

**ADDENDUM NO. 1
TO THE AGREEMENT DATED JANUARY 10, 2022
BETWEEN THE GREATER ORLANDO AVIATION AUTHORITY
AND AECOM TECHNICAL SERVICES, INC.**

Project: Design Services for W-432, Design Services for Taxiways G & H Rehabilitation – Phases 1 & 2, Orlando International Airport

THIS ADDENDUM is effective this 17th day of August, 20 22, by and between the **GREATER ORLANDO AVIATION AUTHORITY** ("Authority"), and **AECOM TECHNICAL SERVICES, INC.** ("Consultant").

WITNESSETH:

WHEREAS, by Agreement dated January 10, 2022, Authority and Consultant entered into an agreement for Consultant to provide services related to Design Services for Taxiways G & H Rehabilitation Phases 1 & 2; and

WHEREAS, under the Agreement, Consultant agreed to perform such additional services for the Authority as are contained in any additional scope of work established by the Authority in any addendum to the Agreement and accepted in writing by the Consultant; and

WHEREAS, the Authority and the Consultant desire to enter into this Addendum to the Agreement to provide for additional services to be rendered by the Consultant under the terms of said Agreement.

NOW, THEREFORE, in consideration of the premises and the mutual covenants herein contained, the Authority and the Consultant do hereby agree as follows:

1. Consultant shall perform additional services in accordance with the terms of the Agreement and the attached Exhibit "A." Consultant shall be paid for such additional services according to the payment terms set forth in the Agreement.

2. Consultant shall be compensated for such additional services in the **LUMP SUM AND NOT TO EXCEED** amount of **ONE MILLION NINE HUNDRED SEVENTY-NINE THOUSAND THREE HUNDRED NINE AND NO/100 DOLLARS (\$1,979,309.00)**, broken down as follows:

Professional Fees:	NTE:	\$109,221.00
Professional Fees:	LS:	\$1,855,593.00
Reimbursable Expenses:	NTE:	<u>\$14,495.00</u>
Total:		\$1,979,309.00

3. A. Consultant hereby certifies that it is not on the Scrutinized Companies that Boycott Israel List and is not engaged in a boycott of Israel, as defined in Florida Statutes § 287.135, as amended;

AND

B. (applicable to agreements that may be \$1,000,000 or more) - Consultant hereby certifies that it is: (1) not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized

Companies with Activities in the Iran Petroleum Energy Sector List as defined in Florida Statutes § 287.135; and (2) not engaged in business operations in Cuba or Syria, as defined in Florida Statutes § 287.135, as amended.

4. Authority may terminate the Agreement for cause and without the opportunity to cure if the Consultant is found to have submitted a false certification or has been placed on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel.

In the event the Agreement is for One Million Dollars (\$1,000,000.00) or more, Authority may terminate this Agreement for cause and without the opportunity to cure if the Consultant is found to have submitted a false certification or has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or is engaged in business operations in Cuba or Syria.

5. Except as expressly modified in this Addendum, the Agreement dated January 10, 2022 and all prior addenda will remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto by their duly authorized representatives, have executed this Addendum this 23 day of August, 2022.

GREATER ORLANDO AVIATION AUTHORITY


By: 
Kevin J. Thibault, P.E.
Chief Executive Officer

Approved as to Form and Legality
(for the benefit of GOAA only)

this 23 day of Aug, 2022

By: 
NELSON MULLINS BROAD AND
CASSEL, Legal Counsel
Greater Orlando Aviation Authority

AECOM TECHNICAL SERVICES, INC.

By: 
Signature (Duly Authorized Rep.)
Andrew Kacer
Printed Name
VP
Title



Orlando International Airport
One Jeff Fuqua Boulevard
Orlando, Florida, 32827-4392
(407) 825-2001

Memorandum

To: Members of the Construction Committee

From: Tuan Nguyen, Manager of Engineering
(prepared by Rita Watson/SchenkelShultz)

Date: June 21, 2022

Re: Request for Recommendation of Approval of an Addendum to the Professional Services Agreement with AECOM Technical Services, Inc. for Design Services for W-432, Design Services for Taxiways G & H Rehabilitation – Phases 1 & 2
Orlando International Airport

Consultant's proposal, dated April 22, 2022, is to provide Design Phase Services for the referenced Project (W-432). The Design Services and Deliverables generally include, but are not limited to the following: project surveys, geotechnical investigations, pavement condition evaluation, geometry design modifications, design and preparation of bid documents (50%, 90% & 100%), permitting documents, engineer's report, construction safety and phasing plan, project schedule and construction cost estimates. The consultant's proposal includes additional details for a complete description.

If approved, and contingent upon receiving future FAA and FDOT grants, these services would be effective after approval from the Aviation Authority Board.

Consultant shall, with each monthly invoice, certify that the assigned work and services are on schedule to be completed within the contracted lump sum price, or provide at time of certification a written notice to the Aviation Authority of any deviations.

The DBE participation has been reviewed by the Office of Small Business Development. Their findings and recommendation are attached.

Funding is from future FAA and FDOT grants to the extent eligible and General Airport Revenue Bonds. Funding source verified by VHinds of Construction Finance on 06/16/22 as correct and available.

It is respectfully requested that the Construction Committee, subject to receiving the FAA and FDOT grants, recommend to the Aviation Authority Board approval of an Addendum to the Professional Services Agreement with AECOM Technical Services for the services contained herein and amount as shown below:

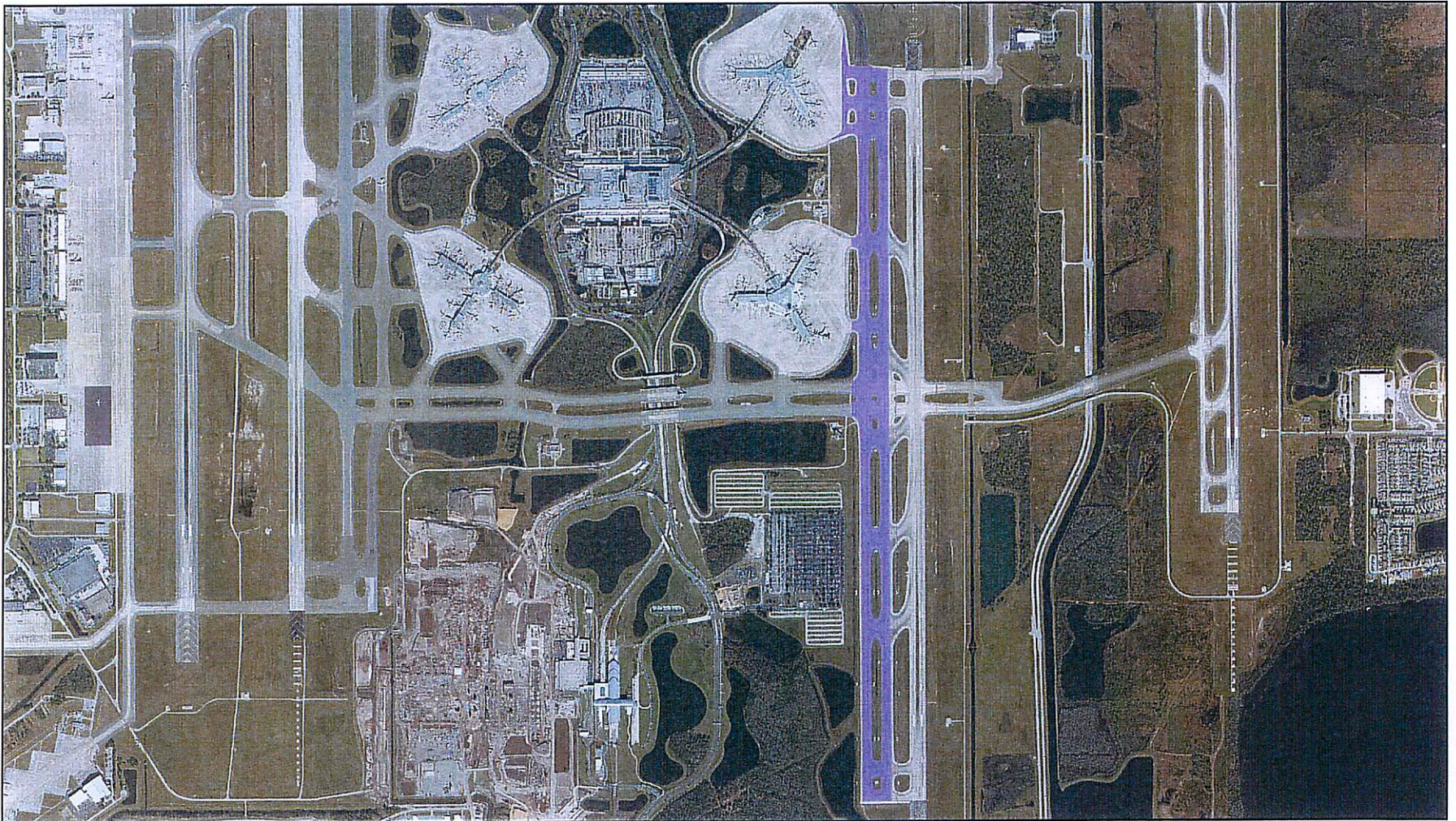
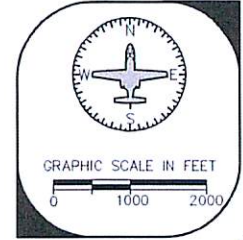
Not to Exceed Fees	\$109,221.00
Lump Sum Fees	\$1,855,593.00
Not to Exceed Expenses	\$14,495.00
TOTAL	\$1,979,309.00
AAC – Compliance Review Date	ZTA 6/14/2022
AAC – Funding Eligibility Review Date	6/14/2022



GREATER ORLANDO
AVIATION AUTHORITY

ORLANDO INTERNATIONAL AIRPORT (MCO)

W-432 TAXIWAYS G & H REHABILITATION-DESIGN



April 22, 2022

Mr. Tuan Nguyen
Manager of Civil Engineering
Greater Orlando Aviation Authority
Orlando International Airport
5855 Cargo Road
Orlando, FL 32827

RE: Greater Orlando Aviation Authority
Taxiways G & H Rehabilitation and Related Work

Mr. Nguyen:

AECOM Technical Services, Inc. (AECOM) is pleased to submit our Scope and Fee Proposal for the Taxiways G & H Rehabilitation and Related Work Project.

The Design Team consists of:

Prime:

AECOM: Overall contract and management of the project, and the planning and design of the taxiway pavement improvements;

Sub-consultants:

AVCON, Inc.: Electrical, lighting, and signage;

Pegasus Engineering, LLC: Stormwater design & permitting and video, cleaning, and repair of stormwater pipe;

Echo-UES, Inc.: Underground utilities; survey and mapping;

Corporate Environmental Risk Management, LLC: Airfield markings;

Cal-Tech Testing, Inc.: Geotechnical testing; and,

TransSolutions, LLC: Simulation Modeling.

A detailed description of the project is as described in the Attached Scope of Services. For this Taxiways G & H Rehabilitation and Related Work Project, outlined herein, we propose a lump sum fee amount of **\$1,855,593**, a not-to-exceed reimbursable labor fee amount of **\$109,221**, and a not-to-exceed reimbursable expense amount of **\$14,495**, for a total contract fee amount of **\$1,979,309**. Exhibit A provides a detailed breakdown of labor, hourly rates and average hourly rates for the Authority's consideration.

For this proposal, our DBE participation is anticipated to be **20.1%**.

If you have any questions regarding this, please feel free to contact me. We would be pleased to address any and all issues at your convenience.

Sincerely,
AECOM Technical Services, Inc.



Andrew Kacer, PE
VP

enclosures: Attachment 1, 2, 3, 4, 5, and Exhibit A

**Taxiways G & H Rehabilitation and Related Work
Orlando International Airport
Design Services**

PROJECT DESCRIPTION

Runway 17R-35L and parallel Taxiways G & H (including its connectors to the runway and Airsides 2 and 4), were constructed in 1988. This Taxiway G & H Rehabilitation and Related Work Project (Project) provides rehabilitation and improvements for existing Taxiways G & H, including the taxiway connectors between Taxiways G & H and the connectors between Airsides 2 and 4 to Taxiway G.

We understand that the Project will be broken up into separate bid packages (See **Attachment 1** for their anticipated work limits), with approximate estimated construction cost budget of \$20MM and \$20MM, respectively, for a total construction budget of \$40MM. The demolition of the high-speed exits and the construction of the new high speeds, shown as future work in **Attachment 1**, is not included in this scope/fee and would be authorized under a different Addendum if additional funding became available. The Design will be in accordance with the current FAA Design Standards.

PROJECT TASKS

AECOM will prepare contract documents for the Project improvements in accordance with the current FAA Design Standards. The pavement design will be based on the current version of FAA AC 150/5320-6F, Airport Pavement Design and Evaluation, to provide a design/service life of 20 years. The pavement geometry and taxiway safety/object free area clearances will be based on the current version of FAA AC 150/5300-13A, Change 1 (FAA Design AC), or the most current standards at the commencement of design related services. The project specifications will be based on the current version of FAA AC 150/5370-10H, Standards for Specifying Construction of Airports. The project's pavement markings will be based on the current version of FAA AC 150/5340-1M, Standards for Airport Markings. Florida Department of Transportation Design Standards will be utilized for erosion and sediment control measures and stormwater drainage design. The Construction Safety and Phasing plans will be prepared in compliance with the current version of FAA AC 150/5370-2G, Operational Safety on Airports During Construction. The Lighting, Signage and Electrical Improvement plans will be prepared in compliance with the current version of FAA 150/5340-18G, Standards for Airport Sign Systems, and FAA150/5340-30J, Design and Installation Details for Airport Visual Aids.

The Overall Project Tasks (Preliminary Recommendation Report and Design Services) include:

1. Attend One (1) Authority Design Kick-Off Meeting and prepare meeting minutes;
2. Coordinate One (1) Design Team Kick-Off Meeting;
3. Attend Four (4) Authority Submittal Review Meetings. Prepare meeting agenda and meeting minutes (Preliminary Recommendation Report Meeting, 50%, 90%, and 100% Contract Documents);
4. Attend Two (2) Authority coordination meetings with Airfield Operations, the FAA and the ATCT regarding the MOT and Phasing and Safety Plans and Details;

5. Coordinate Data Collection, Records Research and Review of As-built information;
6. Existing Conditions Analysis (2 weeks) – Topographic Survey, Pipe Video and Desilting, Geotechnical Investigations, Electrical/Signage Investigations, and Pavement Investigations.
7. Facilitate Team Design Coordination meetings via conference calls and webinars;
8. Develop Pavement Design;
9. Develop Pipe System Repairs
10. Develop Pavement Geometry and Markings Design/Analysis;
11. Develop Construction Safety and Phasing Plan;
12. Prepare Preliminary Recommendation Report; 50%, 90% and 100% Contract Documents including: Front End Documents, General Provisions, Technical Specifications, Drawings, Project Schedule, Cost Estimates, Permitting Documents, and Engineer's Report;
13. Provide Quality Assurance for all deliverables in compliance with ISO 9001-2015 Quality Management System;
14. Task Coordination (FAA, ATCT, Airfield Operations, SFWMD, Other Consultants, and other interested project stakeholders); and
15. Bid Related, Construction Administration, and Resident Project Representative Services will not be included in this task authorization.

PLANNING SERVICES

Kick-Off Meeting

AECOM will facilitate a design kick-off meeting between AECOM and each sub-consultant to review the project deliverables and schedule of deliverables, as well as the ISO 9001 quality management system (QMS) that is required to be followed by each team member. During this meeting, AECOM will describe the protocol by which all team members must adhere to during the development of the project. The AECOM Team will also attend a design kick-off meeting with the Authority. AECOM will prepare agendas and detailed meeting minutes for each meeting. At the onset of the Project, AECOM will prepare a project directory list for the Design Team.

