

**AMENDMENT 5 to ADDENDUM NO. 3
TO THE AGREEMENT DATED MARCH 24, 2023
BETWEEN GREATER ORLANDO AVIATION AUTHORITY
AND JACOBS PROJECT MANAGEMENT CO.**

Project: Additional Mechanical, Electrical, and Plumbing Commissioning Services for Terminal C Programs for W-S149 Program Management and Oversight (PMO) Services for Terminal C Programs, Orlando International Airport

THIS AMENDMENT is effective this 16th day of July, 2024, by and between the **GREATER ORLANDO AVIATION AUTHORITY** ("Aviation Authority"), and **JACOBS PROJECT MANAGEMENT CO.** ("Consultant").

WITNESSETH:

WHEREAS, by Agreement dated March 24th, 2023, Aviation Authority and Consultant entered into an agreement for Consultant to provide Executive Program Management and Oversight Services for STC Programs Consulting Services; and

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

WHEREAS, the Aviation Authority and the Consultant desire to enter into this Amendment to the Agreement to provide for a reallocation of awarded services and 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 Aviation Authority and the Consultant do hereby agree as follows:

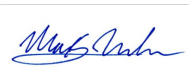
1. Consultant shall reallocate previously awarded services and perform additional services in accordance with the terms of the Agreement and the attached Exhibit "A." Consultant shall be paid for such additional services according to the payment terms set forth in the Agreement.
2. Consultant shall be compensated for additional services in the **NOT TO EXCEED amount of TWO HUNDRED FORTY-EIGHT THOUSAND EIGHTY-FOUR AND 38/100 DOLLARS (\$248,084.38)**, broken down as follows:

ITEM	ADDENDUM 3 & AM 1-4	PROPOSED AMENDMENT	REVISED TOTAL
NTE Reimbursable Fees	\$27,000,734.23	\$327,969.40	\$27,328,703.63
Lump Sum Fees	\$0.00	\$0.00	\$0.00
NTE Reimbursable Expenses & Allowances	\$2,938,760.30	(\$79,885.02)	\$2,858,875.28
Total:	\$29,939,494.53	\$248,084.38	\$30,187,578.91

3. Except as expressly modified in this Amendment, the Agreement dated March 24th, 2023, 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 Amendment this day of Jul 18, 2024.

GREATER ORLANDO AVIATION AUTHORITY


 box SIGN 4W8BQ9ZJ-4L6PRPKL

By:

Max Marble
 Sr. Vice President, Capital Programs

Approved as to Form and Legality
 (for the benefit of GOAA only)
 this day of Jul 17, 2024



By: 
 NELSON MULLINS RILEY AND
 SCARBOROUGH, Legal Counsel
 Greater Orlando Aviation Authority

JACOBS PROJECT MANAGEMENT CO.


 box SIGN 1JR3L27Z-4L6PRPKL

By:

Signature (Duly Authorized Rep.)

Thomas J. Meinhart

Printed Name

Sr. Vice President

Title

MEMORANDUM

TO: Members of the Construction Committee

FROM: Max E. Marble, Senior Vice President, Capital Programs

DATE: July 16, 2024

ITEM DESCRIPTION

Request for Approval of an Amendment to Addendum No. 3 to the Executive Program Management and Oversight Services for Terminal C Programs Agreement with Jacobs Project Management Co. to provide Mechanical, Electrical and Plumbing ("MEP") Commissioning ("Cx") and Smoke Control Cx Scope Development Services for Terminal C Programs (W-S00149), Terminal C ASC Gates 250-253 project (BP-S00195) at the Orlando International Airport

BACKGROUND

On August 16, 2023, the Aviation Authority Board approved Addendum No. 3, to the above-referenced agreement, in the amount of \$13,233,846.00 for Core Team Executive Project PMO Services for Terminal C. On September 27, 2023, the Aviation Authority Board approved Amendment No. 1 to Addendum No. 3 in the amount of \$11,497,202.00 for additional Executive Project PMO Staffing Plan Services. A portion of this approved funding included a \$600,000.00 allowance to be utilized for yet undefined scope that may be required to support the projects within the Terminal C Programs pending further GOAA direction (the "Other Services/Consultants Allowance"). On November 21, 2023, the Construction Committee approved an information item to Addendum No. 3 with a reallocation of the Other Services/Consultants Allowance in the amount of \$55,871.03 for BP-S00195 Fireproofing Testing Services. On April 23, 2024, the Construction Committee approved Amendment No. 2 to Addendum No. 3 with a reallocation of the Other Services/Consultants Allowance in the amount of \$197,948.40 for BP-S00195 Building Envelope Commissioning and Firestopping Evaluation Services. On May 15, 2024, the Aviation Authority Board approved Amendment No. 3 to Addendum No. 3 in the amount of \$5,208,446.53 for BP-S00196 Inspection Services and PMO Staff Extension and Reconciliation. On May 7, 2024, the Construction Committee approved Amendment No. 4 to Addendum No. 3 with a reallocation of the Other Services/Consultants Allowance in the amount of \$152,167.35 for BP-S00198 Building Envelope Commissioning, Firestopping Evaluation and Fireproofing Testing Services. On May 21, 2024, the Construction Committee approved Amendment No. 5 to Addendum No. 3 with a reallocation of the Other Services/Consultants Allowance in the amount of \$114,128.20 for BP-S00198 Mechanical, Electrical and Plumbing ("MEP") Commissioning Services.

ISSUES

Since then, it has been determined that MEP Cx and Smoke Control Cx Scope Development Services for the Terminal C Programs (W-S00149), Terminal C ASC Gates 250-253 project (BP-S00195), as further described in the Consultant proposal dated June 21, 2024, are required. Hanson Professional Services Inc. is to provide the services. Therefore, it is respectfully requested that: (1) the remaining portion of the Other Services/Consultants Allowance be approved to be utilized for the above proposed scope; and (2) funds be reallocated from Jacobs NTE Allowances to Subconsultants NTE Fees, as detailed below:

Addendum No. 3	Original Budget Approved at 8/8/2023 CCM	Current Budget As of 5/21/2024 CCM	Proposed Amendment	Proposed Total
Jacobs NTE Fees	\$10,497,292.00	\$16,424,538.00	\$0.00	\$16,424,538.00
Subconsultants NTE Fees	\$2,030,804.00	\$10,576,196.23	\$327,969.40	\$10,904,165.63
Jacobs NTE Allowances	\$705,750.00	\$1,272,619.02	(\$79,885.02)	\$1,192,734.00
Jacobs NTE Expenses	\$0.00	\$650,175.00	\$0.00	\$650,175.00
Subconsultants NTE Expenses	\$0.00	\$1,015,966.28	\$0.00	\$1,015,966.28
TOTAL	\$13,233,846.00	\$29,939,494.53	\$248,084.38	\$30,187,578.91

If approved, services will be effective the date of Construction Committee approval.

