (SUE), Horizontal Locates - Echo UES													\$ 21,282.00
1.7 Geotechnical Investigation - MC Squared													\$ 40,414.64
2.6 Environmental Support - Bluewing (Project 2 Only)													\$ 6,900.00
5.11 Pinellas County Coordination and Permit Application - Landis Evans													\$ 8,769.70
8.5, 8.6 Pavement Marking Support - Sightline													\$ 5,400.00
Ohmega - Airfield Electrical and High-Mast Lighting, Bidding, and Construction Support													\$ 120,150.63
10.1 Quality Assurance Materials Testing													\$ 48,845.00
Subconsultants Total (Base Services)													\$ 270,065.97
Subconsultants (Optional Services)													
1.6 Additional Conventional Survey - Echo UES - Drainage Outfalls (Assumes All 3 Outfalls)													\$ 10,000.04
3.3 Subsurface Utility Engineering (SUE), Vertical Locates - Echo UES (Assumes 3 Days)													\$ 6,760.00
11.1 Quality Assurance As-Built Surveying													\$ 15,000.00
Subconsultants Total (Total Services Maybe Not Required or Optional Added Services)													\$ 31,760.04
TOTAL LUMP SUM AMOUNT (BASE SERVICES)													\$904,593.47
TOTAL (OPTIONAL SERVICES)													\$31,760.04

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



October 8, 2021

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

Non-Local Travel Required by Prime

PROJECT AREA 2 - REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY

St. Pete-Clearwater International Airport (PIE)

Service May Not Be Required, or is an Optional Added Service

Design, Bidding, Construction Administration, and Construction Management Services

Item/Task Description	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIT Technical Specialist I	Construction Manager I (RPR)	Construction Specialist II	Administrative Assistant II	Total
Corporate Rates	\$195.00	\$237.00	\$179.00	\$179.00	\$160.00	\$179.00	\$141.00	\$110.00	\$125.00	\$160.00	\$141.00	\$77.00	
FEE SUMMARY													

Total Design, Bidding, Construction Administration, and Construction Management Services \$904,593.47

Total Construction Cost - Budgetary Estimate \$5,500,000.00

HOURS SUMMARY	Project Manager III	Technical Consultant III	Quality Control Manager I	Airfield Engineer IV	Drainage Engineer III	Airfield Electrical Engineer III	Designer IV	Engineering Associate II	GIT Technical Specialist I	Construction Manager I (RPR)	Construction Specialist II	Administrative Assistant II	TOTALS
Total Hours	450.0	190.0	73.5	391.0	287.0	36.0	507.0	892.0	87.0	1000.0	140.0	28.0	4081.5
Total Days	56.3	23.8	9.2	48.9	35.9	4.5	63.4	111.5	10.9	125.0	17.5	3.5	510.2
Total Weeks	11.3	4.8	1.8	9.8	7.2	0.9	12.7	22.3	2.2	25.0	3.5	0.7	102.0
Total Months	2.6	1.1	0.4	2.2	1.6	0.2	2.9	5.1	0.5	5.7	0.8	0.2	23.2

Replacement for Runway 9-27 with a Taxiway

Design, Bidding, Construction Administration, and Construction Management Services



PROPOSAL / SCOPE OF WORK

DATE: August 30, 2021

TO: Nathan Parish, PE, CCM - Aviation
Michael Baker International
4211 W Boy Scout Blvd, Suite 500
Tampa, FL 33607

FROM: Sarah Brammell, Blue Wing Environmental, LLC

RE: PIE Cargo Apron Reconstruction Project - Wildlife Hazard Review

Blue Wing Environmental, LLC (BWE) has the qualifications and experience to provide Federal Aviation Administration (FAA) Qualified Airport Wildlife Biologist (QAWB) Services to Michael Baker International (Client). The project includes services to review the designs and location for planned storm water management facilities at St. Pete Clearwater International Airport (PIE) associated with the cargo apron reconstruction and replacement for Runway 9-27 with a taxiway.

SCOPE OF WORK

Task 1 – Stormwater Management System Preliminary Design Review

BWE will meet with Client to review the preliminary designs or alternative concepts for the project's stormwater management facilities. This task may include up to two meetings and the development of matrix comments and input to document the review.

Task 2 – Stormwater Management System Preliminary Design Review

TASK 2A HAS BEEN REMOVED FROM THE SCOPE OF WORK. IF THIS IS REQUIRED, IT WILL BE DONE UNDER BLUEWING'S GEC CONTRACT.

TASK 2A HAS BEEN REMOVED FROM THE SCOPE OF WORK. IF THIS IS REQUIRED, IT WILL BE DONE UNDER BLUEWING'S GEC CONTRACT.

Task 2B - Wildlife Hazards Site Visit Report/Technical Memorandum

Following the WHSV field work or, if acceptable to the FAA, review of available continual monitoring data (without WHSV observations listed in Task 2A), BWE will develop a technical memorandum to document the current environmental setting, wildlife strike report data summary, observation data summary, and recommendations or best management practices to reduce the risk of wildlife strikes to aviation associated with the proposed project. BWE will work with the Client to incorporate comments and revisions for the draft and final memorandum. BWE will assist the Client in responding to comments or questions received by the FAA.

Task 3 – Airfield Turf - Revegetation Review

BWE will assist in the development and review of the specification for revegetation material for airfield turf following the construction phase of the project. A large portion of the project includes removal of previous material with replacement of airfield turf grass. BWE will provide reference to FAA guidance to reduce the risk of creating a wildlife hazard attractant with planting materials during the installation or maintenance phase.

SCHEDULE & DELIVERABLES

- NTB - To be determined

LABOR HOURS BY TASK ATTACHED

PIE Cargo Apron Project

Date: August 30, 2021

	<i>Rate Category</i>	
	<i>FAA QAWB</i>	\$100.00
TASKS / BILLING RATES	(hours)	
Task 1 – Stormwater Management System Preliminary Design Review	16	\$1,600.00
Task 2 B - Wildlife Hazards Site Visit Report/Technical Memorandum	45	\$4,500.00
Task 3 – Airfield Turf - Revegetation Review	8	\$800.00
TOTAL HOURS	117	\$6,900.00

PROJECT 2 ONLY

Base Service - \$6,900.00

Total - \$6,900.00

(Revised 10/05/2021)

Nathan Parrish, PE
Michael Baker International
4211 W. Boy Scout Blvd., Ste. 500
Tampa, Florida 33607

PROPOSAL FOR SUBSURFACE UTILITY INVESTIGATION AND SURVEY SERVICES

Project: Cargo Apron Reconstruction & Replace Runway 9-27 (21-0546-NC (SS))

Dear Mr. Parrish:

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

Project Limits: ECHO's proposed services will be performed within a well-defined area as shown on the attached graphic representation (Project Limits). Services provided within said limits will consist of marking the horizontal location of utilities (designating), survey services to record discovered utility information, setting control survey for Michael Baker's LiDAR activities, survey existing drainage structures, and survey obscured areas where LiDAR is unable, ultimately resulting in a 2/D AutoCAD Civil 3D electronic file. The project limits are described in two parts. Part 1: Cargo Apron Reconstruction and Part 2: Replacement for Runway 9-27.

Subsurface Underground Utility Investigation Services Description: Using a combination of field investigative techniques and technology, including surface geophysical instruments (as needed to support the mapping) and vacuum excavation, ECHO will perform the following services.

- ECHO will **identify and horizontally delineate the existing utilities** located within the limits identified in attached Project Limits. 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.

Utilities that ECHO will attempt to identify, and mark are utilities located within the project limits, with the exclusion of small irrigation lines, non-conductive water services.

- **Verification of utility location and characteristics.** At specific locations (specified by Michael Baker) ECHO will attempt to expose utilities via minimally intrusive methods (e.g., use of vacuum excavation) to address potential utility conflicts with the proposed construction and confirm the utilities' characteristics (e.g., type, size, material, direction, configuration) and provide an accurate vertical 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** discovered during the steps outlined above. The surveyed utilities will be tied to control provided by ECHO.

Survey Services Description: In support of Mobile LiDAR activities, ECHO will perform supplemental surveying to establish survey control for the LiDAR survey consisting of collecting approximately 27 evenly distributed control points within the primary survey area as identified by MBA. These control points will consist of existing airport features collected by the mobile LiDAR unit – including paint markings, manholes and/or lights – and will be collected using GNSS-RTK methodologies for horizontal positioning and leveling for elevation. Additional services will include providing conventional survey of the areas not able to be obtained by the mobile LiDAR including any drainage structures within the limits of survey (structure, pipe size/type and invert elevations).

Deliverables:

- Topographic survey drawing (electronically signed and sealed PDF format and AutoCAD DWG format; 3 signed and sealed hardcopies (22x34 size))
- SUE Field deliverables will consist of field marks (e.g., pin flags, paint marks, wooden lathes, nails/discs etc.) showing the position of the test holes and located utilities. Test hole data report (THDR) containing all the information obtained via test holes and visual verification.

Proposed Schedule: To be discussed and agreed to upon receipt of the executed contract.

Notes and Limitations:

1. Client shall facilitate access to the site and provide any relevant project information.
2. Site must be clear from obstacles impeding access to any portion of the project limits.
3. Standard work hours are from 7:00am to 3:30pm, Monday through Friday. Additional charges may occur (following discussion with the Client) in case of weekend or nighttime work.
4. ECHO will not work on any site that is known to be contaminated with any hazardous or harmful substance.
5. 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.
6. 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.
7. Regardless of the type of estimate proposed (e.g. lump sum, 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 ECHO's field work performance (e.g. adverse site conditions), ECHO reserves the right to seek additional funds to complete the work.
8. 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.

9. 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.
10. 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.

Fee: Based on previous experience on similar projects our estimate to complete the above-described professional services is:

- Designate, Locate, and Survey Utilities within the defined limits, create utility map
Limiting Amount (LA)
 - **Cargo Apron Reconstruction (Part 1)** = **\$15,803.00**
 - **Replacement for Runway 9-27 (Part 2)** = **\$28,042.00**

Additional Vacuum Excavation of underground utilities can be provided at a rate of \$2,101.00 per 10-hour day. This is a loaded rate including all field and office support time. To be performed only upon written request.

- Establish Horizontal and Vertical Control for Mobile LiDAR and Conventional Survey, Survey Obscured Areas, and Drainage Structures, and Survey three (3) Outfalls (LA)
 - **Cargo Apron Reconstruction (Part 1)** = **\$ 9,316.00**
 - **Replacement for Runway 9-27 (Part 2)** = **\$28,304.00**

Additional survey days can be provided at a rate of \$2,230.00 per 10-hour day. This is a loaded rate including all field and office support time. To be performed only upon written request.

At ECHO UES, Inc. we believe in collaboration and communication with our clients and are driven to understand their needs and provide time efficient and cost-effective solutions.

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

Sincerely,

ECHO UES, Inc.



Jerry Comellas, Jr., PE
President

Labor/Fee Estimate Summary - CONSULTANT (ECHO UES, Inc.) - Cargo Apron Reconstruct & Replace Runway 9-27 (21-0546-NC (SS))											
Billing Rate:		\$ 163.00	\$ 172.00	\$ 107.00	\$ 76.00	\$ 166.00	\$ 178.00	Fee Estimate (\$)			
Task Description		Project Manager	Senior Surveyor (PSM)	Project Surveyor (PSM)	Survey/SUE/CADD Technician	SUE Designating/Locating Crew (2-Person)	Survey Crew (3-Person)	Total	Labor	Expenses	Total
Cargo Apron Reconstruction (Part 1)											
SUE and SURVEY SERVICES (NTE LABOR + EXPENSES)											
	Total	1	5	12	52	60	50	180	\$25,119.00	\$0.00	\$25,119.00
1.2	Conventional Survey (setting control, off-pavement areas, and existing drainage pipe invert elevations)		4	8	32		30	74	\$9,316.00		\$9,316.00
1.6	Subsurface Utility Engineering (SUE), Horizontal Locates and Survey to support the SUE	1	1	4	20	30	10	66	\$9,043.00		\$9,043.00
3.3	Subsurface Utility Engineering (SUE) – Vertical Locates – Optional Added Service					30	10	40	\$6,760.00		\$6,760.00
								0	\$0.00		\$0.00
								0	\$0.00		\$0.00
								0	\$0.00		\$0.00
		1	5	12	52	60	50	180			
Total Fee - ECHO UES, Inc.		\$163.00	\$860.00	\$1,284.00	\$3,952.00	\$9,960.00	\$8,900.00		\$25,119.00	\$0.00	\$25,119.00
Total Fee - ECHO UES, Inc.											

Labor/Fee Estimate Summary - CONSULTANT (ECHO UES, Inc.) - Cargo Apron Reconstruct & Replace_Runway 9-27_21-0546-NC (SS)											
Billing Rate:		\$ 163.00	\$ 172.00	\$ 107.00	\$ 76.00	\$ 166.00	\$ 178.00	Fee Estimate (\$)			
Task Description		Project Manager	Senior Surveyor (PSM)	Project Surveyor (PSM)	Survey/SUE/CADD Technician	SUE Designating/Locating Crew (2-Person)	Survey Crew (3-Person)	Total	Labor	Expenses	Total
Runway 9-27 Replacement (Part 2)											
SUE and SURVEY SERVICES (NTE LABOR + EXPENSES)	Total	2	6	12	124	110	146	392	\$56,346.04	\$0.00	\$56,346.04
1.2 Conventional Survey (setting control, off-pavement areas, and existing drainage pipe invert elevations)			4	8	80		60	152	\$18,304.00		\$18,304.00
1.6 Subsurface Utility Engineering (SUE), Horizontal Locates and Survey to support the SUE		2	2	4	44	80	20	154	\$21,282.00		\$21,282.00
3.3 Survey Outfalls (all 3) – Optional Added Service							56	56	\$10,000.04		\$10,000.04
3.3 Subsurface Utility Engineering (SUE) – Vertical Locates – Optional Added Service						30	10	30	\$6,760.00		\$6,760.00
							0	0	\$0.00		\$0.00
							0	0	\$0.00		\$0.00
Total Fee - ECHO UES, Inc.		\$326.00	\$1,032.00	\$1,284.00	\$9,424.00	\$18,260.00	\$26,020.04	392	\$56,346.04	\$0.00	\$56,346.04
Total Fee - ECHO UES, Inc.											

Landis Evans + Partners, Inc.
PIE Cargo Apron and Taxiway Scope Description

1. Preapplication Meetings

One representative from Landis Evans will attend a Pre-application Meeting with Pinellas County and a Pre-application with the Southwest Florida Water Management District. Site development and stormwater water quality requirements will be discussed and confirmed at these meetings.

2. Review of Grading and Drainage Plans

Landis Evans will perform a peer review of MBI's Grading and Drainage Plans at Concept, 60% design completion to ensure plans are consistent with the calculations described below and the plans meet the Pinellas County permitting criteria.

3. Stormwater Design and Engineering

The Southwest Florida Water Management District (SWFWMD) and Pinellas County have regulatory jurisdiction over this aspect of site development. It is anticipated that Pinellas County will require improvement of the water quality for discharged stormwater. Calculations will be prepared using the latest Pinellas County Stormwater Technical Manual and the University of Central Florida's BMPTrains software. A report section will be prepared by Landis Evans to be included in the prime consultant's overall drainage report.

The Airport's master stormwater plan will be reviewed as well and Landis Evans will provide guidance to the prime consultant for stormwater modeling. Prime consultant will perform the stormwater modeling.

4. Permit Applications

This task includes the preparation and submittal of the following applications. This task includes responses to comments, coordination with regulatory staff, and other work subsequent to the initial submittal.

- Pinellas County Site Plan Application
- Pinellas County Habitat Management Application

5. Coordination and Project Management

The methodology and communications necessary to execute a project varies depending on the scope and nature of a project but is an essential piece of executing a successful, on-schedule project. Below we have provided the nature of services under this task.

- Telephone conversations and conference calls with the Client, Client's team, and jurisdictional staff;
- Negotiations and responses to requests for clarifications from jurisdictional staff;
- Provision of additional information to garner approval from jurisdictional staff;
- Correspondence and generation of meeting minutes;
- Meetings with Client, project team, and jurisdictional staff to expedite the design and permitting process (including pre-application meetings);
- Status updates and reporting;

Landis Evans + Partners, Inc.
PIE Cargo Apron and Taxiway Scope Description

- Coordination with the Client's sub consultants and agents including but not limited to surveyors, attorney's, contractors, and architects;

Landis Evans + Partners, Inc.
PIE Cargo Apron and Taxiway Hours Estimate

Staff	Hours	Rates	Fee
Staff Engineer	22	\$105.08	\$2,311.76
Senior Engineer	50	\$129.54	\$6,477.00
Chief Engineer	38	\$230.28	<u>\$8,750.64</u>
			\$17,539.40 (Split between both project areas)



October 4, 2021

Mr. Nathan Parish, PE, CCM
Michael Baker International
4211 W Boy Scout Blvd, Suite 500
Tampa, FL 33607

Subject: Proposal for Geotechnical Engineering Services
Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
St. Pete-Clearwater International Airport, Pinellas County, Florida
MC² Proposal No T062107.069

Dear Mr. Parish:

MC Squared, Inc. (MC²) is pleased to present this proposal for geotechnical engineering services associated with Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway at St. Pete-Clearwater International (PIE) Airport in Pinellas County, Florida. This proposal outlines the services we propose to offer on this project, our fees and the schedule that would apply.

