

**ADDENDUM NO. 1
TO THE AGREEMENT DATED JUNE 30, 2023
BETWEEN GREATER ORLANDO AVIATION AUTHORITY
AND AVCON, INC.**

Project: Design and Bid Phase Services for W-447 Overhead Signage Variable Message Sign, Orlando International Airport

THIS ADDENDUM is effective this 2nd day of April, 2024, by and between the **GREATER ORLANDO AVIATION AUTHORITY** ("Aviation Authority"), and **AVCON, INC.** ("Consultant").

WITNESSETH:

WHEREAS, by Agreement dated June 30, 2023, Aviation Authority and Consultant entered into an agreement for Consultant to provide Roadway Signage & Infrastructure Designer 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 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 Aviation 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 ONE HUNDRED TWENTY-EIGHT THOUSAND FOUR HUNDRED SEVENTY-SEVEN AND NO/100 DOLLARS (\$128,477.00)**, broken down as follows:

Professional Fees:	NTE:	\$123,904.00
Professional Fees:	LS:	\$0.00
Reimbursable Expenses:	NTE:	<u>\$4,573.00</u>
Total:		\$128,477.00

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. Aviation 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, Aviation 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 June 30, 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 Addendum this day of Apr 30, 2024.

GREATER ORLANDO AVIATION AUTHORITY




By: 

Max Marble
Sr. Vice President, Capital Programs

**Approved as to Form and Legality
(for the benefit of GOAA only)
this day of Apr 29, 2024**



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

AVCON, INC.



By: 

Signature (Duly Authorized Rep.)

Sandeep Singh

Printed Name

President

Title

MEMORANDUM

TO: Members of the Construction Committee

FROM: Bradley Friel, Senior Vice President of Multi-Model Planning and Environmental

DATE: April 2, 2024

ITEM DESCRIPTION

Request for Approval of an Addendum to the Continuing Engineering and Design Services Agreement with AVCON, Inc. for Design and Bid Phase Services for W-00447 Overhead Signage Variable Message Sign at the Orlando International Airport.

BACKGROUND

This signage design project will provide a digital variable message board on Heintzelman Blvd. which will be a full span tri-cord truss incorporating a maintenance platform for overhead maintenance of the newly specified digital sign. This maintenance platform will eliminate lane closures for any service or maintenance of the digital sign moving forward. Structural components, digital sign manufacturing specifications, fiber connections and power requirements will need to be coordinated by AVCON. There will be numerous design and technical meetings with GOAA IT, Planning and Electrical as well as OUC to provide a 100% bid set. The intent is to implement this new design and technology with other GOAA roadway signs to alleviate the requirement to physically update signage graphics.

ISSUES

Consultant’s proposal, dated March 20, 2024, is to provide design, specifications, an engineer’s estimate, and bid & award services for the above-mentioned project. Due to the new technology being implemented, AVCON will provide 30%, 60%, 95% and Bid documents for GOAA review and acceptance.

If approved, services will 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: _____

SMALL BUSINESS

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

ALTERNATIVES

None.

FISCAL IMPACT

Funding is from previously approved General Airport Revenue Bonds and FDOT. Funding source verified by *Melvin Martinez* of Construction Finance on 03 / 27 / 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee approve an Addendum to the Continuing Engineering and Design Services Agreement with AVCON, Inc. for the services contained herein and the amount as shown below:

Not to Exceed Fees	\$123,904.00
Lump Sum Fees	\$0.00
Not to Exceed Expenses	\$4,573.00
TOTAL	\$128,477.00
AAC – Compliance Review Date	<i>SJ</i> 03/26/24
AAC – Funding Eligibility Review Date	03/27/24

SUBJECT TO CFOC



March 20, 2024 R1
~~March 15, 2024~~

5555 E. Michigan St.
Orlando, FL, 32822
Phone: (407) 599-1122
www.avconinc.com

Mr. Don Corthell
PSA
Owners Authorized Representative (OAR)
Greater Orlando Aviation Authority
One Jeff Fuqua Boulevard
Orlando, FL 32827

**Reference: Professional Engineering Services Proposal
Design Contract No. W-00447 Overhead Signage Continuing Contract
Task Authorization No. 1
Construction Contract No. H-00360
Orlando International Airport**

Dear Mr. Corthell:

Based on discussion with GOAA staff and the OAR, AVCON is pleased to provide this proposal for engineering support to develop a plans and documentation package for the initial task for Overhead Signage Continuing Contract W-00447. The general scope of this task is to provide the design for an overhead truss sign structure. Sign locations are included as an attachment for reference.

The following scope of work is proposed:

Preliminary Design:

1. Attend a kickoff meeting with GOAA/OAR PM to evaluate all elements of the proposed scope of work. This meeting will ensure that all scope items are fully vetted and incorporated into the project.
2. Verify existing field conditions.
3. Attend coordination meetings and perform miscellaneous coordination.

Schematic Design 30%:

4. Perform general coordination and attend design review meetings.
5. Perform site visits.
6. Perform preliminary ITS & electrical design and coordinate with OUC.
7. Perform preliminary structural design.
8. Perform preliminary roadway, signing, & temporary traffic control plan (TTCP) design.
9. Develop electrical plans.
10. Develop structural plans.
11. Develop roadway, signing, and TTCP plans.
12. Develop design criteria and calculations.
13. Develop specifications.
14. Prepare cost estimate.

Design Development 60%:

15. Perform general coordination and attend design review meetings.
16. Perform utility coordination.



- a. Coordinate with sub-consultant sub-surface utility locates (SUE) to ensure that no utilities are in conflict with proposed sign foundation locations.
17. Update ITS and electrical design and coordinate with OUC.
18. Update structural design.
19. Update roadway, signing, & temporary traffic control plan (TTCP) design.
20. Complete electrical plans.
21. Complete structural plans.
22. Complete roadway, signing, and TTCP plans.
23. Complete design criteria and calculations.
24. Complete specifications.
25. Update cost estimate.

Construction Documents (95%):

26. Resolve 95% comments on drawings and specifications.
27. Prepare/reproduce/distribute bid documents.
28. Prepare/reproduce/distribute bid addenda.
29. Attend/minute pre-bid meeting.
30. Attend/minute bid opening.
31. Prepare bid tabulation/recommendation.

Geotechnical:

32. Obtain borings to support signage structural design.
 - a. See attached sub-consultant GEC proposal for additional information.

Assumptions:

- TTCP will include large scale graphic, notes, and typical sections only. No detailed TTCP plans sheets are required.
- Construction Administration is excluded from this scope of work and must be negotiated at a later date.

Based on this scope of work and the attached C-Tables fee breakdown, we have identified a total **Not-to-Exceed** fee of **\$123,904.00** and a NTE expenses **\$4,573.00** for a total of **\$128,477.00** for this assignment. GEC provides MWBE participation for this project.

Thank you again for the opportunity to serve you on this important project. We look forward with the Authority to its success.

Sincerely,

AVCON, INC.

A handwritten signature in blue ink, appearing to read "Clint Pletzer". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Clint Pletzer, P.E.
Director of Transportation

Enclosures

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-1
SUMMARY OF TOTAL CONTRACT VALUE

W-00447 Overhead Signage Task No. 1

Phase of Project:	Preliminary Design	Schematic 30%	Development 60%	Const. Docs. 95%	Bidding & Award	SUBTOTAL	Const. Admin.	Record Documents	TOTAL CONTRACT
1.0 Lump Sum Fee:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.0 Not to Exceed Reimbursable Fee:	\$4,560	\$25,863	\$54,769	\$18,582	\$20,130	\$123,904	\$0	\$0	\$123,904
3.0 Not to Exceed Reimbursable Expenses:	\$0	\$0	\$4,573	\$0	\$0	\$4,573	\$0	\$0	\$4,573
4.0 TOTAL CONTRACT VALUE:	\$4,560	\$25,863	\$59,342	\$18,582	\$20,130	\$128,477	\$0	\$0	\$128,477.00

Total Lump Sum Labor Hours:	0	0	0	0	0	0	0	0	0
Total Not to Exceed Reimbursable Labor Hours:	30	173	374	140	131	848	0	0	848
TOTAL LABOR HOURS:	30	173	374	140	131	848	0	0	848
Average Hourly Rate:	\$152.00	\$149.50	\$146.44	\$132.73	\$153.66	\$146.11	#DIV/0!	#DIV/0!	\$146.11

Notes:

1. The lump sum cells in Table C-1 are linked to Table C-2 values
2. The Not to Exceed cells in Table C-1 are linked to Table C-4 values
3. The linked cells are based on a maximum of 5 subconsultants; if more than 5 are included enter all values manually.