SMALL BUSINESS

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

ALTERNATIVES

None.

FISCAL IMPACT

Funding is from General Airport Revenue Bonds and Passenger Facility Charges to the extent eligible. Funding source verified by Melvin Martinez of Construction Finance on 07 / 10 / 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee approve an Amendment to Addendum No. 3 to the Executive Program Management and Oversight Services for Terminal C Programs Agreement with Jacobs Project Management Co. for the services contained herein and the amount as shown below:

Not to Exceed Fees	\$327,969.40
Lump Sum Fees	\$0.00
Not to Exceed Allowances	(\$79,885.02)
Not to Exceed Expenses	\$0.00
TOTAL	\$248,084.38
AAC – Compliance Review Date	 7/9/2024
AAC – Funding Eligibility Review Date	7/9/2024



July 2, 2024

Mr. Max Marble
SR VP Capital Programs

Greater Orlando Aviation Authority
Orlando International Airport
One Jeff Fuqua Blvd
Orlando, FL 32827

Subject: Amendment to Addendum No. 3 for MEP Cx and Smoke Control Cx Scope Development Services for Terminal C Programs (W-S00149), Terminal C ASC Gates 250-253 project (BP-S00195)

Dear Mr. Marble,

Jacobs Project Management Co. is pleased to provide this proposal for Mechanical, Electrical and Plumbing ("MEP") Commissioning ("Cx") and Smoke Control Cx Scope Development Services for Terminal C Programs (W-S00149), Terminal C Programs (W-S00149), Terminal C ASC Gates 250-253 project (BP-S00195). Please find the proposal scope and fee in the following documentation.

We greatly appreciate the opportunity to provide this proposal, and if you have any questions please do not hesitate to ask.

Sincerely,

Joe Ciancimino | Jacobs | Sr. Aviation Program Director
M: 407.314.9545 | joseph.ciancimino@jacobs.com

SCOPE

Jacobs Project Management Co. (Jacobs) is pleased to provide **Mechanical, Electrical and Plumbing (“MEP”) Commissioning (“Cx”) and Smoke Control Cx Scope Development Services** that will be performed in accordance with the applicable ASTM Standards and Chapter 4 of the Florida Building Code, in support of the Terminal C ASC Gates 250-253 project (BP-S00195).

The **MEP Cx and Smoke Control Cx Scope Development Services** will be performed under a subcontract with **Hanson Professional Services Inc.** **MEP Cx Services** will be self-performed by **Hanson Professional Services Inc.** and **Smoke Control Cx Scope Development Services** will be performed by **Howe Engineers, Inc.**

SCHEDULE AND FEE

The total estimated not-to exceed (NTE) fee for this scope is **\$327,969.40** consisting of **\$302,795.40** for the **MEP Cx Services** and **\$25,174.00** for the **Smoke Control Cx Scope Development Services**. The basis of payment for this scope is time and materials. Monthly invoices will be submitted to GOAA. Actual labor hours and allowable expenses will be billed in accordance with the Agreement for Professional Services.

Funding for this scope will require partial program budget reallocation as detailed in the attached Table A.

OTHER ASSUMPTIONS AND CLARIFICATIONS

1. This scope of work assumes a Notice to Proceed based upon Construction Committee approval forecasted on July 16, 2024.
2. Addendum No. 3, as approved by GOAA, excluded testing and commissioning. This proposal, given the timing of the work, is one (1) part of the **Smoke Control Cx** scope required. Jacobs Project Management Co. will follow this amendment with an additional amendment to cover the balance of this scope once it is further defined through the effort included in this amendment for the Terminal C ASC Gates 250-253 project (BP-S00195).
3. The NTE fee for these commissioning efforts reflect current LEED requirements of the contract documents. Price is subject to change based on potential revisions to LEED requirements.
4. **On-Site Services During Construction** - The presence or duties of Jacobs’ personnel at the construction site, whether as onsite representatives or otherwise, do not make Jacobs or Jacobs’ personnel in any way responsible for those duties that belong to GOAA and/or the construction contractor or other entities, and do not relieve the construction contractor or any other entity of their obligations, duties, and responsibilities, including, but not limited to, all construction methods, means, techniques, sequences, and procedures necessary for coordinating and completing all portions of the construction work in accordance with the construction Contract Documents and any health or safety precautions required by such construction work.

The presence of Jacobs’ personnel at the construction site is for the purpose of providing to GOAA a greater degree of confidence that the completed construction work will conform generally to the construction documents and that the integrity of the design concept as reflected in the construction documents has been implemented and preserved by the construction contractor(s). Jacobs neither guarantees the performance of the construction contractor(s) nor assumes responsibility for construction contractor's failure to perform work in accordance with the construction documents.