PROJECT AND SITE INFORMATION

Project information has been provided to us by Mr. Nathan Parish of **Michael Baker International (MBI)** through e-mails dated August 13 and 24, 2021, and subsequent communications. Based on our understanding, this reconstruction/rehabilitation project has two (2) distinct parts due to funding as explained in the following.

Part 1 – Cargo Apron Reconstruction

The existing Cargo Apron is mostly asphalt over concrete, as well as three (3) concrete hardstands. This pavement will be reconstructed full-depth with a new concrete pavement section. Construction phasing is required to maintain the use of two (2) aircraft parking positions and maintain space for Allegiant equipment throughout construction. The apron will be designed for A319/A320 commercial aircraft and cargo aircraft. The design cargo aircraft is currently undetermined. Part 1 will include:

- Asphalt and concrete pavement demolition (14,800 SY)
- New concrete pavement (13,200 SY)
- New asphalt overlay (1,600 SY)
- Drainage adjustments (potentially)
- New pavement marking
- High-mast lighting (HML)

Part 2 – Replacement for Runway 9-27 with a Taxiway

The decommissioned Runway 9-27 will be demolished between Taxiway B and Runway 18-36. New Taxiways C and A4 will be constructed in generally the same area. Taxiway C will be designed for ADG III aircraft (A319/A320) – 50-ft wide with turfed shoulders. Taxiway A4 will be designed to the same geometric standards as the other connector taxiways to Runway 18-36 (ADG / TDG to be verified) and will include paved shoulders. Construction phasing for Taxiway C will be required to minimize or avoid impact to Taxiways A and B. Construction phasing for Taxiway A4 will be required to avoid or minimize impact to Runway 18-36 and Taxiway A. Part 2 will include:

- Asphalt pavement demolition (37,700 SY)
- New asphalt pavement
- Taxiway C (50' X 1,650')
- Taxiway A4 (75' X 380' + Paved shoulders)
- Drainage adjustments
- New pavement marking
- Airfield lighting and signage
- Electrical and/or NAVAID adjustments (potentially)

PROPOSED SERVICES

MC² would provide the following services to support the design of the two parts of this project:

Part 1 – Cargo Apron Reconstruction

1. Review historic plans, as-builts and readily available subsurface information from any previous geotechnical studies performed by MC² and others that may be provided to us by MBI.
2. Conduct a site reconnaissance of the proposed project location to identify areas with possible access issues for drilling equipment and personnel.
3. Locate existing utilities by 811 services to mark any underground utilities at the locations of the proposed tests. MBI designated subsurface utility firm shall provide utility locating services in addition to 811.
4. MC² will coordinate all field work through MBI designated airport representatives. Coordination shall include but not be limited to the following:
 - Work location and scope of work
 - Schedule and time limitations
 - Working around airport schedules
 - Safety around aircrafts
 - Flagging and barricades
 - Coordination with air traffic control
 - Coordination of test locations including confirmation of utility conflicts

5. The following filed exploration program is proposed for **Part 1** to achieve the project objectives:

Test Type	No. of Tests	Purpose
SPT borings	12 at 10 ft. each	Evaluation of subgrade soils for proposed apron reconstruction
SPT borings	2 at 30 ft. each	Evaluation of High Mast Light (HML) tower foundations
Pavement cores*	9 total (6 in general apron area; 3 in hardstands)	Evaluation of existing apron and concrete material
CBRs	3	Providing a design CBR value for pavement design of existing subgrade material
DCPs	3 at 5 ft. each	Evaluation of the suitability of subgrade for pavement design, and cross-checking CBR results

* GPR service will be required to identify existing reinforcement in the slab to avoid coring through reinforcement. GPR may not be required if the existing concrete is lightly reinforced.

6. Upon completion of the drilling operations, the boreholes would be backfilled using bentonite pellets and/or soil cuttings and be topped with high-strength, non-shrink, quick-setting concrete.
7. Measure groundwater table (GWT) depth during drilling and prior to introduction of drilling fluid, if encountered.
8. Visually examine all the recovered soil samples in the laboratory and perform laboratory tests on selected representative samples to characterize the subsurface soil profile. Description of the soil samples would be in accordance with the Unified Soil Classification System (USCS), as appropriate. The laboratory classification testing will likely include wet sieving through US No. 200 sieve to determine percent fines, Atterberg Limits tests (Liquid Limit and Plastic Limit only), organic content and natural moisture content determinations.
9. **MC²** will only provide the geotechnical parameters that are required for analysis/design of HML foundations. The analysis/design, for axial and lateral loads, will be performed by others.

The scope of work (including efforts for engineering evaluations) for **Part 1** of the project is summarized in the **Table 1** attached.

Part 2 – Replacement for Runway 9-27 with a Taxiway

1. Review historic plans, as-builts and readily available subsurface information from any previous geotechnical studies performed by **MC²** and others that may be provided to us by **MBI**.

2. Conduct a site reconnaissance of the proposed project location to identify areas with possible access issues for drilling equipment and personnel.
3. Locate existing utilities by 811 services to mark any underground utilities at the locations of the proposed tests. MBI designated subsurface utility firm shall provide utility locating services in addition to 811.
4. The following filed exploration program is proposed for **Part 2** to achieve the project objectives:

Test Type	No. of Tests	Purpose
SPT borings	11 at 10 ft. each	Evaluation of subgrade soils for proposed apron reconstruction
Pavement cores	17	Evaluation of existing apron and concrete material
CBRs	7	Providing a design CBR value for pavement design of existing subgrade material as well as stockpile material
DCPs	6 at 5 ft. each	Evaluation of the suitability of subgrade for pavement design, and cross-checking CBR results
DRITs	3 at 6 in. each	Estimation of infiltration rate of near surface soils

5. Upon completion of the drilling operations, the boreholes would be backfilled using bentonite pellets and/or soil cuttings and be topped with a cold patch of asphalt, as required.
6. Measure groundwater table (GWT) depth during drilling and prior to introduction of drilling fluid, if encountered.
7. Visually examine all the recovered soil samples in the laboratory and perform laboratory tests on selected representative samples to characterize the subsurface soil profile. Description of the soil samples would be in accordance with the Unified Soil Classification System (USCS), as appropriate. The laboratory classification testing will likely include wet sieving through US No. 200 sieve to determine percent fines, Atterberg Limits tests (Liquid Limit and Plastic Limit only), organic content and natural moisture content determinations.

The scope of work for **Part 2** of the project is summarized in **Table 2** attached.

The information and data gathered from our field and laboratory tasks for each part of the project will be documented in our Geotechnical Report, which would also include the following:

1. General assessment of area geology based on published literature, our experience and readily available information.

2. General location and description of potentially deleterious materials encountered in the boring, which may interfere with the proposed construction or performance, including existing fills, plastic clays, surficial organics, etc.
3. Critical design and/or construction considerations based on the soil and groundwater conditions understood from the field and lab data collected.
4. Groundwater level in the borings, if encountered, and estimates of the seasonal high groundwater table depth at the SPT borings.
5. Recommendations for soil friction angle, allowable soil bearing capacity, estimate of settlement, and an estimate of the infiltration rate of near surface soils.
6. Recommendations for bedding, subgrade preparation, suitability of excavated soils for use as backfill, and backfill compaction.

One of our qualified engineers or staff geologists would monitor and document the drilling of the SPT borings. All services would be overseen by one of our State of Florida licensed geotechnical engineers.

ASSUMPTIONS

1. Our fees do not include surveying of the boring locations and elevations. We will measure the boring locations from existing structures/features.
2. Drilling activities to be governed by airport schedules. Weekend, holiday, or nighttime work is not required.
3. This evaluation does not include identifying or evaluating environmental aspects of the project site. Evaluation of deep foundations is not a part of our scope of services.
4. This proposal does not address any issues related to sinkholes. If we encounter such issues during our field explorations, then we would notify you accordingly and prepare a budgetary estimate for the additional services.
5. Utility locating to be provided by others prior to our field activities, at no additional cost to **MC²**. Any interpretation of as-built plans or SUE maps are responsibility of others and **MC²** is not responsible for damages or consequent delays.
6. It is assumed that soil cuttings generated during the field operations do not have to be hauled off site. Soil cuttings will be used to backfill the boreholes and excess soils will be spread onsite, in green spaces.
7. We assume no drilling permits are required since borings will be within County property.
8. **MC²** assumes that one person from MC Squared will escort our personnel, including our subcontractors and will remain with the crew/staff during the field exploration program.

9. **MC²** assumes that one person may need security badging/training and the subcontractors will work under our direct supervision. Our subcontractors will not require additional badging.
10. All test locations will be marked by **MC²** in coordination with **MBI** at locations deemed safe (from utility and airport operations conflicts).
11. **MC²** drill rig shall be outfitted with a checked flag during exploration activities.
12. Airport approved barricades shall be used by **MC²** and subcontractors during field activities.
13. Apron and hardstand areas to be restored as close as practical to pre-existing conditions. Follow-up patching may be expected in areas that may subside after our initial exploration activities.
14. It is assumed that **Part 1** and **Part 2** areas can be tested sequentially without demobilizing equipment and drill rigs.
15. Airport to provide requirements for specific patching material for apron areas. In lieu of specific guidelines **MC²** shall utilize conventionally available, non-shrink, quick-set, high-strength concrete.

SCHEDULE

Part 1:

Field Coordination and Laboratory Investigations - Three (3) weeks from receipt of permits and approval of access.

Laboratory Testing and Draft Report - Two (2) weeks from completion of laboratory testing.
Review of report (by **MBI**) – assume no more than two (2) weeks.

Final Report (by **MC²**) – assume one (1) week from receipt of consolidated set of comments.

Part 2:

Field Coordination and Laboratory Investigations - Three (3) weeks from receipt of permits and approval of access.

Laboratory Testing and Draft Report - Two (2) weeks from completion of laboratory testing.
Review of report (by **MBI**) – assume no more than two (2) weeks.

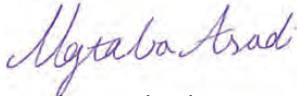
Final Report (by **MC²**) – assume one (1) week from receipt of consolidated set of comments.

We can assist with submitting technical memos or interim reports to assist with design.


*Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway
St. Pete-Clearwater International Airport, Pinellas County, Florida
MC² Proposal No. T062107.069*

MC² appreciates being considered for this project and looks forward to working with you. Please do not hesitate to call if you have any questions.

Respectfully submitted,
MC Squared, Inc.



Mojtaba Asadi, Ph.D., P.E.
Project Engineer



Prashanth Vaddu, P.E.
Sr. Vice President

Attachments:

Table 1: Part 1 SOW

Table 2: Part 2 SOW

Part 1: Proposed Boring Location Plan

Part 1: Proposed Coring Location Plan

Part 1: Proposed CBR Location Plan

Part 1: Proposed DCP Location Plan

Part 2: Proposed Boring Location Plan

Part 2: Proposed Coring Location Plan

Part 2: Proposed CBR Location Plan

Part 2: Proposed DCP Location Plan

Table 1
PIE Airport Project: Part 1 – Cargo Apron Reconstruction
Pinellas County, Florida
MC² Proposal No. T062107.069
4-Oct-21

Service Element	Quantity	Unit	Cost Per Unit	Total Cost
I. FIELD INVESTIGATION				
1. Mobilization of Men and Equipment				
Truck Mounted Equipment	1	Each	\$ 600.00	\$ 600.00
Specialized ATV/Mudbug		Each	\$ 835.00	
Support Vehicle (Drilling Crew)	6	Per Trip	\$ 250.00	\$ 1,500.00
Support Vehicle (Stakeout of Borings/Recon/Utility Check)	10	Per Trip	\$ 70.00	\$ 700.00
Track Mounted Equipment		Each	\$ 2,200.00	
Barge Mounted Equipment		Each	\$ 9,850.00	
Safety Boat		Per Trip	\$ 700.00	
Coring Equipment/DRIT Equipment		Each	\$ 325.00	
2. Truck Mounted Equipment				
a. Standard Penetration Test (SPT) Borings				
0 - 50 feet	180	L.F.	\$ 18.00	\$ 3,240.00
50-100 feet		L.F.	\$ 22.50	
100 -150 feet		L.F.	\$ 36.00	
b. Grout Seal Boreholes				
0 - 50 feet	180	L.F.	\$ 8.50	\$ 1,530.00
50-100 feet		L.F.	\$ 10.00	
100-150 feet		L.F.	\$ 13.50	
c. Casing Allowance				
0 - 50 feet	50	L.F.	\$ 12.00	\$ 600.00
50-100 feet		L.F.	\$ 14.00	
100-150 feet		L.F.	\$ 17.50	
d. Rock Coring				
0 - 50 feet		L.F.	\$ 50.00	
50-100 feet		L.F.	\$ 69.00	
100-150 feet		L.F.	\$ 80.00	
3. Barge/Track Mounted Drilling Equipment				
a. Standard Penetration Test Borings				
0 - 50 feet		L.F.	\$ 26.00	
50-100 feet		L.F.	\$ 30.00	
100-150 feet		L.F.	\$ 56.00	
b. Grout-Seal Boreholes				
0 - 50 feet		L.F.	\$ 10.00	
50-100 feet		L.F.	\$ 15.50	
100-150 feet		L.F.	\$ 19.50	
c. Casing Allowance				
0 - 50 feet		L.F.	\$ 18.00	
50-100 feet		L.F.	\$ 21.50	
100-150 feet		L.F.	\$ 22.50	
d. Rock Coring				
0 - 50 feet		L.F.	\$ 63.00	
50-100 feet		L.F.	\$ 75.00	
100-150 feet		L.F.	\$ 85.00	
4. Extra Split Spoon Samples				
0 - 50 feet		Each	\$ 45.00	

Table 1
PIE Airport Project: Part 1 – Cargo Apron Reconstruction
Pinellas County, Florida
MC² Proposal No. T062107.069
4-Oct-21

Service Element	Quantity	Unit	Cost Per Unit	Total Cost
50-100 feet		Each	\$ 50.00	
100-150 feet		Each	\$ 57.50	
5. Auger Borings				
0 - 50 feet		L.F.	\$ 14.00	
6. Backhoe for Test Pit Excavation				
Cost based on equipment rental (TBN) and labor		Per Day	TBN	
7. Shelby Tube Samples				
0 - 100 feet	2	Each	\$ 250.00	\$ 500.00
8. Infiltration Tests				
9. Permeability Tests				
10. Flagmen & Barricades (2 man crew)				
Barricades/MOT		Per Day	\$ 1,110.00	
Flagmen		Per Day	\$ 1,110.00	
11. Hand Probes (2-man Crew)				
12. 2 inch Piezometer Installation LF				
13. Drilling Permits if required				
14. Site Clearing/Difficult Access				
Cost based on equipment rental (TBN) and labor		Per Day	TBN	
15. Pavement Cores (Asphalt)				
	13	Per Boring	\$ 310.00	\$ 4,030.00
16. Pavement Cores (Asphalt with DCP testing)				
	3	Per Boring	\$ 325.00	\$ 975.00
17. Silt Fencing (protect water body from sediments)				
18. Provide Private Utility Locator Service				
19. Geophysical Survey (GPR)				
	2	Per Day	\$ 2,250.00	\$ 4,500.00
20. Standby Time (safety orientation/access limitations and downtime around airport ops)				
	15	Hour	\$ 335.94	\$ 5,039.10
21. Jar				
	72	Each	\$ 2.00	\$ 144.00
SUBTOTAL FIELD EXPLORATION				\$ 23,358.10

II. LABORATORY INVESTIGATION				
1. Visual Examination/Stratify				
Per Set (1 Set = 5 feet)		Set	\$ 8.00	
2. Natural Moisture Content Tests				
	15	Each Test	\$ 11.00	\$ 165.00
3. Grain Size Analysis (Full Gradation)				
(Single Sieve)	15	Each Test	\$ 75.00	\$ 1,125.00
4. Organic Content Tests				
	5	Each Test	\$ 150.00	\$ 750.00
5. Atterberg Limit Tests				
Liquid Limit Only		Each Test	\$ 87.00	
Plastic Limit Only		Each Test	\$ 63.00	
6. Environmental Test				
(pH, sulfates, chlorides, resistivity)	4	Each Test	\$ 250.00	\$ 1,000.00
7. LBR/CBR Test				
	3	Each Test	\$ 455.00	\$ 1,365.00
8. Standard Proctor				
9. Modified Proctor				
10. Additional LBR/Proctor Points				
		Each Test	\$ 85.00	
11. Consolidation Test				
	2	Each Test	\$ 635.00	\$ 1,270.00