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-4
SUMMARY OF NOT TO EXCEED REIMBURSABLE FEES AND EXPENSES

W-00447 Overhead Signage Task No. 1

Phase of Project:	Preliminary Design		Schematic (30%)		Development (60%)		Const. Docs. (95%)		Bidding & Award		Const. Admin.		Record Documents		TOTAL		
	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Total Fee	labor hours	Cost	Avg. Rate
AVCON																	
Not to Exceed Reimbursable Fee	30	\$4,560	173	\$25,863	333	\$49,510	140	\$18,582	131	\$20,130	0	\$0	0	\$0	807	\$118,645	\$ 147.02
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
Sub-Total Designer	30	\$4,560	173	\$25,863	333	\$49,510	140	\$18,582	131	\$20,130	0	\$0	0	\$0	807	\$118,645	\$ 147.02
GEC																	
Not to Exceed Reimbursable Fee	\$0	\$0	\$0	\$0	41	\$5,259	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	41	\$5,259	128.268293
Not to Exceed Reimbursable Expenses		\$0		\$0		\$4,573		\$0		\$0		\$0		\$0		\$4,573	
Sub-Total Subconsultant No. 1	0	\$0	0	\$0	41	\$9,832	0	\$0	0	\$0	0	\$0	0	\$0	41	\$9,832	239.804878
ECHO																	
Not to Exceed Reimbursable Fee	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
Sub-Total Subconsultant No. 2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Subconsultant No. 3																	
Not to Exceed Reimbursable Fee	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
Sub-Total Subconsultant No. 3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Subconsultant No. 4																	
Not to Exceed Reimbursable Fee		\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
Sub-Total Subconsultant No. 4	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Subconsultant No. 5																	
Not to Exceed Reimbursable Fee		\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Not to Exceed Reimbursable Expenses		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
Sub-Total Subconsultant No. 5	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Total Not to Exceed Amount:	30	\$4,560	173	\$25,863	374	\$54,769	140	\$18,582	131	\$20,130	0	\$0	0	\$0	848	\$123,904	\$ 146.11
Total Not to Exceed Amount:	0	\$0	0	\$0	0	\$4,573	0	\$0	0	\$0	0	\$0	0	\$0	0	\$4,573	

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

W-00447 Overhead Signage Task No. 1

Position: AVCON, INC.	PRINCIPAL		SR. PROJECT MANAGER		PROJECT MANAGER		SR. PROJ. ENGINEER		PROJECT ENGINEER / DESIGNER		ENGINEER / DESIGNER		SR. CADD DESIGNER		CONTRACT ADMINISTRATOR		CLERICAL		TOTAL				
	\$284		\$269		\$215		\$177		\$128		\$107		\$118		\$106		\$81		labor hours	Cost	Avg. Hourly Rate		
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost					
Preliminary Design																							
Attend Kickoff Meeting	0	\$0	1	\$269	0	\$0	1	\$177	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2	\$446	\$223
Verification of existing conditions	0	\$0	1	\$269	1	\$215	1	\$177	4	\$512	5	\$535	0	\$0	0	\$0	0	\$0	0	\$0	12	\$1,708	\$142
Coordination meetings and coordination	1	\$284	1	\$269	1	\$215	2	\$354	3	\$384	4	\$428	4	\$472	0	\$0	0	\$0	0	\$0	16	\$2,406	\$150
Sub-Total Preliminary Design	1	\$284	3	\$907	2	\$430	4	\$708	7	\$896	9	\$963	4	\$472	0	\$0	0	\$0	0	\$0	30	\$4,560	\$152
Schematic Design (30%)																							
Perform general coordination and attend design review meetings	1	\$284	2	\$538	2	\$430	2	\$354	2	\$256	6	\$642	4	\$472	0	\$0	0	\$0	0	\$0	19	\$2,976	\$157
Perform site visits	0	\$0	3	\$807	3	\$645	8	\$1,416	4	\$512	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	18	\$3,380	\$188
Perform preliminary electrical design & coordinate with OUC	1	\$284	1	\$269	1	\$215	2	\$354	2	\$256	2	\$214	0	\$0	0	\$0	0	\$0	0	\$0	9	\$1,592	\$177
Perform preliminary structural design	1	\$284	2	\$538	1	\$215	3	\$531	5	\$640	5	\$535	0	\$0	0	\$0	0	\$0	0	\$0	17	\$2,743	\$161
Perform preliminary roadway, signing, & temporary traffic control plan (TTCP) design	1	\$284	1	\$269	1	\$215	1	\$177	3	\$384	8	\$856	0	\$0	0	\$0	0	\$0	0	\$0	15	\$2,185	\$146
Develop electrical plans	0	\$0	1	\$269	1	\$215	1	\$177	3	\$384	5	\$535	10	\$1,180	0	\$0	0	\$0	0	\$0	21	\$2,760	\$131
Develop structural plans	0	\$0	1	\$269	1	\$215	2	\$354	2	\$256	5	\$535	10	\$1,180	0	\$0	0	\$0	0	\$0	21	\$2,809	\$134
Develop roadway, signing, and TTCP plans	0	\$0	1	\$269	1	\$215	1	\$177	0	\$0	4	\$428	8	\$944	0	\$0	0	\$0	0	\$0	15	\$2,035	\$136
Develop Design Criteria and Calculations	1	\$284	1	\$269	1	\$215	1	\$177	2	\$256	8	\$856	0	\$0	0	\$0	0	\$0	0	\$0	14	\$2,067	\$147
Develop Specifications	0	\$0	1	\$269	1	\$215	1	\$177	1	\$128	0	\$0	0	\$0	0	\$0	4	\$324	8	\$1,113	\$138		
Prepare Cost Estimate	0	\$0	2	\$538	0	\$0	1	\$177	1	\$128	4	\$428	8	\$944	0	\$0	0	\$0	0	\$0	16	\$2,215	\$138
Sub-Total Schematic Design (30%)	5	\$1,420	16	\$4,304	13	\$2,795	23	\$4,071	25	\$3,200	47	\$5,029	40	\$4,720	0	\$0	4	\$324	173	\$25,863	\$148		
Design Development (60%)																							
Perform general coordination and attend design review meetings	1	\$284	4	\$1,076	4	\$860	4	\$708	4	\$512	8	\$856	8	\$944	0	\$0	0	\$0	0	\$0	33	\$5,240	\$159
Utility coordination	1	\$284	16	\$4,304	6	\$1,290	10	\$1,770	14	\$1,792	8	\$856	10	\$1,180	0	\$0	0	\$0	0	\$0	65	\$11,476	\$177
Update electrical design & coordinate with OUC	1	\$284	1	\$269	2	\$430	5	\$885	10	\$1,280	9	\$963	0	\$0	0	\$0	0	\$0	0	\$0	28	\$4,111	\$147
Update structural design	1	\$284	1	\$269	3	\$645	7	\$1,238	12	\$1,284	12	\$1,284	0	\$0	0	\$0	0	\$0	0	\$0	36	\$5,257	\$146
Update roadway, signing, & temporary traffic control plan (TTCP) design	1	\$284	1	\$269	2	\$430	4	\$708	8	\$1,024	8	\$856	0	\$0	0	\$0	0	\$0	0	\$0	24	\$3,571	\$149
Update electrical plans	0	\$0	1	\$269	2	\$430	2	\$354	6	\$768	10	\$1,076	14	\$1,652	0	\$0	0	\$0	0	\$0	35	\$4,545	\$130
Update structural plans	0	\$0	2	\$538	4	\$860	4	\$708	10	\$1,280	12	\$1,284	18	\$2,124	0	\$0	0	\$0	0	\$0	50	\$6,794	\$136
Update roadway, signing, and TTCP plans	0	\$0	1	\$269	1	\$215	1	\$177	1	\$128	4	\$428	8	\$944	0	\$0	0	\$0	0	\$0	16	\$2,161	\$135
Update Design Criteria and Calculations	1	\$284	1	\$269	2	\$430	2	\$354	4	\$512	8	\$856	0	\$0	0	\$0	0	\$0	0	\$0	18	\$2,705	\$150
Update Specifications	0	\$0	1	\$269	1	\$215	1	\$177	1	\$128	0	\$0	0	\$0	8	\$648	0	\$0	0	\$0	12	\$1,437	\$120
Update Cost Estimate	0	\$0	2	\$538	0	\$0	1	\$177	1	\$128	4	\$428	8	\$944	0	\$0	0	\$0	0	\$0	16	\$2,215	\$138
Sub-Total Design Development (60%)	6	\$1,704	31	\$8,338	27	\$5,805	41	\$7,257	71	\$9,088	83	\$8,881	66	\$7,788	0	\$0	8	\$648	333	\$49,510	\$148		
Construction Documents (85%)																							
Complete Drawings	2	\$568	2	\$538	4	\$860	8	\$1,416	16	\$2,048	32	\$3,424	40	\$4,720	0	\$0	0	\$0	0	\$0	104	\$13,574	\$131
Complete Specifications	1	\$284	1	\$269	1	\$215	1	\$177	1	\$128	1	\$107	0	\$0	4	\$324	10	\$810	0	\$0	19	\$2,504	\$132
Complete Construction Documents	0	\$0	1	\$269	1	\$215	4	\$708	4	\$512	8	\$856	8	\$944	0	\$0	0	\$0	0	\$0	26	\$3,504	\$135
Update/Reconcile Opinion of Probable Const. Cost	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Other Activities (List)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Sub-Total Construction Documents (85%)	3	\$852	4	\$1,076	6	\$1,290	13	\$2,301	21	\$2,688	41	\$4,387	48	\$5,664	0	\$0	4	\$324	140	\$18,882	\$133		
Bidding and Award																							
Resolve 95% Comments on Drawings/ Specs/Documents	1	\$284	8	\$2,152	8	\$1,720	20	\$3,540	20	\$2,560	20	\$2,140	20	\$2,360	0	\$0	8	\$648	105	\$15,404	\$147		
Prepare/Reproduce/Distribute Bid Documents	0	\$0	1	\$269	0	\$0	3	\$531	0	\$0	0	\$0	0	\$0	0	\$0	3	\$243	7	\$1,043	\$149		
Prepare/Reproduce/Distribute Bid Addenda	1	\$284	1	\$269	0	\$0	0	\$0	1	\$128	0	\$0	0	\$0	0	\$0	3	\$243	6	\$924	\$154		
Attend/Minute Pre-Bid Meeting	0	\$0	2	\$538	2	\$430	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	4	\$968	\$242
Attend/Minute Bid Opening	0	\$0	2	\$538	2	\$430	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	4	\$968	\$242
Prepare Bid Tabulation/Recommendation	0	\$0	1	\$269	1	\$215	1	\$177	0	\$0	0	\$0	0	\$0	0	\$0	2	\$162	5	\$823	\$165		
Sub-Total Bidding and Award	2	\$568	15	\$4,035	13	\$2,795	24	\$4,248	21	\$2,688	20	\$2,140	20	\$2,360	0	\$0	16	\$1,296	131	\$20,130	\$154		
Construction Administration																							
Sub-Total Construction Administration	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Closout																							
Prepare Record Drawings/Documents																							
Sub-Total Closout	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
TOTAL NOT TO EXCEED REIMBURSABLE FEE:	17	\$4,828	69	\$18,561	61	\$13,115	105	\$18,588	145	\$18,560	200	\$21,400	178	\$21,004	0	\$0	32	\$2,592	807	\$118,645	\$147		