TABLE A

Legend
BP-S00195
BP-S00198
BP-S00196
Multiple Projects

Item	Scope	Original Budget Approved at 8/8/2023 CCM	Current Budget Approved at 5/21/2024 CCM	Proposed Amendment	Proposed Total	Rate	Total Estimated Hours	BP-S00195	Estimated Hours 195	BP-S00198	Estimated Hours 198	BP-S00196	Estimated Hours 196	Notes
NTE Fees - Jacobs Labor														
1	EPMO Director	\$1,557,718.00	\$2,270,572.00		\$2,270,572.00	\$307.00	7395	\$934,630.80	4438	\$389,429.50	1849	\$946,511.70	1109	
2	Construction Management Director	\$1,704,984.00	\$2,716,224.00		\$2,716,224.00	\$336.00	8064	\$1,022,918.40	4850	\$426,219.00	2021	\$1,267,089.60	1213	
3	Contract Management Director	\$1,700,908.00	\$2,469,960.00		\$2,469,960.00	\$319.00	7740	\$1,020,544.80	4644	\$425,227.00	1935	\$1,003,298.20	1161	
4	Minority and Small Business Liaison Approved Rate	\$541,198.00	\$0.00		\$0.00	\$217.00	2494							
5	Minority and Small Business Liaison Updated Rate		\$476,354.00		\$476,354.00	\$191.00	2494	\$285,736.00	1496	\$119,184.00	624	\$71,431.00	374	
6	Arakie Gate Project Sr PM Proposed Rate	\$1,348,906.00	\$0.00		\$0.00	\$253.00	5332							
7	Arakie Gate Project Sr PM Rate Actual		\$1,327,668.00		\$1,327,668.00	\$249.00	5332	\$1,327,668.00	5332					
8	GTF Pwd Bridge Sr PM Proposed Rate	\$1,131,416.00	\$0.00		\$0.00	\$253.00	4472							
9	GTF Pwd Bridge Sr PM Rate Actual		\$949,680.00		\$949,680.00	\$190.00	4472			\$949,680.00	4472			
10	Airfield Civil PM Proposed Rate	\$794,640.00	\$0.00		\$0.00	\$154.00	5160							
11	Airfield Civil PM Rate Actual		\$634,680.00		\$634,680.00	\$123.00	5160					\$634,680.00	5160	
12	Airfield Civil PM Extension		\$465,432.00		\$465,432.00	\$123.00	3784					\$465,432.00	3784	
13	CA Engineering Proposed Rate	\$529,700.00	\$0.00		\$0.00	\$110.00	4916							
14	CA Engineering Rate Actual		\$467,152.00		\$467,152.00	\$97.00	4916	\$280,291.20	2890	\$116,798.00	1204	\$70,072.80	722	
15	CA Engineering Extension		\$367,048.00		\$367,048.00	\$97.00	3784					\$367,048.00	3784	
16	CA Invoices, Changes	\$655,836.00	\$0.00		\$0.00	\$123.00	5332							
17	Sr PM BHS		\$1,021,680.00		\$1,021,680.00	\$220.00	4644	\$1,021,680.00	4644					
18	CX Manager		\$543,004.00		\$543,004.00	\$154.00	3536	\$325,802.40	2110	\$135,751.00	892	\$81,450.60	528	
19	Assistant Construction Manager Approved Rate		\$0.00		\$0.00	\$132.00	4128							
20	Assistant Construction Manager Updated Rate		\$536,840.00		\$536,840.00	\$130.00	4128	\$322,010.00	2477	\$134,160.00	1032	\$80,470.00	619	
21	Sr PM Low Voltage		\$919,512.00		\$919,512.00	\$198.00	4644	\$551,707.20	2796	\$229,876.00	1161	\$137,926.80	697	
22	LS SME Proposed Rate		\$0.00		\$0.00	\$154.00	4128							
23	Cost and Change Engineer Actual (LS SME)		\$569,684.00		\$569,684.00	\$138.00	4128	\$341,798.40	2477	\$142,416.00	1032	\$85,449.60	619	
24	Cost and Change Engineer Extension		\$593,400.00		\$593,400.00	\$138.00	4300					\$593,400.00	4300	
25	ORAT SME		\$196,768.00		\$196,768.00	\$176.00	1118	\$118,060.80	671	\$49,182.00	280	\$29,515.20	168	
26	Labor Escalator	\$531,996.00	\$0.00		\$0.00									
Subtotals		\$10,497,292.00	\$16,424,538.00	\$0.00	\$16,424,538.00			\$7,552,848.00		\$3,017,821.50		\$5,853,766.50		
Subconsultant NTE Fees														
27	PSA Subconsultant		\$3,089,071.14		\$3,089,071.14			\$1,853,442.68		\$772,267.79		\$463,360.67		
28	GCI Subconsultant		\$4,877,377.46		\$4,877,377.46			\$2,926,426.48		\$1,219,344.37		\$731,606.62		
29	Loyal Wingman		\$774,824.93		\$774,824.93							\$774,824.93		
30	Armons Rodrick		\$1,404,000.00		\$1,404,000.00							\$1,404,000.00		
31	Design and Stakeholder Management Director - AR	\$1,558,836.00	\$0.00		\$0.00									
32	Admin - Program - AR	\$471,968.00	\$0.00		\$0.00									
33	Hanson		\$430,922.70	\$327,969.40	\$758,892.10			\$525,917.80		\$232,974.30				BP-S00195 MEP Cx & Smoke Control Cx Scope Development
Subtotals		\$2,030,804.00	\$10,576,196.23	\$327,969.40	\$10,904,165.63			\$5,305,786.96		\$2,224,586.46		\$3,373,792.22		
Jacobs NTE Allowances														
34	Labor Escalator		\$1,192,734.00		\$1,192,734.00			\$715,640.40		\$298,183.50		\$178,910.10		
35	Vehicles	\$248,000.00	\$0.00		\$0.00									
36	Travel Reimbursement	\$250,000.00	\$0.00		\$0.00									
37	Office Supplies	\$7,750.00	\$0.00		\$0.00									
38	Partnering	\$50,000.00	\$0.00		\$0.00									
39	Other Services/consultants	\$150,000.00	\$79,885.02	(\$79,885.02)	\$0.00			\$0.00		\$0.00		\$0.00		Reallocation of Allowance for BP-S00195 MEP Cx & Smoke Control Cx Scope Development (see Line 33)
40	Airfield Program Coordination		\$0.00		\$0.00									
Subtotals		\$705,750.00	\$1,272,619.02	(\$79,885.02)	\$1,192,734.00			\$715,640.40		\$298,183.50		\$178,910.10		
Jacobs NTE Expenses														
41	Vehicle		\$387,000.00		\$387,000.00			\$232,200.00		\$96,750.00		\$58,050.00		
42	Office Supplies		\$13,175.00		\$13,175.00			\$7,905.00		\$3,263.75		\$1,978.25		
43	Travel		\$250,000.00		\$250,000.00			\$150,000.00		\$62,500.00		\$37,500.00		
44	Partnering		\$0.00		\$0.00			\$0.00		\$0.00		\$0.00		
Subtotals			\$650,175.00	\$0.00	\$650,175.00			\$390,105.00		\$162,543.75		\$97,526.25		
Subconsultant NTE Expenses														
45	GCI Subconsultant		\$60,000.00		\$60,000.00			\$36,000.00		\$15,000.00		\$9,000.00		
46	Loyal Wingman		\$200,000.00		\$200,000.00							\$200,000.00		
47	UES Gates		\$464,955.03		\$464,955.03			\$464,955.03						
48	UES GTF		\$291,011.25		\$291,011.25					\$291,011.25				
Subtotals			\$1,015,966.28	\$0.00	\$1,015,966.28			\$900,955.03		\$306,011.25		\$209,000.00		
TOTALS		\$13,233,846.00	\$29,939,494.53	\$248,084.38	\$30,187,578.91			\$14,465,335.39		\$6,009,246.46		\$9,712,997.07		

June 21, 2024

(Via email to david.grauvogl@jacobs.com)

Mr. David Grauvgogl
Jacobs
Program Manager
200 South Orange Avenue
Orlando, FL 32801

Re: Commissioning Services Proposal
GOAA South Terminal C Phase 1x MEP Commissioning
Hanson # 23A1058AP

Dear David:

Hanson Professional Services Inc. (Hanson) is pleased to provide this proposal for professional Commissioning (Cx) services associated with the expansion of the South Terminal C Airside that adds four new gates that use multiple aircraft ramp systems as well as the connector ramp.

