ADDENDUM NO. 2
TO THE AGREEMENT DATED FEBRUARY 23, 2021
BETWEEN GREATER ORLANDO AVIATION AUTHORITY
AND WOOLPERT, INC.

Project: **FY22 Computer Aided Design (CAD), Geographic Information Systems (GIS), Building Information Modeling (BIM) Standards Review, Orlando International Airport**

THIS ADDENDUM is effective this 10th day of May, 20 22, by and between the **GREATER ORLANDO AVIATION AUTHORITY** ("Authority"), and **WOOLPERT, INC.** ("Consultant').

WITNESSETH:

WHEREAS, by Agreement dated February 23, 2021, Authority and Consultant entered into an agreement for Consultant to provide CAD, GIS, BIM and Related Services; 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 **NOT TO EXCEED** amount of **NINETY-FOUR THOUSAND TWO HUNDRED FORTY-SIX AND NO/100 DOLLARS ($94,246.00),** broken down as follows:

Professional Fees:	**NTE:**	**$94,246.00**
Professional Fees:	**LS:**	**$0.00**
Reimbursable Expenses:	**NTE:**	**$0.00**
Total:		**$94,246.00**

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 February 23, 2021 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 May, 2022

GREATER ORLANDO AVIATION AUTHORITY

By: _____

Davin D. Ruohomaki
Sr. Director Engineering & Construction

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

this 20 **day of** May, 2022

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

WOOLPERT, INC.

By: Eric Risner
Signature (Duly Authorized Rep.)

Eric Risner, PS, IAM, PMP
Printed Name

Vice President
Title

GREATER ORLANDO AVIATION AUTHORITY

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 Alex Sorondo)

Date: **May 10, 2022**

Re: **Request for Approval of an Addendum to the CAD, GIS, BIM and Related Services Agreement with Woolpert, Inc. for FY 2022 Computer Aided Design (CAD), Geographic Information Systems (GIS), Building Information Modeling (BIM) Standards Review for Orlando International Airport**

Consultant's proposal, dated April 19, 2022, is to provide Computer Aided Design (CAD), Geographic Information Systems (GIS), Building Information Modeling (BIM) standards review. This scope will be broken into two Phases; Phase 1 will be completed in FY 2022 and Phase 2 will be completed In the future as funding is available.

If approved, these services would be effective the date of Construction Committee Approval.

This continuing consultant was selected for this task based on (☑ all that apply):

☒ Experience ☒ Available Personnel ☐ Current Workload
☒ Expertise ☒ Equitable Distribution ☐ Other:_____

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

Funding is from previously approved Operation and Maintenance Fund 301.713.170.5310009.000.000000. Funding source verified by Andrea Harper of Construction Finance on 5/5/22 as correct and available.

It is respectfully requested that the Construction Committee approve an Addendum to the CAD, GIS, BIM and Related Services Agreement with Woolpert, Inc. for the services contained herein and the amount as shown below:

Not to Exceed Fees	$94,246.00
Lump Sum Fees	$0.00
Not to Exceed Expenses	$0.00
TOTAL	**$94,246.00**
AAC – Compliance Review Date	ZTG 5/03/2022
AAC – Funding Eligibility Review Date	5/04/2022

Req 91426

GREATER ORLANDO AVIATION AUTHORITY

Statement of Work

CAD/GIS/BIM Integration

Greater Orlando Aviation Authority (GOAA)

April 19, 2022

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

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Change Control

Change Record			
Date	Author	Version	Change Reference
4/7/2022	Prateek Sharma	1.0	Initial Draft
4/18/2022	Prateek Sharma	2.0	Split tasks into 2 phases
4/19/2022	Prateek Sharma	3.0	Removed Phase 2 detail scope and fee

Program Objective

Greater Orlando Aviation Authority manages Orlando International (MCO) and Orlando Executive (ORL) airports. Over the years the Authority has amassed huge volumes of CAD and GIS data representing the airside and landside facilities at its airports. Over the past few years, the Authority has also started receiving BIM data, especially for the South Terminal Complex infrastructure. The BIM data in particular contains valuable asset information and is of special interest to various departments including maintenance, operations, etc. As a result, the Authority is interested in integrating information from various sources, CAD, GIS & BIM into the existing GIS system and has tasked Woolpert with developing integrations for data translation between CAD, GIS and BIM. To this end Woolpert is proposing to complete the integration in two phases. Phase I will involve updating the existing CAD standards and developing new GIS and BIM standards. Phase II will be the implementation phase and would entail developing crosswalk tables between the three data sources and workbenches for automating data translation. This proposal addresses Phase I – Standards Development only, Phase II will be completed at a later date at GOAA's discretion.