Preliminary Recommendation Report:

TransSolutions, LLC will provide SIMMOD Analysis for three options to evaluate the impacts of the airfield for the proposed changes that will be eliminating the direct access from Airside 2 to Runway 17R-35L. These three options can be seen in **Attachments 1 through 3** and will evaluate taxi times, delays, and capacity, in both north and south flow, versus the existing conditions. A Draft and Final Report will be submitted to GOAA highlighting the impacts to the airfield for each of these three options. Prior to significant design development (but following the procurement of survey and geotechnical data), AECOM shall prepare a Preliminary Recommendation Report that includes the anticipated construction costs for the recommended option with proposed rehabilitation of the paved surfaces, geometry improvements, drainage improvements, and airfield electrical and signage improvements for both Bid Packages. The AECOM Team will work with GOAA to evaluate the proposed construction costs versus the available construction budget to prioritize the construction activities to be completed. The AECOM Team will move forward with the 50% Design Documents to include the scope of work that encompasses GOAA's available construction budget for each Bid Package, totaling \$40M.

Meetings/Deliverables (Planning Phase)

- Authority/ Team Kick-Off Meeting; and
- Preliminary Recommendation Report showing the recommended ultimate design of two Bid Packages, with options where appropriate, and their estimated construction costs.

DESIGN SERVICES

DESIGN DEVELOPMENT PHASE (50 PERCENT)

Review of Record Documents

AECOM Team will review existing record documentation, including plans, studies, and permits on file with the Authority and the South Florida Water Management District (SFWMD). These record documents will be reviewed to obtain data related to:

- Pavement type, thickness, and age;
- Data related to existing underground utility locations and type;
- Lighting, signage and electrical, and NAVAIDs;
- Geotechnical Data; and
- SFWMD Permit Data.

Site Evaluation

The AECOM Team will perform an evaluation of the site as well as data collection that includes: topographic survey, geotechnical engineering, pavement evaluation, pipe evaluation, and evaluation of the condition of the lighting, signage, and the existing electrical system back to the vault. The AECOM Team will also evaluate the grassed areas, the drainage system, and other above ground features within the taxiway safety areas. We will also examine the presence of the above ground features and any possible underground utilities that were not identified in the record documents available from the Authority.

Topographic Survey

Echo-UES, Inc. (Echo) will perform the surveying services for this contract. The major components of the survey include the following items, as also shown on **Attachment 4**:

- Establish primary horizontal and vertical project control for this project, tying into the PACS and SACS;
- Horizontal control to be based on Florida State Plane Coordinate system. Set at 500-foot intervals control points with an estimated 4 days to set and locate plus office processing time (using OPUS);
- Provide a topographic survey for the area within the limits as identified on **Attachment 4**; The topographic survey will provide locations using static LIDAR to obtain elevations and coordinates for the existing site features that are located within the limits and will utilize Real-Time Kinematic (RTK) surveying and surveying via total station where feasible;
- Provide detailed topographic survey for all above ground structures (size and type) and all storm drainage structures. Include all pipe inverts and top of structures elevations, to be recorded to nearest 0.01-foot;
- Locate runway/taxiway lights and/or Navigational Aid (NAVAIDs). All runway/taxiway signs and/or Navigational Aid concrete pad to be located and shot to the nearest 0.01'. Utilize redundant RTK and total station where feasible;

- Provide the layout and characteristics of all pavement markings within the survey boundary;
- Underground duct banks (marked by 2' X 2' concrete markers) within the project area will be located as visible from the ground surface. Any other underground utilities to be located based on surface markings provided by GOAA or based on data previously collected. Survey utilities via RTK;
- Subsurface Utility Locations using ground penetrating radar (GPR) and pipe/cable locator will be completed exclusively at locations where geotechnical investigations will take place.
- Following the geotechnical field work, Echo will locate the final core and boring locations using RTK;
- Echo will provide all final digital files in an AutoCAD format;
- Echo will perform the work in accordance with GOAA and FAA requirements and follow all Orlando International Airport regulations;
- Echo will provide all survey work in accordance with the Standards of Practice set forth by the Florida Board of Surveyors & Mappers pursuant to section 472.027 Florida Statutes; and
- Echo will complete all work under the direct supervision of a Professional Surveyor and Mapper licensed to practice in the State of Florida;

Geotechnical/subsurface investigations

Cal-Tech will perform the geotechnical/subsurface investigations services for this contract. **Attachment 5** describes the major components of the geotechnical subsurface investigations services, including the following items:

- Twelve (12) 10-foot deep Standard Penetration Test (SPT) borings;
- Thirty-six (36) asphalt cores (approx. 2-feet in depth);
- Eight (8) concrete/econocrete cores; and,
- Six (6) Lab CBR tests.

Geotechnical data will include the thicknesses of the concrete, econocrete, asphalt, limerock base, and stabilized subgrade thicknesses. Bulk samples for the CBR will be collected at locations along the project limits for CBR testing. Proposed SPT, core, and CBR testing and sampling locations will be located/adjusted after the site visits which will be conducted immediately after the NTP is issued. Subcontractor will operate in close collaboration with Airfield Operations, Construction and Electrical Maintenance personnel as well as FAA/ATCT as needed to schedule and carry out the field investigations discussed in this section. This effort will ensure that the proposed test locations do not conflict with any underground electric utilities, stormwater systems, other utilities or FAA communication facilities. Impacted airfield pavements will be closed in accordance with current FAA and GOAA guidelines as appropriate to ensure the safety of the traveling public and the geotechnical field crews.

Cal-Tech soil engineers will visually examine the recovered soil, pavement cores, and pavement materials samples and classify them in accordance with American Society for Testing and Standards (ASTM) procedures for that purpose. Laboratory testing will be conducted to provide the basis for classification. Boring and core locations will be provided in AutoCAD format. Soil boring Logs will be provided in AutoCAD format denoting boring number, Unified Soil Classification (USC, location of groundwater table, depth, number of blows, standard penetration resistance in blows per foot,

northing and easting, date performed, and depth in feet. Coring Logs will be provided in AutoCAD format denoting coring number, depth of pavement sections including surface course and base material in inches, and photographs of each core documented.

The field and laboratory data will be incorporated into a Geotechnical Engineering Report which will become part of the construction documents. The report will include assessments of the encountered subsurface conditions, their implications for the proposed construction and recommendations as appropriate for design of the airfield pavement facilities. The final Geotechnical Engineering Report will be signed and sealed by a Professional Engineer registered in the State of Florida.

Pavement Condition Evaluation

AECOM will review the full-strength taxiway pavement condition and all shoulder pavement of Taxiways G & H, including the connectors between the two taxiways and their connectors to Airsides 2 and 4, as depicted by the work limits of **Attachments 1 through 3**. This analysis will include an onsite pavement condition evaluation and a review of the latest MCO Pavement Management Report, for comparison to our findings. Based on this evaluation we will determine the final location of where our proposed geotechnical data acquisition will be and prepare a summary of the condition of the existing pavement.

Geometry

The new geometry will conform to the FAA's latest Airport Design Standards as described in FAA Design AC for ADG V / TDG 6. In our design of proposed taxiway geometry modifications to comply with the current FAA AC, AECOM will evaluate maintaining the existing taxiway centerline and centerline lights and adjusting the full strength and shoulder pavements accordingly. This standard has been established on the past GOAA Projects of BP-467 Taxiway J Rehabilitation and Related Work, BP-468 Runway 17R-35L Rehabilitation and Related Work, and BP-495/496 East Airfield Taxiways Rehabilitation and Related Work Projects.

The pavement edge locations will be defined using the FAA TDG 6 standard template in concurrence with the composite ADG V / TDG 6 aircraft as defined in the Transoft Airside Pro software (formerly Simtra AeroTech's PathPlanner).

There are two direct connections from Airside 2 to Runway 17R-35L, via Taxiways H1 and H2. The direct connections will be removed (see **Attachments 1 through 3** for potential design options) in accordance with the FAA Design AC Standards with the required lighting and geometry improvements implemented accordingly. With the removal of this pavement, the lighting, signage, and marking will be updated to reflect the removal of these taxiway connectors.

ATTACHMENTS 1-3: Shows the existing pavement that does not meet the current FAA Standards and the possible proposed geometry modifications, within the Project work limits, to comply with FAA Design AC for ADG V / TDG 6. These possible proposed geometry modifications will be fully vetted during the Planning Services Phase.

Schedule

In developing the survey and geotechnical proposal, our schedule for performing the work is based on access to the limits of our Project during the daytime, from 7am to 5pm, weekdays, until the work is complete.

Pavement Design/Improvements

AECOM will develop pavement sections for the taxiway geometry modifications required to satisfy the intent of the ultimate geometry configuration, described in the Geometry and Marking Plans section. The new full-strength pavement section design will be based on the existing soil conditions and on the anticipated fleet mix that will be utilizing the taxiways. The shoulder pavement section design should accommodate a total of ten (10) departures by the most demanding aircraft. All pavement design will be based on the current version of FAA AC 150/5320-6F, Airport pavement Design and Evaluation.

The Project will consider rehabilitating and/or reconstructing portions of the existing asphalt taxiway shoulders in order to comply with the minimum requirements of the FAA AC 150/5320-6F.

Also, the following improvements to the PCC within the project limits will be included:

- All joints will be resealed with Dow Corning Silicone 888 (concrete to concrete) and 890 (concrete to asphalt), or an approved equal;
- Spalls will be repaired utilizing FlexPatch, a one-part polymeric material, or an approved equal;
- Full depth slab corner breaks will be repaired, utilizing full-depth three-foot-diameter P-501 PCC, doveled into the four adjacent slabs; and,
- A number of slabs will be replaced in their entirety.

Grading and Drainage Design

AECOM will prepare the pavement grading and drainage plans in accordance with the latest FAA standards. For new pavement, longitudinal profiles and transverse pavement slopes will be designed in accordance with FAA Design AC. Outside of the pavement area the grass areas will be graded to conform to TSA grading criteria as outlined in FAA Design AC. Taxiways G & H are part of the OIA Stormwater Master Plan.

The existing drainage system will be examined and adjustments to the existing system will be made to ensure that the system is structurally adequate. The design will include directions for the Contractor to clean and video the drainage pipe system so that any portions of the pipe system require repairs can be identified. Erosion control features such as rip rap and/or articulate concrete will be installed where required to prevent erosion. Existing culverts and headwalls affected by the taxiway connector geometry modifications will be extended as required by the proposed grading design and to comply with the latest FAA Design AC TSA Criteria. The proposed drainage design will consider FAA and SFWMD criteria.

Permitting

Additionally, any modifications or additions made to the system, based on the proposed modifications to the taxiway geometry, will be evaluated to ensure that there

are no negative hydraulic impacts to the pipes and ditches upstream or downstream of the structures being modified.

A permit modification to the existing stormwater master plan will be obtained from the SFWMD to incorporate any changes to the contributing impervious area based on the geometry revisions, which include the addition or removal of taxiway components.

Electrical / Lighting / Signage:

The electrical, lighting, and signage improvements performed by AVCON will specifically accommodate Taxiways G & H, including the taxiway connectors between Taxiways G & H and the connectors between Airsides 2 and 4 to Taxiway G. These improvements will be implemented under two separate bid packages. To the degree desired by the Authority, this project shall serve as a vehicle to bring the overall airfield lighting and signage systems into compliance with new FAA standards and the Authority's desire for ease of maintenance and reduced energy usage. The original installation of the lighting and signage systems in this section of the airfield was completed in 1988 as part of the 17R-35L construction program.

The existing taxiway edge and centerline light fixtures are incandescent. The fixtures and cables will have reached their useful life prior to the construction of the project and are recommended for complete replacement. The lighting replacement/upgrade will be in accordance with FAA AC 150/5340-30, Design and Installation Details for Airport Visual Aids latest edition at the time of contract execution for this project. The L-830 Isolation transformers will be sized to match the LED signs to provide most energy-efficient installation.

Most of the existing signs are the Signature Series Quartz Incandescent type and are outdated. Our team will inventory the signs and replace older signs with energy-efficient LED units. The signs shall also be evaluated for changes in edge of pavement geometry and grades. The design for these elements will be in accordance with FAA AC 150/5340-18, Standards for Airport Sign Systems, latest edition at the time of contract execution for this project. The L-830 Isolation transformers will be sized to match the LED signs to provide most energy-efficient installation.

New lightning protection "Counterpoise" will be installed by the equipotential method in accordance with FAA AC 150/5370-10H and NFPA 780. This method is consistent with Authority standards. Field lightning arrestors will be installed on all circuits. The new ground rod inspection pit will be installed on the ground grid system in support of the new work.

Our team will also specify "Complete Kits" or "Super Kits" type of L-823 connector kits in accordance with Authority requirements and will inspect and replace defective or broken items. Standard FAA specified SS bolts will be used to install the fixtures. Brass ID tags will be installed at all new fixtures.

Other considerations for the airfield lighting portion of this project will be conversion of any remaining electrical manholes to junction can plazas to promote safety and ease of access; enhanced drainage installation for taxiway centerline lighting and edge lighting systems to promote positive drainage of the can and conduit system; upgraded lightning protection, and related work.

The Vault shall be evaluated for changes to the existing regulators to account for reduced loads due to LED fixture installations. It may improve efficiency to combine selected circuits with similarly controlled circuits in the vault. The existing Short Circuit/Coordination/Device Evaluation/Arc-Flash Study will be updated in accordance with the requirements of NFPA 70E. The graphics associated with the Airfield lighting Control System shall also be modified to reflect the new geometry of the airfield, as applicable. All fixtures shall also receive RFID tags in keeping with the MALMS protocol established on earlier projects.

Finally, our team proposes to have the completed lighting and signage systems photometrically tested to demonstrate to the Authority and FAA that the systems meet criteria. FAA AC 150/5340-26C requires lighting systems to be photometrically tested.

Meetings/Deliverables (50%)

- Approved Ultimate Geometry Plan Based on decisions made at Authority Briefing to be Developed to 50% Construction Documents;
- Half Size (15"X 21") Plans (2 Sets);
- Draft CSSP (PDF);
- Division 1 and Division 2 Specifications (PDF);
- Engineering Report (PDF);
- Geotechnical Report (PDF);
- 50% Construction Cost Estimate;
- All documents will be uploaded to the GOAA box.com site;
- Respond to GOAA Comments; and
- 50% Design Review Meeting (Prepare Agenda, Sign-In Sheet, and Meeting Minutes).

C. CONSTRUCTION DOCUMENT PHASE (90 PERCENT)

AECOM will develop 90% construction documents that include complete detailed drawings, the GOAA general conditions and front end documents, the division 1 documents and the technical specifications. The 90% construction documents will further refine the elements that were developed for the 50% construction documents and incorporate comments provided by the Authority related to the 50% construction documents. At this stage AECOM will also submit the engineer's report and a construction cost estimate. Comments from our previous submittal will be addressed. The SFWMD Permit will be submitted. AECOM will develop these 90% documents in accordance with FAA standards, GOAA computer aided design drafting (CADD) standards, and in accordance with AECOM's ISO 9001 QMS.

Meetings/Deliverables (90%)

- Half Size (15"X 21") Plans (2 Sets);
- 90% CSPP – Submit to FAA (1 Copy);
- Front End Division 0, Division 1 and Division 2 Specifications (PDF);
- Engineering Report (1 PDF);
- 90% Construction Cost Estimate;
- All documents will be uploaded to the GOAA box.com site;
- Respond to GOAA Comments; and
- 90% Design Review Meeting (Prepare Agenda, Sign-In Sheet, and Meeting Minutes).

D. CONSTRUCTION DOCUMENTS PHASE (100 PERCENT)

AECOM will develop 100% construction documents. The 100% construction documents will further refine the elements that were developed for the 90% construction documents and incorporate comments provided by the Authority related to the 90% construction documents. The 100% construction documents will consist of construction plans, technical specifications, an engineering report, and a construction cost estimate. AECOM will develop these 100% documents in accordance with FAA standards, GOAA computer aided design drafting (CADD) standards, and in accordance with AECOM's ISO 9001 QMS.