Enclosed, please find the following Attachments related to our proposal.

- Attachment A – Project Scope of Services
- Attachment B – Charges for Services
- Attachment C – Basis of Payment for Additional Services
- Attachment D – Subconsultant Proposal

Please review the enclosed attachments and contact me with any questions or if you require additional backup information. We look forward to working with you and appreciate the opportunity to be of service.

Sincerely,

HANSON PROFESSIONAL SERVICES INC.



Wade H. Conlan, P.E., CxA, BCxP, LEED AP
Assistant Vice President
Commissioning and Energy Discipline Manager

Attachments (as noted)
cc: Dave Poole / Hanson File

Hanson Professional Services Inc.
Hanson No. 23A1058AP
Attachment A - SCOPE OF SERVICES

Agreement Date: June 21, 2024

Project: GOAA South Terminal C Phase 1x MEP Commissioning

PROJECT DESCRIPTION:

This project involves commissioning (Cx) of the expansion to the airside gates for the South Terminal C for the MEP systems and then commissioning for smoke evacuation.

For the Phase 1X Expansion, the Architect of Record is HNTB in Lake Mary, Florida, the MP engineer of record is Syska Hennessy Group in Culver City, CA, and the Electrical engineer of record is Matern in Maitland, FL. This project is not pursuing any sustainability certifications. The project schedule, per the Hensel Phelps schedule, dated November 27, 2023, indicates that construction is underway, and that permanent power is to be in June of 2025, commissioning of systems to be in the summer of 2025 and that final life safety systems inspections by the city will be in December of 2025. The drawings used to create this proposal are the Conformed Drawings dated November 1, 2022. The specifications for commissioning are dated November 1, 2022.

Hanson is utilizing one sub-consultant for this effort. Howe Engineering will be the building smoke evacuation commissioning provider. Their task is to create a scope of work for later use.

Hanson's commissioning methodology conforms to ASHRAE Guidelines 0-2019 and 1.1-2007 and Standard 202-2018. In addition, Hanson subscribes to the recommended practices of the AABC Commissioning Group (ACG) and the Building Commissioning Association (BCA). Hanson is an ACG certified commissioning provider firm.

Hanson uses CxAlloy as the commissioning documentation database that includes the Functional Performance Tests as well as the commissioning issues.

BASIC SERVICES

Phase 1X MEP Commissioning

The systems and sub-systems to be commissioned for this project are expected to be approximately as follows:

HVAC Equipment	Quantity
CHW- VAV Air Handling Unit with Elect Heat	5
CHW VAV Air Handling Unit - NO Heat (serving VAVs)	7
DOAS Unit with CHW CC and Energy Wheel	3
CRAC Unit - CHW Only	9
CRAC Unit with DX Backup	14
Inline CHW Circulator for CRAC DX Backup	14
CHW Fan Coil Unit with Elec Heat (Note 1)	18 of 35
VAV with Electric Heat (Note 1)	8 of 17
VAV-D (Note 1)	12 of 23
CAV with Electric Heat (Note 1)	5 of 9
Electric Duct Heater	23
General/Toilet Exhaust Fans	16
Smoke Exhaust Fans (Connection to BAS ONLY)	5
Return Air Fans	6
High Volume Low Speed Fan	6
Electric Unit Heater	4
PCA Chiller	1
PCA CHW Pump	1
PCA CW Pump	1
PCA Heat Exchanger	3
PCA Refrigerant Monitoring/Alarm System	1
PCA Refrigerant Purge Exhaust Fan	1
PCA Refrigerant Purge Make-Up Air Supply Fan	1
PCA Packaged Make-Up Water Unit	1
PCA Air Separator	1
PCA Expansion Tank	1
BAS	1
Plumbing Equipment	Quantity
Instantaneous Electric Water Heater	2
Tank-Type Electric Water Heater	3
DHW Circulator Pump for Tank Type WH	6
Elevator Sump Pump	10
Note 1: The quantity of items to be Functionally Performance Tested is listed as (# of X). X is the total number of items and the # represents the quantity to be tested.	
Note 2: This item only has a checklist. There are no Functional Performance Tests for this equipment.	

Table 1- Equipment to be Commissioned.

Lighting Systems Equipment	Quantity
Lighting Controls - Occupancy Sensor (Note 1)	39 of 77
Exterior Lighting Controls	1
Electrical Systems Equipment	Quantity
Main Switchboard (Note 2)	4
UPS	8
Distribution Panels - Normal (Note 2)	64
Distribution Panels - Emergency (Note 2)	111
Grounding	1
Power Quality Monitoring System	1
Transformer (Non-Utility) (Note 2)	25
Lightning Protection	1
Note 1: The quantity of items to be Functionally Performance Tested is listed as (# of X). X is the total number of items and the # represents the quantity to be tested.	
Note 2: This item only has a checklist. There are no Functional Performance Tests for this equipment.	

Table 1- Equipment to be Commissioned. (Continued)

Phase 1X MEP Design Phase

This Phase is complete and there is no work to be done by the Commissioning Provider (CxP). Also, there are no requirements for Design Phase commissioning per C408 of the Florida Energy Conservation Code.

Phase 1X MEP Construction Phase

Commissioning during the construction phase is intended to provide the Owner and Users with an understanding that the project requirements, as defined by the contract documents, are met and to achieve the following specific objectives. The CxP shall complete the following tasks during the construction phase:

- Familiarity review of the construction documents. The intent is to review the plans and specifications to understand the intent of the Design Team.
 - There will be no anticipated commissioning comments, other than on the Commissioning Specifications, or review meetings for this familiarity review.
- Provide mark-ups on the Commissioning Specifications to align with the approved scope with the CxP and Owner to align with the accepted scope of work for commissioning.
- Prepare and distribute the draft Commissioning Plan. Maintain and update the Cx Plan throughout the course of the project.
- Conduct a Cx Kick-off/partnering meeting with the Construction Team to discuss Cx scope, plan, and schedule.
- Coordinate the Commissioning work with the Contractor; and verify that commissioning activities are being scheduled into the master schedule.
- Review contractor submittals applicable to systems being commissioned to develop Component Verification Checklists (CVCs) and Functional Performance Tests (FPTs). Our

proposal includes an initial review of the submittals / shop / coordination drawings, after review by the design team (architect / engineer), and one re-submittal. Review of additional re-submittals is excluded from our proposal, but will be performed on an hourly basis, if required.