Phase I – Standards Development

Task 1: Plan and Manage Task

Subtask 1.1 – Hold a Kickoff Meeting

Woolpert and GOAA staff will hold a kickoff meeting via WebEx to go over timeline, tasks and responsibilities.

Deliverables:

- Meeting agenda
- Meeting minutes

Subtask 1.2 – As Needed Status Meetings

Woolpert and GOAA staff will hold no more than 2 as-needed virtual status meetings over the course of this tasking, to discuss work completed, review findings and action items, and discuss any other topics of interest.

Woolpert will provide meeting minutes within a week of each status meeting.

Assumptions:

- Maximum of 2 status meetings will be held

Deliverables:

- Meeting minutes

Task 2: Update CAD/GIS Standards

Subtask 2.1: Review Existing Standards

Woolpert will review the existing GOAA CAD Standard and compare it to the most current version (V6) of the National CAD Standard (NCS) as well as other relevant standards and unique needs of GOAA as documented below in the CAD Standard Documentation task (Subtask 2.2).

Additional standards including the current American Institute of Architects (AIA) standard for interior elements as well as the FAA's AGIS standards as defined in AC 150/5300-18B will also be reviewed and included. Specialty layers or other factors unique to GOAA including utility features will also be considered and updated in the Civil portion of the CAD Standard as needed.

The purpose of this effort will be to ensure that future Building Information Modeling (BIM) standards will be based on the most current CAD standard to ensure maximum alignment between standards and to minimize any efforts necessary to modify the newly established BIM standard near term.

Assumptions:

- GOAA will provide Woolpert with a copy of the airport's current CAD Standard within 1 week from the project kick-off meeting
- 1 virtual stakeholder meeting to discuss existing GIS data and data standard needs.

Deliverable:

- Memorandum of findings and recommended modifications based on review of current GOAA CAD Standard

Subtask 2.2: CAD/GIS Standard Documentation

Woolpert will update the existing CAD standard to comply with the current NCS.

As part of this task, layer names and object data (i.e., CAD equivalent information to GIS attributes) will be updated as needed to better support the integration of CAD and GIS. The CAD standard shall also update (if required) standard title blocks that include fields for automated metadata extraction. In the CAD Standard, Woolpert will cover object geometry types, topology between objects, accuracy, coordinate systems, as well as graphic considerations such as block definitions, line types/weights, text, and dimensions. Woolpert will also develop new GIS Data Standard to cover all layers that will support EGIS System and future deliverables at GOAA.

Assumptions:

- GOAA will review submitted deliverables within 14 business days and provide comments back to Woolpert
- 1 virtual meeting to demo draft standards
- 1 virtual meeting to demo final deliverables

Deliverables:

- Updated Draft CAD Standard Layer Table for Review by GOAA Staff. Layers will be created/updated using the NCS convention of Discipline (required), Discipline Designator (optional) – Major Group (required) – Minor Groups (optional) – Status (optional).
  - Example of a CAD Layer name: C-RUNW-MRKG-CNTR
- Draft CAD Template (.dwt)for review by GOAA Staff
- Draft CAD Standard Document for review by GOAA Staff
- Draft Geodatabase Schema File for review by GOAA staff
- Draft Topology Toolbox for review by GOAA staff
- Draft GIS Standard Document or review by GOAA staff
- Final Deliverable of CAD Standard including layer tables.
- Final Deliverable of GIS Standard
- Final GDB template.

Task 3: BIM Standards

Currently, more than 100 Revit models have been delivered to GOAA as part of the South Terminal Complex program with more being created as part of the on-going design of future phases of work. It is also understood that Revit models will continue to be delivered. With the need to incorporate the BIM data into various GOAA systems, GOAA has decided to pursue the development of BIM standards which will be requirement for future design contracts and projects. Woolpert will work with GOAA staff to develop this standard for future projects.

Woolpert will create a new GOAA BIM Standard in alignment with the most current version (V3) of the National BIM Standard-United States (NBIMS-US) as well as other relevant standards and unique needs of GOAA.
The BIM standard shall at a minimum, consist of:

- BIM Scope
- Coverage of Version
- Reference Standards
- Business Processes
- Business Rules
- Data Structures and Models
- Implementation Guidance
- Maturity Model
- Sample BIM Execution Plan

The purpose of this effort will be to ensure that future Building Information Modeling (BIM) standards will be based on the most current CAD / GIS standards to ensure maximum alignment between standards and to minimize any efforts necessary to modify the newly established BIM standard near term.

Assumptions:

- GOAA will provide Woolpert with a copy of the airport's current CAD Standards within 1 week from the project kick-off meeting.
- 1 day on site stakeholder meeting (GOAA, STC Consultants)
- All work products will be referenced and sourced to the prime consultant.