Table 1
PIE Airport Project: Part 1 – Cargo Apron Reconstruction
 Pinellas County, Florida
 MC² Proposal No. T062107.069
 4-Oct-21

Service Element	Quantity	Unit	Cost Per Unit	Total Cost
12. Triaxial Shear Test (per point)		Each Test	\$ 265.00	
13. Split Tension Test		Each Test	\$ 225.00	
14. Unconfined Compression Test		Each Test	\$ 285.00	
15. Specific Gravity		Each Test	\$ 105.00	
16. Extraction & Gradation of Asphalt Samples		Each Test	\$ 320.00	
17. Asphalt Maximum Specific Gravity (Rice) Testing		Each Test	\$ 260.00	
SUBTOTAL LABORATORY TESTING				\$ 8,198.00

III. ENGINEERING AND TECHNICAL SERVICES				
1. CADD Technician	6	Hour	\$ 87.00	\$ 522.00
2. Chief Engineer 2	6	Hour	\$ 240.00	\$ 1,440.00
3. Engineer 1		Hour	\$ 150.00	
4. Engineer 2	32	Hour	\$ 170.00	\$ 5,440.00
5. Engineer 3	24	Hour	\$ 225.00	\$ 5,400.00
6. Engineer Intern (field coordination and monitoring)	80	Hour	\$ 105.00	\$ 8,400.00
7. Field Technician		Hour	\$ 87.00	
8. Geologist		Hour	\$ 120.00	
9. Project Manager 3	24	Hour	\$ 190.00	\$ 4,560.00
10. Secretary/Clerical	8	Hour	\$ 78.00	\$ 624.00
SUBTOTAL ENGINEERING SERVICES				\$ 26,386.00

TOTAL ALL SERVICES				\$ 57,942.10
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Table 2
PIE Airport Project: Part 2 – Replacement for Runway 9-27 with a Taxiway

Pinellas County, Florida
MC² Proposal No. T062107.069

4-Oct-21

Service Element	Quantity	Unit	Cost Per Unit	Total Cost
I. FIELD INVESTIGATION				
1. Mobilization of Men and Equipment				
Truck Mounted Equipment		Each	\$ 600.00	
Specialized ATV/Mudbug		Each	\$ 835.00	
Support Vehicle (Drilling Crew)	3	Per Trip	\$ 250.00	\$ 750.00
Support Vehicle (Stakeout of Borings/Recon/Utility Check)	7	Per Trip	\$ 70.00	\$ 490.00
Track Mounted Equipment		Each	\$ 2,200.00	
Barge Mounted Equipment		Each	\$ 9,850.00	
Safety Boat		Per Trip	\$ 700.00	
Coring Equipment/DRIT Equipment		Each	\$ 325.00	
2. Truck Mounted Equipment				
a. Standard Penetration Test (SPT) Borings				
0 - 50 feet	110	L.F.	\$ 18.00	\$ 1,980.00
50-100 feet		L.F.	\$ 22.50	
100 -150 feet		L.F.	\$ 36.00	
b. Grout Seal Boreholes				
0 - 50 feet	110	L.F.	\$ 8.50	\$ 935.00
50-100 feet		L.F.	\$ 10.00	
100-150 feet		L.F.	\$ 13.50	
c. Casing Allowance				
0 - 50 feet	50	L.F.	\$ 12.00	\$ 600.00
50-100 feet		L.F.	\$ 14.00	
100-150 feet		L.F.	\$ 17.50	
d. Rock Coring				
0 - 50 feet		L.F.	\$ 50.00	
50-100 feet		L.F.	\$ 69.00	
100-150 feet		L.F.	\$ 80.00	
3. Barge/Track Mounted Drilling Equipment				
a. Standard Penetration Test Borings				
0 - 50 feet		L.F.	\$ 26.00	
50-100 feet		L.F.	\$ 30.00	
100-150 feet		L.F.	\$ 56.00	
b. Grout-Seal Boreholes				
0 - 50 feet		L.F.	\$ 10.00	
50-100 feet		L.F.	\$ 15.50	
100-150 feet		L.F.	\$ 19.50	
c. Casing Allowance				
0 - 50 feet		L.F.	\$ 18.00	
50-100 feet		L.F.	\$ 21.50	
100-150 feet		L.F.	\$ 22.50	
d. Rock Coring				
0 - 50 feet		L.F.	\$ 63.00	
50-100 feet		L.F.	\$ 75.00	
100-150 feet		L.F.	\$ 85.00	
4. Extra Split Spoon Samples				
0 - 50 feet		Each	\$ 45.00	

Table 2
PIE Airport Project: Part 2 – Replacement for Runway 9-27 with a Taxiway

Pinellas County, Florida
 MC² Proposal No. T062107.069
 4-Oct-21

Service Element	Quantity	Unit	Cost Per Unit	Total Cost
50-100 feet		Each	\$ 50.00	
100-150 feet		Each	\$ 57.50	
5. Auger Borings				
0 - 50 feet		L.F.	\$ 14.00	
6. Backhoe for Test Pit Excavation				
Cost based on equipment rental (TBN) and labor		Per Day	TBN	
7. Shelby Tube Samples				
0 - 100 feet		Each	\$ 250.00	
8. Infiltration Tests	3	Each	\$ 615.00	\$ 1,845.00
9. Permeability Tests		Each	\$ 615.00	
10. Flagmen & Barricades (2 man crew)				
Barricades/MOT		Per Day	\$ 1,110.00	
Flagmen		Per Day	\$ 1,110.00	
11. Hand Probes (2-man Crew)		Per Day	\$ 1,350.00	
12. 2 inch Piezometer Installation LF		L.F.	\$ 55.00	
13. Drilling Permits if required		Per Boring	\$ 110.00	
14. Site Clearing/Difficult Access				
Cost based on equipment rental (TBN) and labor		Per Day	TBN	
15. Pavement Cores (Asphalt)	17	Per Boring	\$ 310.00	\$ 5,270.00
16. Pavement Cores (Asphalt with DCP testing)	6	Per Boring	\$ 325.00	\$ 1,950.00
17. Silt Fencing (protect water body from sediments)		Per Location	\$ 220.00	
18. Provide Private Utility Locator Service		Per Day	TBN	
19. Geophysical Survey (GPR)		Per Day	\$ 2,250.00	
20. Standby Time (safety orientation/access limitations and downtime around airport ops)	6	Hour	\$ 335.94	\$ 2,015.64
21. Jar	55	Each	\$ 2.00	\$ 110.00
SUBTOTAL FIELD EXPLORATION				\$ 15,945.64

II. LABORATORY INVESTIGATION				
1. Visual Examination/Stratify				
Per Set (1 Set = 5 feet)		Set	\$ 8.00	
2. Natural Moisture Content Tests	10	Each Test	\$ 11.00	\$ 110.00
3. Grain Size Analysis (Full Gradation)	10	Each Test	\$ 145.00	\$ 1,450.00
(Single Sieve)	10	Each Test	\$ 75.00	\$ 750.00
4. Organic Content Tests	5	Each Test	\$ 150.00	\$ 750.00
5. Atterberg Limit Tests	4	Each Test	\$ 87.00	\$ 348.00
Liquid Limit Only		Each Test	\$ 87.00	
Plastic Limit Only		Each Test	\$ 63.00	
6. Environmental Test				
(pH, sulfates, chlorides, resistivity)		Each Test	\$ 250.00	
7. LBR/CBR Test	7	Each Test	\$ 455.00	\$ 3,185.00
8. Standard Proctor		Each Test	\$ 175.00	
9. Modified Proctor		Each Test	\$ 225.00	
10. Additional LBR/Proctor Points		Each Test	\$ 85.00	
11. Consolidation Test		Each Test	\$ 635.00	

Table 2

PIE Airport Project: Part 2 – Replacement for Runway 9-27 with a Taxiway

Pinellas County, Florida

MC² Proposal No. T062107.069

4-Oct-21

Service Element	Quantity	Unit	Cost Per Unit	Total Cost
12. Triaxial Shear Test (per point)		Each Test	\$ 265.00	
13. Split Tension Test		Each Test	\$ 225.00	
14. Unconfined Compression Test		Each Test	\$ 285.00	
15. Specific Gravity		Each Test	\$ 105.00	
16. Extraction & Gradation of Asphalt Samples		Each Test	\$ 320.00	
17. Asphalt Maximum Specific Gravity (Rice) Testing		Each Test	\$ 260.00	
SUBTOTAL LABORATORY TESTING				\$ 6,593.00

III. ENGINEERING AND TECHNICAL SERVICES				
1. CADD Technician	4	Hour	\$ 87.00	\$ 348.00
2. Chief Engineer 2	8	Hour	\$ 240.00	\$ 1,920.00
3. Engineer 1		Hour	\$ 150.00	
4. Engineer 2	20	Hour	\$ 170.00	\$ 3,400.00
5. Engineer 3	20	Hour	\$ 225.00	\$ 4,500.00
6. Engineer Intern (for field coordination and monitoring)	40	Hour	\$ 105.00	\$ 4,200.00
7. Field Technician		Hour	\$ 87.00	
8. Geologist		Hour	\$ 120.00	
9. Project Manager 3	16	Hour	\$ 190.00	\$ 3,040.00
10. Secretary/Clerical	6	Hour	\$ 78.00	\$ 468.00
SUBTOTAL ENGINEERING SERVICES				\$ 17,876.00

TOTAL ALL SERVICES				\$ 40,414.64
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Legend

- SPT Boring
- ▭ New Taxiway
- ▭ Remove Existing Pavement





Google Earth

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↑ N

100 ft

Legend

-  Cargo Apron Parking
-  Pavement Coring





Google Earth


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100 ft


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Legend

-  Cargo Apron Parking
-  CBR Sampling

CBRA-1 

CBRA-2 

 CBRA-3



Google Earth

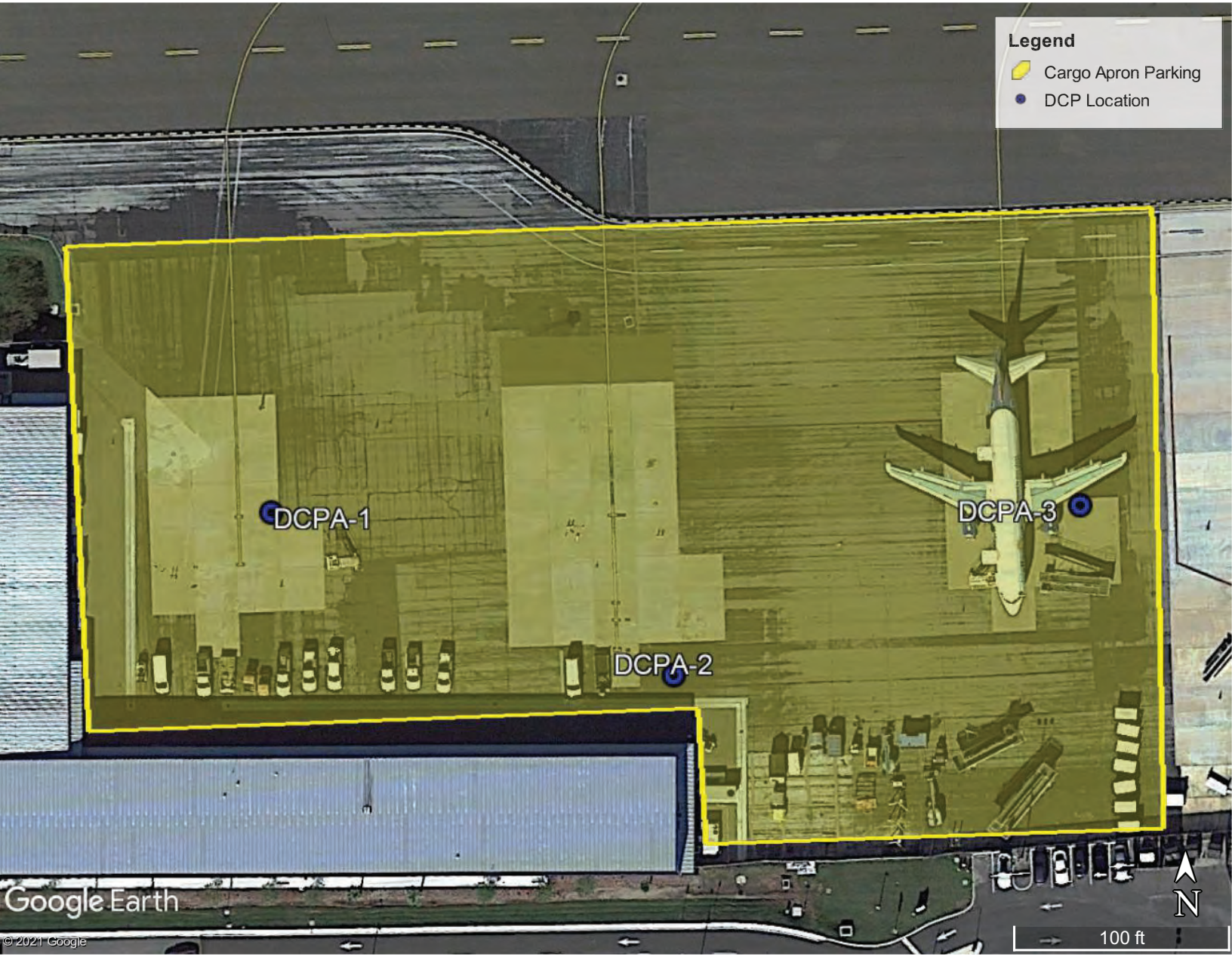
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100 ft