NOTES:

1. A separate spreadsheet is required for each consultant/subconsultant with any portion of it's services to be compensated on a not to exceed reimbursable 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-5
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE FEES**

W-00447 Overhead Signage Task No. 1

Position: GEC	Principal		QC Reviewer		Senior Project Manager		Senior Engineer		Engineer		Engineer Intern		Senior Engineering Technician		Project CAD/CAD Technician		Administrative Assistant		TOTAL				
	\$305		\$270		\$224		\$172		\$127		\$99		\$87		\$86		\$72		labor hours	Cost	Avg. Hourly Rate		
	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost	labor hours	Cost					
Preliminary Design																							
Review of Record Drawings & Documents	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Verification of Existing Conditions	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Preliminary Engineering Report	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Surveying	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Design Development (60%)																							
Develop Drawings	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Develop Specifications	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Prepare Construction Documents	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Update/Reconcile Opinion of Probable Const. Cost	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Other Activities (List)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Geotechnical Analysis and Report	0	\$0	2	\$540	6	\$1,344	0	\$0	15	\$1,905	0	\$0	6	\$522	6	\$516	6	\$432	41	\$5,259		\$128	
Sub-Total Design Development (60%)	0	\$0	2	\$540	6	\$1,344	0	\$0	15	\$1,905	0	\$0	6	\$522	6	\$516	6	\$432	41	\$5,259		\$128	
Construction Documents (95%)																							
Complete Drawings	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Complete Specifications	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Complete Construction Documents	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Update/Reconcile Opinion of Probable Const. Cost	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Other Activities (List)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Sub-Total Construction Documents (95%)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Bidding and Award																							
Resolve 95% Comments on Drawings/ Specs/Documents	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Prepare/Reproduce/Distribute Bid Documents	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Prepare/Reproduce/Distribute Bid Addenda	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Attend/Minute Pre-Bid Meeting	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Attend/Minute Bid Opening	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Prepare Bid Tabulation/Recommendation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Other Activities (List)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Sub-Total Bidding and Award	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Construction Administration																							
Prepare/Reproduce/Distribute Conformed Documents/Drawings	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Attend Pre-NTP Meeting	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Attend Pre-Construction Conference	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Attend JCMs	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Site Visits/Check As-Builts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Review Contractor's Submittals	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Review Contractor's Invoices	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Review C.O.s	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Substantial Completion Inspection	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Final Completion Inspection	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Other Activities (List)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Sub-Total Construction Administration	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Closeout																							
Prepare Record Drawings/Documents	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Other Activities (List)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
Sub-Total Closeout	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	#DIV/0!
TOTAL NOT TO EXCEED REIMBURSABLE FEE:	0	\$0	2	\$540	6	\$1,344	0	\$0	15	\$1,905	0	\$0	6	\$522	6	\$516	6	\$432	41	\$5,259		\$128	

NOTES:

1. A separate spreadsheet is required for each consultant/subconsultant with any portion of it's services to be compensated on a not to exceed reimbursable 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-6
BREAKDOWN OF NOT TO EXCEED REIMBURSABLE EXPENSES

W-00447 Overhead Signage Task No. 1
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.

Preliminary	\$ -
30%	\$ -
60%	\$ 4,573
95%	\$ -
Bidding Phase	\$ -
Construction Admin	\$ -
Closeout	\$ -
	\$ 4,573

**EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-7a, C-7b and C-7c
PARTICIPATION SCHEDULES**

**TABLE C-7a DBE PARTICIPATION SCHEDULE
W-00447 Overhead Signage Task No. 1**

NAME OF SUBCONSULTANT	ADDRESS	PROPOSED SCOPE OF SERVICES	FEE	PROPOSED PARTICIPATION
Subconsultant No. 1				0.00%
Subconsultant No. 2				0.00%
Subconsultant No. 3				0.00%
Subconsultant No. 4				0.00%
Subconsultant No. 5				0.00%
TOTAL PROPOSED PARTICIPATION			\$0	0.00%

TABLE C-7b MWBE PARTICIPATION SCHEDULE

NAME OF SUBCONSULTANT	ADDRESS	MWBE CLASSIFICATION	PROPOSED SCOPE OF SERVICES	FEE	PROPOSED PARTICIPATION
GEC	919 Lake Baldwin Lane, Orlando, Florida 32814	MWBE	Geotech	\$9,832	7.65%
					0.00%
					0.00%
					0.00%
					0.00%
TOTAL PROPOSED PARTICIPATION				\$9,832	7.65%

TABLE C-7c LDB PARTICIPATION SCHEDULE

NAME OF FIRM	ADDRESS	PROPOSED SCOPE OF SERVICES	FEE	PROPOSED PARTICIPATION
Subconsultant No. 1				0.00%
Subconsultant No. 2				0.00%
Subconsultant No. 3				0.00%
Subconsultant No. 4				0.00%
Subconsultant No. 5				0.00%
TOTAL PROPOSED PARTICIPATION			\$0	0.00%

TOTAL CONTRACT AMOUNT align="right">\$ **128,477**

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-9
CONTRACT HOURLY RATES

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.