Deliverables:

- New GOAA BIM Standards.
- REVIT template file.

Phase II – Develop Integration (TBD)

This task will be completed at a later date at GOAA's discretion.

Task 4: Define ETL between standards

Once Task 2 & 3 are completed, Woolpert will gather and document the requirements necessary to fulfill the needs of GOAA staff and contractor stakeholders in the integration of BIM data within key business systems. After having identified data that needs to be extracted from each data source (CAD, GIS, BIM) Woolpert will develop crosswalk tables for extracting and moving data between CAD/GIS/BIM.

Deliverables:

- Draft crosswalk tables.
  - BIM to GIS
  - CAD to GIS
  - GIS to CAD
- Final crosswalk tables.

Task 6: Develop Integrations (CAD – GIS, GIS – CAD & BIM – GIS)

Once Task 4 is completed, Woolpert will develop the FME Workbenches or other integration processes necessary to extract the data required by the business systems. Woolpert will develop draft versions of the tools for review by GOAA, incorporate GOAA's comments to finalize the workbenches and deploy the final workbenches within GOAA's environment.

Deliverables:

- Draft workbenches
  - BIM to GIS
  - CAD to GIS
  - GIS to CAD
- Final workbenches
- Deployment support
- Workbench documentation

Schedule

Phase I: May 2022 – September 2022

Cost

The following table provides a breakdown of the task order cost.

Task	T&M Labor Cost
PHASE I (FY 2022)	
Task 1 – Plan & Manage Task	$9,828
Task 2 – Update CAD/GIS Standards	$51,864
Task 3 – BIM Standards	$32,554
Phase I Total	**$94,246**

DBE/MWBD/LDB Participation

The limited scope of required services does not provide an opportunity for DBE/MWBD/LDB participation on this project.

	Senior Geospatial SME	Senior Geospatial SME (Travel) [Base + $34 (travel premium)]	Senior PM	Senior PM (Travel) [Base + $34 (travel premium)]	Sr CAD Tech	Senior BIM Specialist	GIS Analyst	Senior GIS Analyst	Senior Administrative Assistant
Hourly Rate	$255.00	$289.00	$172.00	$206.00	$88.00	$139.00	$117.00	$119.00	$73.00
Total Fee	$26,010.00	$4,624.00	$14,448.00	$3,296.00	$4,928.00	$7,784.00	$10,530.00	$21,896.00	$730.00
Total Hours	102	16	84	16	56	56	90	184	10
PHASE I (FY 2022)									
Task 1: Plan and Manage Task	**28**	**0**	**6**	**0**	**2**	**2**	**2**	**2**	**10**
Kickoff Meeting	4		2		0	0	0	0	0
Status Meetings - 2 meetings maximum	4		2		2	2	2	2	0
Project Management	20		2		0	0	0	0	10
Task 2: GOAA CAD/GIS Standard	**50**	**0**	**14**	**0**	**54**	**0**	**88**	**182**	**0**
Review Existing Standard	4		0		8	0	8	6	0
CAD Standard Documentation	18		0		32	0	36	66	0
Create new GOAA GIS Standards	28		14		14		44	110	
Task 3: BIM Standards	**24**	**16**	**64**	**16**	**0**	**54**	**0**	**0**	**0**
Create new GOAA BIM Standards	24	16	64	16		54			

Task Summary	Senior Geospatial SME	Senior Geospatial SME (Travel) [Base + $34 (travel premium)]	Senior PM	Senior PM (Travel) [Base + $34 (travel premium)]	Sr CAD Tech	Senior BIM Specialist	GIS Analyst	Senior GIS Analyst	Senior Administrative Assistant	**LABOR**
PHASE I (FY 2022)										
Task 1	$7,140.00	$0.00	$1,032.00	$0.00	$176.00	$278.00	$234.00	$238.00	$730.00	$9,828.00
Task 2	$12,750.00	$0.00	$2,408.00	$0.00	$4,752.00	$0.00	$10,296.00	$21,658.00	$0.00	$51,864.00
Task 3	$6,120.00	$4,624.00	$11,008.00	$3,296.00	$0.00	$7,506.00	$0.00	$0.00	$0.00	$32,554.00
PHASE I Total	**$26,010.00**	**$4,624.00**	**$14,448.00**	**$3,296.00**	**$4,928.00**	**$7,784.00**	**$10,530.00**	**$21,896.00**	**$730.00**	**$94,246.00**

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: Eric Risner

By: Woolpert, Inc.