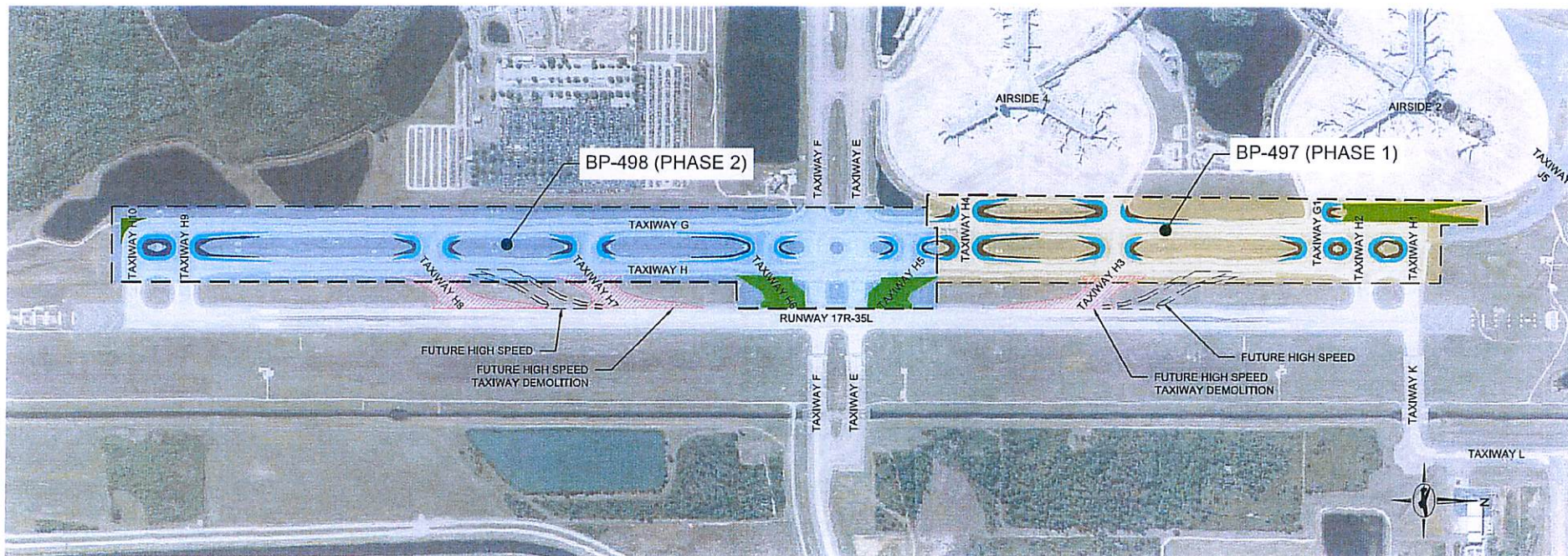
Meetings/Deliverables (100%)

- Half Size (15"X 21") Plans (2 Sets);
- 100% CSPP – Submit to FAA (4 Copies);
- Front End Division 0, Division 1 and Division 2 Specifications (PDF);
- Engineering Report (PDF);
- 100% Construction Cost Estimate;
- All documents will be uploaded to the GOAA box.com site; and
- Respond to GOAA Comments.

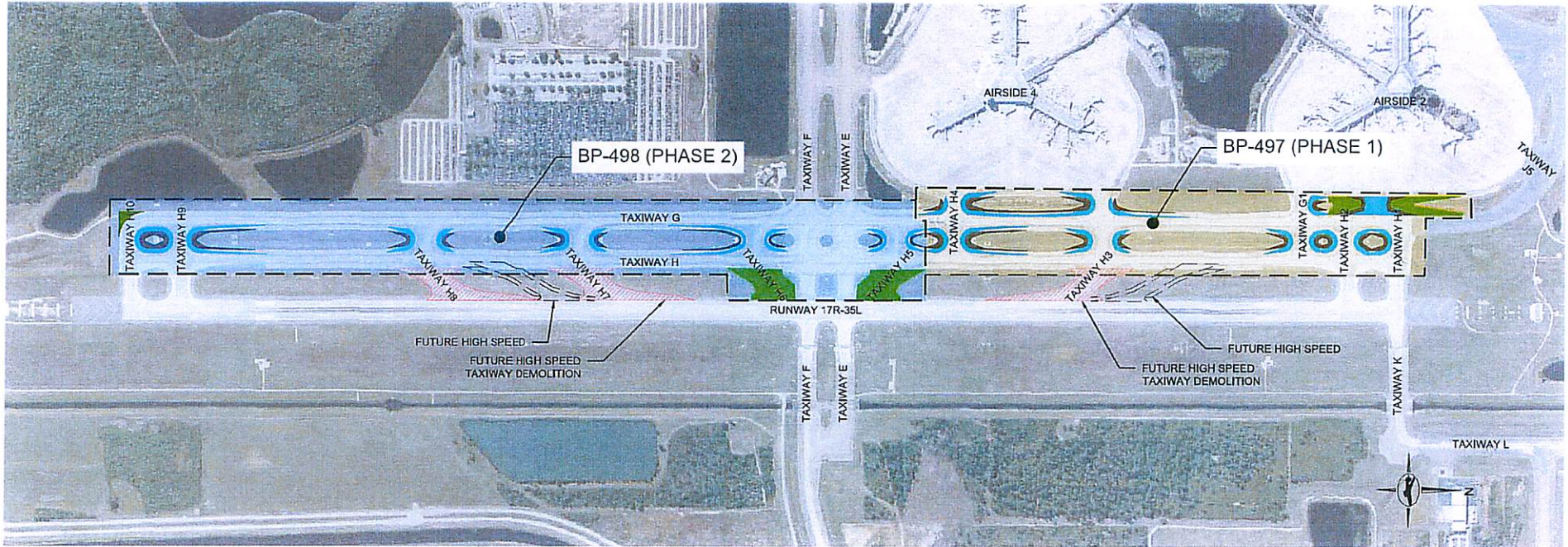
SCHEDULE

DATE	DESCRIPTION
04/06/2022	Complete Scope Negotiation
08/31/2022	Receive and Execute FAA Grant
09/13/2022	Board Approval of Negotiated Fee
10/14/2022	Complete Agreement Execution and Design NTP
01/06/2023	Submit 50% Design Plans, Specifications, and Engineer's Report for TRT Review
01/17/2023	50% TRT Review Meeting / FAA Pre – Design Conference
February 2023	CSPP and Airspace Coordination in iOE/AAA
02/24/2023	Submit 90% Design Plans, Specifications, and Engineer's Report for TRT Review
03/07/2023	90% TRT Review Meeting
03/14/2023	Completion of Plans, Specifications, and Engineer's Report
03/14/2023	Submit Plans, Specifications, Engineer's Report, and CSPP to FAA and FDOT
03/17/2023	Begin circulation of Approval to Bid Package
03/17/2023	Approval to Bid – Deadline for Newspaper
04/07/2023	Pre-Bid Conference and Site Visit
04/25/2023	Bid Opening
05/04/2023	Submit Fee Proposal to C.C. for Approval
05/18/2023	C.C. Approval and Recommendation for Award
05/18/2023	Application Submittal for Construction Phase Grant to FAA

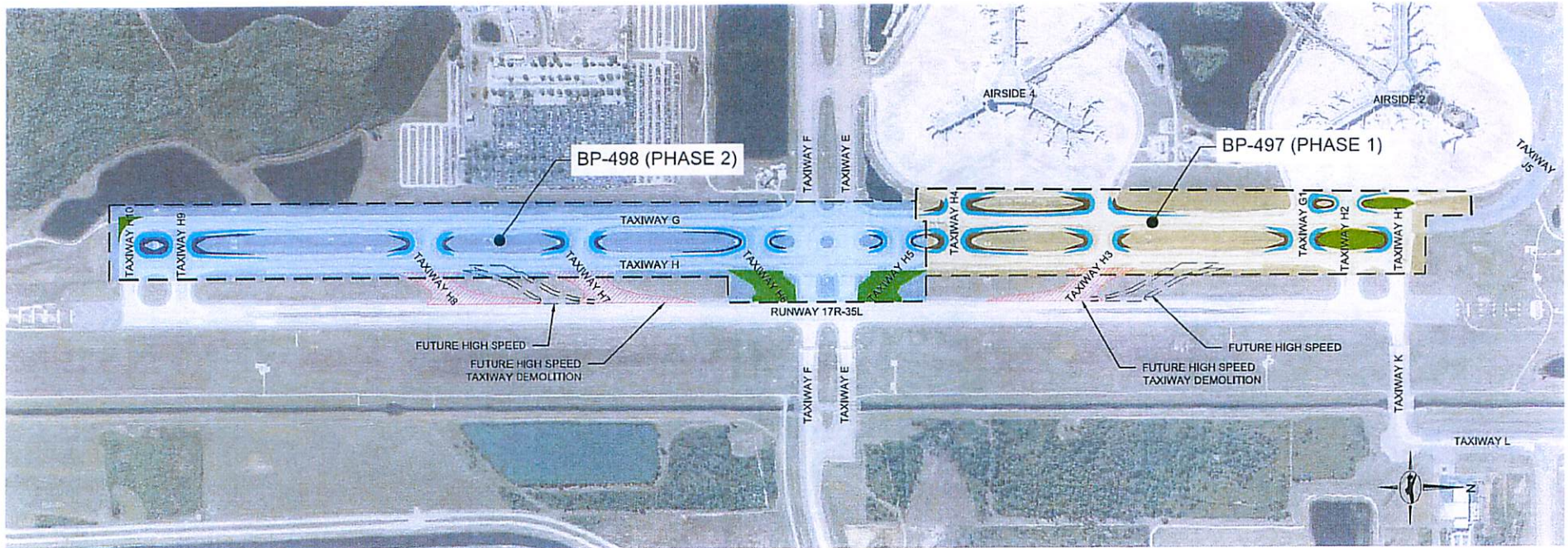
ATTACHMENT 1 - OPTION 1



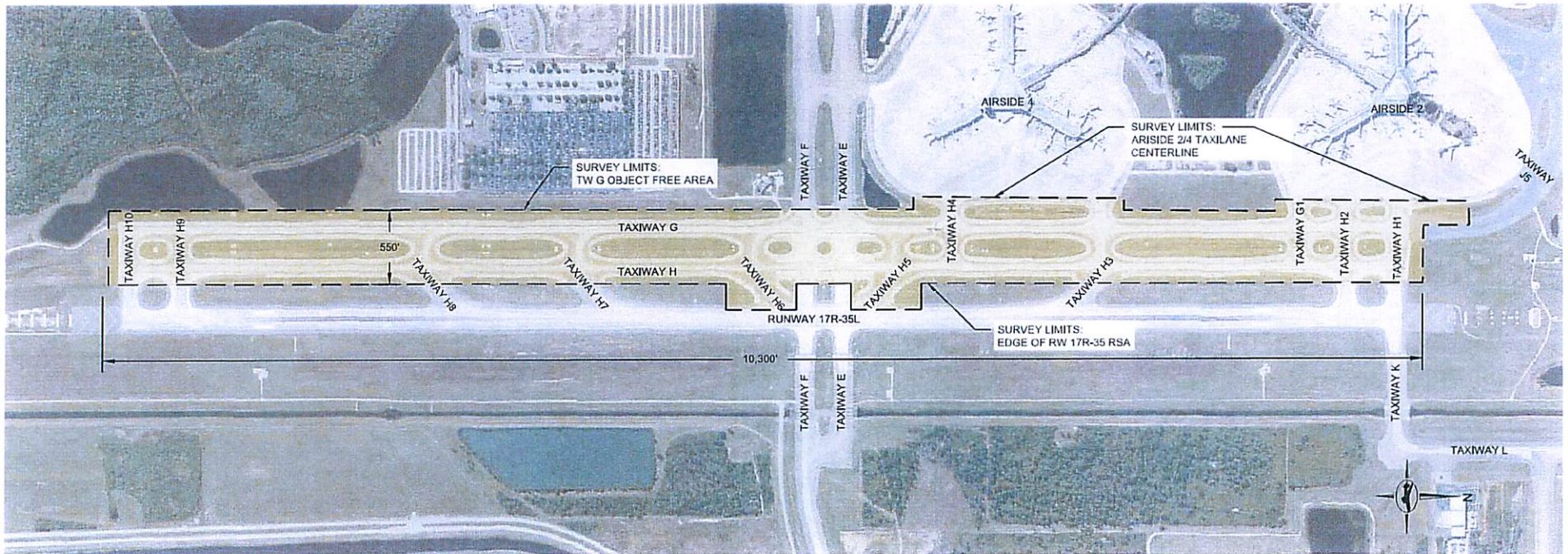
ATTACHMENT 2 - OPTION 2



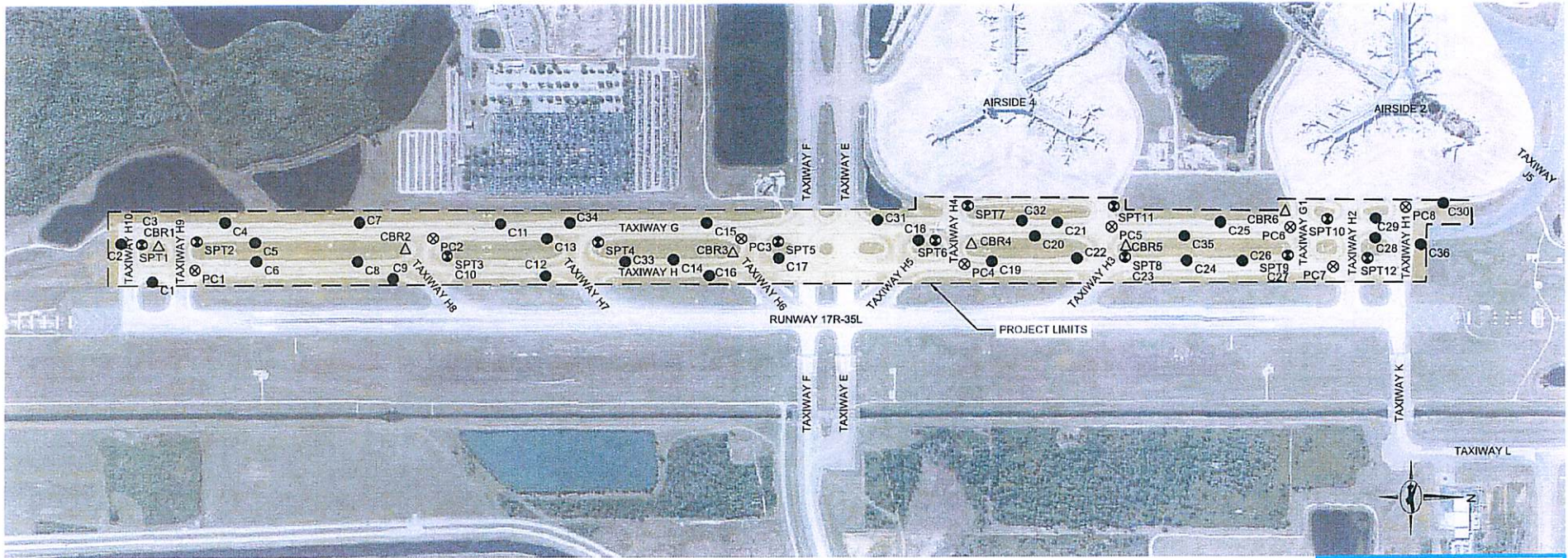
ATTACHMENT 3 - OPTION 3



ATTACHMENT 4



ATTACHMENT 5



LEGEND	
● C1	ASPHALT CORE (36) LIMEROCK / STABILIZED SUBGRADE (APPROXIMATE LOCATION)
⊗ PC1	PCC / ECONCRETE CORE (8) (APPROXIMATE LOCATION)
⊙ SPT1	STANDARD PENETRATION TEST (12) (APPROXIMATE LOCATION)
△ CBR1	CBR TEST (6) (APPROXIMATE LOCATION)
-----	WORK LIMITS

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL (OVERALL)
TABLE C-1-B
SUMMARY OF TOTAL CONTRACT VALUE
Taxiways G & H Rehabilitation and Related Work