W-00447 Overhead Signage Task No. 1

FIRM	POSITION	CONTRACT HOURLY RATE
AVCON (FY 2024)	PRINCIPAL	\$ 284
AVCON (FY 2024)	SR. PROJECT MANAGER	\$ 269
AVCON (FY 2024)	PROJECT MANAGER	\$ 215
AVCON (FY 2024)	SR. PROJ. ENGINEER	\$ 177
AVCON (FY 2024)	PROJECT ENGINEER / DESIGNER	\$ 128
AVCON (FY 2024)	ENGINEER / DESIGNER	\$ 107
AVCON (FY 2024)	SR. CADD DESIGNER	\$ 118
AVCON (FY 2024)	SENIOR INSPECTOR	\$ 124
AVCON (FY 2024)	CONTRACT ADMINISTRATOR	\$ 106
AVCON (FY 2024)	CLERICAL	\$ 81
GEC	Principal	\$ 305
GEC	QC Reviewer	\$ 270
GEC	Senior Project Manager	\$ 224
GEC	Senior Engineer	\$ 172
GEC	Engineer	\$ 127
GEC	Engineer Intern	\$ 99
GEC	Senior Engineering Technician	\$ 87
GEC	Project CAD/CAD Technician	\$ 86
GEC	Administrative Assistant	\$ 72
GEC	Engineering Technician	\$ 66



AVCON, INC.
Engineers & Planners

5555 E. Michigan St., Suite 200
Orlando, Florida 32822
Phone: (407) 599-1122
Fax: (407) 599-1133
www.avconinc.com

March 15, 2024

Mr. Don Corthell, Sr.
Construction Manager
PSA Management, Inc.
11316 Terminal C Service Road
Orlando, FL 32824

Reference: **TRUTH IN NEGOTIATION CERTIFICATION**
W-00447 Orlando International Airport

Dear Don:

AVCON 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.

AVCON 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.

Certified:

AVCON, INC.

A handwritten signature in blue ink that reads "James A. Kriss". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

James A. Kriss, P.E.
Sr. Vice President

Date: March 15, 2024



March 8, 2024

Avcon Engineering, Inc.
5555 E. Michigan St, Suite 200
Orlando, FL 32822-2779

Attention: Mr. Clint Pletzer, P.E.
Civil Design Manager

Subject: Proposal for Geotechnical Engineering Exploration
GOAA MCO OVERHEAD SIGNAGE CONTRACT W-0047
Heintzelman Boulevard South of Jetport Drive DMS Foundations
Orange County, Florida
GEC Proposal No. 11761G

Dear Mr. Pletzer:

Geotechnical and Environmental Consultants, Inc. (GEC) is pleased to provide this proposal for the above-referenced project. This proposal is based on information provided by you on February 27, 2024. The purpose of this investigation will be to explore soil and groundwater conditions at the site and to use the information obtained to provide recommendations for design of the DMS sign foundations. This proposal presents our understanding of the project, our scope of services and the cost and schedule for providing those services.

Site Location and Project Description

The project site is located at the Orlando International Airport in Orange County, Florida. More specifically, the project site is located on Heintzelman Boulevard about 800 feet south of Jetport Drive. The approximate location is shown on **Attachment 1**. We understand that the DMS sign will be supported on two drilled shaft foundations.

Geotechnical Scope of Services

As requested, the geotechnical scope of services includes the following:

- Stake boring locations at the site and coordinate with on-site GOAA access control.
- Clear utilities at the boring locations with both Sunshine One Call and GOAA.

- Mobilize truck-mounted drilling rig and crew. We understand that our drill rig and crew will not require GOAA badges or a GOAA Secure Area escort for this work location.
- Perform 2 Standard Penetration Test (SPT) borings to 40 feet.
- Perform routine laboratory soil classification tests to aid in visual soil classification.
- Issue a geotechnical engineering report, signed and sealed by a geotechnical engineer licensed in Florida. The report will address the following project elements:
 - Soil conditions at the boring locations
 - Measured and estimated seasonal high groundwater levels in the borings
 - Foundation soil parameters to guide foundation design

Cost and Schedule

The cost to provide the scope of services is a Not-to-Exceed Fee of \$9,832.00 (field reimbursable expenses = \$4,573.00, and Engineering Labor = \$5,259.00). **Attachment 2** documents our detailed scope of services and fees. This fee includes an electronic copy of our report emailed to you.

Our total schedule to complete the work will be about 6 to 8 weeks from your written notice to proceed. Verbal recommendations can be provided shortly after the field work is completed.

Limitations

This proposal is subject to the following limitations:

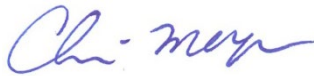
- The site will be accessible to the drilling equipment assumed above. If other types of drilling equipment become necessary due to site and/or weather conditions, appropriate adjustments to the actual fees will be necessary
- If the site requires secure area badges, GEC will need badged escort to be provided to our drill crew to perform their work.
- Undisturbed samples and consolidation tests are not included, unless stated above
- We assume no responsibility for damage to underground utilities and/or structures that are not located by the owner or Sunshine State One-Call
- Assessment of environmental contamination at the site (other than specified herein) is not included

Closure

GEC appreciates the opportunity to submit this proposal. If you have any questions regarding this proposal, or if we can be of further assistance, please contact the undersigned.

Very truly yours,

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.



Christopher P. Meyer, P.E.
Senior Geotechnical Engineer

ATTACHMENTS

EXHIBIT A - CONSULTANT'S COMPENSATION PROPOSAL
TABLE C-3
BREAKDOWN OF NOT TO EXCEED
FEEES

Position:	Senior Project Manager		Engineer		Senior Engineering Technician		Project CAD/CAD Technician		Administrative Assistant		QC Reviewer		Principal		TOTAL			
	\$224		\$127		\$87		\$86		\$72		\$270		\$305		Labor Hours	Cost	Avg. Hourly Rate	
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
Geotechnical and Environmental Consultants, Inc.																		
60% Design Development Phase																		
Geotechnical Analysis and Report	6	\$1,344	15	\$1,905	6	\$522	6	\$516	6	\$432	2	\$540	0	\$0	41	\$5,259	\$128	
Subtotal 60% Design Development	6	\$1,344	15	\$1,905	6	\$522	6	\$516	6	\$432	2	\$540	0	\$0	41	\$5,259	\$128	
TOTAL NOT TO EXCEED FEE:	6	1344	15	1905	6	522	6	516	6	432	2	540	0	0	41	5259	128	

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

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.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

	<u>Unit</u>	<u>Quantity</u>		<u>Unit Price</u>		<u>Cost</u>
GEC Overflow Lot and Ponds						
1	Field Investigation					
	Mobilization of Truck-Mounted Rig	ls	1	\$	725.00	\$ 725.00
	Auger Borings					-
	0-50'	ft	0		14.00	-
	SPT Borings (0-50) (2 to 40')	ft	80		19.00	1,520.00
	Field Permeability Test	each	0		450.00	-
	Support Truck	day	1		200.00	200.00
	Drill and Crew (access, clean-up time)	hr	2		385.00	770.00
	GPS Unit for Boring Locations	day	1		120.00	120.00
					Field Subtotal	\$ 3,335.00
2	Laboratory Soil Testing					
	Percent Fines	each	6	\$	55.00	\$ 330.00
	Grain Size Analysis	each	0		80.00	-
	Organic Content	each	2		54.00	108.00
	Atterberg Limits	each	3		140.00	420.00
	Natural Moisture Content	each	5		20.00	100.00
	Limerock Bearing Ratio (LBR / CBR)	each	0		390.00	-
	Corrosion Series	each	1		280.00	280.00
					Laboratory Subtotal	\$ 1,238.00

TOTAL REIMBURSEABLE EXPENSES GEC : \$4,573.00



GREATER ORLANDO AVIATION AUTHORITY

H-00360

Roadway Variable Message Signs D/B

Concept Documents

Orlando International Airport



24 July, 2023

**ORLANDO INTERNATIONAL AIRPORT
ONE JEFF FUQUA BOULEVARD
ORLANDO, FLORIDA 32827**

CHAIRPERSON: M. CARSON GOOD

BOARD MEMBERS: THE HONORABLE JERRY DEMINGS

THE HONORABLE BUDDY DYER

CRAIG MATEER

DR. JOHN L. EVANS JR.