Legend

-  Cargo Apron Parking
-  DCP Location

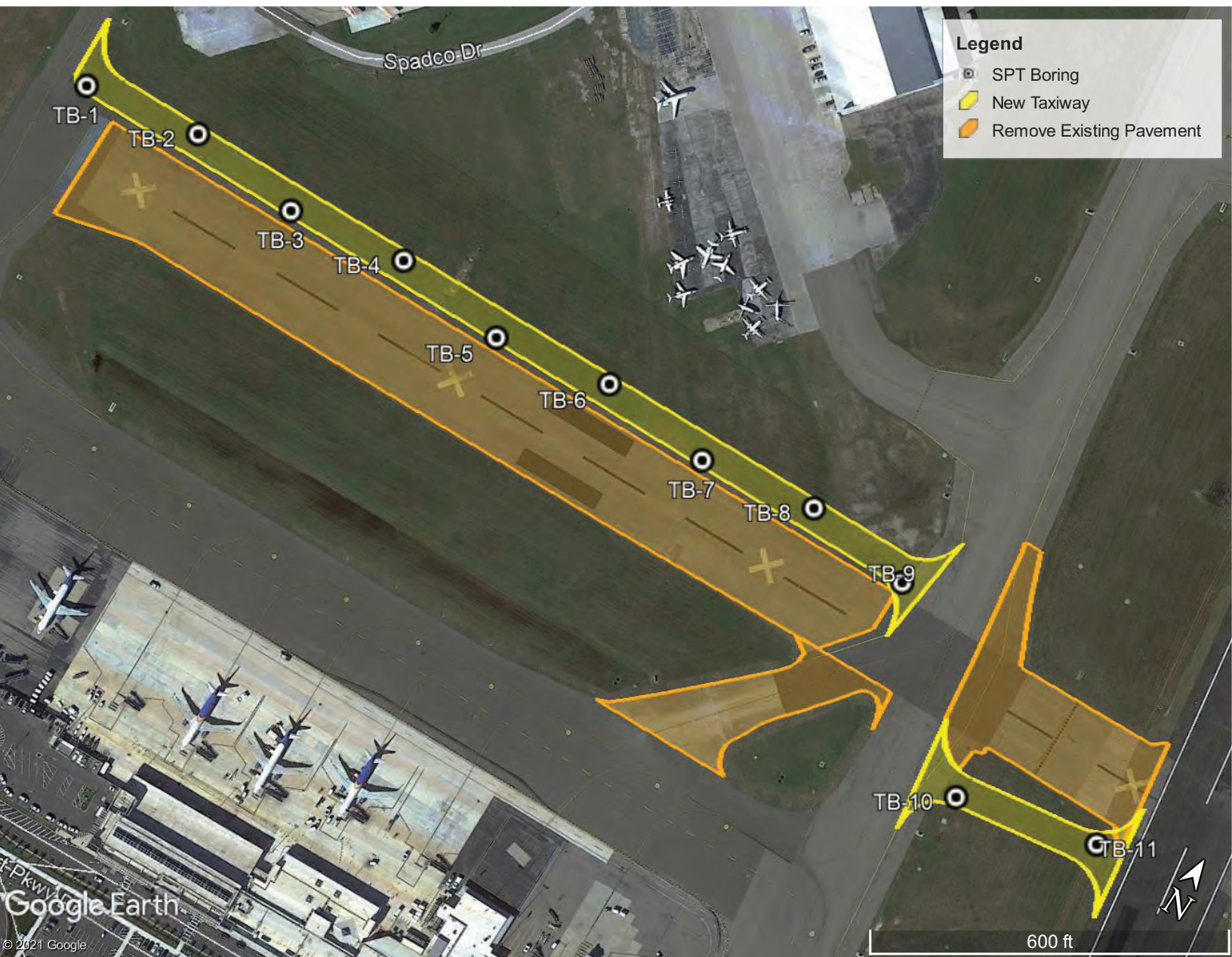


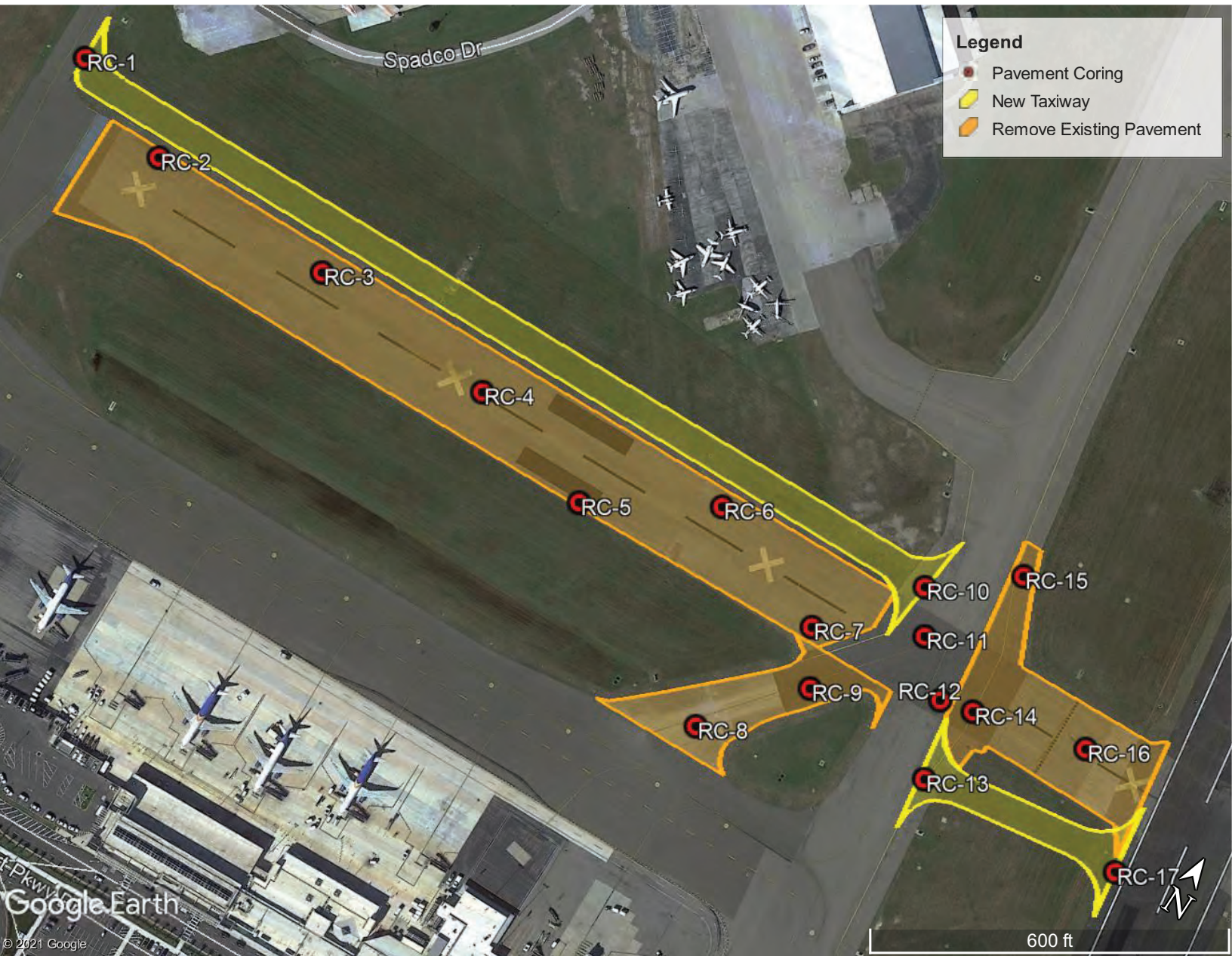
DCPA-1

DCPA-2




DCPA-3







Legend

-  Pavement Coring
-  New Taxiway
-  Remove Existing Pavement

RC-1

RC-2

RC-3

RC-4

RC-5

RC-6

RC-7

RC-8

RC-9

RC-10

RC-11

RC-12

RC-13

RC-14

RC-15

RC-16

RC-17

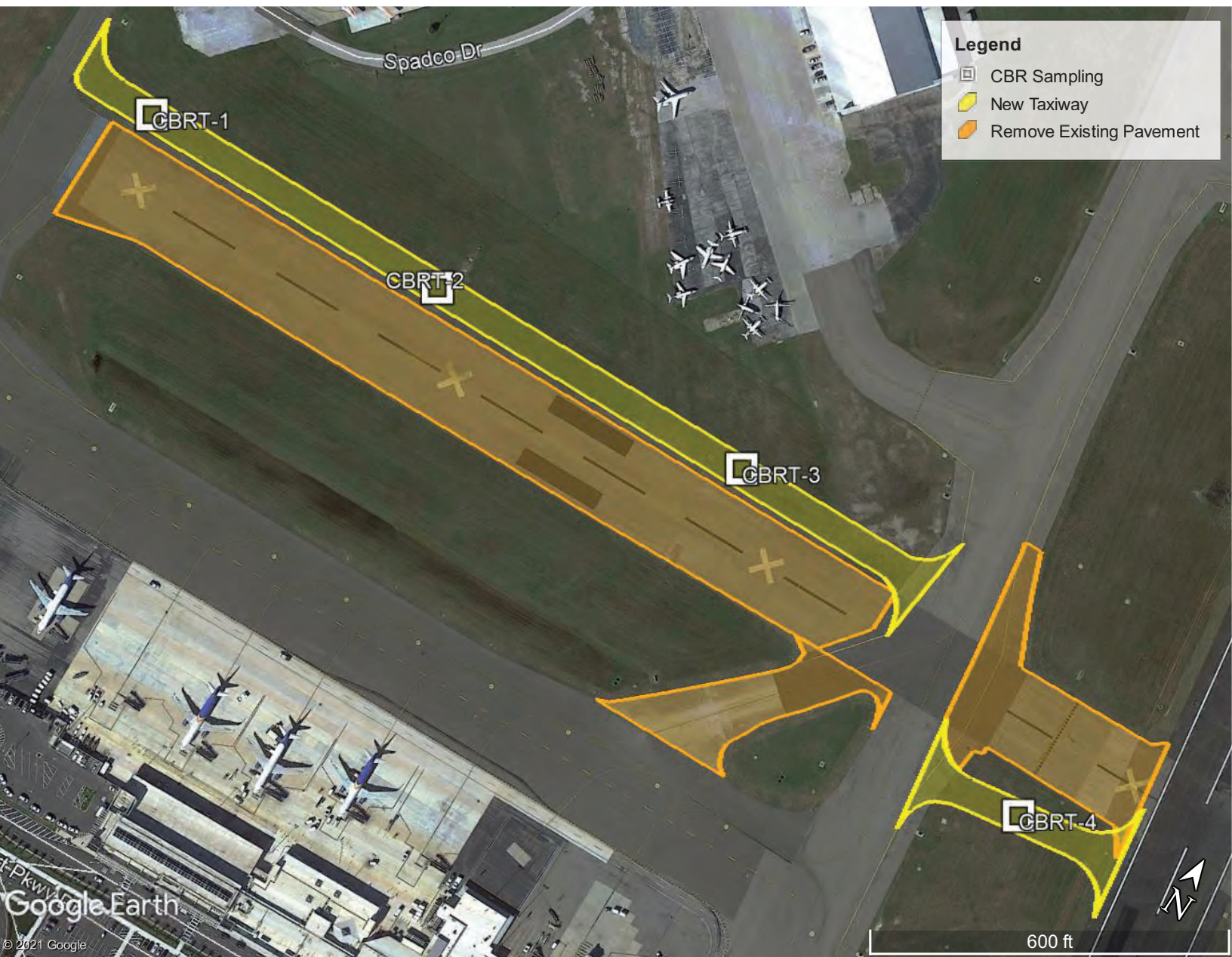
Spadco-Dr

Google Earth

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600 ft







QUALITY ASSURANCE SCHEDULE OF SERVICES & FEES

PIE Cargo Apron Reconstruction

Pinellas County, Florida

MC² Proposal No. T062107.069

Date: October 1st, 2021

Assumption: 10 months requiring QA & testing services

I. FIELD WORK

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
1. Field Technician	800	hour	\$ 59.00	\$ 47,200.00
(assume: 100 days x 8 hours/day)				
2. Background Check & Badging Fee	2	each	\$ 160.00	\$ 320.00
(assume: 2 background checks and 2 badges)				
3. Truck Usage	100	day	\$ 50.00	\$ 5,000.00
(assume: 100 days of truck usage)				
			SUBTOTAL FIELD TESTING SERVICES	\$ 52,520.00

II. LABORATORY TESTING

P-152 - Excavation, Subgrade and Embankment (7,000cy of embankment, assume 5 types of material)

1. Standard Proctor Test (ASTM D698 / AASHTO T99)	5	test	\$ 125.00	\$ 625.00
(assume: 5 proctors)				
2. Percent Passing #200 Sieve (AASHTO T11)	5	test	\$ 50.00	\$ 250.00
(assume: 5 tests)				
3. Atterberg Limits (ASTM D4318)	5	test	\$ 115.00	\$ 575.00
(assume: 5 tests)				
4. Organic Content Testing (FM 1-T267)	5	test	\$ 60.00	\$ 300.00
(assume: 5 tests)				

P-209 - Crushed Aggregate Base Course (assume 10 days of on-site crushing for 13,200sy of excavated concrete @ 12" thick)

5. Sieve Analysis of Fine and Coarse Aggregates (ASTM C136/C117)	20	test	\$ 75.00	\$ 1,500.00
(assume: 10 days of aggregate crushing x 2 tests/day)				
6. Modified Proctor Test (ASTM D1557 / AASHTO T-180)	2	test	\$ 135.00	\$ 270.00
(assume: 2 modified proctors)				

P-211 - Limerock Base Course (assume utilization of an FDOT approved limerock mine, verification testing only)

7. Sieve Analysis of Fine and Coarse Aggregates (ASTM C136)	4	test	\$ 75.00	\$ 300.00
(assume: 4 verification tests)				
8. Modified Proctor Test (ASTM D1557 / AASHTO T-180)	4	test	\$ 135.00	\$ 540.00
(assume: 4 verification tests)				

P-401 Asphalt Mix Pavement (14,600sy of asphalt superpave, assume 5 days of paving)

9. Extraction & Gradation (FM 5-563 / FM 1-T030)	10	test	\$ 135.00	\$ 1,350.00
(assume: 5 days x 2 samples/day)				
10. Bulk Specific Gravity (Gmb) (FM 1-T166)	20	core	\$ 15.00	\$ 300.00
(assume: 5 LOTS x 4 sublots/LOT x 1 core/sublot)				

P-501 Portland Cement Concrete Pavement (13,200sy of PCC @ 16" thick provided via ready mix, assume 17 days of placement)

11. Flexural Strength of Concrete Beams (ASTM C78)	136	beam	\$ 55.00	\$ 7,480.00
Acceptance Beams (assume: 17 days x 1 LOT per day x 4 sublots per LOT x 2 beams per sublot)				
12. Maturity Method to Estimate Concrete Strength (ASTM C1074)	34	set	\$ 145.00	\$ 4,930.00
(assume: 17 days x 1 location/day x 2 probes/set/location)				

P-610 Concrete Miscellaneous Structures (assume precast light cans and (10) cast-in-place sign pads)

13. Compressive Strength of Concrete Cylinders (ASTM C31/C39/C1231)	10	set	\$ 75.00	\$ 750.00
(assume: 10 sets of (5) 4"x8" cylinders)				
			SUBTOTAL LABORATORY TESTING	\$ 19,170.00

III. ENGINEERING SERVICES

1. Project Engineer (PE)	200	hour	\$ 130.00	\$ 26,000.00
(assume: 10 months x 20 hours/month)				
			SUBTOTAL ENGINEERING SERVICES	\$ 26,000.00

TOTAL ALL SERVICES \$ 97,690.00

Notes:

- The fee unit rates are based upon work being performed through 2023. Work performed beyond 2023 is subject to 5% escalation.
- Inspection services will be billed in 1-hour increments, portal to portal, with a 4-hour minimum.
- Quantities may vary depending on the scheduling and phasing of the project. Services will be billed on actual quantities used.
- Overtime classifies as working over 8-hours per day, or on weekends or holidays, unless otherwise agreed to in advance. Overtime will be invoiced at the personnel rate
- This budget estimate is prepared based on our knowledge and experience from projects of similar size and scope. We have done our best to estimate the intensity, etc. and our estimate is here for your review.



1756 Silver Street
Jacksonville, Florida 32206
T | 904 807 6512
W | OhmegaGroup.com

September 30, 2021

Nathan Parish, PE, CCM
Project Manager - Aviation
4211 W Boy Scout Blvd, Suite 500
Tampa, FL 33607

**Cargo Apron Replacement at
St. Pete–Clearwater International Airport (PIE)**
3rd Revision
Proposal for Electrical Engineering Consulting Services

Dear Nathan,

In response to your request on August 24, 2021 (*rate reduction request 9/3/21, 9/29/21*), and in response to your immediate needs, we are pleased to submit this proposal for electrical engineering consulting services for the subject project. Please review the scope of work for compliance with your objectives. If the scope, schedule and fee are satisfactory, please sign and return a copy of this document to **OHMEGA**. Receipt of this signed document from the Client and frozen civil background templates will constitute a notice-to-proceed for the production of engineering drawings and specifications under the terms of this proposal. Work will not commence without this signed proposal.

I. Scope of Work

Provide electrical engineering design, bidding and construction phase services as required to replace the existing cargo apron. As we understand it, the existing Cargo Apron is mostly asphalt over concrete, as well as three (3) concrete hardstands. This pavement will be reconstructed full-depth with a new concrete pavement section. Construction phasing is required to maintain the use of two (2) aircraft parking positions and maintain space for Allegiant equipment throughout construction. The apron will be designed for A319/A320 commercial aircraft and cargo aircraft. The design cargo aircraft is currently undetermined. Electrical scope will support the following construction tasks:

- Asphalt and concrete pavement demolition (14,800 SY)
- New concrete pavement (13,200 SY)
- New asphalt overlay (1,600 SY)
- Drainage adjustments (potentially)
- New pavement marking
- High-mast lighting
- *Aircraft static ground connection points*

The Client will provide all CAD background drawings, as-built drawings, and access to the facility, as required to complete the scope. CAD drawings, specifications, cost estimates, and engineer's report will be provided as project deliverables.



[Proposal 2021-50 – Cargo Apron at PIE]

The following tasks will be performed under the terms of this proposal.

- A. Initial Site Investigation
- B. Project Kick-off and Review Meetings
- C. Apron electrical design including:
 - 1. High Mast Apron Lighting
 - 2. Lighting controls
- D. Power distribution system including:
 - 1. Electrical circuiting, risers and panel schedules
 - 2. Electrical load calculations
- E. Code Compliance:
 - 1. National Electric Code (NFPA 70), latest version
 - 2. Florida Building Code (FBC), latest version
 - 3. FAA Advisory Circulars
- F. Lightning Protection System Design
- G. Aircraft Static Grounding Design
- H. Technical Specifications
- I. Professional Engineer Sign & Seal of permit documents
- J. Bidding Services
- K. Estimates of Probable Construction Cost (Cost Opinion)
 - 1. *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 judgment 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. This Consultant suggest that the Client should consider retaining an independent cost estimator at the Client's expense:*
 - a. *A cost estimator can be more precise than this Consultant, and*
 - b. *If the Client declines to do this, he or she acknowledges that any estimate of probable cost provided by this Consultant is subject to revision and refinement throughout the design and construction process and will not be construed as a guaranteed maximum price*
- L. Construction Administration Services, including:
 - 1. Attend Pre-construction Conference
 - 2. Response to contractor RFIs
 - 3. Construction site visits (1 each)
 - 4. Shop drawing review
 - 5. Final inspection & punch list
 - 6. Prepare Record Drawings

II. Exclusions / Additional Services

The following items are not included in the base Scope of Work:

- A. Security/CCTV Design
- B. Client Changes after Final Documents

III. Fee

OHMEGA proposes to furnish the aforementioned professional consulting services in accordance with the above conditions for the sum of **Thirty-Nine Thousand Nine Hundred Twenty-Eight Dollars (US\$39,928)** for design, bidding, and construction phase services. This fee shall include all necessary



[Proposal 2021-50 – Cargo Apron at PIE]

plan modifications, due to authority having jurisdiction (AHJ) review comments, as required to obtain a permit.