Phase of Project:	Planning Phase	Design Development 50%	Construction Documents 90%	Construction Documents 100%	TOTAL CONTRACT
1.0 Lump Sum Fee:	\$240,006	\$681,916	\$549,571	\$384,100	\$1,855,593
2.0 Not to Exceed Reimbursable Fee:	\$0	\$109,221	\$0	\$0	\$109,221
3.0 Not to Exceed Reimbursable Expenses:	\$0	\$14,495	\$0	\$0	\$14,495
4.0 TOTAL CONTRACT VALUE:	\$240,006	\$805,632	\$549,571	\$384,100	\$1,979,309

Total Lump Sum Labor Hours:	1,629	5,272	4,187	2,938	14,026
Total Not to Exceed Reimbursable Labor Hours:	0	786	0	0	786
TOTAL LABOR HOURS:	1,629	6,058	4,187	2,938	14,812
Average Hourly Rate:	\$147.33	\$130.59	\$131.26	\$130.74	\$132.65

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-2
SUMMARY OF LUMP SUM FEES

Taxiways G & H Rehabilitation and Related Work											
Phase of Project:	Planning Phase		Development (50%)		Const. Docs. (90%)		Const. Docs. (100%)		TOTAL		
	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Cost	Avg. Rate
AECOM											
Lump Sum Fee Subtotal Subtotal	781	\$ 114,597	2,787	\$ 381,557	2,555	\$ 352,665	2,118	\$ 286,756	8,241	\$1,135,575	\$138
Avcon											
Lump Sum Fee Subtotal	440	\$55,156	1,708	\$192,402	1,166	\$133,716	576	\$64,488	3,890	\$445,762	\$115
Pegasus											
Lump Sum Fee Subtotal			598	\$ 86,918	348	\$ 49,464	134	\$ 20,046	1,080	\$156,428	\$145
CERM											
Lump Sum Fee Subtotal	68	\$ 8,016	179	21,039	118	\$13,726	110	\$12,810	475	\$55,591	\$117
TransSolutions											
Lump Sum Fee Subtotal	340	\$62,237							340	\$62,237	\$183
Lump Sum Fee Subtotal									0	\$0	\$0
Total Lump Sum Amount:	1,629	\$240,006	5,272	\$681,916	4,187	\$549,571	2,938	\$384,100	14,026	\$1,855,593	\$132

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL

TABLE C-3

BREAKDOWN OF LUMP SUM FEES

Taxiways G & H Rehabilitation and Related Work																	
Position:	QA/QC		SENIOR PROJECT MANAGER		SENIOR ENGINEER		PROJECT ENGINEER		SENIOR PLANNER		SENIOR CADD DESIGNER		PROJECT MANAGER ASSISTANT		TOTAL		
Rate (\$/hour):	\$175		\$227		\$181		\$143		\$147		\$99		\$80				Avg. Hourly
AECOM	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Rate
Planning Phase																	
Prepare for/Attend Internal Project Kickoff (Write Minutes)	1	\$175	4	\$908	4	\$724	4	\$572	4	\$588		\$0	4	\$352	21	\$3,319	\$158
Team Meetings (Coordination)		\$0	8	\$1,816	8	\$1,448	8	\$1,144	8	\$1,176	8	\$792	2	\$176	42	\$6,552	\$156
Review of Record Drawings, Documents and Previous Studies (Planning)		\$0	8	\$1,816	4	\$724	4	\$572	16	\$2,352		\$0		\$0	32	\$5,464	\$171
Simulate Aircraft Movements and Compare Geometry Alternatives	16	\$2,800	4	\$908	16	\$2,896	4	\$572	40	\$5,880	50	\$4,950		\$0	130	\$18,006	\$139
Develop and Coordinate Draft Mitigation Plan for Non-standard Taxiway Configurations with GOAA & FAA		\$0	8	\$1,816	16	\$2,896	12	\$1,716	40	\$5,880	40	\$3,960		\$0	116	\$16,268	\$140
Develop Costs for Alternatives to Present to GOAA		\$0	8	\$1,816	20	\$3,620	40	\$5,720	20	\$2,940	40	\$3,960		\$0	128	\$18,056	\$141
Develop/Submit Draft of Preliminary Recommendation Report w/ Alternatives and w/ Costs to GOAA	16	\$2,800	8	\$1,816	24	\$4,344	24	\$3,432	20	\$2,940	24	\$2,376	8	\$704	124	\$16,412	\$148
Receive Review and Respond to Comments from GOAA and Stakeholders	4	\$700	8	\$1,816	8	\$1,448	8	\$1,144	12	\$1,764	4	\$396	4	\$352	48	\$7,620	\$159
Incorporate Comments and Develop Final Preliminary Recommendation Report	8	\$1,400	8	\$1,816	10	\$1,810	10	\$1,430	10	\$1,470	20	\$1,980	8	\$704	74	\$10,610	\$143
Develop Costs for Final Final Recommendation	2	\$350	4	\$908	16	\$2,896	16	\$2,288	2	\$294	10	\$990		\$0	50	\$7,726	\$155
Coordinate/Review Final Preliminary Recommendation Report with GOAA & FAA		\$0	4	\$908	4	\$724	2	\$286	2	\$294		\$0	4	\$352	16	\$2,564	\$160
Sub-Total Planning Phase	47	\$8,225	72	\$16,344	130	\$23,530	132	\$18,876	174	\$25,578	196	\$19,404	30	\$2,540	781	\$114,597	\$147

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES**

Taxiways G & H Rehabilitation and Related Work																	
Position:	QA/QC		SENIOR PROJECT MANAGER		SENIOR ENGINEER		PROJECT ENGINEER		SENIOR PLANNER		SENIOR CADD DESIGNER		PROJECT MANAGER ASSISTANT		TOTAL		Avg. Hourly
	\$175		\$227		\$101		\$143		\$147		\$99		\$88		labor hours	Cost	
Rate (\$/Hour):	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Rate
AECOM																	
Design Development (50%)																	
Review of Record Drawings, Documents and Previous Studies		\$0		\$1,362	12	\$2,172	16	\$2,288		\$0	16	\$1,584		\$0	50	\$7,406	\$148
Pavement/Site Condition Evaluation / Develop Pavement Design		\$0	16	\$3,632	40	\$7,240	50	\$7,150		\$0	50	\$4,950		\$0	156	\$22,972	\$147
Surveying (Oversight/Coordination)		\$0	20	\$4,540		\$0	20	\$2,860		\$0		\$0	8	\$704	48	\$8,104	\$169
Geotechnical Investigation & Analysis (Oversight/Coordination)		\$0	20	\$4,540		\$0	32	\$4,576		\$0		\$0	8	\$704	60	\$9,820	\$164
Develop Drawings (Two B/d Packages)																	
COVER		\$0		\$0	2	\$362	2	\$286		\$0	6	\$594		\$0	10	\$1,242	\$124
PROJECT DRAWING LIST		\$0	2	\$454	4	\$724	4	\$572		\$0	12	\$1,188		\$0	22	\$2,938	\$134
SUMMARY OF QUANTITIES		\$0	2	\$454	4	\$724	4	\$572		\$0	14	\$1,386		\$0	24	\$3,136	\$131
GENERAL NOTES		\$0	2	\$454	4	\$724	4	\$572		\$0	6	\$594		\$0	16	\$2,344	\$147
OVERALL PROJECT LAYOUT PLAN		\$0	2	\$454	5	\$905	4	\$572		\$0	20	\$1,980		\$0	31	\$3,911	\$126
PROJECT CONSTRUCTION HAUL ROUTE AND NOTES		\$0	4	\$908	12	\$2,172	6	\$858		\$0	24	\$2,376		\$0	46	\$6,314	\$137
PROJECT LAYOUT AND SURVEY CONTROL PLAN		\$0	2	\$454	4	\$724	4	\$572		\$0	20	\$1,980		\$0	30	\$3,730	\$124
BORING/CORING LOCATION PLAN		\$0	1	\$227	2	\$362	4	\$572		\$0	18	\$1,782		\$0	25	\$2,943	\$118
BORING/CORING LOGS		\$0	1	\$227	2	\$362	4	\$572		\$0	16	\$1,584		\$0	23	\$2,745	\$119
SHEET LAYOUT PLAN		\$0	1	\$227	2	\$362	4	\$572		\$0	20	\$1,980		\$0	27	\$3,141	\$116
EXISTING CONDITIONS PLANS (14 SHEETS)		\$0	8	\$1,816	20	\$3,620	20	\$2,860		\$0	100	\$9,900		\$0	148	\$18,196	\$123
DEMOLITION PLANS (14 SHEETS)		\$0	8	\$1,816	24	\$4,344	20	\$2,860		\$0	92	\$9,108		\$0	144	\$18,128	\$126
GEOMETRY PLANS (14 SHEETS)		\$0	8	\$1,816	16	\$2,896	20	\$2,860	60	\$8,820	80	\$7,920		\$0	184	\$24,312	\$132
PAVEMENT PLANS (14 SHEETS)		\$0	8	\$1,816	24	\$4,344	32	\$4,576		\$0	80	\$7,920		\$0	144	\$18,656	\$130
TYPICAL DEMOLITION SECTIONS (3 SHEETS)		\$0	8	\$1,816	16	\$2,896	20	\$2,860		\$0	60	\$5,940		\$0	104	\$13,512	\$130
TYPICAL PAVEMENT SECTIONS (3 SHEETS)		\$0	8	\$1,816	16	\$2,896	20	\$2,860		\$0	60	\$5,940		\$0	104	\$13,512	\$130
GRADING PLANS PAVEMENT (14 SHEETS)		\$0	4	\$908	16	\$2,896	60	\$8,580		\$0	60	\$5,940		\$0	140	\$18,324	\$131
OVERALL PHASING PLANS		\$0	2	\$454	12	\$2,172	12	\$1,716		\$0	70	\$6,930		\$0	96	\$11,272	\$117
BARRICADE LOCATION PLANS (14 SHEETS)		\$0	10	\$2,270	10	\$1,810	30	\$4,290		\$0	60	\$5,940		\$0	110	\$14,310	\$130
SAFETY AND SECURITY PLAN AND NOTES		\$0	1	\$227	2	\$362	2	\$286		\$0	8	\$792		\$0	13	\$1,667	\$128
SAFETY AND SECURITY DETAILS		\$0	2	\$454	5	\$905	5	\$715		\$0	8	\$792		\$0	20	\$2,866	\$143
PAVEMENT PROFILES (8 SHEETS)		\$0	2	\$454	8	\$1,448	8	\$1,144		\$0	40	\$3,960		\$0	58	\$7,008	\$121
CROSS SECTIONS (40 TW SHEETS)		\$0	5	\$1,135	10	\$1,810	10	\$1,430		\$0	100	\$9,900		\$0	125	\$14,275	\$114
Develop Construction Cost Estimate/Quantities		\$0	10	\$2,270	20	\$3,620	20	\$2,860		\$0	80	\$7,920		\$0	130	\$16,670	\$128
Develop Pavement Design		\$0	4	\$908	10	\$1,810	10	\$1,430		\$0		\$0		\$0	24	\$4,148	\$173
Develop Technical Specifications		\$0	18	\$4,086	20	\$3,620	16	\$2,288		\$0		\$0		\$0	54	\$9,994	\$185
Develop C/SPP		\$0	4	\$908	8	\$1,448	16	\$2,288		\$0		\$0		\$0	28	\$4,644	\$166
Develop Engineering Report		\$0	5	\$1,135	24	\$4,344	16	\$2,288		\$0		\$0		\$0	45	\$7,767	\$173
Develop Drainage Design (Oversight - PEGASUS)		\$0	4	\$908	8	\$1,448		\$0		\$0		\$0	10	\$880	22	\$3,236	\$147
Permitting (Oversight - PEGASUS)		\$0	4	\$908	8	\$1,448		\$0		\$0		\$0	10	\$880	22	\$3,236	\$147
Develop Lighting Signage Electrical and NAVAIDS (Oversight - AVCCO)		\$0	4	\$908	8	\$1,448		\$0		\$0	8	\$792	10	\$880	30	\$4,028	\$134
Develop Drainage Plans and Details (Oversight - PEGASUS)		\$0	12	\$2,724		\$0		\$0		\$0	8	\$792	10	\$880	30	\$4,396	\$147
Develop Pavement Marking Plans and Details (Oversight - CERM)		\$0	12	\$2,724		\$0		\$0		\$0		\$0	10	\$880	22	\$3,604	\$164
Project Management		\$0	30	\$6,810	30	\$5,430		\$0		\$0		\$0	40	\$3,520	100	\$15,760	\$158
QA/QC Review of 50% Documents - Incorporate Comments	60	\$10,500	20	\$4,540	12	\$2,172	12	\$1,716		\$0	80	\$7,920	4	\$352	188	\$27,200	\$145
Submit 50% Documents		\$0	10	\$2,270	16	\$2,896	16	\$2,288		\$0	30	\$2,970	4	\$352	76	\$10,776	\$142
Provide Written response to 50% comments	12	\$2,100	4	\$908	8	\$1,448	8	\$1,144		\$0		\$0	2	\$176	34	\$5,776	\$170
Prepare for/Attend 1 Progress Meeting and 1 TRT meeting (Write Minutes)		\$0	4	\$908	4	\$724	4	\$572	4	\$588	4	\$396	4	\$352	24	\$3,540	\$148
Sub-Total Design Development (50%)	72	\$12,600	298	\$67,646	448	\$81,086	535	\$76,505	64	\$9,408	1250	\$123,750	120	\$10,560	2787	\$381,557	\$137