- Lead a Controls Integration and Interoperability meeting to coordinate controls (communication, graphics, etc.) between the project team.
- Review the Contractor prepared Training Plan for training the Owner's Operations and Maintenance (O&M) staff.
- Create CVCs to be completed by the contractors. Checklists will be based on accepted submittals by the designer of record.
- Attending periodic OAC meetings for review of progress, coordination, and issues resolution. Hanson has assumed thirty (30) OAC meetings attended virtually.
- Perform periodic site observation during rough-in of systems and equipment, to be commissioned. Hanson has assumed that there be no more than twenty-four (24) two-hour visits for site observation. Site observation reports will be issued after each visit.
- Maintain a Cx Issues Log of items identified as potential problems, poorly installed, or issues identified through the Cx process. It is assumed that issues identified during the design and all phases of construction will be tracked in CxAlloy.
- Lead Commissioning meetings for review of progress, coordination, and issues resolution. Hanson has assumed twenty (20) one-hour virtual meetings in addition to thirty (30) one-hour in-person meetings.
- Attend duct testing procedure meeting and observe sampled duct pressure tests. The CxP does require copies of all completed (and passed) pressure tests for the Cx files.
- Attend pipe flushing procedure meeting and observe sampled pipe flush tests. The CxP does require copies of all completed (and passed) flushing tests for the Cx files.
- Assist contractors in development of the start-up plans and review of their proposed documentation.
- Review Start-up forms from the major pieces of equipment.
 - Hanson has assumed witnessing of equipment start-up is not required. The CxP does require copies of all completed (and passed) start-up forms for the Cx files.
- Review the TAB Contractor prepared TAB Execution plan.

Phase 1X MEP Acceptance Phase

Commissioning during the acceptance phase is intended to demonstrate the performance of the equipment and systems installed during the construction phase meet the requirements of the Contract Documents. The CxA will complete the following tasks during the acceptance phase:

- Coordinate with the Contractor regarding schedule throughout construction.
- Develop functional performance test (FPT) procedures and submit for comments from the Project Team. FPT procedures (scripts) should include each step in the sequence of operations under central and packaged equipment control, including startup, shutdown, capacity modulation, emergency and failure modes, alarms and interlocks to other equipment.
- Review and verify (through random sampling) the final (Engineer of Record accepted) Test and Balance (TAB) report. Hanson has assumed that this will be no more than one (1) person day on site.
- Provide the code required report for TAB Process.
- Witness functional testing of equipment identified earlier in this scope (in the project description) to demonstrate that the piece of equipment and the system are operating according to the Design Intent and contract documents. Functional testing shall include operating the system and components through each of the written sequences of operation (actual operation of equipment is to be performed by Contractor).

- Hanson has assumed thirty-one (31) person days of testing on site.
- Hanson has assumed five (5) person day on site for FPT re-testing.
- If re-tests are required for a specific system, or re-tests exceed the noted allowance; time spent by Hanson to direct and witness additional testing will only be performed on a time and materials basis, at the Contractors expense, as approved by the Owner.
- Provide troubleshooting to assist in resolving control problems, as they are uncovered. Functional testing shall be performed on control points.
- Keep a log of functional tests performed on each system.
- Update Cx Issues Log of any items found to be a problem during FPT testing.
- Review Operation and Maintenance manuals prepared by the contractors and related subcontractors, and provide comments to the A/E & Owner.
- Review the equipment warranties for clearly document responsibilities of the Owner.
- Review the training plan with the contractors, who will coordinate the schedule for training sessions with the Owner's facility staff. Verify that the requirements for training the Owner's O&M personnel are completed. Include verification documentation in the final Commissioning Report. Hanson has assumed attendance at representative M/E/P systems training sessions, not to exceed 4 hours of training time, for the O & M personnel, based on the schedule and curricula issued.
- Prepare and submit an electronic (pdf) copy and post to the CxAlloy, of the Preliminary reports, as required by Florida Building Code.
- Prepare and submit an electronic (pdf) copy and post to the CxAlloy, of the Final Commissioning Report, as required by Florida Building Code.
- Prepare a Systems Narrative in alignment with the FBC C408. This is not a Systems Manual as defined by ASHRAE Std 202.

Phase 1X MEP Post Acceptance (Occupancy and Operation) Commissioning

- Creation of a Systems Manual for the facility for the systems and equipment commissioned. This systems manual will align with ASHRAE Standard 202 and is more detailed and informative than the Systems Narrative required by FBC.
- Provide a two-hour virtual training course for facility staff based on the Systems Manual.
- Obtain the Contractor Maintained records of Owner Training. This shall include the schedule of training, as well as the sign-in sheets and course syllabus for each training session.
- Lead warranty meetings for the first year of operation. This would include monthly phone calls to review open issues, assumed to be no more than one (1) hour virtually.
- Perform warranty walk through of the facility near the 10-month mark to identify items that could be corrected through warranty on equipment. This would be a single 3-hour meeting on site.

SERVICES FROM SUB-CONSULTANTS

Phase 1X Smoke Evacuation Commissioning

Please note, Hanson has included these services from sub-consultants at the direction of the Owner. Please see the attached proposal for those services. Hanson will assist in program management for these services.