This proposed fee shall be valid for a period of **30** days from the date of this Agreement. After 30 days, the fee will be evaluated to compensate for direct labor cost escalations.

IV. Additional Services

Any required work not covered under the Scope of Work is not covered in this Proposal. All Additional Services incurred as a result of Client changes will be charged on an hourly basis not to exceed those indicated in the table below. Additional Services will not be performed by **OHMEGA** without prior written authorization from the Client.

Classification	Hourly Rate
Principal Engineer / Project Director	\$ 255.39
Sr. VP / Sr. Project Manager	\$ 213.96
Sr. Project Engineer	\$ 178.29
Project Engineer	\$ 142.62
Sr. Design Technician / CADD	\$ 102.04
Design Technician / CADD	\$ 73.40
Office Manager	\$ 88.04
Clerical / Admin Asst	\$ 63.56





	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
I 30% Design Phase - Direct Labor								
Initial Site Investigation								0
Review Record Drawings / As-built Information		1			2			3
Electrical Drawings Setup			1		2			3
Electrical Notes & Legend			1		2			3
Airfield Electrical Notes			1		2			3
Electrical Demolition Plans			1		2			3
Electrical Layout Plans			1		2			3
Static Grounding Layout Plan			1		2			3
Elevated Lighting Pole Details			1		2			3
Conduit/Cable Trench & Handhole Details			1		2			3
Static Grounding Details			1		2			3
Ductbank Details			1		2			3
Cable Splice Connectors, Cable Tags Details			1		2			3
Lighting Control Schematic & Details			1		2			3
Electrical Single-Line Diagram			1		2			3
Electrical Panelboard Schedule			1		2			3
Conduct Photometric Lighting Calculations					2			2
Prepare Circuit Calculations			1					1
Prepare Quantity Take-off & Cost Estimate			1					1
Prepare Specifications			1					1
Prepare Engineer's Report								0
General								0
Quality Control Review		1	2					3
Project Management		2				1		3
Prepare & Submit Documents					2			2
Attend Progress/Review Meeting [Virtual]		1			1			2
TOTAL HOURS		5	19	0	35	1	0	60
TOTAL DIRECT LABOR \$		\$385.43	\$1,227.03	\$0.00	\$1,077.98	\$22.16	\$0.00	\$2,712.59
OVERHEAD @		188%						\$5,102.12
PROFIT @		15%						\$1,172.21
TOTAL BURDENED LABOR @		3.31						\$8,986.91
30% Design Phase - Direct Labor - Total Fee								\$8,986.91
		Unit	Rate					
2 30% Design Phase - Other Costs								
2a. Miscellaneous Direct Costs:								
A. Reproduction / Reprints		0	\$100.00					\$0.00
B. Shipping / Courier		0	\$50.00					\$0.00
2b. Reimbursible Costs								
A. Air Travel (# of Passengers)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		864	\$0.58					\$501.12
E. Meals & Incidental Expenses (# of Days)		3	\$69.00					\$207.00
30% Design Phase - Other Costs - Total Fee								\$708.12
TOTAL 30% DESIGN PHASE								\$9,695.03



		Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
	Rate	\$77.09	\$64.58	\$53.81	\$30.80	\$22.16	\$26.57	
3	60% Design Phase - Direct Labor							
	Electrical Drawings Setup							0
	Electrical Notes & Legend		1		2			3
	Airfield Electrical Notes		1		2			3
	Electrical Demolition Plans		1		2			3
	Electrical Layout Plans		1		2			3
	Static Grounding Layout Plan		1		2			3
	Elevated Lighting Pole Details		1		2			3
	Conduit/Cable Trench & Handhole Details		1		2			3
	Static Grounding Details		1		2			3
	Ductbank Details		1		2			3
	Cable Splice Connectors, Cable Tags Details		1		2			3
	Lighting Control Schematic & Details		1		2			3
	Electrical Single-Line Diagram		1		2			3
	Electrical Panelboard Schedule		1		2			3
	Conduct Photometric Lighting Calculations				2			2
	Prepare Circuit Calculations		1					1
	Prepare Quantity Take-off & Cost Estimate		1					1
	Prepare Specifications		1					1
	Prepare Engineer's Report		1					1
	General							0
	Quality Control Review	1	2					3
	Project Management	2				1		3
	Prepare & Submit Documents				2			2
	Attend Progress/Review Meeting [Virtual]	1			1			2
	TOTAL HOURS	4	19	0	31	1	0	55
	TOTAL DIRECT LABOR \$	\$308.34	\$1,227.03	\$0.00	\$954.79	\$22.16	\$0.00	\$2,512.31
	OVERHEAD @	188%						\$4,725.40
	PROFIT @	15%						\$1,085.66
	TOTAL BURDENED LABOR @	3.31						\$8,323.37
	60% Design Phase - Direct Labor - Total Fee							\$8,323.37
		Unit	Rate					
4	60% Design Phase - Other Costs							
	4a. Miscellaneous Direct Costs:							
	A. Reproduction / Reprographics	0	\$100.00					\$0.00
	B. Shipping / Courier	0	\$50.00					\$0.00
	4b. Reimbursible Costs							
	A. Air Travel (# of Passengers)	0	\$300.00					\$0.00
	B. Car Rental (# of Days)	0	\$80.00					\$0.00
	C. Lodging (# of Nights)	0	\$163.00					\$0.00
	D. Mileage (# of Miles)	0	\$0.58					\$0.00
	E. Meals & Incidental Expenses (# of Days)	0	\$69.00					\$0.00
	60% Design Phase - Other Costs - Total Fee							\$0.00
	TOTAL 60% DESIGN PHASE							\$8,323.37



	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
5 90% Design Phase - Direct Labor								
Electrical Drawings Setup								0
Electrical Notes & Legend			1		1			2
Airfield Electrical Notes			1		1			2
Electrical Demolition Plans			1		1			2
Electrical Layout Plans			1		1			2
Static Grounding Layout Plan			1		1			2
Elevated Lighting Pole Details			1		1			2
Conduit/Cable Trench & Handhole Details			1		1			2
Static Grounding Details			1		1			2
Ductbank Details			1		1			2
Cable Splice Connectors, Cable Tags Details			1		1			2
Lighting Control Schematic & Details			1		1			2
Electrical Single-Line Diagram			1		1			2
Electrical Panelboard Schedule			1		1			2
Conduct Photometric Lighting Calculations					1			1
Prepare Circuit Calculations			1					1
Prepare Quantity Take-off & Cost Estimate			1					1
Prepare Specifications			1					1
Prepare Engineer's Report								0
General								0
Quality Control Review		1	2					3
Project Management		2				1		3
Prepare & Submit Documents					2			2
Attend Progress/Review Meeting [Virtual]		1			1			2
TOTAL HOURS		4	18	0	17	1	0	40
TOTAL DIRECT LABOR \$		\$308.34	\$1,162.45	\$0.00	\$523.59	\$22.16	\$0.00	\$2,016.54
OVERHEAD @		188%						\$3,792.90
PROFIT @		15%						\$871.42
TOTAL BURDENED LABOR @		3.31						\$6,680.85
90% Design Phase - Direct Labor - Total Fee								\$6,680.85
		Unit	Rate					
6 90% Design Phase - Other Costs								
6a. Miscellaneous Direct Costs:								
A. Reproduction / Reographics		0	\$100.00					\$0.00
B. Shipping / Courier		0	\$50.00					\$0.00
6b. Reimbursible Costs								
A. Air Travel (# of Passengers)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		0	\$0.58					\$0.00
E. Meals & Incidental Expenses (# of Days)		0	\$69.00					\$0.00
90% Design Phase - Other Costs - Total Fee								\$0.00
TOTAL 90% DESIGN PHASE								\$6,680.85



	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
7	100% Design Phase - Direct Labor							
Electrical Drawings Setup								0
Electrical Notes & Legend			1		1			2
Airfield Electrical Notes			1		1			2
Electrical Demolition Plans			1		1			2
Electrical Layout Plans			1		1			2
Static Grounding Layout Plan			1		1			2
Elevated Lighting Pole Details			1		1			2
Conduit/Cable Trench & Handhole Details			1		1			2
Static Grounding Details			1		1			2
Ductbank Details			1		1			2
Cable Splice Connectors, Cable Tags Details			1		1			2
Lighting Control Schematic & Details			1		1			2
Electrical Single-Line Diagram			1		1			2
Electrical Panelboard Schedule			1		1			2
Conduct Photometric Lighting Calculations					1			1
Prepare Circuit Calculations			1					1
Prepare Quantity Take-off & Cost Estimate			1					1
Prepare Specifications			1					1
Prepare Engineer's Report			1					1
General								0
Quality Control Review		1	2					3
Project Management		2				1		3
Prepare & Submit Documents					2			2
Attend Progress/Review Meeting [Virtual]		1			1			2
TOTAL HOURS		4	19	0	17	1	0	41
TOTAL DIRECT LABOR \$		\$308.34	\$1,227.03	\$0.00	\$523.59	\$22.16	\$0.00	\$2,081.12
OVERHEAD @		188%						\$3,914.37
PROFIT @		15%						\$899.32
TOTAL BURDENED LABOR @		3.31						\$6,894.81
100% Design Phase - Direct Labor - Total Fee								\$6,894.81
		Unit	Rate					
8	100% Design Phase - Other Costs							
8a. Miscellaneous Direct Costs:								
A. Reproduction / Reprographics		0	\$100.00					\$0.00
B. Shipping / Courier		0	\$50.00					\$0.00
8b. Reimbursible Costs								
A. Air Travel (# of Passengers)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		0	\$0.58					\$0.00
E. Meals & Incidental Expenses (# of Days)		0	\$69.00					\$0.00
100% Design Phase - Other Costs - Total Fee								\$0.00
TOTAL 100% DESIGN PHASE								\$6,894.81



	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
9 Bidding Services								
Attend Pre-bidders Conference (Virtual)		1						1
Respond to Bidder Inquiries			2		2			4
Prepare Addendum Documents			2		2			4
TOTAL HOURS		1	4	0	4	0	0	9
TOTAL DIRECT LABOR \$	\$0.00	\$0.00	\$258.32	\$0.00	\$123.20	\$0.00	\$0.00	\$381.52
OVERHEAD @	188%							\$717.60
PROFIT @	15%							\$164.87
TOTAL BURDENED LABOR @	3.31							\$1,263.99
Bidding Services - Total Fee								\$1,263.99
		Unit	Rate					
10 Bidding Services - Other Costs								
10a. Miscellaneous Direct Costs:								
A. Reproduction / Reprints	0							\$0.00
B. Shipping / Courier	0							\$0.00
10b. Reimbursible Costs								
A. Air Travel (# of Trips)	0		\$300.00					\$0.00
B. Car Rental (# of Days)	0		\$80.00					\$0.00
C. Lodging (# of Nights)	0		\$163.00					\$0.00
D. Mileage (# of Miles)	0		\$0.58					\$0.00
E. Meals & Incidental Expenses (# of Days)	0		\$69.00					\$0.00
Bidding Services - Other Costs - Total Fee								\$0.00
TOTAL BIDDING SERVICES								\$1,263.99



	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
11 Construction Administration Phase - Direct Labor								
ATTEND PRE-CONSTRUCTION CONFERENCE (VIRTUAL)		1						1
REVIEW SHOP DRAWING SUBMITTALS			2		2			4
RESPOND TO RFIs			2		2			4
CONSTRUCTION SITE VISIT			10					10
FINAL PUNCH LIST INSPECTION			10					10
PREPARE RECORD DRAWINGS			2		2			4
								0
TOTAL HOURS		1	26	0	6	0	0	33
TOTAL DIRECT LABOR \$	\$77.09	\$1,679.09	\$0.00	\$184.80	\$0.00	\$0.00		\$1,940.97
OVERHEAD @	188%							\$3,650.78
PROFIT @	15%							\$838.76
TOTAL BURDENED LABOR @	3.31							\$6,430.51
Construction Administration Phase - Direct Labor - Total Fee								\$6,430.51
		Unit	Rate					
12 Construction Administration Phase - Other Costs								
12a. Miscellaneous Direct Costs:								
A. Reproduction / Reprographics		0	\$100.00					\$0.00
B. Shipping / Courier		0	\$50.00					\$0.00
12b. Reimbursible Costs								
A. Air Travel (# of Trips)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		864	\$0.58					\$501.12
E. Meals & Incidental Expenses (# of Days)		2	\$69.00					\$138.00
Construction Administration Phase - Other Costs - Total Fee								\$639.12
TOTAL CONSTRUCTION ADMINISTRATION PHASE								\$7,069.63
TOTAL BASIC SERVICES								\$39,927.69

SUMMARY	DIRECT LABOR	EXPENSES	TOTAL	HOURS	% OF FEE
30% DESIGN PHASE	\$8,986.91	\$708.12	\$9,695.03	60	24.28%
60% DESIGN PHASE	\$8,323.37	\$0.00	\$8,323.37	55	20.85%
90% DESIGN PHASE	\$6,680.85	\$0.00	\$6,680.85	40	16.73%
100% DESIGN PHASE	\$6,894.81	\$0.00	\$6,894.81	41	17.27%
BIDDING SERVICES	\$1,263.99	\$0.00	\$1,263.99	9	3.17%
CONSTRUCTION ADMINISTRATION PHASE	\$6,430.51	\$639.12	\$7,069.63	33	17.71%
	\$38,580.45	\$1,347.24	\$39,927.69	238	100.00%



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September 14, 2021

Nathan Parish, PE, CCM
Project Manager - Aviation
4211 W Boy Scout Blvd, Suite 500
Tampa, FL 33607

**Replace RW 9-27 with TW C & TW A4 at
St. Pete–Clearwater International Airport (PIE)**
Proposal for Electrical Engineering Consulting Services
2nd Revision

Dear Nathan,

In response to your request on August 24, 2021 (*rate reduction request 9/3/21, scope update 9/14/21*), and in response to your immediate needs, we are pleased to submit this proposal for electrical engineering consulting services for the subject project. Please review the scope of work for compliance with your objectives. If the scope, schedule and fee are satisfactory, please sign and return a copy of this document to **OHMEGA**. Receipt of this signed document from the Client and frozen civil background templates will constitute a notice-to-proceed for the production of engineering drawings and specifications under the terms of this proposal. Work will not commence without this signed proposal.

I. Scope of Work

Provide electrical engineering design, bidding and construction phase services as required to replace existing Runway 9-27 with new Taxiway C and A4. As we understand it, the decommissioned Runway 9-27 will be demolished between Taxiway B and Runway 18-36. New Taxiways C and A4 will be constructed in generally the same area. Taxiway C will be designed for ADG III aircraft (A319/A320) – 50'ft wide with turfed shoulders. Taxiway A4 will be designed to the same geometric standards as the other connector taxiways to Runway 18-36 (ADG / TDG to be verified) and will include paved shoulders. Construction phasing for Taxiway C will be required to minimize or avoid impact to Taxiways A and B. Construction phasing for Taxiway A4 will be required to avoid or minimize impact to Runway 18-36 and Taxiway A. Electrical scope will support the following construction tasks:

- Asphalt pavement demolition (37,700 SY)
- New asphalt pavement
 - Taxiway C (50' X 1,650')
 - Taxiway A4 (75' X 380' + Paved shoulders)
- Drainage adjustments
- New pavement marking
- Airfield lighting and signage
 - *Sign panel revisions due to change of designations for TW A4-A7 to TW A5-A8*
- Electrical and/or NAVAID adjustments (potentially)



[Proposal 2021-49 – TWY C & A4 at PIE]

The Client will provide all CAD background drawings, as-built drawings, and access to the facility, as required to complete the scope. CAD drawings, specifications, cost estimates, and engineer's report will be provided as project deliverables.

The following tasks will be performed under the terms of this proposal.

- A. Initial Site Investigation
- B. Project Kick-off and Review Meetings
- C. Airfield electrical design including:
 - 1. Airfield Lighting
 - 2. Airfield Signage
 - 3. Airfield Electrical infrastructure
 - 4. Airfield Electrical Circuiting
 - 5. Miscellaneous ALCMS Modifications
- D. Power distribution system including:
 - 1. Electrical circuiting, risers and panel schedules
 - 2. Electrical load calculations
- E. Code Compliance:
 - 1. National Electric Code (NFPA 70), latest version
 - 2. Florida Building Code (FBC), latest version
 - 3. FAA Advisory Circulars
- F. Technical Specifications
- G. Professional Engineer Sign & Seal of permit documents
- H. Bidding
- I. Estimates of Probable Construction Cost (Cost Opinion)
 - 1. *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 judgment 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. This Consultant suggest that the Client should consider retaining an independent cost estimator at the Client's expense:*
 - a. *A cost estimator can be more precise than this Consultant, and*
 - b. *If the Client declines to do this, he or she acknowledges that any estimate of probable cost provided by this Consultant is subject to revision and refinement throughout the design and construction process and will not be construed as a guaranteed maximum price*
- J. Construction Administration Services, including:
 - 1. Attend Pre-construction Conference
 - 2. Response to contractor RFIs
 - 3. Construction site visits (2 each)
 - 4. Shop drawing review
 - 5. Final inspection & punch list
 - 6. Prepare Record Drawings

II. Exclusions / Additional Services

The following items are not included in the base Scope of Work:

- A. Security/CCTV Design
- B. Lightning Protection System Design



C. Client Changes after Final Documents

III. Fee

OHMEGA proposes to furnish the aforementioned professional consulting services in accordance with the above conditions for the sum of One Hundred Twenty Thousand One Hundred Fifty Dollars (**US\$ 120,150**) for design, bidding, and construction phase services. This fee shall include all necessary plan modifications, due to authority having jurisdiction (AHJ) review comments, as required to obtain a permit.