TIM WEISHEYER

BELINDA KIRKEGARD

CHIEF EXECUTIVE OFFICER: KEVIN J. THIBAULT

H-00360 - Roadway Variable Message Signs D/B Concept Documents

01.00 - Index

01.01 - Project Details

01.02 - Painting Details

01.03 - Graphic Details

01.04 - Luminaire Details

01.05, 01.06 - OT-XXX-XX Details

02.00 - Location Map (in separate document)

OT = Overhead Tri-Chord Truss Structure

OC = Overhead Tri-Chord Cantilever Structure



GREATER ORLANDO AVIATION AUTHORITY

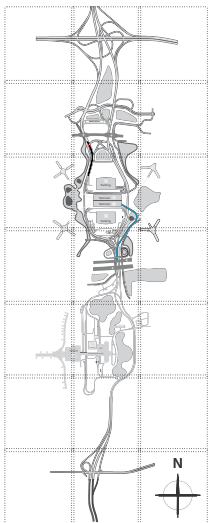
H-00360
Roadway Variable
Message Signs D/B

ORLANDO
INTERNATIONAL
AIRPORT



Artistic Identity
923 1st Street
Altamonte Springs, FL 32701
www.artidentity.us

Key Plan



Revisions

No.	Date	Description
1	1.30.24	Scope Update
2	2.27.24	Scope Update

Project No.:	H-00360
Designed By:	RJ
Drawn By:	RJ
Checked By:	BF & KC
Issue Date:	7.24.2023
Drawing Scale:	Varies

Drawing Title:

Index

Drawing No.

01.00

H-00360 - Roadway Variable Message Signs D/B Concept Documents

General Notes:

The awarded design-build firm shall be responsible for design and construction, including but not limited to, survey, geotechnical investigation, design, and preparation of all documentation related to the acquisition of all permits. They shall coordinate all utility relocations, be responsible for construction, and maintenance of traffic during construction, requirements relative to project management, scheduling, and coordination with other agencies and entities such as state and local government, utilities and the public.

The design-build firm shall examine boring data, where available, and make their own interpretation of the subsoil investigations and other preliminary data, and shall base their bid on their own opinion of the conditions likely to be encountered. The submission of a proposal is prima facie evidence that the design-build firm has made an examination as described in this provision.

The design-build firm shall demonstrate good project management practices while working on this project. These include written communication with GOAA's OAR team and others as necessary, management of time and resources, and documentation.

The design-build firm shall secure and submit for conformance sign panel and sign structure shop drawings and calculations for each location. The shop drawings and calculations shall include the design of all related components and fasteners. This includes maximum hanger support spacing, number and spacing of required fasteners required per design. The shop drawings shall be signed and sealed by a structural engineer licensed in the state of Florida.

The design-build firm shall provide this basis of design:
 Tri-chord structures and foundations per current FDOT index 11320.
 Aluminum sign panels and support beams per current FDOT index 11300.
 Add guard rails as required per current FDOT index 400.
 Exposed steel on all sign structures shall be hot dipped galvanized.
 Signs and sign structures are to have a wind load of 150 mph.
 Sign structures to have ample capacity for more weight for future digital signage

New sign panels that replace existing ones or new sign panels added to an existing structure shall use the vertical hanger supports. The design build firm shall survey the existing hanger locations and submit erection drawings for review.

All overhead signs shall be placed with a minimum clearance of 17' 6" from the highest point of the roadway surface.

Load tests will be required by the design-build firm's engineer of record.

All signs shall receive a panel designation and date decal on the back of panel in lower right corner of the sign using a highly reflective 3M material with UV over laminate. All structures shall receive their structure number designation 6 to 8 feet above grade on the back side of structure using a highly reflective 3M material with UV over laminate. The letters shall be 3.75" high black on a yellow background and shall be highly reflective.

Design-build firm is responsible for verifying existing utilities by a "soft hand dig" prior to commencing work.

Provide (5) year minimum turn key warranty for any and all parts of the variable message signs.

Geotechnical Services:

The design-build firm is responsible for identifying and performing any geotechnical investigation, analysis and design of foundations, foundation construction, foundation load and integrity testing, and inspection dictated by the project needs in accordance with FDOT guidelines. The design-build firm is solely responsible for all geotechnical aspects of the Project.

Drill Shaft Foundations:

The design-build firm shall be responsible for the following:

1. Evaluating geotechnical conditions to determine the drilled shaft design and construction methods to be used.
2. Performing the subsurface investigation prior to establishing the drilled shaft tip elevations and socket requirements.
3. Preparing and submitting drilled shaft installation plan for third party inspector acceptance.
4. Constructing all drilled shafts to the required tip elevation and socket requirement in accordance with the design.
5. Inspecting and documenting the construction of all drilled shafts in accordance with the design.
6. Performing Cross-Hole Sonic Logging (CSL) tests on drilled shafts, when required by FDOT specification.
7. Repairing all detected defects and conducting post repair integrity testing using 3D topographic imaging and/or gamma-gamma density logging.
8. Submitting foundation certification packages in accordance with the design.

Electrical:

Electrical per current FDOT index 17505.
 Provide metered power to each new sign structure location.
 Provide a 30"x 24" NEMA 4x sign power enclosure or approved equivalent on the back side at the base of sign structure.
 Power to each structure to be coordinated with GOAA OAR team & OUC.

Landscape and Finish work:

Awarded firm shall return the surrounding area to pre-construction condition including grading, positive drainage away from structure, irrigation, utilities, and landscape.

Quality Control:

A GOAA representative shall review all panels for final approval at an on site staging area prior to installation.

Reference Publications:

1. State of Florida Department of Transportation Design Standards for Design, Construction, maintenance and utility operations, latest edition.
2. Manual on Uniform Traffic Control Devices, latest edition.
3. Standard Highway Sign Manual, latest edition.



GREATER ORLANDO AVIATION AUTHORITY

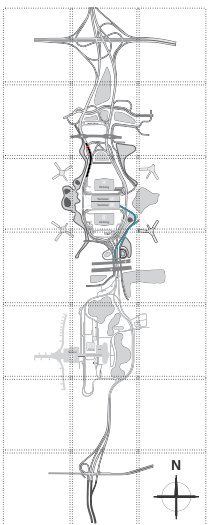
H-00360
Roadway Variable
Message Signs D/B

ORLANDO
INTERNATIONAL
AIRPORT



Artistic Identity
 923 1st Street
 Altamonte Springs, FL 32701
 www.artidentity.us

Key Plan



Revisions

No.	Date	Description
1	1.30.24	Scope Update
2	2.27.24	Scope Update

Project No.:	H-00360
Designed By:	RJ
Drawn By:	RJ
Checked By:	BF & KC
Issue Date:	7.24.2023
Drawing Scale:	Varies

Drawing Title:

Project
Details

Drawing No.

01.01

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General Surface Coating Notes:

The Contractor shall paint the vertical support columns of the sign structures. The painting shall be done following erection of the proposed overhead sign supports and prior to final acceptance. This provision does not change any of the requirements set forth in the contract pertaining to the overhead sign structures, but rather provides a means for enhancing the aesthetics of the final product. The Contractor shall have a minimum of 5 years experience in painting FDOT structures.

The Contractor shall clean and paint in accordance with this specification. The provisions of ASTM D 2092, "Preparation of Zinc Coated (Galvanized) Steel Surfaces for Painting"; and Sections 560 and 562 of the Technical Specifications not in conflict with this specification also apply. "Spot" repairs are not permitted. No claims for delays or time extensions will be considered should the work be stopped due to failure of the Contractor to meet the requirements of this specification.

The Contractor shall clean and paint from the top of the structure down to prevent accumulation of debris or damage to previously painted surfaces under this Project.

The Contractor shall clean and paint galvanizing before re-attachment of upright attachments, e.g. electrical disconnect switch boxes, electrical conduit, DMS controller boxes, FON conduit, or recently installed antennae.

Pollution Control:

Comply with all applicable Federal, State, and local rules and regulations. In the event the Contractor violates any environmental regulations or fails to properly execute any pollution control provisions, the owner has the authority to immediately cease all operations associated with the infraction. Operations will only resume after written proposed corrective procedures have been submitted to and approved by owner and implemented.