Qualifications:

The Scope of Services specifically excludes the following:

- a. Acting as Engineer-of-Record for the design of any building systems associated with this project. In addition, generation of construction documents associated with the design and layout of systems for this facility is excluded from our work.
- b. Commissioning of any other building systems and/or components, beyond those specifically denoted above. Specifically, elevator(s), telecommunications / data systems, security systems, fire pump and fire suppression systems, vibration analysis of equipment, radiographic (welding) inspections, witnessing of air leakage and hydrostatic testing of ductwork and piping, and infrared testing of switchgear are not included under the Base Bid proposal.
- c. Full time construction observation. Hanson's field visits shall be related to Cx activities and tasks, including verification of system installation and functional performance testing.
- d. Directing work by the Contractor. Hanson has no authority to direct work by the Contractor, issue change orders, or answer Requests for Information (RFIs).
- e. Construction inspection and/or supervision. Services performed by Hanson during construction will be limited to providing contractual commissioning activities and dealing with questions by the Contractor's representative concerning conformance with the Contractor's performance requirements, basis of design documents, drawings and specifications. This activity is not to be interpreted as an inspection service, a construction supervision service, or guaranteeing the Contractor's performance. Hanson will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs.
- f. Detailed code review of documents. Contractor / Client agrees that Hanson's review of drawings, specifications, and other contract documents, shall be solely for their general conformance with the Project's design intent.
- g. Complete verification and testing of all sub-systems. Verification and testing of similar types of sub-system HVAC equipment may employ a sampling strategy, as is typically utilized in functional performance testing for commissioning.
- h. All reports and documents will be provided electronically. There will be no printed reports or documents provided by Hanson.
- i. Development and maintenance of Owner's Project Requirements.
- j. Systems which are **excluded** from this commissioning effort include:
 - Security / Access Control / Video Surveillance
 - Tenant / Concession Kitchen Equipment
 - Baggage Handling Equipment
 - TSA Screening Equipment
 - Lightning Protection System
 - Aircraft Fueling Systems
 - Visual Docking Guidance System
 - Public address (PA) systems
 - Telephone, Data, DAS, and Wi-Fi
 - Elevators
 - Escalators
 - People Movers
 - Smoke Control System Operation for Code (Only Connection to BAS is Included)
- k. Acting as code-required Special Inspector for applicable systems, such as Smoke Control.

Client / Contractor Obligations:

1. Client agrees to provide copies of available documents (contract drawings, product data submittals, shop drawings, etc.) depicting equipment and systems involved with this project, to assist Hanson in the development of checklists and functional performance test procedures.
2. Project Manager shall share proposed schedule (electronic and hard copy) for sequence of construction, system start-up, test & balance and training activities, so such activities can be incorporated into the Cx Plan.
3. The Owner, contractors, A/E team and Subcontractors agree to utilize the cloud-based Cx web application, CxAlloy for tracking and responding to issues on the project.
4. Contractor and Equipment supplier/vendor will provide all required test equipment and operational/support equipment needed for system start-up, and functional performance testing.
5. The contractor and/or subcontractors shall provide Hanson access to Contractors' staging equipment (lifts, scaffolding, ladders, etc.) for testing purposes; and shall cooperate and assist the CxA in setting up testing apparatus, as required.
6. System Test & Balance shall be performed by others; specifically qualified T&B professionals, experienced in the balancing of similar type systems and members of AABC or NEBB.

Hanson Professional Services Inc.
Hanson No. 23A1058AP
Attachment B - CHARGES FOR SERVICES

Agreement Date: June 21, 2024

Project: GOAA South Terminal C Phase 1x MEP Commissioning

BASIS OF CHARGES:

Basic Services- Fundamental Commissioning

Charges for professional services performed by our firm for all services listed in the SCOPE OF SERVICES for Commissioning tasks will be made on a lump sum of for direct labor and expenses for the project as noted in the table below:

Phase 1X MEP Systems	Fee (\$)
MEP Design Phase	\$ 0.00
MEP Construction Phase	\$ 157,578.50
MEP Acceptance Phase	\$ 119,966.40
MEP Post-Acceptance Phase	\$ 24,214.50
Management Smoke Scope Development (Howe)	\$ 1,036.00
Total	\$ 302,795.40

Phase 1X Smoke Evacuation	Fee (\$)
Howe Engineering Scope Development	\$ 25,174.00
Total	\$ 25,174.00

Project Total	\$ 327,969.40
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Billings will be issued monthly based on the percentage of hours expended, including expenses incurred at the time of billing.

Hanson Professional Services Inc.

23A1058 GOAA STC Ph 1 X Cx Bld MEP

		PIC	PM	QA/QC	Sen CxA	Cx Speciali Elec		Admin		
Totals →		\$ 302,795.40	0.5	146.0	60.7	290.5	463.5	345.0	330.0	9.0
Click here for Help inserting rows		Labor	Principal	SnProj	MQR	SenCxA	CxA	CxS	CxA	Sadmin
\$		355.00	191.00	272.00	259.00	186.00	100.00	186.00	99.00	