This proposed fee shall be valid for a period of **30** days from the date of this Agreement. After 30 days, the fee will be evaluated to compensate for direct labor cost escalations.

IV. Additional Services

Any required work not covered under the Scope of Work is not covered in this Proposal. All Additional Services incurred as a result of Client changes will be charged on an hourly basis not to exceed those indicated in the table below. Additional Services will not be performed by **OHMEGA** without prior written authorization from the Client.

Classification	Hourly Rate
Principal Engineer / Project Director	\$ 255.39
Sr. VP / Sr. Project Manager	\$ 213.96
Sr. Project Engineer	\$ 178.29
Project Engineer	\$ 142.62
Sr. Design Technician / CADD	\$ 102.04
Design Technician / CADD	\$ 73.40
Office Manager	\$ 88.04
Clerical / Admin Asst	\$ 63.56





	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
1	30% Design Phase - Direct Labor							
Initial Site Investigation		12			24			36
Review Record Drawings / As-built Information		4			4			8
Electrical Drawings Setup			2		4			6
Electrical Notes & Legend			2		2			4
Airfield Electrical Notes			2		2			4
Electrical Demolition Plans - Lighting & Signage - RW 9-27, TW D, Partial TW A, B, TW A4-A7 & RW 18-36			3		3			6
Electrical Layout Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B, TW A5-A8 & Partial RW 18-36			5		5			10
Electrical Circuiting Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B TW A5-A8 & Partial RW 18-36			5		5			10
Electrical Circuit Routing Plans - TW C & TW A			2		2			4
Elevated Lighting & Base Can Details			2		2			4
Airfield Guidance Signage Details			2		2			4
Airfield Guidance Signage Schedule			2		2			4
Conduit/Cable Trench & Junction Can Plaza / Handhole Details			2		2			4
Ductbank Details			2		2			4
Cable Splice Connectors, Cable Tags Details			2		2			4
Lighting Control Schematic & Details			2		2			4
Vault Modification Plans & Details (ALCMS Graphics)			2		2			4
Vault Single-Line Diagram			2		2			4
Vault Panelboard Schedule			2		2			4
Prepare Circuit Calculations								0
Prepare Quantity Take-off & Cost Estimate			4					4
Prepare Specifications			4					4
Prepare Engineer's Report								0
General								
Quality Control Review		2	2					4
Project Management		8				2		10
Prepare & Submit Documents					4			4
Attend Progress/Review Meeting [Virtual]		8			8			16
TOTAL HOURS		34	51	0	83	2	0	170
TOTAL DIRECT LABOR \$		\$2,620.89	\$3,293.60	\$0.00	\$2,556.36	\$44.31	\$0.00	\$8,515.17
OVERHEAD @		188%						\$16,016.17
PROFIT @		15%						\$3,679.70
TOTAL BURDENED LABOR @		3.31						\$28,211.04
30% Design Phase - Direct Labor - Total Fee								\$28,211.04
		Unit	Rate					
2	30% Design Phase - Other Costs							
2a. Miscellaneous Direct Costs:								
A. Reproduction / Reprographics		0	\$100.00					\$0.00
B. Shipping / Courier		0	\$50.00					\$0.00
2b. Reimbursible Costs								
A. Air Travel (# of Passengers)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		864	\$0.58					\$501.12
E. Meals & Incidental Expenses (# of Days)		3	\$69.00					\$207.00
30% Design Phase - Other Costs - Total Fee								\$708.12
TOTAL 30% DESIGN PHASE								\$28,919.16



		Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
	Rate	\$77.09	\$64.58	\$53.81	\$30.80	\$22.16	\$26.57	
3	60% Design Phase - Direct Labor							
	Electrical Drawings Setup							0
	Electrical Notes & Legend		2		2			4
	Airfield Electrical Notes							0
	Electrical Demolition Plans - Lighting & Signage - RW 9-27, TW D, Partial TW A, B, TW A4-A7 & RW 18-36		3		5			8
	Electrical Layout Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B, TW A5-A8 & Partial RW 18-36		5		9			14
	Electrical Circuiting Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B TW A5-A8 & Partial RW 18-36		5		9			14
	Electrical Circuit Routing Plans - TW C & TW A		4		8			12
	Elevated Lighting & Base Can Details		2		4			6
	Airfield Guidance Signage Details		2		4			6
	Airfield Guidance Signage Schedule		2		4			6
	Conduit/Cable Trench & Junction Can Plaza / Handhole Details		2		4			6
	Ductbank Details		2		4			6
	Cable Splice Connectors, Cable Tags Details		2		4			6
	Lighting Control Schematic & Details		2		4			6
	Vault Modification Plans & Details (ALCMS Graphics)		2		4			6
	Vault Single-Line Diagram		2		4			6
	Vault Panelboard Schedule		2		4			6
	Prepare Circuit Calculations							0
	Prepare Quantity Take-off & Cost Estimate		4					4
	Prepare Specifications		4					4
	Prepare Engineer's Report		4					4
								0
	General							
	Quality Control Review	4	4					8
	Project Management	4				2		6
	Prepare & Submit Documents				4			4
	Attend Progress/Review Meeting [Virtual]	4			4			8
	TOTAL HOURS	12	55	0	81	2	0	150
	TOTAL DIRECT LABOR \$	\$925.02	\$3,551.92	\$0.00	\$2,494.76	\$44.31	\$0.00	\$7,016.02
	OVERHEAD @	188%						\$13,196.43
	PROFIT @	15%						\$3,031.87
	TOTAL BURDENED LABOR @	3.31						\$23,244.31
	60% Design Phase - Direct Labor - Total Fee							\$23,244.31
		Unit	Rate					
4	60% Design Phase - Other Costs							
	4a. Miscellaneous Direct Costs:							
	A. Reproduction / Reographics	0	\$100.00					\$0.00
	B. Shipping / Courier	0	\$50.00					\$0.00
	4b. Reimbursible Costs							
	A. Air Travel (# of Passengers)	0	\$300.00					\$0.00
	B. Car Rental (# of Days)	0	\$80.00					\$0.00
	C. Lodging (# of Nights)	0	\$163.00					\$0.00
	D. Mileage (# of Miles)	0	\$0.58					\$0.00
	E. Meals & Incidental Expenses (# of Days)	0	\$69.00					\$0.00
	60% Design Phase - Other Costs - Total Fee							\$0.00
	TOTAL 60% DESIGN PHASE							\$23,244.31



		Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
	Rate	\$77.09	\$64.58	\$53.81	\$30.80	\$22.16	\$26.57	
5	90% Design Phase - Direct Labor							
	Electrical Drawings Setup							0
	Electrical Notes & Legend		2		2			4
	Airfield Electrical Notes							0
	Electrical Demolition Plans - Lighting & Signage - RW 9-27, TW D, Partial TW A, B, TW A4-A7 & RW 18-36		3		5			8
	Electrical Layout Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B, TW A5-A8 & Partial RW 18-36		5		9			14
	Electrical Circuiting Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B TW A5-A8 & Partial RW 18-36		5		9			14
	Electrical Circuit Routing Plans - TW C & TW A		4		8			12
	Elevated Lighting & Base Can Details		2		4			6
	Airfield Guidance Signage Details		2		4			6
	Airfield Guidance Signage Schedule		2		4			6
	Conduit/Cable Trench & Junction Can Plaza / Handhole Details		2		4			6
	Ductbank Details		2		4			6
	Cable Splice Connectors, Cable Tags Details		2		4			6
	Lighting Control Schematic & Details		2		4			6
	Vault Modification Plans & Details (ALCMS Graphics)		2		4			6
	Vault Single-Line Diagram		2		4			6
	Vault Panelboard Schedule		2		4			6
	Prepare Circuit Calculations		4					4
	Prepare Quantity Take-off & Cost Estimate		4					4
	Prepare Specifications		4					4
	Prepare Engineer's Report							0
								0
	General							
	Quality Control Review	4	4					8
	Project Management	4				2		6
	Prepare & Submit Documents				4			4
	Attend Progress/Review Meeting [Virtual]	4			4			8
	TOTAL HOURS	12	55	0	81	2	0	150
	TOTAL DIRECT LABOR \$	\$925.02	\$3,551.92	\$0.00	\$2,494.76	\$44.31	\$0.00	\$7,016.02
	OVERHEAD @	188%						\$13,196.43
	PROFIT @	15%						\$3,031.87
	TOTAL BURDENED LABOR @	3.31						\$23,244.31
	90% Design Phase - Direct Labor - Total Fee							\$23,244.31
		Unit	Rate					
6	90% Design Phase - Other Costs							
	6a. Miscellaneous Direct Costs:							
	A. Reproduction / Reographics	0	\$100.00					\$0.00
	B. Shipping / Courier	0	\$50.00					\$0.00
	6b. Reimbursible Costs							
	A. Air Travel (# of Passengers)	0	\$300.00					\$0.00
	B. Car Rental (# of Days)	0	\$80.00					\$0.00
	C. Lodging (# of Nights)	0	\$163.00					\$0.00
	D. Mileage (# of Miles)	0	\$0.58					\$0.00
	E. Meals & Incidental Expenses (# of Days)	0	\$69.00					\$0.00
	90% Design Phase - Other Costs - Total Fee							\$0.00
	TOTAL 90% DESIGN PHASE							\$23,244.31



		Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
	Rate	\$77.09	\$64.58	\$53.81	\$30.80	\$22.16	\$26.57	
7	100% Design Phase - Direct Labor							
	Electrical Drawings Setup							0
	Electrical Notes & Legend		2		2			4
	Airfield Electrical Notes							0
	Electrical Demolition Plans - Lighting & Signage - RW 9-27, TW D, Partial TW A, B, TW A4-A7 & RW 18-36		3		3			6
	Electrical Layout Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B, TW A5-A8 & Partial RW 18-36		3		3			6
	Electrical Circuiting Plans - Lighting and Signage - TW C, TW A4, Partial TW A, B TW A5-A8 & Partial RW 18-36		3		3			6
	Electrical Circuit Routing Plans - TW C & TW A		2		2			4
	Elevated Lighting & Base Can Details		2		2			4
	Airfield Guidance Signage Details		2		2			4
	Airfield Guidance Signage Schedule		2		2			4
	Conduit/Cable Trench & Junction Can Plaza / Handhole Details		2		2			4
	Ductbank Details		2		2			4
	Cable Splice Connectors, Cable Tags Details		2		2			4
	Lighting Control Schematic & Details		2		2			4
	Vault Modification Plans & Details (ALCMS Graphics)		2		2			4
	Vault Single-Line Diagram		2		2			4
	Vault Panelboard Schedule		2		2			4
	Prepare Circuit Calculations		2					2
	Prepare Quantity Take-off & Cost Estimate		2					2
	Prepare Specifications Outline		2					2
	Prepare Engineer's Report		2					2
								0
	General							
	Quality Control Review	4	4					8
	Project Management	4				2		6
	Prepare & Submit Documents				4			4
	Attend Progress/Review Meeting [Virtual]	4			4			8
	TOTAL HOURS	12	45	0	41	2	0	100
	TOTAL DIRECT LABOR \$	\$925.02	\$2,906.12	\$0.00	\$1,262.78	\$44.31	\$0.00	\$5,138.23
	OVERHEAD @	188%						\$9,664.50
	PROFIT @	15%						\$2,220.41
	TOTAL BURDENED LABOR @	3.31						\$17,023.14
	100% Design Phase - Direct Labor - Total Fee							\$17,023.14
		Unit	Rate					
8	100% Design Phase - Other Costs							
	8a. Miscellaneous Direct Costs:							
	A. Reproduction / Reographics	0	\$100.00					\$0.00
	B. Shipping / Courier	0	\$50.00					\$0.00
	8b. Reimbursible Costs							
	A. Air Travel (# of Passengers)	0	\$300.00					\$0.00
	B. Car Rental (# of Days)	0	\$80.00					\$0.00
	C. Lodging (# of Nights)	0	\$163.00					\$0.00
	D. Mileage (# of Miles)	0	\$0.58					\$0.00
	E. Meals & Incidental Expenses (# of Days)	0	\$69.00					\$0.00
	100% Design Phase - Other Costs - Total Fee							\$0.00
	TOTAL 100% DESIGN PHASE							\$17,023.14



	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
9 Bidding Services								
Attend Pre-bidders Conference		12			12			24
Respond to Bidder Inquiries			4		4			8
Prepare Addendum Documents			4		4			8
TOTAL HOURS		12	8	0	20	0	0	40
TOTAL DIRECT LABOR \$		\$0.00	\$516.64	\$0.00	\$246.40	\$0.00	\$0.00	\$763.04
OVERHEAD @	188%							\$1,435.20
PROFIT @	15%							\$329.74
TOTAL BURDENED LABOR @	3.31							\$2,527.98
Bidding Services - Total Fee								\$2,527.98
		Unit	Rate					
10 Bidding Services - Other Costs								
10a. Miscellaneous Direct Costs:								
A. Reproduction / Reprographics		0						\$0.00
B. Shipping / Courier		0						\$0.00
10b. Reimbursible Costs								
A. Air Travel (# of Trips)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		432	\$0.58					\$250.56
E. Meals & Incidental Expenses (# of Days)		2	\$69.00					\$138.00
Bidding Services - Other Costs - Total Fee								\$388.56
TOTAL BIDDING SERVICES								\$2,916.54



	Rate	Principal Engineer/Director	Senior Engineer/Project Manager	Senior Project Engineer	Senior Design Technician	Staff Design Technician	Office Manager	TOTAL
11 Construction Administration Phase - Direct Labor								
ATTEND PRE-CONSTRUCTION CONFERENCE		12			12			24
REVIEW SHOP DRAWING SUBMITTALS			8		8			16
RESPOND TO RFIs			8		8			16
CONSTRUCTION SITE VISIT (2 EACH)			24		24			48
FINAL PUNCH LIST INSPECTION			12		12			24
PREPARE RECORD DRAWINGS			8		8			16
								0
TOTAL HOURS		12	60	0	72	0	0	144
TOTAL DIRECT LABOR \$		\$925.02	\$3,874.83	\$0.00	\$2,217.57	\$0.00	\$0.00	\$7,017.41
OVERHEAD @		188%						\$13,199.05
PROFIT @		15%						\$3,032.47
TOTAL BURDENED LABOR @		3.31						\$23,248.93
Construction Administration Phase - Direct Labor - Total Fee								\$23,248.93
		Unit	Rate					
12 Construction Administration Phase - Other Costs								
12a. Miscellaneous Direct Costs:								
A. Reproduction / Reprographics		0	\$100.00					\$0.00
B. Shipping / Courier		0	\$50.00					\$0.00
12b. Reimbursible Costs								
A. Air Travel (# of Trips)		0	\$300.00					\$0.00
B. Car Rental (# of Days)		0	\$80.00					\$0.00
C. Lodging (# of Nights)		0	\$163.00					\$0.00
D. Mileage (# of Miles)		1728	\$0.58					\$1,002.24
E. Meals & Incidental Expenses (# of Days)		8	\$69.00					\$552.00
Construction Administration Phase - Other Costs - Total Fee								\$1,554.24
TOTAL CONSTRUCTION ADMINISTRATION PHASE								\$24,803.17
TOTAL BASIC SERVICES								\$120,150.64

SUMMARY	DIRECT LABOR	EXPENSES	TOTAL	HOURS	% OF FEE
30% DESIGN PHASE	\$28,211.04	\$708.12	\$28,919.16	170	24.07%
60% DESIGN PHASE	\$23,244.31	\$0.00	\$23,244.31	150	19.35%
90% DESIGN PHASE	\$23,244.31	\$0.00	\$23,244.31	150	19.35%
100% DESIGN PHASE	\$17,023.14	\$0.00	\$17,023.14	100	14.17%
BIDDING SERVICES	\$2,527.98	\$388.56	\$2,916.54	40	2.43%
CONSTRUCTION ADMINISTRATION PHASE	\$23,248.93	\$1,554.24	\$24,803.17	144	20.64%
	\$117,499.72	\$2,650.92	\$120,150.64	754	100.00%



Sightline, Inc. www.sightline.us
15483 Enterprise Way, Culpeper, VA 22701 (540) 212-4544 phone/fax

Nathan Parish, PE, CCM
Michael Baker
(813) 466-6025
(813) 355-1243
nathan.parish@mbakerintl.com

September 1, 2021

Nate,

Per your request, I have developed an anticipated scope of work for Airfield Marking QC/QA during your Cargo Apron/Runway conversion project for St. Pete-Clearwater International Airport (PIE) and assigned typical man-hours for each classification to accomplish each task.