Ambient Conditions:

Do not conduct final surface preparation on bare substrate or apply paint unless the steel surface temperature is 5°F above the dew point and the relative humidity is below 85%. No paint shall be applied when the ambient air or surface temperature is less than 50° F or above 95° F, unless authorized in writing by the owner.

Submit the following to GOAA:

- Proof of 5 years experience in painting FDOT structures
- Applicable Contractor personnel training and certifications.
- Contractor's Environmental, Health and Safety plan.
- Contractor's Quality Control plan
- Manufacturer's Product Data Sheets (PDS) and Material Safety Data Sheets (MSDS) for all materials to be used on the project.
- Certification from the manufacturer that all coating materials contain less than 100 ppm lead.
- (3) Physical coating samples on a 6" x 6" steel plate.

Surface Preparation:

Clean all existing surfaces to meet the requirements of SSPC-SP1. Use a minimum of a pressurized (minimum of 2,500 psi at the nozzle) potable water wash. Hold nozzle no more than 12 inches from the surface being cleaned. Mechanical (e.g. scrub brushes), steam cleaning or other means may also be necessary. All cleaners must be approved by the coatings manufacturer and reviewed by the owner prior to use. Do not use hydrocarbon solvents. Hand tool clean the galvanized surfaces which exhibit visible rust or physical damage (eg. cuts, abrasions) to a condition as defined by SSPC-SP2, "Hand Tool Cleaning".

Painting General:

- Do not apply any paint that contains more than 100 ppm lead.
- Brush or roller apply all coatings. Spray application is not permitted.
- Minimum and maximum dry film thicknesses (DFT) of each coat and time period between coats shall be recommended by the manufacturer's corrosion engineer or available within their published literature; and submitted to GOAA for acceptance.
- Remove any paint that curls or lifts after application and repaint the areas as per specification.
- Determine wet film thickness during application in accordance with ASTM D 4414, "Standard Practice for Measurement of Wet Film Thickness by Notch Gages".
- Determine dry film thickness in accordance with SSPC PA-2, "Measurement of Dry Coating Thickness with Magnetic Gages". If dry film thickness does not conform to specified ranges, correct the deficiency as directed by the owner.
- The color of the finish coat of the structures shall be approved by the owner.

Coating Materials:

All coatings materials must be submitted and approved by the owner prior to start of project.

Coating system:

- 1st Coat - "Spot" Prime SSPC-SP2 hand tool cleaned surfaces with Gulf Coast Paints MCU 100 Urethane Primer/Finish or equivalent as approved by the Owner
- 2nd Coat - Full Coat of Gulf Coast Paints MCU 100 Urethane Primer/Finish, or equivalent as approved by the Owner.
- 3rd Coat - Gulf Coast Paints MCU 100 Urethane Primer/Finish, or equivalent as approved by the Owner.

Prevent any wet paint from damaging property. If any accidental spill, immediately contact the owner for evaluation. Be responsible for any cleanup due to accidental spill, overspray, etc., and all work and liability associated with the cleanup effort. Remove any paint that comes in contact with concrete or other surfaces not specified to be painted at no expense to the owner.



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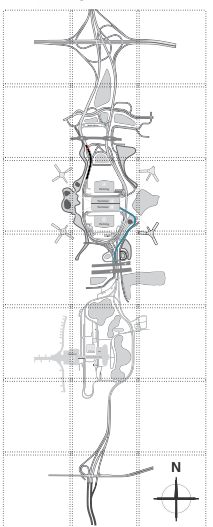
H-00360
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Key Plan



Revisions

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2	2.27.24	Scope Update

Project No.:	H-00360
Designed By:	RJ
Drawn By:	RJ
Checked By:	BF & KC
Issue Date:	7.24.2023
Drawing Scale:	Varies

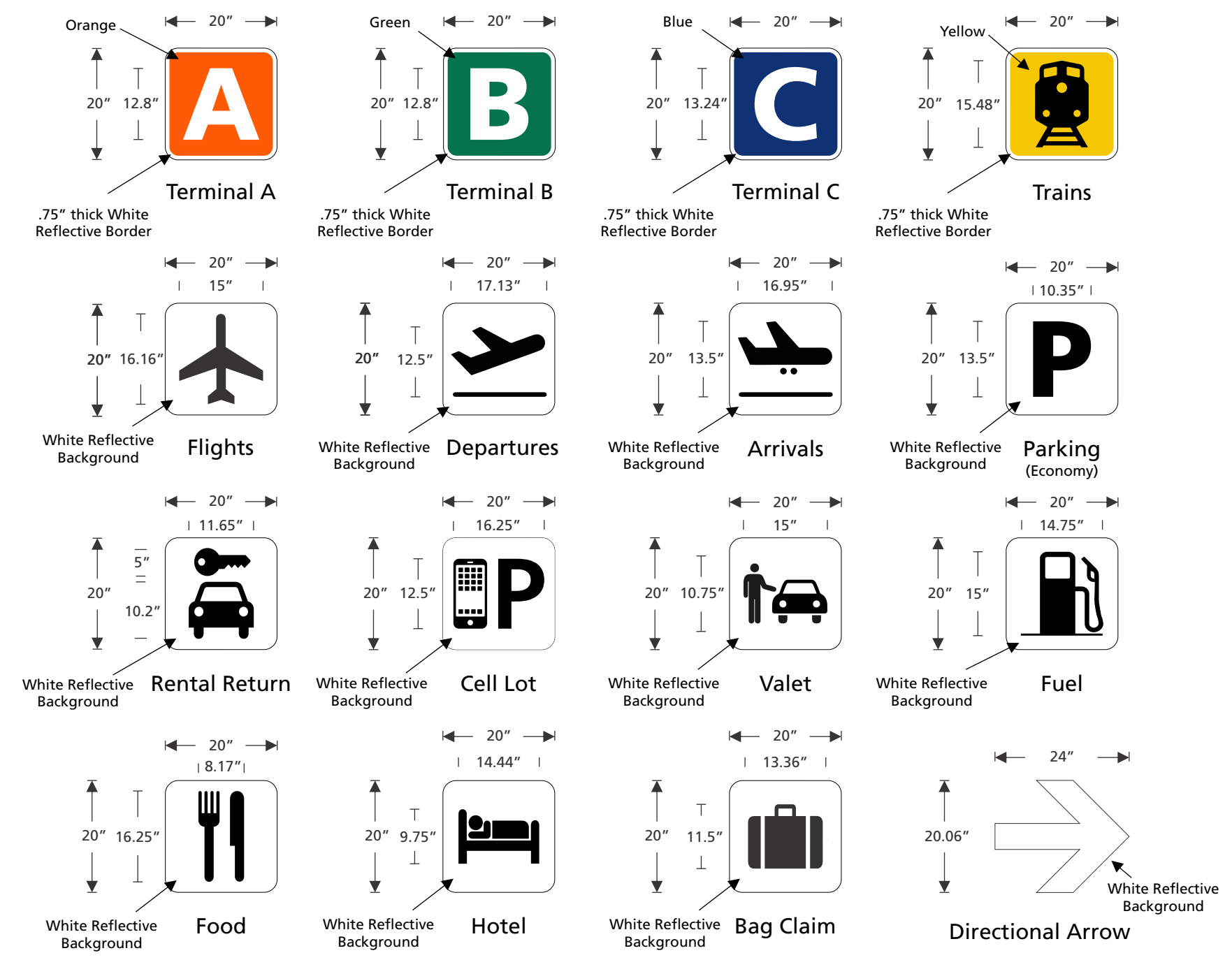
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Details**