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES**

Taxiways G & H Rehabilitation and Related Work

Position:	QA/QC		SENIOR PROJECT MANAGER		SENIOR ENGINEER		PROJECT ENGINEER		SENIOR PLANNER		SENIOR CADD DESIGNER		PROJECT MANAGER ASSISTANT		TOTAL			
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Avg. Hourly Rate	
AECOM																		
Construction Documents (90%)																		
Develop Drawings (Two Bid Packages)																		
COVER		\$0		\$0		\$0		\$0		\$0	1	\$99		\$0	1	\$99	\$99	
PROJECT DRAWING LIST		\$0		\$0	1	\$181	1	\$143		\$0	4	\$396		\$0	6	\$720	\$120	
SUMMARY OF QUANTITIES		\$0		\$0	7	\$362	2	\$286		\$0	6	\$594		\$0	10	\$1,242	\$124	
GENERAL NOTES		\$0		\$0	2	\$302	2	\$286		\$0	6	\$594		\$0	10	\$1,242	\$124	
OVERALL PROJECT LAYOUT PLAN		\$0	2	\$454	4	\$724	4	\$572		\$0	16	\$1,584		\$0	26	\$3,334	\$128	
PROJECT CONSTRUCTION HAUL ROUTE AND NOTES		\$0	2	\$454	12	\$2,172	12	\$1,716		\$0	32	\$3,168		\$0	58	\$7,510	\$129	
PROJECT LAYOUT AND SURVEY CONTROL PLAN		\$0	2	\$454	4	\$724	4	\$572		\$0	16	\$1,584		\$0	26	\$3,334	\$128	
BORING/CORING LOCATION PLAN		\$0	1	\$227	2	\$362	2	\$286		\$0	12	\$1,188		\$0	17	\$2,063	\$121	
BORING/CORING LOGS		\$0	1	\$227	2	\$362	2	\$286		\$0	8	\$792		\$0	13	\$1,667	\$128	
SHEET LAYOUT PLAN		\$0	1	\$227	2	\$362	2	\$286		\$0	12	\$1,188		\$0	17	\$2,063	\$121	
EXISTING CONDITIONS PLANS (14 SHEETS)		\$0	2	\$454	12	\$2,172	16	\$2,288		\$0	60	\$5,940		\$0	80	\$10,854	\$121	
DEMOLITION PLANS (14 SHEETS)		\$0	10	\$2,270	16	\$2,896	20	\$2,860		\$0	62	\$6,138		\$0	108	\$14,164	\$131	
GEOMETRY PLANS (14 SHEETS)		\$0	10	\$2,270	15	\$2,715	20	\$2,860	50	\$7,350	60	\$5,940		\$0	155	\$21,135	\$136	
PAVEMENT PLANS (14 SHEETS)		\$0	10	\$2,270	15	\$2,715	20	\$2,860		\$0	64	\$6,336		\$0	108	\$14,181	\$130	
TYPICAL DEMOLITION SECTIONS (3 SHEETS)		\$0	10	\$2,270	15	\$2,715	20	\$2,860		\$0	60	\$5,940		\$0	105	\$13,785	\$131	
TYPICAL PAVEMENT SECTIONS (3 SHEETS)		\$0	10	\$2,270	15	\$2,715	20	\$2,860		\$0	56	\$5,544		\$0	101	\$13,389	\$133	
GRADING PLANS PAVEMENT (14 SHEETS)		\$0	2	\$454	15	\$2,715	50	\$7,150		\$0	50	\$4,950		\$0	117	\$15,269	\$131	
OVERALL PHASING PLANS		\$0	2	\$454	24	\$4,344	16	\$2,288		\$0	60	\$5,940		\$0	102	\$13,026	\$128	
BARRICADE LOCATION PLANS (14 SHEETS)		\$0	8	\$1,816	15	\$2,715	20	\$2,860		\$0	60	\$5,940		\$0	103	\$13,331	\$129	
SAFETY AND SECURITY PLAN AND NOTES		\$0	1	\$227	5	\$905	2	\$286		\$0	5	\$495		\$0	13	\$1,913	\$147	
SAFETY AND SECURITY DETAILS		\$0	2	\$454	10	\$1,810	5	\$715		\$0	10	\$990		\$0	27	\$3,969	\$147	
PAVEMENT PROFILES (8 SHEETS)		\$0	2	\$454	10	\$1,810	5	\$715		\$0	60	\$5,940		\$0	77	\$8,919	\$110	
PAVEMENT ELEVATION PLANS (14 SHEETS)		\$0	4	\$908	10	\$1,810	20	\$2,860		\$0	80	\$7,920		\$0	114	\$13,498	\$118	
CROSS SECTIONS (40 TW SHEETS)		\$0	4	\$908	10	\$1,810	20	\$2,860		\$0	100	\$9,900		\$0	134	\$15,478	\$116	
Team Meetings		\$0	16	\$3,632	16	\$2,896	16	\$2,288		\$0	20	\$1,980		\$0	68	\$10,796	\$159	
Develop Construction Cost Estimate/Quantities		\$0	12	\$2,724	20	\$3,620	40	\$5,720		\$0	40	\$3,960		\$0	112	\$16,024	\$143	
Develop Pavement Design		\$0	13	\$2,270	10	\$1,810	20	\$2,860		\$0		\$0		\$0	40	\$6,940	\$174	
Develop CSPP		\$0	10	\$2,270	10	\$1,810	20	\$2,860		\$0		\$0		\$0	40	\$6,940	\$174	
Develop Specifications and Modify Division 1. Review Front End		\$0	20	\$4,540	40	\$7,240	60	\$8,580		\$0		\$0		\$0	120	\$20,360	\$170	
Develop Drainage Design (Oversight - PEGASUS)		\$0	8	\$1,816	8	\$1,448		\$0		\$0		\$0	4	\$352	20	\$3,616	\$181	
Permitting (Oversight- PEGASUS)		\$0	5	\$1,135	5	\$905		\$0		\$0		\$0	4	\$352	14	\$2,392	\$171	
Develop Lighting Signage Electrical and NAVAIDS (Oversight - AVCON)		\$0	6	\$1,362	6	\$1,086		\$0		\$0		\$0	4	\$352	16	\$2,800	\$175	
Develop Utility Plans and Details (Oversight - PEGASUS)		\$0	8	\$1,816	8	\$1,448		\$0		\$0		\$0	4	\$352	20	\$3,616	\$181	
Develop Pavement Marking Plans and Details (Oversight - CERM)		\$0	8	\$1,816	8	\$1,448		\$0		\$0		\$0	4	\$352	20	\$3,616	\$181	
Incorporate 50% Review Comments		\$0	4	\$908	24	\$4,344	24	\$3,432		\$0	40	\$3,960	4	\$352	86	\$12,996	\$136	
Develop Engineers Report		\$0	10	\$2,270	24	\$4,344	40	\$5,720		\$0	20	\$1,980	4	\$352	98	\$14,666	\$150	
Project Management		\$0	40	\$9,080		\$0		\$0		\$0		\$0	40	\$3,520	80	\$12,600	\$158	
QA/QC Review of 95% Documents - Incorporate Comments	50	\$8,750	4	\$908	20	\$3,620	20	\$2,860		\$0	80	\$7,920	2	\$176	176	\$24,234	\$138	
Submit 90% Documents		\$0	10	\$2,270	10	\$1,810	10	\$1,430		\$0	20	\$1,980	4	\$352	54	\$7,942	\$145	
Provide Written response to 90% comments		\$0	4	\$908	10	\$1,810	10	\$1,430		\$0		\$0		\$0	24	\$4,148	\$173	
Prepare for/Attend 1 Progress Meeting and 1 TRT meeting (Write Minutes)		\$0	4	\$908	4	\$724	4	\$572	2	\$294	4	\$396		\$0	18	\$2,894	\$161	
Sub-Total Construction Documents (90%)	50	\$8,750	265	\$60,155	441	\$79,821	549	\$78,507	52	\$7,844	1124	\$111,276	74	\$6,512	2,566	\$352,665	\$138	

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES**

Taxiways G & H Rehabilitation and Related Work																	
Position:	QA/QC		SENIOR PROJECT MANAGER		SENIOR ENGINEER		PROJECT ENGINEER		SENIOR PLANNER		SENIOR CADD DESIGNER		PROJECT MANAGER ASSISTANT		TOTAL		
Rate (\$/hour):	\$175		\$227		\$181		\$143		\$147		\$99		\$88		labor hours	Cost	Avg. Hourly Rate
AECOM	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Rate
Construction Documents (100%)																	
Develop Drawings (Two Bid Packages)																	
COVER		\$0		\$0		\$0		\$0		\$0	1	\$99		\$0	1	\$99	\$99
PROJECT DRAWING LIST		\$0		\$0	1	\$181	1	\$143		\$0	4	\$396		\$0	6	\$720	\$120
SUMMARY OF QUANTITIES		\$0		\$0	2	\$362	2	\$286		\$0	6	\$594		\$0	10	\$1,742	\$174
GENERAL NOTES		\$0		\$0	2	\$362	2	\$286		\$0	6	\$594		\$0	10	\$1,242	\$124
OVERALL PROJECT LAYOUT PLAN		\$0	2	\$454	4	\$724	4	\$572		\$0	16	\$1,584		\$0	26	\$3,334	\$128
PROJECT CONSTRUCTION H-AUL ROUTE AND NOTES		\$0	2	\$454	8	\$1,448	8	\$1,144		\$0	18	\$1,782		\$0	36	\$4,828	\$134
PROJECT LAYOUT AND SURVEY CONTROL PLAN		\$0	2	\$454	4	\$724	4	\$572		\$0	12	\$1,188		\$0	22	\$2,938	\$134
BORING/CORING LOCATION PLAN		\$0	1	\$227	2	\$362	2	\$286		\$0	8	\$792		\$0	13	\$1,567	\$128
BORING/CORING LOGS		\$0	1	\$227	2	\$362	2	\$286		\$0	8	\$792		\$0	13	\$1,697	\$128
SHEET LAYOUT PLAN		\$0	1	\$227	2	\$362	2	\$286		\$0	8	\$792		\$0	13	\$1,697	\$128
EXISTING CONDITIONS PLANS (14 SHEETS)		\$0	2	\$454	8	\$1,448	12	\$1,716		\$0	40	\$3,960		\$0	62	\$7,578	\$122
DEMOLITION PLANS (14 SHEETS)		\$0	8	\$1,362	16	\$2,896	18	\$2,574		\$0	62	\$6,138		\$0	102	\$12,970	\$127
GEOMETRY PLANS (14 SHEETS)		\$0	6	\$1,362	10	\$1,810	20	\$2,860	80	\$11,760	50	\$4,950		\$0	166	\$22,742	\$137
PAVEMENT PLANS (14 SHEETS)		\$0	6	\$1,362	10	\$1,810	20	\$2,860		\$0	60	\$5,940		\$0	96	\$11,972	\$125
TYPICAL DEMOLITION SECTIONS (3 SHEETS)		\$0	8	\$1,816	10	\$1,810	32	\$4,576		\$0	40	\$3,960		\$0	90	\$12,162	\$135
TYPICAL PAVEMENT SECTIONS (3 SHEETS)		\$0	8	\$1,816	10	\$1,810	32	\$4,576		\$0	45	\$4,455		\$0	95	\$12,557	\$133
GRADING PLANS PAVEMENT (14 SHEETS)		\$0	2	\$454	8	\$1,448	20	\$2,860		\$0	60	\$5,940		\$0	80	\$10,702	\$119
OVERALL PHASING PLANS		\$0	2	\$454	10	\$1,810	10	\$1,430		\$0	60	\$5,940		\$0	82	\$9,634	\$117
BARRICADE LOCATION PLANS (14 SHEETS)		\$0	8	\$1,816	10	\$1,810	20	\$2,860		\$0	60	\$5,940		\$0	118	\$14,426	\$122
SAFETY AND SECURITY PLAN AND NOTES		\$0	1	\$227	2	\$362	2	\$286		\$0	4	\$396		\$0	9	\$1,271	\$141
SAFETY AND SECURITY DETAILS		\$0	2	\$454	5	\$905	5	\$715		\$0	8	\$792		\$0	20	\$2,868	\$143
PAVEMENT PROFILES (8 SHEETS)		\$0	2	\$454	5	\$905	5	\$715		\$0	30	\$2,970		\$0	42	\$5,044	\$120
PAVEMENT ELEVATION PLANS (14 SHEETS)		\$0	4	\$908	10	\$1,810	10	\$1,430		\$0	60	\$5,940		\$0	84	\$10,088	\$120
CROSS SECTIONS (40 TW SHEETS)		\$0	4	\$908	10	\$1,810	10	\$1,430		\$0	60	\$5,940		\$0	84	\$10,088	\$120
Team Meetings		\$0	16	\$3,832	12	\$2,172	12	\$1,716		\$0	12	\$1,188		\$0	52	\$8,708	\$167
Develop Construction Cost Estimate/Quantities		\$0	12	\$2,724	20	\$3,620	40	\$5,720		\$0	40	\$3,960		\$0	112	\$16,024	\$143
Develop CSPP		\$0	8	\$1,816	8	\$1,448	16	\$2,288		\$0		\$0		\$0	32	\$5,552	\$174
Develop Specifications and Modify Division 1. Review Front End		\$0	8	\$1,816	8	\$1,448	16	\$2,288		\$0		\$0		\$0	32	\$5,552	\$174
Develop Drainage Design (Oversight - PEGASUS)		\$0	8	\$1,816	12	\$2,172	12	\$1,716		\$0	16	\$1,584		\$0	48	\$7,288	\$152
Permitting (Oversight - PEGASUS)		\$0	6	\$1,362	6	\$1,086		\$0		\$0		\$0	10	\$880	22	\$3,328	\$151
Develop Lighting Signage Electrical and NAVAIDS (Oversight - AVCON)		\$0	6	\$1,362	6	\$1,086		\$0		\$0	32	\$3,168	10	\$880	54	\$6,496	\$120
Develop Drainage Plans and Details (Oversight - PEGASUS)		\$0	12	\$2,724		\$0		\$0		\$0		\$0	10	\$880	22	\$3,904	\$164
Develop Pavement Marking Plans and Details (Oversight - CERM)		\$0	12	\$2,724		\$0		\$0		\$0		\$0	10	\$880	22	\$3,604	\$164
Incorporate 95% Review Comments		\$0	8	\$1,816	8	\$1,448	8	\$1,144		\$0	8	\$792	10	\$880	42	\$6,080	\$145
Final Engineers Report		\$0	4	\$908	8	\$1,448	8	\$1,144		\$0	20	\$1,880	4	\$352	44	\$5,832	\$133
Project Management		\$0	20	\$4,540	16	\$2,896	8	\$1,144		\$0		\$0	4	\$352	48	\$8,932	\$186
Separate Meeting Authority/FAA/ATCT Prepare Agenda and Meeting Minutes		\$0	8	\$1,816	8	\$1,448		\$0		\$0		\$0	40	\$3,520	56	\$6,784	\$121
QA/QC Review of 100% Documents - Incorporate Comments	50	\$8,750	4	\$908	20	\$3,620	20	\$2,860		\$0	60	\$5,940	2	\$176	156	\$22,254	\$143
Submit 100% Documents		\$0	8	\$1,816	8	\$1,448	8	\$1,144		\$0	20	\$1,880	4	\$352	48	\$6,740	\$140
Provide Written response to 100% comments		\$0	4	\$908	8	\$1,448	8	\$1,144		\$0		\$0		\$0	20	\$3,500	\$175
Prepare for/Attend 1 Progress Meeting and 1 TRT meeting (Write Minutes)		\$0	4	\$908	4	\$724	4	\$572	2	\$294	4	\$396		\$0	18	\$2,894	\$161
Sub-Total Construction Documents (100%)	50	\$8,750	218	\$49,486	303	\$54,843	403	\$57,629	82	\$12,054	958	\$94,842	104	\$9,152	2,118	\$286,756	\$136
TOTAL LUMP SUM FEE:	219	\$38,325	853	\$193,631	1322	\$239,282	1619	\$231,517	372	\$54,684	3528	\$349,272	328	\$28,864	8,241	\$1,135,575	\$138

NOTES:

1. A separate spreadsheet is required for each consultant/subconsultant with any portion of it's services to be compensated on a lump sum basis.
2. Each spreadsheet to be customized to accurately indicate the actual services to be provided for each phase of the Project.