Task # Task Description

Design Phase	\$ -	-	-	-	-	-	-	-	-
Construction Phase - 1X	\$ 157,578.50	0.5	66.0	41.0	183.0	197.5	122.0	199.0	3.0
101 Project Start-Up	\$ 665.50	0.5	1.0						3.0
102 Familiarity Review of Drawings and Specs	\$ 4,632.00			1.0	8.0		8.0	8.0	
103 Cx Specs - Mark Up and Provide	\$ 1,439.00			0.5	1.0		3.0	4.0	
104 Cx Plan	\$ 994.50				0.5	0.5	4.0	2.0	
105 Cx Kick-Off Meeting / Prep inc travel	\$ 1,690.00			0.5	6.0				
106 CDM	\$ 1,730.00					1.0	8.0	4.0	
107 Schedule with Contractor	\$ 1,970.00			0.5	2.0	2.0	2.0	4.0	
108 Submittal Reviews	\$ 9,132.00			2.0	4.0	16.0	16.0	16.0	
109 Controls Integration Meeting - on site	\$ 2,208.00			0.5	8.0				
110 Review Contractor Training Plan	\$ 744.00					2.0		2.0	
111 Create CVCs	\$ 12,420.00			0.5	8.0	16.0	24.0	26.0	
112 OAC Mtg - 30 virtual	\$ 7,605.00				15.0	10.0		10.0	
113 Site Observations - 24 at 2 hours on site	\$ 21,930.00				30.0	30.0	30.0	30.0	
114 Issues Log	\$ 6,392.00			2.0	8.0	8.0	8.0	8.0	
115 Cx Meetings - 20 virtual	\$ 7,763.00			4.0	15.0	15.0			
116 Cx Meetings -30 in person	\$ 39,492.00			6.0	60.0	60.0		60.0	
117 Duct Pressure Testing - on site 1 day	\$ 1,674.00					9.0			
118 Pipe Flush - on site 1 day	\$ 1,674.00					9.0			
119 Assist in Start-up plans	\$ 1,883.00			0.5	1.0	2.0		6.0	
120 Review Start-up forms	\$ 1,645.50				0.5	2.0	4.0	4.0	
121 no witness	\$ -								
122 Review TAB Execution Plan	\$ 259.00				1.0				
123 Badging / Contractor Safty Requirements	\$ 15,045.00			15.0	15.0	15.0	15.0	15.0	
124 CxAlloy	\$ -								
125 PM	\$ -								
126	\$ 14,591.00		65.0	8.0					
160	\$ -								
Acceptance - 1X	\$ 119,966.40	-	63.0	13.7	74.0	234.0	189.0	120.0	3.0
161 Schedule with Contractor	\$ 3,196.00			1.0	4.0	4.0	4.0	4.0	
162 Create FPTs	\$ 13,672.00			1.0	8.0	24.0	24.0	24.0	
163 TAB verification - 1 day	\$ 1,674.00					9.0			
164 Create TAB report for Code	\$ 408.90		0.5	0.2	1.0				
165 Witness FPTs - 31 days	\$ -								
166 MP	\$ 33,848.00				24.0	112.0	68.0		
167 E	\$ 8,640.00						12.0	40.0	
168 travel	\$ 5,869.00				3.0	14.0	10.0	8.0	
169 Notes	\$ 2,800.00		2.5	2.0	3.0	3.0	3.0	4.0	
170 Retest - 5 days	\$ 6,648.00				8.0	16.0	16.0		
171 travel	\$ 831.00				1.0	2.0	2.0		
172 Notes	\$ 545.00				1.0	1.0	1.0		
173 Troubleshooting Help	\$ 2,814.00			0.5	2.0	4.0	3.0	6.0	
174 Isseus log update	\$ 1,970.00			0.5	2.0	2.0	2.0	4.0	
175 Review O&M manuals	\$ 2,017.50				0.5	4.0	4.0	4.0	
176 Review the Equipment Warranties	\$ 1,645.50				0.5	4.0	4.0	2.0	
177 Review Training Plan	\$ 1,026.00			0.5	2.0			2.0	
178 Observe Training	\$ 1,674.00					9.0			
179 Gather Materials	\$ 1,403.00				1.0	2.0	4.0	2.0	
180 Preliminary Cx Report	\$ 4,321.00			1.0	2.0	8.0	12.0	4.0	1.0
181 Final Cx Report	\$ 8,606.00			1.0	8.0	12.0	16.0	12.0	2.0
182 Systems Narrative per Code	\$ 1,598.00			0.5	2.0	2.0	2.0	2.0	
183 Badging Time	\$ 2,006.00			2.0	2.0	2.0	2.0	2.0	
184 CxAlloy	\$ -								
185 PM	\$ 12,753.50		62.5	3.0					
220	\$ -								
Post Occupancy - 1X	\$ 24,214.50	-	13.0	5.0	33.5	32.0	34.0	11.0	3.0
221 Create Systems Manual	\$ 9,731.00			1.0	6.0	20.0	24.0	8.0	3.0
222 two hour in-person training on SM	\$ 1,295.00				5.0				
223 Training Records	\$ 1,245.00				1.0		8.0	1.0	
224 Lead monthly warranty meetings - 2 virtual	\$ 5,587.10			1.8	12.5	10.0			
225 Warranty Walk and meeting - 3 hour	\$ 1,867.40			0.2	7.0				
226 Badging Time	\$ 2,006.00			2.0	2.0	2.0	2.0	2.0	
227 CxAlloy	\$ -								
228 PM	\$ 2,483.00		13.0						
229	\$ -								
280	\$ -								
Howe Smoke Evacuation	\$ 1,036.00	-	4.0	1.0	-	-	-	-	-
701 SubConsultant FEE (in proposal)	\$ -								
702 Program Management	\$ 1,036.00		4.0	1.0					

Hanson Professional Services Inc.
Hanson No. 23A1058AP
Attachment C – Basis of Payment for Additional Services

Agreement Date: June 21 2024

Project: GOAA South Terminal C Phase 1x MEP Commissioning

Engineer/Architect/Scientist Positions:

Principal	\$ 355.00
Senior Commissioning Authority	\$ 259.00
Senior Project Manager	\$ 191.00
QA/QC Reviewer	\$ 272.00
Commissioning Authority	\$ 186.00
Senior Commissioning Specialist	\$ 149.00
Commissioning Specialist	\$ 100.00

Administrative:

Senior Administrative	\$ 99.00
Administrative	\$ 77.00

1. Charges for special services, expert testimony, etc., will be negotiated.
2. The above rates cover straight time only. Overtime directed by the client will be surcharged by 25 percent.
3. Services will be billed monthly and at the completion of the project. There will be an additional charge of 1 1/2 percent per month compounded monthly on amounts outstanding more than 30 days.
4. Rates are subject to change and will be superseded by a new rate schedule on or about January 1 of each year during the duration of the services agreement.

Hanson Professional Services Inc.
Hanson No. 23A1058AP
Attachment D – Subconsultant Proposal

Agreement Date: June 21, 2024

Project: GOAA South Terminal C Phase 1x MEP Commissioning

141 LONGWATER DRIVE, SUITE 110
NORWELL, MA 02061
781.878.3500
MAY 22, 2024
(Revised June 6, 2024)

HOWE ENGINEERS

LIFE SAFETY EXPERTS

Hanson Professional Services, Inc.
2300 Maitland Center Pkwy, Suite 310
Maitland, FL 32751

Orlando Airport P1X Expansion Smoke Control Interim Support Code and Life Safety Consulting Services

Professional, accomplished, and collaborative. As fire protection engineers, our business is life safety. Your business is our priority.



WWW.HOWENGINEERS.COM

Howe Engineers, Inc. is pleased to present this proposal to Hanson Professional Services, Inc. to provide Interim Support Services for the Smoke Control Special Inspections for the Orlando Airport P1X expansion project in Orlando, Florida. This proposal provides general code consulting services only.

As you may know, our firm has extensive experience in the large-scale airport market in Florida and throughout the United States, including experience at Orlando Airport. As a result, we have a thorough understanding of this building type and understand what aspects of the code need to be applied to help you achieve your design and aesthetic goals. Furthermore, we have licensed Fire Protection Engineers in Florida and have experience with the state and local process with the State Fire Marshal. We feel our combination of experience, innovative solutions, and comprehensive understanding of this building type will make us a helpful addition to the design team.

Please review the enclosed information and don't hesitate to contact our office if we can provide any additional information. We would be happy to revise and amend the proposal to meet your needs and expectations.

1. BASE SCOPE OF SERVICES

The Base Scope of Services to be provided by Howe Engineers, Inc. for the referenced project is as follows:

General Code Consulting Services

- A. Provide general code consulting via email, web meetings and conference calls. This time will be spent addressing and responding to design team questions regarding interim smoke control special inspection services. A Separate Additional proposal for testing services will be provided at a later date when scope of work is fully defined.
- Assumes up to 114 hours of general consulting during the Interim Support process.
 - May include up to one meeting or site visit for one engineer.