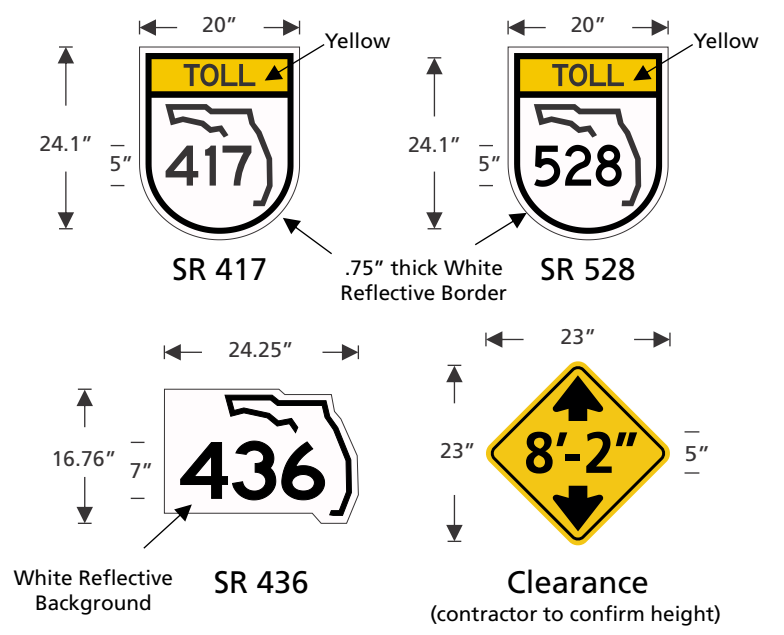
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01.02

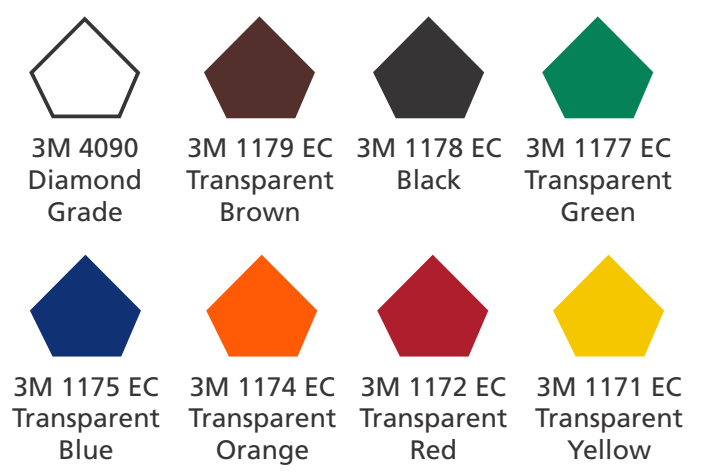
H-00360 - Roadway Variable Message Signs D/B Concept Documents



A Various Symbols
Scale is 1/2" = 1'



B Various Symbols
Scale is 1/2" = 1'



C GOAA Standard Roadway Colors

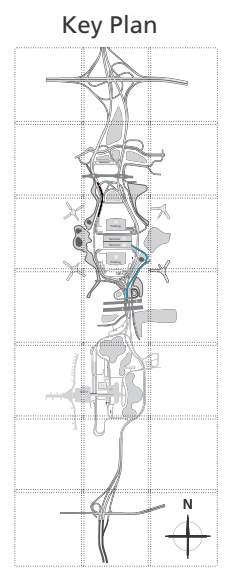
Notes:
Terminal symbol font = Frutiger 75 Black
Symbol sizes vary - scale accordingly
Graphic Materials:
Materials placed on the panels shall be per above color chart using 3M DG 4090 series reflective sheeting and 3M electronic cuttable film 1170 series.. Signs of like background color on the same structure are to use same roll of that color to insure a consistent shade of that color for that set of signs. Graphic materials to be applied to the aluminum panels, preferably by a certified 3M facility. Provide physical mock up of a airline sign for GOAA approval prior to fabrication (scaled down to 2' tall). Provide physical mock ups of each color on 4" x 4" x .125" aluminum for GOAA approval.



H-00360
Roadway Variable
Message Signs D/B

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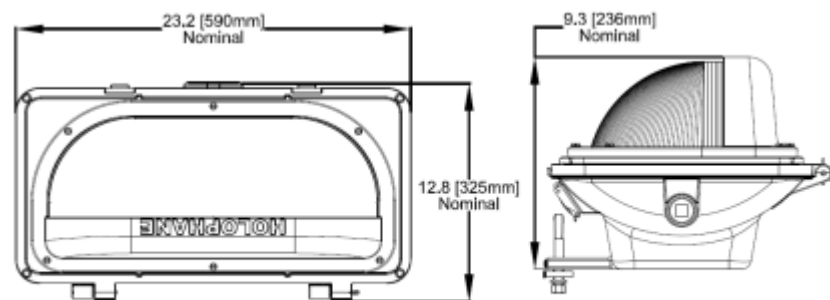
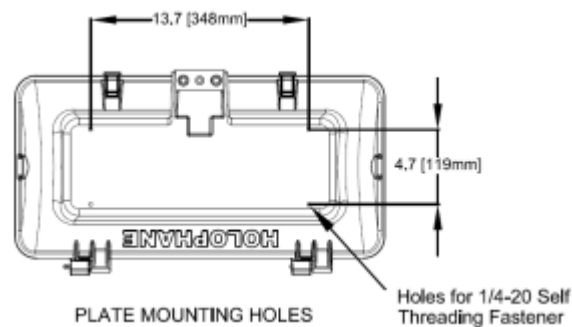
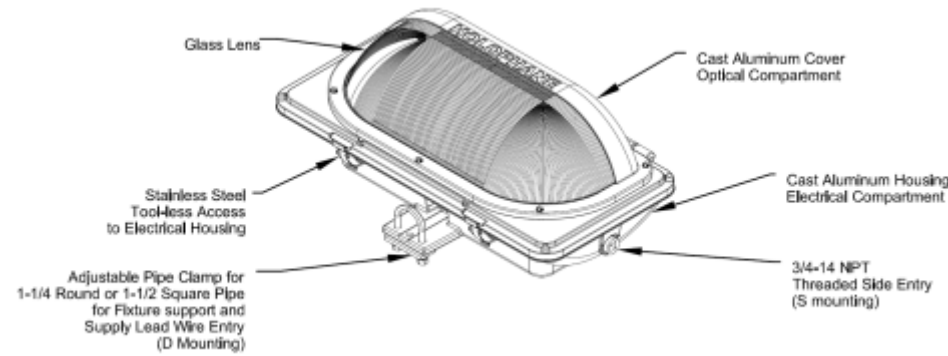
Project No.:	H-00360
Designed By:	RJ
Drawn By:	RJ
Checked By:	BF & KC
Issue Date:	7.24.2023
Drawing Scale:	Varies

Drawing Title:
**Graphic
Details**

Drawing No.
01.03

H-00360 - Roadway Variable Message Signs D/B Concept Documents

SIGN-VUE® LED II Infrastructure Specialty



DIMENSIONAL DATA

Max Weight: 26.1 lbs (11.8 Kg)
Max EPA = .67 ft² (.06 m²)
CSA Certified to U.S. and Canadian Standards
Ambient Rating: 40°C
Wet Location



SPECIFICATIONS

General Construction

Rugged door cast, high silicon-copper A413.0 aluminum alloy housing, allows for corrosion resistance and long life. "U" bolt arm mount with +0/-5 degree vertical adjustment. "U" bolt arm provides easy, secure installation and adjustability for arms 1.25 in round or 1.5 in square pipe, top or bottom mount. Also available with plate style mount with two 3/4-14 NPT threaded side entries. Stainless steel tool-less latch disengages top optical door for easy access to terminal block, surge protection module, LED drivers. Removable optical door for ease of installation. Quick disconnect connectors for ease of installation and maintenance. PCB mounted LED design focused on providing long life and substantially reducing energy and maintenance costs with L70 >100,000 hour life resulting in high lumen application efficacy for sign lighting applications

Environmental

- Luminaire design and tested to comply with ANSI C136:31 2001 for 100,000 cycles at 3.0G acceleration for normal applications.
- The range of luminaire operation is -40°C to +40°C.
- Optical assembly meets dust and moisture rating of IP-66. Electrical meets IP-65 per IEC 60529, ensures long component life and protection from the environment.
- The luminaire is finished with polyester paint applied after a pretreatment process to ensure maximum durability. The finish shall pass the 5000 hour salt fog test per ASTM B117 and D1654 standard.
- The luminaire passed Humidity testing per IEC 60068-2-3 1987 and passed Temperature-Voltage Cycling and Condensing Humidity testing per Acuity Brands Validation Test Specification 902-00007-001

Regulatory

- The luminaire is safety listed to CSA-C22.2 number 250, wet location 40°C).
- The luminaire is ROHS compliant. Luminaire meets EMI compliance per FCC Title 47 CFR Part 15, Class A.