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES

Taxiways G & H Rehabilitation and Related Work

Position:	QC REVIEWER		PROJECT MANAGER		SENIOR ENGINEER		PROJECT ENGINEER/DESIGNER		SENIOR CADD DESIGNER		CONTRACT ADMINISTRATOR		TOTAL			
	\$244		\$165		\$142		\$108		\$100		\$91		labor hours	Cost	Avg. Hourly Rate	
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost				
Preliminary Design																
Project Information/Coordination	8	\$1,952	8	\$1,460	8	\$1,136	8	\$864	8	\$800	8	\$728	48	\$6,960	\$145	
Review of Record Drawings & Documents		\$0	8	\$1,460	10	\$2,272	40	\$4,320	20	\$2,000	16	\$1,456	103	\$11,528	\$115	
Verification of Existing Conditions		\$0	16	\$2,920	32	\$4,544	40	\$4,320	20	\$2,000		\$0	108	\$13,824	\$128	
General Coordination - Schedules, Project Access etc.		\$0	4	\$740	8	\$1,136	16	\$1,728		\$0	8	\$728	36	\$4,332	\$123	
FAA Coordination		\$0	4	\$740	4	\$568		\$0		\$0		\$0	8	\$1,308	\$164	
Preliminary Cost Estimate (Electrical)		\$0	8	\$1,460	16	\$2,272	32	\$3,456		\$0	8	\$728	64	\$7,936	\$124	
Preliminary Engineering Report (Electrical Section)		\$0	4	\$740	8	\$1,136	16	\$1,728		\$0	16	\$1,456	44	\$5,060	\$115	
Project Coordination Meetings and Reporting		\$0	8	\$1,460	8	\$1,136	8	\$864		\$0	8	\$728	32	\$4,200	\$131	
Sub-Total Preliminary Design	8	\$1,952	60	\$11,100	103	\$14,200	160	\$17,280	48	\$4,800	64	\$5,824	440	\$55,156	\$125	
Design Development (50%)																
Develop Drawings		\$0		\$0	109	\$2,886	300	\$32,400	752	\$7,520		\$0	1,211	\$131,455	\$108	
Develop Specifications		\$0	8	\$1,460	8	\$1,136	66	\$10,368		\$0	58	\$5,278	170	\$18,262	\$107	
Request Deviations from FAA/FDOT Design Standards		\$0	4	\$740	10	\$2,272	12	\$1,256		\$0	8	\$728	40	\$5,036	\$126	
Prepare/Update Cost Estimates (Electrical)		\$0	4	\$740	8	\$1,136	40	\$4,320	16	\$1,600		\$0	68	\$7,786	\$115	
MOI Preparation & Coordination		\$0	4	\$740	8	\$1,136	12	\$1,256		\$0		\$0	24	\$3,172	\$132	
Prepare Engineer's Report (Electrical Portion)	2	\$488	8	\$1,460	12	\$1,704	24	\$2,562		\$0	4	\$364	50	\$6,628	\$133	
Attend Project Coordination meetings and Reporting		\$0	8	\$1,460	12	\$1,704	12	\$1,256		\$0		\$0	32	\$4,460	\$140	
Conduct in-house QA/QC of deliverables	8	\$1,952	24	\$4,440	16	\$2,272		\$0		\$0		\$0	48	\$8,664	\$181	
TRT Meeting		\$0	4	\$740		\$0	4	\$432		\$0		\$0	8	\$1,172	\$147	
Respond to TRT comments in writing		\$0	8	\$1,460	8	\$1,136	8	\$864	8	\$800	16	\$1,456	48	\$5,736	\$120	
Sub-Total Design Development (50%)	10	\$2,440	72	\$13,320	296	\$36,352	506	\$54,884	776	\$77,800	86	\$7,828	1708	\$192,402	\$113	
Construction Documents (90%)																
Complete Drawings		\$0		\$0	110	\$15,620	700	\$21,600	480	\$48,000		\$0	730	\$85,220	\$108	
Complete Specifications (Electrical)		\$0	4	\$740	4	\$568	48	\$5,184		\$0	44	\$4,004	100	\$10,488	\$105	
Finalize Engineering Calculations (Load Cases, Voltage drop, etc.)		\$0	4	\$740	6	\$852	24	\$2,502		\$0		\$0	34	\$4,164	\$123	
Finalize Schedule of Submittals		\$0	4	\$740	4	\$568	12	\$1,256		\$0	4	\$364	24	\$2,968	\$124	
Finalize Cost Estimates (Electrical)		\$0	8	\$1,460	16	\$2,272	12	\$1,256	8	\$800		\$0	34	\$4,008	\$124	
Finalize Engineer's Report (Electrical)	2	\$488	4	\$740	8	\$1,136	12	\$1,256		\$0		\$0	26	\$3,680	\$141	
Attend Project Coordination meetings and Reporting		\$0	4	\$740	4	\$568	8	\$864		\$0		\$0	16	\$2,172	\$134	
Conduct in-house QA/QC of deliverables	8	\$1,952	16	\$2,960	24	\$3,408		\$0		\$0		\$0	48	\$8,320	\$173	
TRT Meeting		\$0	8	\$1,460	9	\$1,136	8	\$864		\$0		\$0	24	\$2,460	\$145	
Respond to TRT comments in writing		\$0	8	\$1,460	12	\$1,704	12	\$1,256		\$0	8	\$728	40	\$5,200	\$130	
Sub-Total Construction Documents (90%)	10	\$2,440	60	\$11,100	196	\$27,632	386	\$38,448	488	\$48,800	56	\$5,088	1,166	\$133,718	\$115	
100% Documents																
Finalize Drawings and Specifications		\$0		\$0	40	\$5,680	120	\$12,960	320	\$32,000	24	\$2,184	504	\$52,824	\$105	
Conduct in-house QA/QC of deliverables	8	\$1,952	16	\$2,960	24	\$3,408		\$0		\$0		\$0	48	\$8,320	\$173	
Respond to TRT Comments in writing		\$0	8	\$1,460	8	\$1,136		\$0		\$0	8	\$728	24	\$3,344	\$139	
Sub-Total 100% Documents	8	\$1,952.00	24	\$4,440.00	72	\$10,224	120	\$12,960.00	320	\$32,000.00	32	\$2,912.00	576	\$64,408.00	\$112	
Bidding and Award (NOT IN SCOPE)																
Construction Administration (NOT IN SCOPE)																
Closeout (NOT IN SCOPE)																
TOTAL LUMP SUM FEE:	36	\$ 8,744	216	\$ 39,960	624	\$ 88,608	1144	\$ 123,552	1632	\$ 163,200	236	\$ 21,658	3890	\$ 445,762	\$115	

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES
Taxiways G & H Rehabilitation and Related Work

Position:	PROJECT MANAGER		SR. ENGINEER		CADD TECHNICIAN		ADMINISTRATIVE ASSISTANT		TOTAL		
	\$173.00		\$159.00		\$91.00		\$74.00				Avg. Hourly
Rate (\$/Hour):	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Rate
PEGASUS ENGINEERING, LLC											
Design Development (50%)											
COORDINATE WITH AECOM/SURVEY REGARDING SURVEY AND GRADING		\$0	12	\$1,908	6	\$546		\$0	18	\$2,454	\$136
PREPARE AND CONDUCT FIELD REVIEWS	24	\$4,152	24	\$3,816	6	\$546		\$0	54	\$8,514	\$158
DOCUMENT SITE INSPECTIONS	8	\$1,384	20	\$3,180		\$0	12	\$888	40	\$5,452	\$136
PREPARE AND CONDUCT PRE-APP MEETING WITH SFWMD	4	\$692	6	\$954	4	\$364		\$0	14	\$2,010	\$144
REVIEW GRADES WITH RESPECT TO RSA/TSA GRADING CRITERIA		\$0	20	\$3,180		\$0		\$0	20	\$3,180	\$159
ATTEND TWO MISC. COORDINATION MEETINGS	8	\$1,384	12	\$1,908		\$0		\$0	20	\$3,292	\$165
PROJECT ADMIN AND IN-HOUSE REVIEW OF ALL WORK PRODUCTS	40	\$6,920	16	\$2,544		\$0	16	\$1,184	72	\$10,648	\$148
ATTEND A PRE-DESIGN MEETING WITH GOAA/AECOM	4	\$692	6	\$954		\$0		\$0	10	\$1,646	\$165
PREPARE HYDROLOGY & HYDRAULICS CALCULATIONS FOR STRUCTURE MODIFICATIONS		\$0	48	\$7,532	24	\$2,184		\$0	72	\$9,816	\$136
PREPARE 50% DRAINAGE PLANS AND DETAILS		\$0	160	\$25,440	40	\$3,640		\$0	200	\$29,080	\$145
PREPARE 50% EROSION CONTROL PLANS AND DETAILS		\$0	32	\$5,088	8	\$728		\$0	40	\$5,816	\$145
PREPARE 50% PIPE REPAIR DETAILS	2	\$346	6	\$954	12	\$1,092		\$0	20	\$2,392	\$120
PREPARE 50% CONSTRUCTION COST ESTIMATE	2	\$346	12	\$1,908	4	\$364		\$0	18	\$2,618	\$145
Sub-Total Design Development (50%)	92	\$15,916	374	\$59,466	104	\$9,464	28	\$2,072	598	\$86,918	\$145
Construction Documents (90%)											
ATTEND 90% DESIGN REVIEW MEETING	4	\$692	6	\$954		\$0		\$0	10	\$1,646	\$165
PREPARE A DRAINAGE SUMMARY FOR THE ERP APPLICATION	4	\$692	32	\$5,088	12	\$1,092	12	\$888	60	\$7,760	\$129
PREPARE AND SUBMIT THE ERP APPLICATION TO SFWMD	4	\$692	24	\$3,816	4	\$364	8	\$592	40	\$5,464	\$137
PREPARE 90% DRAINAGE PLANS AND DETAILS		\$0	120	\$19,080	16	\$1,456		\$0	136	\$20,536	\$151
PREPARE 90% EROSION CONTROL PLANS AND DETAILS		\$0	24	\$3,816	4	\$364		\$0	28	\$4,180	\$149
PREPARE 90% PIPE REPAIR DETAILS	2	\$346	6	\$954	12	\$1,092		\$0	20	\$2,392	\$120
PREPARE TECHNICAL SPECIFICATIONS	2	\$346	24	\$3,816		\$0	12	\$888	38	\$5,050	\$133
PREPARE ENGINEER'S CONSTRUCTION ESTIMATE	2	\$346	12	\$1,908	2	\$182		\$0	16	\$2,436	\$152
Sub-Total Construction Documents (90%)	18	\$3,114	248	\$39,432	50	\$4,550	32	\$2,368	348	\$49,464	\$142
Construction Documents (100%)											
ATTEND 100% DESIGN REVIEW MEETING	4	\$692	6	\$954		\$0		\$0	10	\$1,646	\$165
PREPARE 100%/BID DOCUMENTS	8	\$1,384	96	\$15,264	16	\$1,456	4	\$296	124	\$18,400	\$148
Sub-Total Construction Documents (100%)	12	\$2,076	102	\$16,218	16	\$1,456	4	\$296	134	\$20,046	\$150
Bidding (NOT IN SCOPE)											
Closeout											
Prepare Record Drawings/Documents (NOT IN SCOPE)											
TOTAL LUMP SUM FEE:	122	\$21,106	724	\$115,116	170	\$15,470	64	\$4,736	1080	\$156,426	\$145

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES

Taxiways G & H Rehabilitation and Related Work

Position:	SENIOR PROJECT MANAGER		SENIOR ENGINEER		CADD Technician		Clerical		TOTAL		
	\$150.00		\$151.00		\$78.00		\$59.00		labor hours	Cost	Avg. Hourly Rate
Rate (\$/Hour):	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Avg. Hourly Rate
CERM											
Project Management											
Project Administration	12	\$1,800		\$0		\$0	24	\$1,416	36	\$3,216	\$89
Quality Control and Scheduling	8	\$1,200		\$0		\$0		\$0	8	\$1,200	\$150
Site Visits, Meetings, and Coordination	24	\$3,600		\$0		\$0		\$0	24	\$3,600	\$150
Sub-Total Project Management	44	\$6,600	0	\$0	0	\$0	24	\$1,416	68	\$8,016	\$118
Design Development (50%)											
Pavement Marking Sheets		\$0	61	\$9,211	60	\$4,680		\$0	121	\$13,891	\$115
Pavement Marking Details		\$0	8	\$1,208	8	\$624		\$0	16	\$1,832	\$115
Engineer's Report		\$0	8	\$1,208		\$0		\$0	8	\$1,208	\$0
Specifications		\$0	2	\$302		\$0		\$0	2	\$302	\$151
Quantities and Cost Estimate		\$0	14	\$2,114	14	\$1,092		\$0	28	\$3,206	\$115
QA-QC	4	\$600		\$0		\$0		\$0	4	\$600	\$150
Sub-Total Design Development (50%)	4	\$600	93	\$14,043	82	\$6,396	0	\$0	179	\$21,039	\$118
Construction Documents (90%)											
Pavement Marking Sheets		\$0	40	\$6,040	40	\$3,120		\$0	80	\$9,160	\$115
Pavement Marking Details		\$0	8	\$1,208	8	\$624		\$0	16	\$1,832	\$115
Specifications		\$0	2	\$302		\$0		\$0	2	\$302	\$151
Quantities and Cost Estimate		\$0	8	\$1,208	8	\$624		\$0	16	\$1,832	\$115
QA-QC	4	\$600		\$0		\$0		\$0	4	\$600	\$150
Sub-Total Construction Documents (90%)	4	\$600	58	\$8,756	56	\$4,368	0	\$0	118	\$13,726	\$116
100% Documents/Bid Documents											
Pavement Marking Sheets		\$0	40	\$6,040	40	\$3,120		\$0	80	\$9,160	\$115
Pavement Marking Details		\$0	4	\$604	4	\$312		\$0	8	\$916	\$115
Specifications		\$0	2	\$302		\$0		\$0	2	\$302	\$151
Quantities and Cost Estimate		\$0	8	\$1,208	8	\$624		\$0	16	\$1,832	\$115
QA-QC	4	\$600		\$0		\$0		\$0	4	\$600	\$150
Sub-Total 100%/Bid Documents	4	\$600	54	\$8,154	52	\$4,056	0	\$0	110	\$12,810	\$116
Bidding and Award (NOT IN SCOPE)											
Construction Administration (NOT IN SCOPE)											
Closeout (NOT IN SCOPE)											
TOTAL LUMP SUM FEE:	56	\$ 8,400	206	\$ 30,855	190	\$ 14,820	24	\$ 1,416	475	\$ 55,591	\$117

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF LUMP SUM FEES**

Taxiways G & H Rehabilitation and Related Work

Position:	SENIOR DESIGNER		PROJECT MANAGER		MODELING LEAD		TOTAL			
	\$286.91		\$216.00		\$124.00		labor hours	Cost	Avg. Hourly Rate	
Rate (\$/Hour):	labor hours	Cost	labor hours	Cost	labor hours	Cost				
TransSolutions, LLC										
Simulation Modeling Analysis										
Assumptions	20	\$5,738	58	\$12,528	24	\$2,076	102	\$21,242	\$208	
Baseline Simulation Runs	4	\$1,148	24	\$5,184	40	\$4,960	68	\$11,292	\$166	
Simulate Option 1	2	\$574	8	\$1,728	32	\$3,968	42	\$6,270	\$149	
Simulate Option 2	2	\$574	4	\$864	24	\$2,976	30	\$4,414	\$147	
Simulate Option 3	2	\$574	4	\$864	24	\$2,976	30	\$4,414	\$147	
Draft Report	8	\$2,295	22	\$4,752	8	\$992	38	\$8,039	\$212	
Final Report	9	\$2,582	15	\$3,240	6	\$744	30	\$6,566	\$219	
Sub-Total Simulation Modeling Analysis	47	\$13,485	135	\$29,160	158	\$19,592	340	\$62,237	\$183	
TOTAL LUMP SUM FEE:	47	\$ 13,485	135	\$ 29,160	158	\$ 19,592	340	\$62,237	\$183	

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-4
SUMMARY OF NOT TO EXCEED REIMBURSABLE FEES AND EXPENSES
Taxiways G & H Rehabilitation and Related Work

Phase of Project	Preliminary Design		Development (50%)		Const. Docs. (90%)		Const. Docs. (100%)		TOTAL		
	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Cost	Avg. Rate
AECOM											
Not to Exceed Reimbursable Fee	0	\$0	0	\$0	0	\$0	0	\$0	0	0	\$0.00
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0	
Sub-Total AECOM	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0.00
Avcon Inc.											
Not to Exceed Reimbursable Fee	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0.00
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0	
Sub-Total Avcon	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0.00
Pegasus											
Not to Exceed Reimbursable Fee		\$0	0		0	\$0	0	\$0	0	\$0	\$0.00
Not to Exceed Reimbursable Expenses		\$0								\$0	
Sub-Total Pegasus	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0.00
Echo											
Not to Exceed Reimbursable Fee	0	\$0	729	101,938	0	\$0	0	\$0	729	\$101,938	\$0.00
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0	
Sub-Total Echo	0	\$0	729	\$101,938	0	\$0	0	\$0	729	\$101,938	\$139.83
Cal-Tech											
Not to Exceed Reimbursable Fee	0	\$0	57	7,283	0	\$0	0	\$0	57	\$7,283	\$0.00
Not to Exceed Reimbursable Expenses		\$0		\$14,495		\$0		\$0		\$14,495	
Sub-Total SubConsultant Cal-Tech	0	\$0	57	\$21,778	0	\$0	0	\$0	57	\$21,778	\$127.77
CERM											
Not to Exceed Reimbursable Fee	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0.00
Not to Exceed Reimbursable Expenses										\$0	
Sub-Total Subconsultant CERM	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0.00
Total Not to Exceed Amount:	0	\$0	786	\$123,716	0	\$0	0	\$0	786	\$123,716	\$139.83

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-5
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE FEES**

Taxiways G & H Rehabilitation and Related Work

Position:	PROJECT MANAGER		Sr. CADD DRAFTSMAN		3 PERSON SURVEY CREW		ADMIN ASSISTANT		TOTAL		
	\$171		\$90		\$185		\$69				Avg. Hourly
Rate (\$/Hour):	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Rate
ECHO UES, INC.											
Survey Services											
Recover existing an set up new horizontal and vertical control	10	\$1,710	25	\$2,250	50	\$9,250	15	\$1,035	100	\$14,245	\$142
Topographic Survey and AutoCAD File Preparation	52	\$8,892	255	\$22,950	255	\$47,175	26	\$1,794	588	\$80,811	\$137
GPR Locates for Geotech	5	\$855	3	\$270	30	\$5,550	3	\$207	41	\$6,882	\$168
NTE CA Services - Subtotal	67	\$11,457	283	\$25,470	335	\$61,975	44	\$3,036	729	\$101,938	\$140
Total NTE Fee for Survey Services:	67	\$11,457	283	\$25,470	335	\$61,975	44	\$ 3,036	729	\$ 101,938	\$140

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-5
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE FEES**

Taxiways G & H Rehabilitation and Related Work

Position:	SR. PROJECT MANAGER		SR. ENGINEER		CONTRACT ADMINISTRATOR		TOTAL		
	\$154		\$127		\$71				Avg. Hourly
Rate (\$/Hour):	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	Rate
CAL-TECH TESTING, INC.									
Geotechnical Services									
Engineering Analysis & Design/Report Preparation	12	\$1,848	40	\$5,080	5	\$355	57	\$7,283	\$128
NTE Services - Subtotal	12	\$1,848	40	\$5,080	5	\$355	57	\$7,283	\$128
Total NTE Fee for Geotechnical Services:	12	\$1,848	40	\$ 5,080	5	355	57	\$ 7,283	\$128

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-6
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE EXPENSES
Taxiways G & H Rehabilitation and Related Work

REIMBURSABLE EXPENSES

A complete breakdown of estimated reimbursable expenses, if any, which will be compensated on a not to exceed reimbursable basis, shall be included in this section. The Consultant may use any format for this breakdown, provided that it clearly defines the basis for the not to exceed amount. A breakdown of each subconsultant's expenses is also required.