Please feel free to call me to discuss further.

Sincerely,

A handwritten signature in dark ink that reads "Mike Speidel". The signature is written in a cursive, slightly slanted style.

Mike Speidel
Vice President
Sightline, Inc.
15483 Enterprise Way
Culpeper, VA 22701
(540) 212-4544 office
(540) 272-3583 mobile
mike@sightline.us

Scope of Work

Task 1 – Project Document Review (remote)

TASK 1 HAS BEEN REMOVED FROM THE SCOPE OF WORK.

Task 2 – Pre-Activity Meeting (remote)

Sightline will participate in a pre-construction meeting over the phone with the airfield marking subcontractor, Michael Baker, PIE, etc. The discussion will include expectations of the striping contractor and details of our involvement in the QC/QA role.

Classification: Project Principal Hours: 2.0 hours

Task 3 – Equipment Calibration and Control/Test Strip (on-site)

In the construction phase of these projects, Sightline will be on-site prior to temporary striping activities to calibrate equipment and establish a baseline for quality of temporary and permanent markings. A control/test strip will produce two identical quality retains for the contractor and resident project representative (RPR). Sightline will depart once all stakeholders agree the quality retains will be the standard for both project areas.

Classification: Sr. Project Manager Hours: 24.0 hours

Task 4 – Quality Assurance Testing (on-site)

In the construction phase of these projects, Sightline will be on-site to measure airfield marking retro-reflectance in conformance with FAA AC 5370-10 and ASTM E1710, as modified for airports. A final summary report, including a reflectivity performance GIS overlay of each project area, will be delivered within 10 days of the QA testing.

Classification: Sr. Technician Hours: 40.0 hours

Sightline, Inc.

Appendix B - FEE

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

Professional Engineering Services

Contract No. 21-0546-NC (SS)

Labor Category	Rate	Hours	Dollars
Project Principal	\$250.00	2	\$500.00
Sr. Project Manager	\$200.00	24	\$4,800.00
Sr. Technician	\$137.50	40	\$5,500.00

\$10,800.00

EXHIBIT B HOURLY RATE SHEETS



ST. PETE-CLEARWATER INTERNATIONAL AIRPORT (PIE)
 CONTRACT NO. 21-0546-NC (SS) CARGO APRON RECONSTRUCTION AND REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY
 RATE SCHEDULE

TITLE	SALARY GRADE / RATES															
	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G15	G16	G17
	\$ 58.00	\$ 61.00	\$ 67.00	\$ 72.00	\$ 77.00	\$ 83.00	\$ 89.00	\$ 99.00	\$ 110.00	\$ 125.00	\$141.00	\$160.00	\$179.00	\$195.00	\$237.00	\$256.00
Administrative Assistant				I	II	III										
Airfield Engineer										I	II	III	IV			
Architect											I	II	III			
CADD Technician					I	II	III									
Chief Scientist															I	
Civil Engineer										I	II	III	IV			
Construction Associate								I	II							
Construction Manager												I				
Construction Specialist										I	II					
Design/Architectural Associate							I		II							
Designer								I	II	III	IV					
Drainage Engineer										I	II	III	IV			
Electrical / Airfield Electrical Engineer											I	II	III	IV		
Engineering Associate								I	II							
Environmental Associate								I	II							
Environmental Specialist										I	II	III				
GIT Technical Specialist										I	II	III				
Inspector / Resident Project Rep								I		II						
Intern	I		II													
Planner									I		II	III	IV			
Planning Associate							I	II								
Principal																I
Project Manager												I	II	III	IV	V
Quality Control Manager													I	II		
Structural Engineer										I	II	III	IV			
Support Technician		I	II	III	IV		V									
Technical Consultant													I	II	III	
Technical Manager												I	II	III	IV	
Traffic Engineer										I	II	III	IV			



EXHIBIT B

Blue Wing Environmental, LLC Rate Sheet

<u>Position Title/ Category</u>	<u>Hourly Rate</u>
Administrative Professional/Clerical	\$ 30.00
Director	\$ 150.00
Ecologist I	\$ 100.00
FAA Qualified Airport Wildlife Biologist	\$ 100.00
Field Technician	\$ 60.00
GIS Technician	\$ 95.00
NEPA Specialist	\$ 100.00
Project Manager	\$ 150.00
Sr. Ecologist	\$ 125.00
Sr. NEPA Specialist	\$ 125.00

Note: Rates fixed for the duration of contract

Reference: 21-0546-NC (SS) St. Pete-Clearwater International Airport - Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway



EXHIBIT B

Date: August 19,2021
Reference: St. Pete-Clearwater International Airport - Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway Professional Engineering Services 21-0546-NC (SS)

Schedule of Rate Values	
Job Classification	Fully Loaded Hourly Rate
CADD Technician	\$76.00
Project Manager	\$163.00
Project Surveyor	\$107.00
Senior Surveyor	\$172.00
SUE Designating/Locating Crew (2-Person)	\$166.00
SUE Designating/Locating Crew (3-Person)	\$189.00
SUE Field Crew Supervisor	\$130.00
SUE Technician	\$76.00
SUE Technician 1	\$41.00
SUE Technician 3	\$65.00
Survey Crew (3-Person)	\$178.00
Survey Crew (4-Person)	\$218.00
Survey Party Chief	\$77.00
Survey Technician	\$76.00
Survey Technician 1	\$40.00
Survey Technician 3	\$61.00

The above billing rates are fully loaded (burdened) rates shall remain fixed for the duration. 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.

Name Jeraldo Comellas, Jr., PE
 Title President

08/19/2021

Date



Labor Rates

Name of Firm: Landis, Evans and Partners, Inc.

Date: August 19, 2021

Multiplier/Markup

Category	Multiplier/Markup
Personnel	
Direct Salary (a)	1.0000
Overhead + Direct Expenses (b)	1.5371
Total (a + b) = (c)	2.5371
Profit XX% (d)	1.1800
Multiplier (c x d)	2.993778

Direct Salary Rates/Loaded Billing Rates

Position/Title	Raw Rates	Multiplier	Loaded Rates
Admin/Clerical	\$26.50	2.993778	\$79.34
Chief Engineer	\$76.92	2.993778	\$230.28
Principal Engineer	\$84.13	2.993778	\$251.87
Project Engineer	\$38.46	2.993778	\$115.14
Senior CADD Technician	\$32.00	2.993778	\$95.80
Senior Engineer	\$43.27	2.993778	\$129.54
Senior Graphics Technician	\$32.00	2.993778	\$95.80
Staff CADD Technician	\$20.00	2.993778	\$59.88
Staff Engineer	\$35.10	2.993778	\$105.08
Staff Graphics Technician	\$20.00	2.993778	\$59.88

**Exhibit B
BILLING RATES**

Date: August 29, 2021

Reference: 21-0546-NC (SS) St.
Pete-Clearwater International
Airport - Cargo Apron
Reconstruction and Replacement
for Runway 9-27 with a Taxiway



GEOTECHNICAL • ENVIRONMENTAL
MATERIALS TESTING

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway		
Professional Engineering Services		
Contract No. 21-0546-NC (SS)		

Service Element	Unit	Cost Per Unit
-----------------	------	---------------

I. FIELD INVESTIGATION

1. Mobilization of Men and Equipment

Truck Mounted Equipment	Each	\$ 600.00
Specialized ATV/Mudbug	Each	\$ 835.00
Support Vehicle	Per Trip	\$ 250.00
Track Mounted Equipment	Each	\$ 2,200.00
Barge Mounted Equipment	Each	\$ 9,850.00
Safety Boat	Per Trip	\$ 700.00
Coring Equipment/DRIT Equipment	Each	\$ 325.00

2. Truck Mounted Equipment

a. Standard Penetration Test (SPT) Borings

0 - 50 feet	L.F.	\$ 18.00
50-100 feet	L.F.	\$ 22.50
100 -150 feet	L.F.	\$ 36.00

b. Grout Seal Boreholes

0 - 50 feet	L.F.	\$ 8.50
50-100 feet	L.F.	\$ 10.00
100-150 feet	L.F.	\$ 13.50

c. Casing Allowance

0 - 50 feet	L.F.	\$ 12.00
50-100 feet	L.F.	\$ 14.00
100-150 feet	L.F.	\$ 17.50

d. Rock Coring

0 - 50 feet	L.F.	\$ 50.00
50-100 feet	L.F.	\$ 69.00
100-150 feet	L.F.	\$ 80.00

3. Barge/Track Mounted Drilling Equipment

a. Standard Penetration Test Borings

0 - 50 feet	L.F.	\$ 26.00
50-100 feet	L.F.	\$ 30.00
100-150 feet	L.F.	\$ 56.00

b. Grout-Seal Boreholes

0 - 50 feet	L.F.	\$ 10.00
50-100 feet	L.F.	\$ 15.50
100-150 feet	L.F.	\$ 19.50

c. Casing Allowance

0 - 50 feet	L.F.	\$ 18.00
50-100 feet	L.F.	\$ 21.50
100-150 feet	L.F.	\$ 22.50

d. Rock Coring

0 - 50 feet	L.F.	\$ 63.00
50-100 feet	L.F.	\$ 75.00
100-150 feet	L.F.	\$ 85.00



GEOTECHNICAL • ENVIRONMENTAL
MATERIALS TESTING

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway Professional Engineering Services Contract No. 21-0546-NC (SS)

Service Element	Unit	Cost Per Unit
4. Extra Split Spoon Samples		
0 - 50 feet	Each	\$ 45.00
50-100 feet	Each	\$ 50.00
100-150 feet	Each	\$ 57.50
5. Auger Borings		
0 - 50 feet	L.F.	\$ 14.00
6. Backhoe for Test Pit Excavation		
Cost based on equipment rental (TBN) and labor	Per Day	TBN
7. Shelby Tube Samples		
0 - 100 feet	Each	\$ 250.00
8. Infiltration Tests	Each	\$ 615.00
9. Permeability Tests	Each	\$ 615.00
10. Flagmen & Barricades (2 man crew)		
Barricades/MOT	Per Day	\$ 1,110.00
Flagmen	Per Day	\$ 1,110.00
11. Hand Probes (2-man Crew)	Per Day	\$ 1,350.00
12. 2 inch Piezometer Installation LF	L.F.	\$ 55.00
13. Drilling Permits if required	Per Boring	\$ 110.00
14. Site Clearing/Difficult Access		
Cost based on equipment rental (TBN) and labor	Per Day	TBN
15. Pavement Cores (Asphalt)	Per Boring	\$ 310.00
16. Pavement Cores (Asphalt with DCP testing)	Per Boring	\$ 325.00
17. Silt Fencing (protect water body from sediments)	Per Location	\$ 220.00
18. Provide Private Utility Locator Service	Per Day	TBN
19. Geophysical Survey	Per Day	TBN

II. LABORATORY INVESTIGATION

1. Visual Examination/Stratify		
Per Set (1 Set = 5 feet)	Set	\$ 8.00
2. Natural Moisture Content Tests	Each Test	\$ 11.00
3. Grain Size Analysis (Full Gradation)	Each Test	\$ 145.00
(Single Sieve)	Each Test	\$ 75.00
4. Organic Content Tests	Each Test	\$ 150.00
5. Atterberg Limit Tests	Each Test	\$ 87.00
Liquid Limit Only	Each Test	\$ 87.00
Plastic Limit Only	Each Test	\$ 63.00
6. Environmental Test		
(pH, sulfates, chlorides, resistivity)	Each Test	\$ 250.00
7. Limerock Bearing Ratio Test	Each Test	\$ 455.00
8. Standard Proctor	Each Test	\$ 175.00
9. Modified Proctor	Each Test	\$ 225.00
10. Additional LBR/Proctor Points	Each Test	\$ 85.00
11. Consolidation Test	Each Test	\$ 635.00



GEOTECHNICAL • ENVIRONMENTAL
MATERIALS TESTING

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway Professional Engineering Services Contract No. 21-0546-NC (SS)		
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Service Element	Unit	Cost Per Unit
12. Triaxial Shear Test (per point)	Each Test	\$ 265.00
13. Split Tension Test	Each Test	\$ 225.00
14. Unconfined Compression Test	Each Test	\$ 285.00
15. Specific Gravity	Each Test	\$ 105.00
16. Extraction & Gradation of Asphalt Samples	Each Test	\$ 320.00
17. Asphalt Maximum Specific Gravity (Rice) Testing	Each Test	\$ 260.00

III. ENGINEERING AND TECHNICAL SERVICES

1. CADD Technician	Hour	\$ 87.00
2. Chief Engineer 2	Hour	\$ 240.00
3. Engineer 1	Hour	\$ 150.00
4. Engineer 2	Hour	\$ 170.00
5. Engineer 3	Hour	\$ 225.00
6. Engineer Intern	Hour	\$ 105.00
7. Field Technician	Hour	\$ 87.00
8. Geologist	Hour	\$ 120.00
9. Project Manager 3	Hour	\$ 190.00
10. Secretary/Clerical	Hour	\$ 78.00



600 Southgate Drive
Guelph, ON N1G 4P6
Canada

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September 9, 2021

Sue Steele, Pinellas County
727.464.4776
ssteele@pinellascounty.org

Re: Exhibit B - Schedule of Rate Values,

Dear Sue Steele,

As requested below is RWDI's schedule of rate values.

Hourly Rate (USD)

Administrative Assistant	\$75.00
Any applicable taxes	not included
Engineering Specialist.....	\$225.00
Expenses	cost plus 10 percent
Modeler.....	\$110.00
Principal / Project Director	\$255.00
Project Engineer	\$125.00
Project Manager.....	\$150.00
Senior Engineer	\$150.00
Senior Project Manager.....	\$225.00
Technologist.....	\$110.00
Water Flume	\$150.00
Wind Tunnel	\$400.00





Travel expenses will be charged in accordance with Florida Statute.

Yours truly,

Leticia Martin

Leticia Martin
Project Manager
RWDI

Sightline, Inc.

Appendix B - LABOR RATES

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

Professional Engineering Services

Contract No. 21-0546-NC (SS)

Labor Category	Rate
Project Principal	\$250.00
Sr. Project Manager	\$200.00
Sr. Technician	\$137.50



HOURLY BILLING RATES

Date: November 9, 2021

Reference: 21-0546-NC (SS) St. Pete-Clearwater International Airport - Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway

Classification	Total Loaded Rate
Administrative Assistant	\$ 63.56
Director	\$ 255.39
Office Manager	\$ 88.04
Principal Engineer	\$ 255.39
Project Manager	\$ 213.96
Senior Design Technician	\$ 102.04
Senior Engineer	\$ 213.96
Senior Project Engineer	\$ 178.29
Staff Design Technician	\$ 73.40
Staff Project Engineer	\$ 142.62
Word Processor	\$ 63.56

The above billing rates are fully loaded (burdened) rates shall remain fixed for the duration. 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.

EXHIBIT C
CONTRACT PROVISIONS FOR CONTRACTS UNDER FEDERAL AWARDS

PROPOSAL NUMBER: 21-0546-NC (SS)
**PROPOSAL TITLE: Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway -
Professional Engineering Services**

This solicitation is either fully or partially grant-funded. In addition to other terms and conditions required by Pinellas County and the applicable federal agency, all contracts awarded to the qualified bidder are subject to the following provisions, as applicable to the services provided.

Equal Employment Opportunity (As per Executive Order 11246): 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, 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 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.

Davis-Bacon Act as amended (40 U.S.C. 3141-3148): When required by federal program legislation, for all prime construction contracts awarded in excess of \$2,000, CONTRACTORS are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, Contractors must be required to pay wages not less than once a week. If the applicable grant award contains Davis Bacon provisions, the County will place a copy of the current prevailing wage determination issued by the Department of Labor in the solicitation document. The decision to award a contract shall be conditioned upon the acceptance of the wage determination [Appendix II to 2 CFR Part 200].

Copeland Anti Kick Back Act: If Davis-Bacon is applicable, CONTRACTOR shall also comply with all the requirements of 29 CFR Part 3 which are incorporated by reference to this contract. CONTRACTORS are prohibited from inducing by any means any person employed in the construction, completion or repair of public work to give up any part of the compensation to which he or she is otherwise entitled [Appendix II to 2 CFR Part 200].

Contract Work Hours and Safety Standards Act (40 U.S.C. 3701–3708): Where applicable, all contracts awarded in excess of \$100,000 that involve the employment of mechanics or laborers must be in compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each CONTRACTOR is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence [Appendix II to 2 CFR Part 200].

Rights to Inventions Made Under a Contract or Agreement: If the federal award meets the definition of “funding agreement” under 37 CFR § 401.2 (a) and the County enters into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the County must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency [Appendix II to 2 CFR Part 200].

Clean Air Act (42 U.S.C. 7401–7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387): As amended—The CONTRACTOR agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA) [Appendix II to 2 CFR Part 200].