Print Name: Eric Risner, Vice President

Date: 04/18/2022

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: May 10, 2022

Re: Request for Approval of an Addendum to the CAD, GIS, BIM and Related Services Agreement with Woolpert, Inc. for FY 2022 Computer Aided Design (CAD), Geographic Information Systems (GIS), Building Information Modeling (BIM) Standards Review for Orlando International Airport

We have reviewed the qualifications of the subject contract's MWBE/LDB/VBE specifications and determined that, due to the limited scope of the services to be provided, Woolpert, Inc. does not propose small business participation on this Addendum.

Our analysis indicates that Woolpert, Inc. is eligible for award of the subject Addendum.

REQUEST FOR APPROVAL OF AN ADDENDUM TO THE CONTINUING CIVIL ENGINEERING CONSULTANT SERVICES AGREEMENT WITH AECOM TECHNICAL SERVICES, INC. FOR W-00443, ORL STORMWATER DRAINAGE ATLAS UPDATE 2022, AT THE ORLANDO EXECUTIVE AIRPORT.

22. *[A handout was presented, which includes a revised Memorandum.]* Mr. Rivera presented the memorandum, dated May 10, 2022. Discussion ensued.

Upon motion of Ms. Sharman, second by Mr. Hunt, vote carried to approve an Addendum to the Continuing Civil Engineering Consultant Services Agreement with AECOM Technical Services, Inc. for W-00443, ORL Stormwater Drainage Atlas Update 2022, for the total amount of $106,777.00, which includes the total not-to-exceed fee amount of $19,944.00 and the total lump sum fee amount of $86,833.00, with funding from previously-approved ORL Revenue Funds.

REQUEST FOR APPROVAL OF AN ADDENDUM TO THE CAD, GIS, BIM AND RELATED SERVICES AGREEMENT WITH WOOLPERT, INC. FOR FY 2022 COMPUTER AIDED DESIGN (CAD), GEOGRAPHIC INFORMATION SYSTEMS (GIS), BUILDING INFORMATION MODELING (BIM) STANDARDS REVIEW, AT THE ORLANDO INTERNATIONAL AIRPORT.

23. Mr. Sorondo presented the memorandum, dated May 10, 2022. Discussion ensued.

Upon motion of Mr. Gilliam, second by Mr. Pelletier, vote carried to approve an Addendum to the CAD, GIS, BIM and Related Services Agreement with Woolpert, Inc. for FY 2022 Computer Aided Design (CAD), Geographic Information Systems (GIS), Building Information Modeling (BIM) Standards Review, for the total not-to-exceed fee amount of $94,246.00, with funding from previously-approved Operation and Maintenance Funds.

REQUEST FOR RECOMMENDATION OF APPROVAL OF NO-COST ADDENDA TO THE CONTINUING ELECTRICAL CONSTRUCTION SERVICE AGREEMENTS TO EXERCISE THE SECOND AND FINAL ONE-YEAR RENEWAL OPTION.

24. *[A handout was presented, which includes a revised Memorandum.]* Ms. Anderson presented the memorandum, dated May 10, 2022. Discussion ensued.

Upon motion of Mr. Hunt, second by Mr. Pelletier, vote carried to recommend to the Aviation Authority Board approval of No-Cost Addenda to the Continuing Electrical Construction Service Agreements to Exercise the Second and Final One-Year Renewal Option.

INFORMATION ITEMS

25. The following items were presented for information only:

A. Field Change Order (FCO) Log

B. Contingency Work Authorization (CWA) Log

C. COVID-19 CCM Item Log

D. Request of Approval of a Revised GMP Budget, Buyout, and Contingency Form for BP-S00147, South Terminal C, Phase 1 – Landside Terminal, Remaining Structures and Systems, at the Orlando International Airport. [From the Construction Committee on April 26, 2022, Item No. 3-II].

E. Request of Approval of a Revised GMP Budget, Buyout, and Contingency Form for BP-S00146, South Terminal C, Phase 1 – Landside Terminal, at the Orlando International Airport. [From the Construction Committee on May 3, 2022, Item No. 2-C].

F. Office of Small Business Development Memorandum for the Request for Recommendation of Approval of an Addendum to the Continuing Construction Services Agreement with Valencia Construction Group, Inc. for the Award of H-S00025 Terminal C Landscape and Irrigation Installation. [From the Construction Committee on May 3, 2022, Item No. 8].

G. Office of Small Business Development Memorandum for the Request for Recommendation of Approval to Addendum No. 21 to the Program and Project Management Services for the South Terminal C, Phase 1 Agreement with Cost Management, Inc. to Provide Additional Construction Phase Technology Consulting and Support Services for FY 2022 for W-S00111 South Terminal C, Phase I, at the Orlando International Airport. [From the Construction Committee on May 3, 2022, Item No. 10].