2. CLIENT'S RESPONSIBILITIES AND ASSUMPTIONS

This proposal is based on the following items being provided by the architect:

- Provide copies of up-to-date drawings and specifications for the project from all disciplines, as requested by Howe Engineers.
 - Provide Revit 2024, Auto CAD 2024 3D or compatible electronic files and backgrounds in a timely manner in advance of project deadlines.
- This proposal is based on a standard code compliance review from the City and State Agencies. This proposal does not include additional time and consultation for a 3rd Party Peer Review. If a 3rd Party Peer Review is required, Howe Engineers may require additional services for the additional consultation time required to address peer review technical moments.
- Howe Engineers, Inc. may use all information, requirements, reports, data, surveys, plans, CAD/Revit documents, electronic files and instructions required by this agreement in performing its services and is entitled to rely upon the accuracy and completeness thereof.
- This scope of services does not include reevaluating the existing building outside of the scope of work area.

3. PROFESSIONAL FEE

The fee for Howe Engineers Base Scope of Services will be based on the fixed fees identified below, unless otherwise noted. Howe Engineers fee shall be paid monthly in proportion to the percentage or work complete.

Base Code Consultation Services

Professional fee for Basic Services Code Consulting is listed in the table below:

Orlando Airport Interim Support Code Consulting Services Scope of Work	Principal Hours	Assoc. Principal Hours	Project Manager Hours	Professional Fee
General Code Consulting	50	40	24	\$25,174
Total for Code Consulting Services				\$25,174

4. BILLING RATES

The current billing rates per employee for the year 2024 are:

TITLE	RATE
Principal/Partner	\$267/hr.
Associate Principal	\$205/hr.
Project Director	\$178/hr.
Project Manager	\$151/hr.
Senior Engineer	\$134/hr.
Fire Protection Consultant	\$94/hr.
Staff Fire Protection Engineer	\$41/hr.

5. ADDITIONAL SERVICES

If agreed to in writing by the Architect and Howe Engineers, Howe Engineers shall provide Additional Services. Additional Services are not included as part of the Base Scope of Services and shall be paid for by the Architect in addition to payment for Basic Services. The fees for any additional services will be set in a separate proposal if not identified within this section below.

Additional services may include additional consultation, travel, meetings, additional site visits, attendance at board of appeals meetings, construction administration not described in the scope of work, accessibility advocate consultation (ADA), alternative design methods requiring special approval by the City officials (i.e., variances, equivalencies), Board of Standards and Appeals, System design, site specific studies, site water supply analysis, flow testing, witnessing and testing of fire protection systems during construction administration, and consultation not outlined in the scope of services.

6. TERMS AND CONDITIONS

- This proposal is limited to the services described herein being provided to Hanson Professional Services, Inc.. Any services not described herein requested to be performed by the architect will be considered additional services in accordance with Section 6.
- Howe Engineers reserves the right to assign their employees and engineers on an as available basis.
- All invoices submitted by Howe Engineers to Hanson Professional Services, Inc. must be paid in full within 100 days. If invoices are not paid in full within 120 days, Howe Engineers reserves the right to stop all consulting services until invoices are paid.
- This proposal is valid for 30 days.

The client agrees to the fullest extent permitted by United States law, to indemnify and hold Howe Engineers and its employees harmless from any damage, liability or costs including reasonable attorney fees, or cost of defense to the extent caused by the client and their employees and agents and third party negligent acts, errors or omissions and those of his or her contractors, subcontractors or anyone for whom the contractor is legally liable, and arising from the project that is subject of this agreement. Howe Engineers is not obligated to indemnify the contractor, client, or owner in any manner whatsoever for the contractors, clients, or owners own negligence.

7. LIMITATION OF LIABILITY

In recognition of the relative risks and benefits of the project to both the Client, contractor and the owner and the subcontractor known as Howe Engineers, the risks have been allocated such that the Contractor agrees to the fullest extent permitted by law, to limit the liability of Howe Engineers and his or her sub consultants to the Contractor and to all contractors and subcontractors on the project for any and all claims, losses, costs, damages of any nature whatsoever or claims and expenses from any causes or causes so that the aggregate liability of Howe Engineers, Inc. and its sub consultants shall not exceed \$1,000,000.00 or the professional fee of this proposal, whichever is less. Such claims and clauses include but are not limited to negligence, professional errors or omissions, and strict liability.

8. APPLICABLE LAW

This agreement shall be constructed with the Laws of the United States of America and the State of Massachusetts. Any disputes arising under this agreement shall be under the jurisdiction of the courts of the State of Massachusetts.

9. INQUIRIES

If there are any questions on this proposal, interested parties should contact Andrew Newman, P.E. by telephone (781) 878-3500, by fax (781) 878-3551 or by email Andrew@Howeengineers.com. All inquiries will be answered within 24 hours.

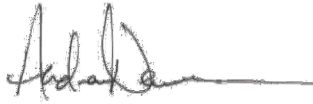
By signing this proposal, the Architect has read, understands, and agrees to all of the terms and conditions of this proposal. By providing a signature below, the Architect agrees to and confirms approval of Howe Engineers proposed base scope of work identified herein.

This agreement may be accepted by signing in the space provided below and returning a signed



copy of this proposal.

Submitted by,
Howe Engineers, Inc.



Andrew Newman, P.E.
Principal

Accepted by,
Hanson Professional Services, Inc.

Signature: _____
Name/Title: _____
Date: _____

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 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 (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 Aviation Authority, whichever is later.

Consultant HANSON PROFESSIONAL SERVICES, INC.

By: [Signature]

Print Name: WADE H CONLAN

Date: JUNE 11, 2029

MEMORANDUM

TO: Members of the Construction Committee

FROM: Edelis Molina, Manager Small Business Programs

DATE: July 16, 2024

ITEM DESCRIPTION

Request for Approval of an Amendment to Addendum No. 3 to the Executive Program Management and Oversight Services for Terminal C Programs Agreement with Jacobs Project Management Co. to provide Mechanical, Electrical and Plumbing ("MEP") Commissioning ("Cx") and Smoke Control Cx Scope Development Services for Terminal C Programs (W-S00149), Terminal C ASC Gates 250-253 project (BP-S00195) at the Orlando International Airport

SMALL BUSINESS

We have reviewed the qualifications of the subject contract's MWBE/LDB/VBE specifications and determined that Jacobs Project Management Co. does not propose small business participation on this amendment.