Debarment and Suspension (Executive Orders 12549 and 12689): A contract award (see 2 CFR 180.220) will not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. If applicable, the CONTRACTOR must verify that none of their subcontractors (for contracts expected to equal or exceed \$25,000), appear on the federal government’s Excluded Parties List. The Excluded Parties List is accessible at <http://www.sam.gov> [Appendix II to 2 CFR Part 200].

Byrd Anti-Lobbying Amendment (31 U.S.C. 1352): CONTRACTORS that apply or bid for an award exceeding \$100,000 must submit a completed “Disclosure of Lobbying Activities” [Form SF-LLL]. Each tier certifies to the tier above that it will not and has not used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with *non-federal funds* that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier up to the non-federal award. [Appendix II to 2 CFR Part 200]. **The bidder shall complete Form SF-LLL and submit with bid. Bidders may be deemed non-responsive for failure to submit this certification.**

Conflict of Interest [2 CFR §200.112]: The CONTRACTOR must disclose in writing any potential conflict of interest to the Federal awarding agency or COUNTY in accordance with applicable Federal awarding agency policy.

Mandatory Disclosures [2 CFR §200.113]: The CONTRACTOR must disclose in writing all violations of federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the federal award. Failure to make required disclosures can result in any of the remedies described in 2 CFR §200.338 Remedies for noncompliance, including suspension or debarment.

Protected Personally Identifiable Information (Protected PII) [CFR §200.303(e)]: The CONTRACTOR must take reasonable measures to safeguard protected personally identifiable information and other information the federal awarding agency or COUNTY designates as sensitive or the County considers sensitive consistent with other applicable federal, state, and local laws regarding privacy and obligations of confidentiality. Per CFR § 200.82, Protected PII means an individual's first name or first initial and last name in combination with any one or more of types of information, including, but not limited to, social security number, passport number, credit card numbers, clearances, bank numbers, biometrics, date and place of birth, mother's maiden name, criminal, medical and financial records, educational transcripts. This does not include PII that is required by law to be disclosed.

Prohibition on utilization of time and material type contracts [2 CFR §200.318 (j) (1)]: The COUNTY will not award contracts based on a time and material basis if the contract contains federal funding.

Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms [2 CFR § 200.321]: If using subcontractors, the CONTRACTOR must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible. Affirmative steps must include:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
- (6) Affirmative Action Requirements per 41 CFR60-4.1 Goals for Women and Minorities in Construction (for contracts in excess of \$10,000): Goals and timetables for minority and female utilization may be set which shall be based on appropriate workforce, demographic or other relevant data and which shall cover construction projects or construction contracts performed in specific geographical areas. The goals, which shall be applicable to each construction trade in a covered Contractor's or subcontractor's entire workforce which is working in the area covered by the goals and timetables, shall be published as notices in the Federal Register, and shall be inserted by the contracting officers and applicants, as applicable, in the Notice required by 41 CFR 60-4.2. Covered construction Contractors performing construction work in geographical areas 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.
- (g) Information regarding certified M/WBE firms can be obtained from:

- Florida Department of Management Services (Office of Supplier Diversity);
- Florida Department of Transportation;
- Minority Business Development Center in most large cities; and
- Local Government M/DBE programs in many large counties and cities

Procurement of Recovered Materials [2 CFR §200.322]: CONTRACTOR must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

Prohibition on utilization of cost plus a percentage of cost contracts [2 CFR §200.323 (d)]: The COUNTY will not award contracts containing federal funding on a cost plus percentage of cost basis.

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

Exhibit E
FEMA GRANT FUNDING CONDITIONS
PROPOSAL NUMBER: 21-0546-NC (SS)
PROPOSAL TITLE: Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway - Professional Engineering Services

This solicitation is either fully or partially Grant funded. Bidders shall comply with the clauses as enumerated below. These requirements apply to all Federal Emergency Management Agency (FEMA) grant and cooperative agreement programs.

1. **Equal Employee Opportunity:** Per 41 C.F.R. Part 60-1.4(b), during the performance of this contract, the contractor agrees as follows:
 - a. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, 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 identity, or national origin. Such action shall include, but not be limited to the following:
 - i. Employment, upgrading, demotion, or transfer; recruitment or recruitment
 - ii. advertising; layoff or termination; rates of pay or other forms of compensation;
 - iii. and selection for training, including apprenticeship. The contractor agrees to
 - iv. post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this
 - v. nondiscrimination clause.
 - b. The contractor will, in all solicitations or advertisements for employees
 - i. placed by or on behalf of the contractor, state that all qualified applicants will
 - ii. receive consideration for employment without regard to race, color, religion,
 - iii. sex, sexual orientation, gender identity, or national origin.
 - c. The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
 - d. 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.
 - e. 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.
 - f. 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.

- g. 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 othersanctions 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.
- h. The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) 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 maydirect as a means of enforcing such provisions, including sanctions for noncompliance:
 - i. 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.
 - ii. The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or underthe contract.
 - iii. The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance ofcontractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.
 - iv. The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penaltiesfor violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary ofLabor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, theadministering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

2. **CONTRACT WORK HOURS AND SAFETY STANDARDS ACT:** The regulation at 29 C.F.R. § 5.5(b) provides contract clause language concerning compliance with the Contract Work Hours and Safety Standards Act. FEMA suggests including the following contract clause:

Compliance with the Contract Work Hours and Safety Standards Act.

- a. 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 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.
- b. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section 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 (b)(1) of this section, in the sum of \$27 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 (b)(1) of this section.
- c. Withholding for unpaid wages and liquidated damages. The Federal Emergency Management Agency 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 (b)(2) of this section.
- d. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors 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 (b)(1) through (4) of this section.

3. **CLEAN AIR ACT AND THE FEDERAL WATER POLLUTION CONTROL ACT**

- a. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
- b. The contractor agrees to report each violation to the Federal Emergency Management Agency and understands and agrees that the Pinellas County will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
- c. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

Federal Water Pollution Control Act

- a. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
 - b. The contractor agrees to report each violation to the Federal Emergency Management Agency and understands and agrees that the Pinellas County will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
 - c. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.
4. **Procurement of Recovered Materials:** A non-Federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with Section 6002 of the Solid Waste Disposal Act, Pub. L. No. 89-272 (1965) (codified as amended by the Resource Conservation and Recovery Act at 42 U.S.C. § 6962). See 2 C.F.R. Part 200, Appendix II, ¶ J; 2 C.F.R. § 200.322; *PDAT Supplement*, Chapter V. (1) In the performance of this contract, the contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired: (i) Competitively within a timeframe providing for compliance with the contract performance schedule; (ii) Meeting contract performance requirements; or (iii) At a reasonable price. (2) Information about this requirement, along with the list of EPA-designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
- a. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - i. Competitively within a timeframe providing for compliance with the contract performance schedule:
 - ii. Meeting contract performance requirements; or
 - iii. At a reasonable price.
 - b. Information about this requirement, along with the list of EPA-designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
 - i. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act."
5. **Contract Changes:** The cost of any change, modification, change order, or constructive change, must be allowable, allocable, within the scope of its grant or cooperative agreement, and reasonable for the completion of project scope.
6. **Access to Records:** All contractors and their successors, transferees, assignees, and subcontractors must acknowledge and agree to comply with applicable provisions governing Department and FEMA access to records, accounts, documents, information, facilities, and staff. See DHS Standard Terms and Conditions, v 3.0, ¶ XXVI (2013).
7. **DHS Seal, Logo, and Flags:** The contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval. See DHS Standard Terms and Conditions, v 3.0, ¶ XXV (2013).
8. **Compliance with Federal Law, Regulations, and Executive Orders:** A contractor must acknowledge that FEMA financial assistance will be used to fund the contract only. The contractor will comply with all applicable federal law, regulations, executive orders, FEMA policies, procedures, and directives.

9. **No Obligation by Federal Government:** The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.
10. **Program Fraud and False or Fraudulent Statements or Related Acts:** The contractor must acknowledge that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the contractor's actions pertaining to this contract.

Exhibit F
St. Pete-Clearwater International Airport
FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS

1. **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 benefitting from Federal assistance.

2. **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.

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.

Exhibit F
St. Pete-Clearwater International Airport
FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS

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;

Exhibit F
St. Pete-Clearwater International Airport
FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS

- 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);
- 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.*).

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.

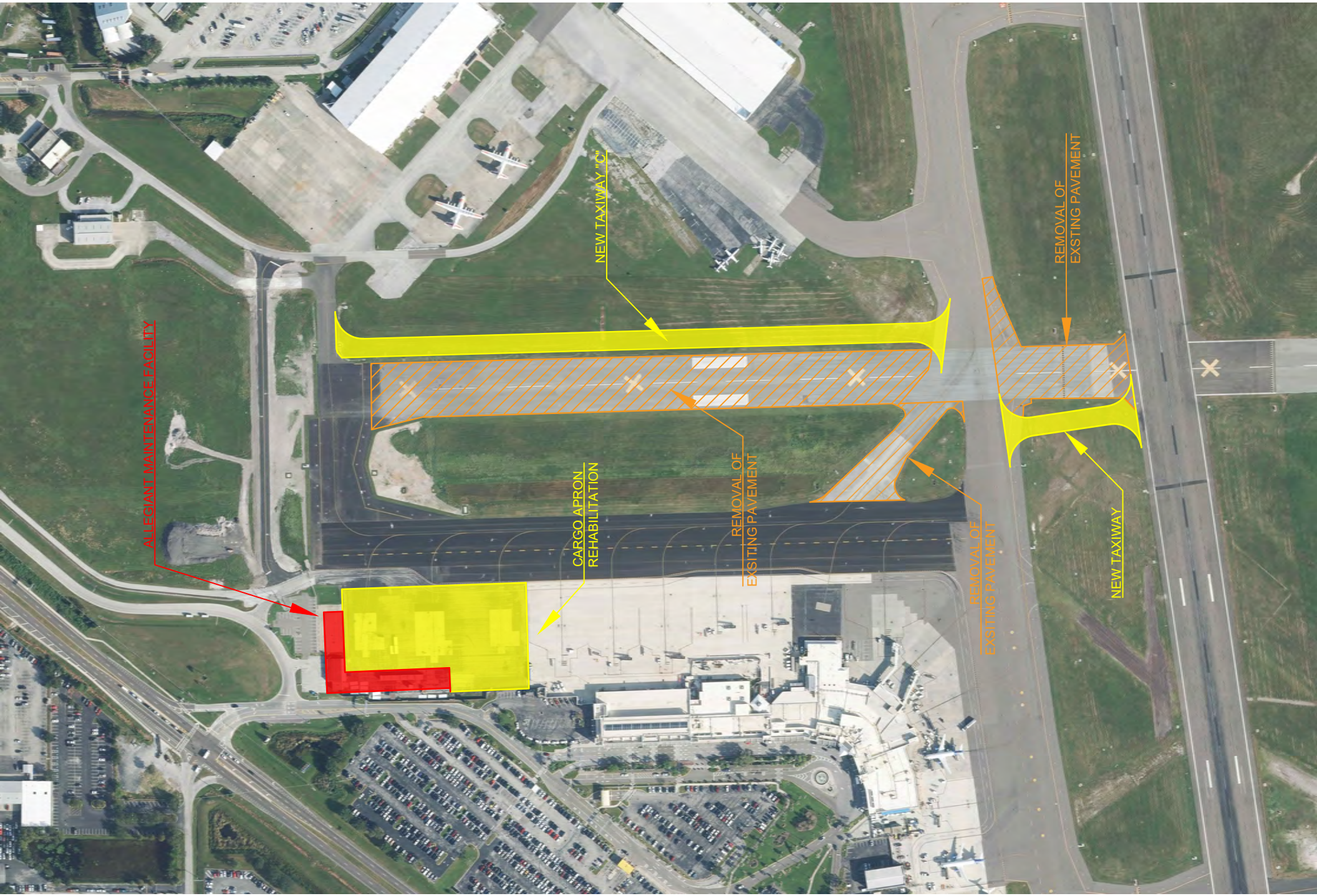
Exhibit G – FDOT Contract Provisions

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



ALLEGIANT MAINTENANCE FACILITY

CARGO APRON REHABILITATION

NEW TAXIWAY "C"

REMOVAL OF EXISTING PAVEMENT

REMOVAL OF EXISTING PAVEMENT

REMOVAL OF EXISTING PAVEMENT

NEW TAXIWAY

1. LIMITATIONS ON LIABILITY

By submitting a Proposal, the Consultant acknowledges and agrees that the services will be provided without any limitation on the Consultant's liability. The County objects to and shall not be bound by any term or provision that purports to limit the Consultant's liability to any specified amount in the performance of the services. The Consultant shall state any exceptions to this provision in its response, including specifying the proposed limits of liability in the stated exception to be included in the Services Agreement. The Consultant is deemed to have accepted and agreed to provide the services without any limitation on the Consultant's liability that the Consultant does not take exception to in its response. Notwithstanding any exceptions by the Consultant, the County reserves the right to declare its prohibition on any limitation on the Consultant's liability as non-negotiable, to disqualify any Proposal that includes exceptions to this prohibition on any limitation on the Consultant's liability, and to proceed with another responsive, responsible proposal, as determined by the County in its sole discretion.

2. INDEMNIFICATION

If the Consultant is an individual or entity licensed by the State of Florida who holds a current certificate of registration or is qualified 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, or for any violation of requirements of the Americans with Disabilities Act of 1990, as may be amended, and all rules and regulations issued pursuant thereto (collectively the "ADA") of the Consultant and other persons employed or utilized by the Consultant in the performance of the Agreement.

3. INSURANCE

The Consultant must provide a certificate of insurance and endorsement in accordance with the insurance requirements listed below, prior to recommendation for award.

The Consultant shall obtain and maintain, and require any sub-Consultants to obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth. For projects with a Completed Operations exposure, Consultant shall maintain coverage and provide evidence of insurance for two (2) years beyond final acceptance. All insurance policies shall be from responsible companies duly authorized to do business in the State of Florida and have an AM Best rating of A- VIII or better.

- A. Submittals should include the Consultant's current Certificate(s) of Insurance. 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 prior to the award of contract.

Upon selection of Consultant for award, the selected Consultant shall email certificate that is compliant with the insurance requirements. If the certificate received is compliant, no further action may be necessary. The Certificate(s) of Insurance shall be signed by authorized representatives of the insurance companies shown on the Certificate(s). **The Certificate holder section shall indicate Pinellas County, a Subdivision of the State of Florida, 400 S Fort Harrison Ave, Clearwater, FL 33756. Pinellas County shall be named as an Additional Insured for General Liability. A Waiver of Subrogation for Workers Compensation shall be provided if Workers Compensation coverage is a requirement.**

- B. 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. The 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.
- C. If any insurance provided pursuant to the Agreement expires or cancels prior to the completion of the work you will be notified by CTrax, the authorized Consultant of Pinellas County. Upon notification, renewal certificate(s) of Insurance and endorsement(s) should be furnished to Pinellas County Risk Management at InsuranceCerts@pinellascounty.org and to CTrax c/o JDi Data at PinellasSupport@jdidata.com by the Consultant or their agent prior to the expiration date.

- 1) The Consultant shall also notify the County within twenty-four (72) hours after receipt, of any notices of expiration, cancellation, nonrenewal or adverse material change in coverage received by said Consultant

LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

from its insurer. Notice shall be given by email to Pinellas County Risk Management at InsuranceCerts@pinellascounty.org. Nothing contained herein shall absolve Consultant of this requirement to provide notice.

- 2) Should the Consultant, at any time, not maintain the insurance coverages required herein, the County may terminate the Agreement.

- D. If subcontracting is allowed under this RFP, the Primary Consultant 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 sub-consultants 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 subconsultant; 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.

All subcontracts between the Consultant and its subconsultants shall be in writing and are subject to the County's prior written approval. Further, all subcontracts shall;

- 1) Require each subconsultant to be bound to the Consultant to the same extent the Consultant 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 subconsultant;
- 2) Provide for the assignment of the subcontracts from the Consultant 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 subconsultant except workers compensation and professional liability;
- 5) Provide a 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;
- 7) Identify the County as an intended third-party beneficiary of the subcontract. The Consultant shall make available to each proposed subconsultant, prior to the execution of the subcontract, copies of the Contract Documents to which the subconsultant will be bound by this Section C and identify to the subconsultant any terms and conditions of the proposed subcontract which may be at variance with the Contract Documents.

- E. 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.
- 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 Consultant.
- 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) All policies shall be written on a primary, non-contributory basis.

LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

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
Employers' Liability Limits	
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) Excess or Umbrella Liability Insurance excess of the primary coverage required, in paragraphs (1), (2), and (3) above:

Limits	
Each Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000

(4) 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", Proposer 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.

LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

(5) 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

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.

For herbicide and pesticide spraying operations only, an endorsement to the Commercial General Liability policy that provides Pollution Liability coverage for herbicide and pesticide spraying is acceptable.

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