AECOM	50%	90%	100%	Total
Printing				\$0.00
Express Mailings, fax, couriers, mail				\$0.00
Permitting Fee				\$0.00
Total (AECOM)	\$0.00	\$0.00	\$0.00	\$0
Total Avcon	\$0.00	\$0.00	\$0.00	\$0
Total Cal-Tech	\$14,495.00	\$0.00	\$0.00	\$14,495
CERM	\$0.00	\$0.00	\$0.00	\$0
Total Echo	\$0.00	\$0.00	\$0.00	\$0
TOTAL REIMBURSABLE EXPENSES	\$14,495.00	\$0.00	\$0.00	\$14,495

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-6
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE EXPENSES**

Taxiways G & H Rehabilitation and Related Work

REIMBURSABLE EXPENSES

Cal-Tech

A complete breakdown of estimated reimbursable expenses, if any, which will be compensated on a not to exceed reimbursable basis, shall be included in this section. The Consultant may use any format for this breakdown, provided that it clearly defines the basis for the not to exceed amount. A breakdown of each subconsultant's expenses is also required.

CAL-TECH	Rate	Units	Quantities	Fees
Geotechnical Field Testing				
Drill Rig Mobilization	\$600.00	LS	1	\$ 600.00
Coring Crew Mobilization	\$300.00	LS	1	\$ 300.00
SPT Borings (20 to 10 ft each)	\$13.00	feet	200	\$ 2,600.00
Coring Crew - 1 Day Per Diem	\$175.00	each	3	\$ 525.00
Drill Crew - 1 Day Per Diem	\$175.00	each	2	\$ 350.00
Grout Boreholes	\$3.75	feet	56	\$ 210.00
Concrete Cores	\$100.00	hr	16	\$ 1,600.00
Asphalt Core	\$100.00	hr	36	\$ 3,600.00
CAAD/gINT	\$65.00	hour	4	\$ 260.00
		Subtotal Field :		\$ 10,045.00
Geotechnical Laboratory Testing				
Grain Size Analysis, Full Gradation	\$50.00	each	20	\$ 1,000.00
Atterberg Limits	\$100.00	each	6	\$ 600.00
Organic Content	\$75.00	each	6	\$ 450.00
CBR Tests	\$400.00	each	6	\$ 2,400.00
		Subtotal Lab :		\$ 4,450.00
TOTAL REIMBURSABLE EXPENSES				\$ 14,495.00

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-7a, C-7b and C-7c
PARTICIPATION SCHEDULES
Taxiways G & H Rehabilitation and Related Work
TABLE C-7a DBE PARTICIPATION SCHEDULE

NAME OF SUBCONSULTANT	ADDRESS	PROPOSED SCOPE OF SERVICES	FEE	PROPOSED PARTICIPATION
Pegasus	301 West State Road 434, Suite 309, Winter Springs, FL 32708	Drainage/Permitting	\$ 156,428	7.9%
Echo	400 SR 434, Suite 1016, Oveido, FL 32765	Survey/SUE	\$ 101,938	5.2%
CERM	4767 New Broad Street, Orlando, FL 32814	Airfield Pavement Markings	\$ 55,591	2.8%
Cal-Tech	7540 103rd St, Suite 216, Jacksonville, FL 32210	Geotechnical	\$ 21,778	1.1%
TransSolutions	14600 Trinity Blvd., Suite 200, Fort Worth, TX 76155	Simulation Modeling	\$ 62,237	3.1%
TOTAL PROPOSED PARTICIPATION			\$397,972	20.1%

TABLE C-7b MWBE PARTICIPATION SCHEDULE

NAME OF SUBCONSULTANT	ADDRESS	MWBE CLASSIFICATION	PROPOSED SCOPE OF SERVICES	FEE	PROPOSED PARTICIPATION
AVCON	5555 E. Michigan Street, Suite 200, Orlando, FL 32822	Sub-Continent Asian	Electrical Design	\$445,762.00	22.5%
TOTAL PROPOSED PARTICIPATION				\$445,762.00	22.5%

TABLE C-7c LDB PARTICIPATION SCHEDULE

NAME OF FIRM	ADDRESS	PROPOSED SCOPE OF SERVICES	FEE	PROPOSED PARTICIPATION
TOTAL PROPOSED PARTICIPATION			\$0.00	0.0%

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-8
LIST OF ANTICIPATED DRAWINGS SHEETS

Taxiways G & H Rehabilitation and Related Work	
DRAWING DESCRIPTION	NO. OF SHEETS
Consultant: AECOM	
COVER	2
PROJECT DRAWING LIST	2
SUMMARY OF QUANTITIES	2
GENERAL NOTES	2
OVERALL PROJECT LAYOUT PLAN	2
PROJECT CONSTRUCTION HAUL ROUTE AND NOTES	2
PROJECT LAYOUT AND SURVEY CONTROL PLAN	2
BORING/CORING LOCATION PLAN	2
BORING/CORING LOGS	10
SHEET LAYOUT PLAN	2
EXISTING CONDITIONS PLANS (14 SHEETS)	14
DEMOLITION PLANS (14 SHEETS)	14
GEOMETRY PLANS (14 SHEETS)	14
PAVEMENT PLANS (14 SHEETS)	14
TYPICAL DEMOLITION SECTIONS (3 SHEETS PER BID PACKAGE)	6
TYPICAL PAVEMENT SECTIONS (3 SHEETS PER BID PACKAGE)	6
GRADING PLANS PAVEMENT (14 SHEETS)	14
OVERALL PHASING PLANS	2
BARRICADE LOCATION PLANS (14 SHEETS)	14
SAFETY AND SECURITY PLAN AND NOTES	2
SAFETY AND SECURITY DETAILS	2
PAVEMENT PROFILES (8 SHEETS)	8
PAVEMENT ELEVATION PLANS (14 SHEETS)	14
CROSS SECTIONS (40 TW SHEETS)	40
SUBTOTAL	192

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-8
LIST OF ANTICIPATED DRAWINGS SHEETS

Subconsultant No. 1: AVCON	
AIRFIELD LIGHTING LEGEND & NOTES	2
ELECTRICAL GENERAL NOTES	2
ELECTRICAL SYMBOL LEGEND	2
ELECTRICAL KEY PLAN	2
AIRFIELD ELECTRICAL EXISTING CONDITIONS AND DEMO. (15 SHEETS)	15
MANHOLE SYSTEM DEMO. (5 SHEETS)	5
VAULT DEMO. (7 SHEETS)	7
AIRFIELD ELECTRICAL LIGHTING LAYOUT (15 SHEETS)	15
AIRFIELD ELECTRICAL LIGHTING CIRCUITING (15 SHEETS)	15
AIRFIELD LIGHTING NUMBERING PLAN (15 SHEETS)	15
MANHOLE / JUNCTION CAN PLAZA CONVERSION PLAN (4 SHEETS PER BID PACKAGE)	8
VAULT EXISTING ONE-LINE (2 SHEETS PER BID PACKAGE)	4
VAULT EXISTING POWER DISTRIBUTION PANELS	2
VAULT EXISTING BUS PANELS	2
VAULT EXISTING CCR CONTROL CIRCUIT	2
VAULT PROPOSED POWER PLAN	2
VAULT PROPOSED REGULATOR PLATFORM LAYOUT	2
VAULT PROPOSED ONE-LINE (2 SHEETS PER BID PACKAGE)	4
VAULT PROPOSED POWER DISTRIBUTION PANELS	2
VAULT PROPOSED BUS PANELS	2
VAULT PROPOSED CCR CONTROL CIRCUIT DIAGRAM	2
CCR LABEL AND CONNECTION DETAILS	2
SEMIFLUSH FIXTURE DETAILS (5 SHEETS PER BID PACKAGE)	10
SIGN SCHEDULE (S)	2
SIGN DETAILS (SHEET 1 OF 7) - SIGN NOTES, WIND SPEED, AND MARKING	2
SIGN DETAILS (SHEET 2 OF 7) - CONNECTION CROSS SECTION DETAILS	2
SIGN DETAILS (SHEET 3 OF 7) - GRADING	2
SIGN DETAILS (SHEET 4 OF 7) - 1 AND 2 MODULE SIGN INSTALLATION	2
SIGN DETAILS (SHEET 5 OF 7) - 3 MODULE SIGN INSTALLATION	2
SIGN DETAILS (SHEET 6 OF 7) - 4 MODULE SIGN INSTALLATION	2
SIGN DETAILS (SHEET 7 OF 7) - MULTIPLE SIGN DETAIL	2
PREPARATION OF BASE CAN FOR MILL AND OVERLAY (5 SHEETS PER BID PACKAGE)	10

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-8
LIST OF ANTICIPATED DRAWINGS SHEETS

MANHOLE DETAILS (4 SHEETS PER BID PACKAGE)	8
DUCT BANK DETAILS	2
WIRING AND IDENTIFICATION DETAILS	2
LIGHTNING ARRESTOR DETAILS	2
TEMPORARY LIGHTING DETAILS	2
UTILITY PROTECTION DETAILS	2
JUNCTION CAN DETAIL IN TURF	2
JUNCTION CAN DETAIL CONCRETE ENCASED	2
JUNCTION CAN PLAZA DETAILS	2
GROUND PIT INSTALLATION DETAIL	2
EXISTING AIRPORT GROUND GRID	2
OUC STRUCTURAL SLAB DETAILS	2
SUBTOTAL	180
Subconsultant No. 2: PEGASUS	
DRAINAGE PLANS (14 SHEETS)	14
EROSION AND SEDIMENT CONTROL PLANS (14 SHEETS)	14
EPOSITION CONTROL DETAILS (2 SHEETS PER BID PACKAGE)	4
DRAINAGE DETAILS (2 SHEETS PER BID PACKAGE)	4
UTILITY ADJUSTMENT PLAN	2
SUBTOTAL	38
Subconsultant No. 3: CERM	
PAVEMENT MARKING PLANS (14 SHEETS)	14
PAVEMENT MARKING DETAILS (2 SHEETS PER BID PACKAGE)	4
SUBTOTAL	18
TOTAL	428

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-9
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE FEES**

**Taxiways G & H Rehabilitation and Related Work
Table C-9**

All amounts invoiced by the Consultant as Reimbursable Fees shall be calculated on the basis of the actual number of hours of services rendered under this Agreement by each of the positions defined and by the new positions as identified below, multiplied by the corresponding Contract Hourly Rate up to the Not to Exceed limit defined by the Agreement. Include information on positions held by both the design consultant and each subconsultant.

FIRM	POSITION	CONTRACT HOURLY RATE
AECOM	QA/QC	\$175.00
AFCOM	Senior Project Manager	\$227.00
AECOM	Senior Engineer	\$181.00
AECOM	Project Engineer	\$143.00
AECOM	Senior Planner	\$147.00
AECOM	Senior CADD Designer	\$99.00
AECOM	Project Manager Assistant	\$68.00

FIRM	POSITION	CONTRACT HOURLY RATE
AVCON	QC Reviewer	\$244.00
AVCON	Project Manager	\$185.00
AVCON	Senior Engineer	\$142.00
AVCON	Project Engineer / Designer	\$108.00
AVCON	Senior CADD Designer	\$100.00
AVCON	Contract Administrator	\$91.00

FIRM	POSITION	CONTRACT HOURLY RATE
Pegasus	Project Manager	\$173.00
Pegasus	Senior Engineer	\$159.00
Pegasus	CADD Technician	\$91.00
Pegasus	Administrative Assistant	\$74.00

FIRM	POSITION	CONTRACT HOURLY RATE
CERM	Senior Project Manager	\$150.00
CERM	Senior Engineer	\$151.00
CERM	CADD Technician	\$78.00
CERM	Clerical	\$59.00

FIRM	POSITION	CONTRACT HOURLY RATE
Echo	Project Manager	\$171.00
Echo	Sr. CADD Draftsman	\$90.00
Echo	3 Person Survey Crew	\$185.00
Echo	Admin Assistant	\$69.00

FIRM	POSITION	CONTRACT HOURLY RATE
Cal-Tech	Sr. Project Manager	\$154.00
Cal-Tech	Sr. Engineer	\$127.00
Cal-Tech	Contract Administrator	\$71.00

FIRM	POSITION	CONTRACT HOURLY RATE
TransSolution, LLC	Senior Designer	\$286.91
TransSolution, LLC	Project Manager	\$216.00
TransSolution, LLC	Modeling Lead	\$124.00

TRUTH IN NEGOTIATION CERTIFICATION

The Consultant hereby certifies, covenants, and warrants that wage rates and other factual unit costs supporting the compensation for this project's agreement are accurate, complete, and current at the time of contracting.

The Consultant further agrees that the original agreement price and any additions thereto shall be adjusted to exclude any significant sums by which the Greater Orlando Aviation Authority determines the agreement price was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such agreement adjustments shall be made within one (1) year following the end of the contract. For purposes of this certificate, the end of the agreement shall be deemed to be the date of final billing or acceptance of the work by the Greater Orlando Aviation Authority, whichever is later.

Consultant: AECOM

By: Andrew Kacer

Print Name: Andrew Kacer

Date: 3-17-22



GREATER ORLANDO AVIATION AUTHORITY

Orlando International Airport
5850-B Cargo Road
Orlando, Florida 32827-4399

MEMORANDUM

To: Members of the Construction Committee

From: Edelis Molina, Sr. Small Business Administrator

Date: June 21, 2022

Re: Request for Recommendation of Approval of an Addendum to the Professional Services Agreement with AECOM Technical Services, Inc. for Design Services for W-432, Design Services for Taxiways G & H Rehabilitation – Phases 1 & 2 Orlando International Airport

We have reviewed the qualifications of the subject contract's DBE specifications and determined that, AECOM Technical Services, Inc. proposes 20.1% DBE participation on this Addendum.

Our analysis indicates that AECOM Technical Services, Inc. is eligible for award of the subject Addendum.

DBE UTILIZATION FORM FOR FEDERALLY FUNDED PROJECTS
PLEASE COMPLETE THIS FORM

This form should be used to report Construction and Engineering /Professional Services activities.