Electrical

- The surge protection is tested to ANSI/IEEE C62.41 specification. For the MVOLT voltage option (120-277v), the device meets 10kV, 5kA. The surge protection module (SPD) protects all downstream electronics such as led drivers, transfer switch, and relays for the purpose of protecting from electrical disturbances such as nearby lightning strikes. Standard product (MVOLT) with Acuity SPD.
- The luminaire is designed to conform to ANSI C82.77:2002 for Maximum Total Harmonic Distortion (THD) <20%. Inrush current complies with NEMA 410:2004 table B-2 and line Fluctuations and Ramp input voltage per UL 991:2004.
- The luminaire conforms to Electromagnetic compatibility tests for Electrostatic Discharge (ESD) per IEC 61000-4-2:2001, Level 4.
- All drivers have (0-10 volt) dimming capability.

Optical

- PCB mounted LED technology comprised of multi-cluster LEDs on single metal core board, more reliable, and light source provides better and uniform optical control. Highly engineered reflector with 90+% reflectivity provides overlapping and repeatable distribution from each LED cluster eliminating dark spots. The luminaire is available with LED color temperature of 5000K. The minimum color rendering index (CRI) is 70 minimum. Reference www.holophane.com for individual photometric tests on Sign-Vue LED luminaire that are tested per LM79 guidelines. Consult factory for LM80 data as that varies per LED chip manufacturer.

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.



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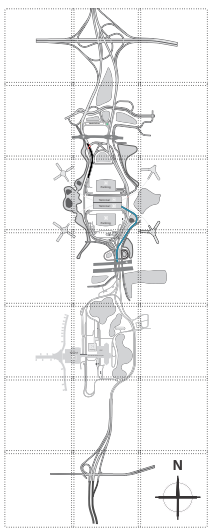
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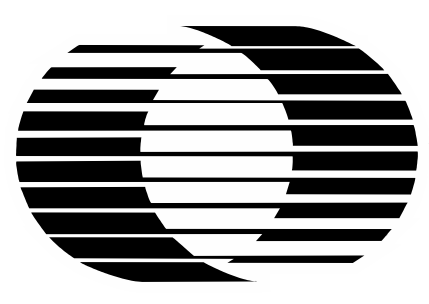
**Luminaire
Details**

Drawing No.

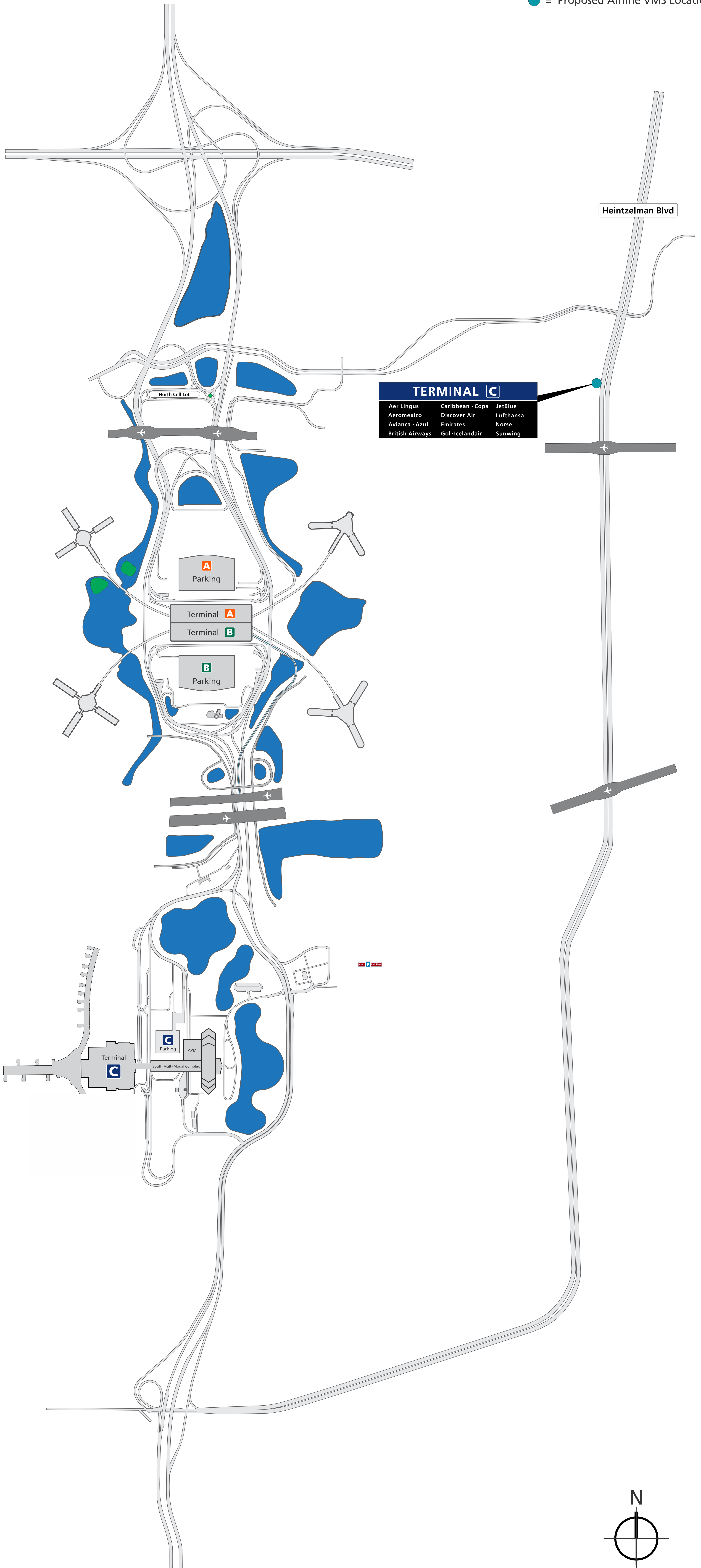
01.04

Notes:

- Light to be installed facing down.
- Light arms and supports per current FDOT requirements.



● = Proposed Airline VMS Locations



TERMINAL C		
Aer Lingus	Caribbean - Copa	JetBlue
Aeromexico	Discover Air	Lufthansa
Avianca - Azul	Emirates	Norse
British Airways	Gol - Icelandair	Sunwing

All locations are approximate.
Final locations to be coordinated in field with GOAA OAR Team.
*EOR to confirm if existing structure can support the additional signage load.



MEMORANDUM

TO: Members of the Construction Committee

FROM: Edelis Molina, Manager Small Business Programs

DATE: April 02, 2024

ITEM DESCRIPTION

Request for Approval of an Addendum to the Continuing Engineering and Design Services Agreement with AVCON, Inc. for Design and Bid Phase Services for W-00447 Overhead Signage Variable Message Sign at the Orlando International Airport.

SMALL BUSINESS

We have reviewed the qualifications of the subject contract's DBE specifications and determined that, AVCON, Inc. proposes 7.7% DBE participation on this addendum.

Our analysis indicates that AVCON, 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) 825-7179

Address: One Jeff Fuqua Boulevard, Orlando, FL 32827

Project Name & Number: Request for Approval of an Addendum to the Continuing Engineering and Design Services Agreement with AVCON, Inc. for Design and Bid Phase Services for W-00447 Overhead Signage Variable Message Sign at the 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: \$128,477.00

5. DBE Goal by Group Representation:

Asian Pacific American	-	Actual Result	0.0%
Asian Subcontinent American	-	Actual Result	0.0%
Black American	9,832.00	Actual Result	7.7%
Caucasian Female American	-	Actual Result	0.0%
Hispanic American	-	Actual Result	0.0%
Native American	-	Actual Result	0.0%
Other	-	Actual Result	0.0%
Total DBE Participation	9,832.00	Actual Result	7.7%

6.b. Engineering / Professional Service Firm Information:

Name: AVCON, Inc.
Address: 5555 E. Michigan Street, Suite 200
City, State, Zip: Orlando, FL 32822
Telephone: (407) 599-1122

6.b. Name and Address of DBE Subconsultant

Name: Geotechnical and Environmental Consultants, Inc.
Address: 919 Lake Baldwin Lane
City, State, Zip: Orlando, FL 32814
Telephone: 407-898-1818

6.c. *Identity:

Work Item(s): Geotech
Amount of Subcontract \$9,832.00
Percent of Prime Contract (%): 7.7%

* 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)