Name of Airport: Orlando International Airport

Telephone No: (407) 825-7130

Address: One Jeff Fuqua Boulevard, Orlando, FL 32827

Project Name & Number: Request for Recommendation of Approval of an Addendum to the Professional Services Agreement with AECOM Technical Services, Inc. for Design Services for W-432, Design Services for Taxiways G & H Rehabilitation – Phases 1 & 2 Orlando International Airport

1. Construction Information:

Addendum Amount: _____

2. DBE Goal by Group Representation:

Asian Pacific American	_____	Actual Result	_____
Asian Subcontinent American	_____	Actual Result	_____
Black American	_____	Actual Result	_____
Caucasian Female American	_____	Actual Result	_____
Hispanic American	_____	Actual Result	_____
Native American	_____	Actual Result	_____
Other	_____	Actual Result	_____
Total DBE Participation	_____	Actual Result	_____

3.a. Prime Contractor Information:

Name: _____
 Address: _____
 City, State, Zip: _____
 Telephone: _____

3.b. Name and Address of DBE Subcontractor

Name: _____
 Address: _____
 City, State, Zip: _____
 Telephone: _____

3.c. *Identity:

Work Item(s): _____
 Amount of Subcontract: _____
 Percent of Prime Contract: _____

4. Engineering/Professional Services Information:

Addendum Amount: 1,979,309.00

5. DBE Goal by Group Representation:

Asian Pacific American	_____	Actual Result	_____
Asian Subcontinent American	_____	Actual Result	_____
Black American	<u>55,591.00</u>	Actual Result	<u>2.8%</u>
Caucasian Female American	<u>84,015.00</u>	Actual Result	<u>4.2%</u>
Hispanic American	<u>258,366.00</u>	Actual Result	<u>13.1%</u>
Native American	_____	Actual Result	_____
Other	_____	Actual Result	_____
Total DBE Participation	<u>397,972.00</u>	Actual Result	<u>20.1%</u>

6.b. Engineering / Professional Services Firm Information:

Name: AECOM Technical Services, Inc.
 Address: 7650 West Courtney Campbell Causeway
 City, State, Zip: Tampa, FL 33607
 Telephone: (803) 636-2425

6.b. Name and Address of DBE Subconsultant

Name: Please see attached
 Address: _____
 City, State, Zip: _____
 Telephone: _____

6.c. *Identity:

Work Item(s): _____
 Amount of Subcontract: _____
 Percent of Prime Contract: _____

I certify that the information included on this form and its attachment is correct
 Signature: Edelis Molina Date: 06/21/22
 for George I. Morning, Director of Small Business Development Department

* In Items 3.c. and 6.c. above specify the identity of DBE Subcontractors and E/PS Firms (e.g. Black American, Hispanic American, Asian Subcontinent American, Asian Pacific American, Caucasian Female American, Native American & Other)

DBE Subcontractor/Subconsultant Certification

Project Name & Number: Request for Recommendation of Approval of an Addendum to the Professional Services Agreement with AECOM Technical Services, Inc. for Design Services for W-432, Design Services for Taxiways G & H Rehabilitation – Phases 1 & 2 Orlando International Airport

Prime Firm: AECOM Technical Services, Inc.

Addendum Amount: \$1,979,309.00

Company Name Pegasus Engineering, LLC
Address 301 West State Road 434, Suite 309
City, State, Zip Winter Springs, FL 32708
Phone (407) 992-9160
Identity Hispanic American
Work Item Drainage/Permitting
Amount of Subcontract 156,428.00
Percentage 7.9%

Corporate Environmental Risk Management, LLC
1990 Lakeside Drive, Suite 300
Tucker, GA 30084
(678) 999-0173
Black American
Airfield Pavement Markings
55,591.00
2.8%

Company Name ECHO UES, Inc.
Address 16514 N Dale Mabry Hwy
City, State, Zip Tampa, FL 33618
Phone 888-778-3246
Identity Hispanic American
Work Item Survey/SUE
Amount of Subcontract 101,938.00
Percentage 5.2%

Cal-Tech Testing, Inc.
3309 SW SR-247
Lake City, FL 32024
386-755-3633
Caucasian Female American
Geotechnical
21,778.00
1.1%

Company Name TransSolutions, LLC
Address 14600 Trinity Blvd., Suite 200
City, State, Zip Ft. Worth, TX 76155
Phone 817-359-2958
Identity Caucasian Female American
Work Item Simulation Modeling
Amount of Subcontract 62,237.00
Percentage 3.1%

Company Name _____
Address _____
City, State, Zip _____
Phone _____
Identity _____
Work Item _____
Amount of Subcontract _____
Percentage _____

\$397,972.00 20.1%
1,979,309.00

Upon motion of Mr. Gilliam, second by Mr. Hunt, vote carried to recommend to the Aviation Authority Board approval of an Addendum to the Continuing Program and Project Management Services Agreement with WSP USA, Inc. for Construction Phase OAR Services for BP-00496, MCO East Airfield Taxiways Rehabilitation and Related Work, for the total amount of \$1,308,472.00, which includes the not-to-exceed fees amount of \$544,562.00 for Schedule A, the not-to-exceed expenses amount of \$53,700.00 for Schedule A, the not-to-exceed fees amount of \$656,510.00 for Schedule B, and the not-to-exceed expenses amount of \$53,700.00 for Schedule B, with funding for Schedule A from future FAA Grants to the extent eligible, and funding for Schedule B from future FAA and FDOT Grants to the extent eligible, and General Airport Revenue Bonds.

REQUEST FOR APPROVAL OF A JOB ORDER CONSTRUCTION SERVICES ADDENDUM TO THE CONTINUING HORIZONTAL CONSTRUCTION SERVICES AGREEMENT WITH CARR & COLLIER, INC. FOR H-00351, AS1-AS3 TRITURATOR PIPE VIDEO AND CANAL CATTLE GATE INSTALL, AT THE ORLANDO INTERNATIONAL AIRPORT.

13. *[A handout was presented, which includes a revised Memorandum.]* Mr. Pancoast presented the memorandum, dated June 21, 2022. Discussion ensued.

Upon motion of Mr. Gilliam, second by Mr. Pelletier, vote carried to approve a Job Order Construction Services Addendum to the Continuing Horizontal Construction Services Agreement with Carr & Collier, Inc. for H-00351, AS1-AS3 Triturator Pipe Video and Canal Cattle Gate Install, for the total direct-negotiated amount of \$13,884.32, with funding from previously-approved Operations and Maintenance Funds.

REQUEST FOR APPROVAL TO AMEND PURCHASE ORDER NO. 1006535, PURCHASE OF MATERIALS AND LABOR TO COMPLETE INSTALLATION OF THE WEST PERGOLA FOR V-00873, HYATT SPA AREA RENOVATION (DESIGN/BUILD), AT THE ORLANDO INTERNATIONAL AIRPORT.

14. This item was deferred.

REQUEST FOR APPROVAL OF A PURCHASE ORDER FOR PASSIVE OPTICAL NETWORK (POL) EQUIPMENT FROM TELLABS ENTERPRISE, INC. FOR W-00401, SELECTION OF PASSIVE OPTICAL LOCAL AREA NETWORK (LAN) MANUFACTURER, AT THE ORLANDO INTERNATIONAL AIRPORT.

15. Ms. Harvey presented the memorandum, dated June 21, 2022. Discussion ensued.

Upon motion of Mr. Hunt, second by Mr. Gilliam, vote carried to approve a Purchase Order for Passive Optical Network (POL) Equipment from Tellabs Enterprise, Inc. for W-00401, Selection of Passive Optical Local Area Network (LAN) Manufacturer, for the total not-to-exceed expenses amount of \$32,311.56, with funding from General Airport Revenue Bonds.

REQUEST FOR RECOMMENDATION OF APPROVAL OF AN ADDENDUM TO THE PROFESSIONAL SERVICES AGREEMENT WITH AECOM TECHNICAL SERVICES, INC. FOR DESIGN SERVICES FOR W-00432, DESIGN SERVICES FOR TAXIWAYS G AND H REHABILITATION – PHASES 1 AND 2, AT THE ORLANDO INTERNATIONAL AIRPORT.

16. Ms. Watson presented the memorandum, dated June 21, 2022. Discussion ensued.

Upon motion of Mr. Hunt, second by Mr. Pelletier, vote carried to recommend to the Aviation Authority Board approval of an Addendum to the Professional Services Agreement with AECOM Technical Services, Inc. for Design Services for W-00432, Design Services for Taxiways G and H Rehabilitation – Phases 1 and 2, for the total amount of \$1,979,309.00, which includes the not-to-exceed fees amount of \$109,221.00, the lump sum fees amount of \$1,855,593.00, and the not-to-exceed expenses amount of \$14,495.00, with funding from future FAA and FDOT Grants to the extent eligible, and General Airport Revenue Bonds. ✓

REQUEST FOR APPROVAL OF AN ADDENDUM TO THE CONTINUING PROGRAM AND PROJECT MANAGEMENT SERVICES (OAR PRIME ENTITY) AGREEMENT WITH AECOM TECHNICAL SERVICES, INC. TO PROVIDE FY 2022 LEED TRACKING/IMPLEMENTATION OPERATIONAL SUPPORT, AT THE ORLANDO INTERNATIONAL AIRPORT.

17. Mr. Spence presented the memorandum, dated June 21, 2022. Discussion ensued.

Upon motion of Mr. Pelletier, second by Mr. Gilliam, vote carried to approve an Addendum to the Continuing Program and Project Management Services (OAR Prime Entity) Agreement with AECOM Technical Services, Inc. to provide FY 2022 LEED Tracking/Implementation Operational Support, for the total not-to-exceed fees amount of \$71,417.00, with funding from previously-approved Operations and Maintenance Funds.

**CITY OF ORLANDO
COUNCIL AGENDA ITEM**

Items Types:

Other

District: ALL

Contract ID:

Exhibits: Yes

Grant Received by City?: Yes

For Meeting of:

July 18, 2022

From:

Document Number:

On File (City Clerk) : Yes

Draft Only: No

Subject:

Federal Aviation Administration (FAA) Grant to the Greater Orlando Aviation Authority (GOAA) for Rehabilitation of Taxiways G & H at the Orlando International Airport

Summary:

Greater Orlando Aviation Authority (GOAA) has submitted a grant application to the Federal Aviation Administration (FAA) under the Fiscal Year 2022 Airport Improvement Program (AIP) for the Rehabilitation of Taxiways G & H Design at Orlando International Airport. The City is the Sponsor of the grant application, and the grant will be used for the design of the rehabilitation of the taxiways and related connectors so that they comply with current FAA standards.

Due to the required time limits for grant acceptance and funding, GOAA is requesting that City Council accept the grant prior to award. This will insure that GOAA does not lose the awarded funding due to the timing of acceptance. A copy of the grant application is attached.

NOTE: Per Federal Aviation Administration (FAA) grant procedures, upon award, the grant agreement will be emailed to the Mayor for eSignature. The City Attorney's Office will provide the City Clerk with a fully-executed copy of the grant agreement, at which time the City Clerk may add the Council information (Council date, item no. and doc. no.) to the agreement.

Fiscal & Efficiency Data:

No fiscal impact.

Recommended Action:

Approving and accepting the grant and associated contracts upon grant award by the Federal Aviation Administration (FAA) and authorizing the Mayor and City Clerk if applicable to execute same, substantially in the form and containing terms and conditions consistent with customary FAA grants, subject to review by the City Attorney's office.

Agenda Item attachment(s) on file in the City Clerks Office.

Note: All agenda items must be in the City Clerk's office by Noon Friday, six(6) business days prior to the regular Monday City Council meeting.

Contact: Wesley Powell, wesley.powell@cityoforlando.net; (407) 246-3478

Approved By:

Department

Budget Outside Routing Approval

City Clerk

Date and Time

7/6/2022 8:21 AM

7/7/2022 1:16 PM

ATTACHMENTS:

Name:	Description:	Type:
Grant_Applic_OIA_Taxiways_G__H_Rehab_2022.pdf	GOAA Grant Applic. OIA Taxiways G & H Rehab	Backup Material

"Enhance the quality of life in the City by delivering public services in a knowledgeable, responsive and financially responsible manner."



GREATER ORLANDO AVIATION AUTHORITY

Orlando International Airport
One Jeff Fuqua Boulevard
Orlando, Florida 32827-4392

MEMORANDUM

TO: Members of the Aviation Authority

FROM: Davin D. Ruohomaki, Chairman, Construction Committee

DATE: August 17, 2022

ITEM DESCRIPTION

Recommendation of the Construction Committee to Approve an Addendum to the Design Services for Taxiways G and H Rehabilitation, Phases 1 and 2, Agreement with AECOM Technical Services, Inc. for Design Phase Architect/Engineer (A/E) Services for Project W-00432, MCO Taxiways G and H Rehabilitation, Phases 1 and 2, at the Orlando International Airport (MCO)

BACKGROUND

MCO Taxiways G and H Rehabilitation, Phases 1 and 2, will include the rehabilitation of existing Taxiways G and H and their connectors, including Taxiways H1 through H8, a portion of Taxiways E and F, and Taxiway G1. Construction work includes resealing the joints and replacing isolated cracked slabs for the concrete pavement, rehabilitating the asphalt shoulders, and improvements for pavement geometry, markings, lighting and signage.

On December 15, 2021, the Aviation Authority approved the award of a Design Services Agreement for Taxiways G and H Rehabilitation, Phases 1 and 2, at the Orlando International Airport, to AECOM Technical Services, Inc.

Design of both phases will be completed in Fiscal Year (FY) 2023, with construction work done as two contracts, per Federal Aviation Administration (FAA) direction. Construction work in FY 2024 will be done as Project Bid Package (BP) No. 00497, MCO Taxiways G and H Rehabilitation, Phase 1, and in FY 2025 as BP No. 00498, MCO Taxiways G and H Rehabilitation, Phase 2.

ISSUES

A fee has been negotiated with AECOM Technical Services, Inc. for a total amount of \$1,979,309, to provide Design Phase A/E Services for W-00432. Services will include, but are not limited to, project surveys, geotechnical/site investigations, utility verification, evaluation of potential impacts to aircraft flow during construction and runway closure, project design, preparation of bid documents (i.e., 50%, 90% and 100%), cost estimates, permitting documents, engineer's report, construction safety and phasing plan, project schedule, and as-built research. If approved, services will be effective the date of Aviation Authority Board approval.

The Aviation Authority has reviewed the proposal and determined that AECOM Technical Services, Inc. proposes to achieve 20.1% Disadvantaged Business Enterprise (DBE) participation for these services, and certifies that AECOM Technical Services, Inc. is in good standing as it relates to its small business participation.

On June 21, 2022, the Construction Committee recommended approval of an Addendum to the Design Consultant Services for Taxiways G and H Rehabilitation, Phases 1 and 2, Agreement with AECOM Technical Services, Inc. for Design Phase A/E Services for W-00432, MCO Taxiways G and H Rehabilitation, Phases 1 and 2, at the Orlando International Airport, as outlined in the memorandum.

On July 18, 2022, the Orlando City Council authorized the acceptance of the grant offered by the FAA in the amount of \$1,484,482 for W-00432 on behalf of the Aviation Authority. The FAA grant was fully executed on July 18, 2022.

ALTERNATIVES

None

FISCAL IMPACT

The fiscal impact is \$1,979,309. Funding is from Federal Aviation Administration (FAA) and Florida Department of Transportation (FDOT) Grants to the extent eligible and General Airport Revenue Bonds.

RECOMMENDED ACTION

It is respectfully requested that the Aviation Authority Board resolve to accept the recommendation of the Construction Committee and approve an Addendum to the Design Consultant Services for Taxiways G and H Rehabilitation, Phases 1 and 2, Agreement with AECOM Technical Services, Inc. for Design Phase A/E Services for W-00432, MCO Taxiways G and H Rehabilitation, Phases 1 and 2, at the Orlando International Airport, for a total amount of \$1,979,309, which includes a lump sum fee amount of \$1,855,593, a not-to-exceed fee amount of \$109,221, and a not-to-exceed reimbursable expenses amount of \$14,495, with funding from FAA and FDOT Grants to the extent eligible and General Airport Revenue Bonds; and, authorize an Aviation Authority Officer or the Chief Executive Officer to execute the necessary documents following satisfactory review by legal counsel.



GREATER ORLANDO
AVIATION AUTHORITY

ORLANDO INTERNATIONAL AIRPORT (MCO)

W-432 TAXIWAYS G & H REHABILITATION-DESIGN

