

March 31, 2022

VIA EMAIL

Ms. Rachel Keith
Project, Risk & Airport Manager
City of Foley
407 East Laurel Avenue
Foley, AL 36536

AIP No. 3-01-0031-023-2022
Contract No. 1059400.000
Project No. 1059405.000 – Master Plan / ALP Update
at Foley Municipal Airport
Foley, Alabama

RE: Supplemental Agreement No. 5 - Amendment No. 1
Additional Aerial Survey Services

Dear Ms. Keith,

Please find the attached Amendment No. 1 – Attachment A (Engineering Fee Proposal). Amendment No. 1 will provide for additional engineering services needed to obtain and analyze obstruction survey data for the Runway 18/36 Threshold Siting Surface. Amendment No. 1 will be governed by the terms and conditions described in Task Order 05 and the Professional Services Agreement dated February 4, 2020. A summary of professional services and associated cost is provided below:

Project No.	BASIC SERVICES	Original Contract	Amendment No. 1	Total
1059405	Design Phase	\$ 39,356.83	\$ 0.00	\$ 39,356.83
Total Basic Services		\$ 39,356.83	\$ 0.00	\$ 39,356.83
	SPECIAL SERVICES			
1059405	Ground Control Survey	\$ 4,053.00	\$ 0.00	\$ 4,053.00
	Aerial Survey	\$ 36,006.60	\$ 1,050.00	\$ 37,056.60
Total Special Services		\$ 40,059.60	\$ 1,050.00	\$ 41,109.60
TOTAL PROJECT TOTALS		\$ 79,416.43	\$ 1,050.00	\$ 80,466.43

Amendment No. 1 is provided to the City of Foley for your review and approval. Upon your review and if you concur with the scope of services and cost associated with these services, please sign in the appropriate space provided on page 2 of this letter agreement and return a fully executed copy to Volkert.

Please call if you have any questions.

Sincerely,
VOLKERT, INC.



Jordan Stringfellow, P.E.
Project Manager

JHS/

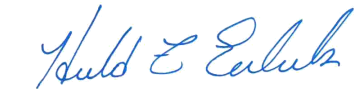
Attachment

City of Foley

Ralph Hellmich, Mayor

Date: _____

Volkert, Inc.



Harold Eubanks, P.E.
Civil / Aviation Manager

Date: 4-4-2022

AMENDMENT NO. 1 – TASK ORDER 05 ATTACHMENT A

ENGINEERING FEE PROPOSAL

FOR

MASTER PLAN / ALP UPDATE

FOR



**CITY OF FOLEY
FOLEY, ALABAMA**

AT

**FOLEY MUNICIPAL AIRPORT
FOLEY, ALABAMA**

PREPARED BY:

VOLKERT

**1110 Montlimar Drive, Suite 1050
Mobile, Alabama 36609**

Volkert Project No: 1059405

Submission Date: March 31, 2022

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ATTACHMENTS

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PROJECT DESCRIPTION: Master Plan / ALP Update

AMENDMENT NO. 1

Amendment No. 1 includes the addition of subconsultant services from Quantum Spatial, Inc. to obtain and analyze obstruction survey data for the Threshold Siting Surface of Runway 18/36 in accordance with Table 3-2, Row 4 of FAA Engineering Brief #99.

PROJECT INTRODUCTION & SCOPE

This project will provide for updating the Airport Master Plan / Airport Layout Plan (ALP) for Foley Municipal Airport as described by FAA and in accordance with AC 150/5070-6B. The last Master Plan / ALP update was completed in January 2013. The proposed update will incorporate recent modifications to the airfield and update the forecast and growth needs for the next planning cycle.

The engineering services will include production of plans and technical specifications to be used for bid procurement and construction. Bid procurement and engineering construction services for this project will be included under a separate task order when funding is obtained.

BASIC SERVICES (Lump Sum)

No Basic Services are to be added in Amendment No. 1. Basic Services are included under the original Contract.

SPECIAL SERVICES (Cost Plus with Not to Exceed)

Special Services include additional Aerial Survey services. An itemized list of services is anticipated:

- Aerial Survey (provided by Quantum Spatial, Inc.)
 - Obtain and analyze survey data for the Threshold Siting Surface (TSS) of Runway 18/36 in accordance with Table 3-2, Row 4 of FAA Engineering Brief #99.

PROJECT DESCRIPTION: Master Plan / ALP Update

SUMMARY OF ENGINEERING FEE PROPOSAL AMENDMENT NO. 1	
BASIC / PROFESSIONAL SERVICES	
SERVICE DESCRIPTION	TOTAL COST
N/A	\$0.00
TOTAL BASIC SERVICES COST	\$0.00
SPECIAL SERVICES	
SERVICE DESCRIPTION	TOTAL COST
TOTAL AERIAL SURVEY COST - AMENDMENT NO. 1	\$1,050.00
TOTAL SPECIAL SERVICES COST	\$1,050.00
TOTAL ENGINEERING COST	\$1,050.00

PROJECT DESCRIPTION: Master Plan / ALP Update

Task No.	SUBCONSULTANT (QUANTUM SPATIAL, INC.) AERIAL SURVEY - AMENDMENT NO. 1	
3	AERIAL SURVEY - QUANTUM SPATIAL, INC.	COST
3.1	Aerial Survey (TSS OBSTRUCTION SURVEY)	\$1,000.00
SUBTOTAL SUBCONSULTANT COST		\$1,000.00
Volkert, Inc. (Management Fee, 5% of Total Subconsultant Fee)		\$50.00
TOTAL AERIAL SURVEY COST - AMENDMENT NO. 1		\$1,050.00

NTE

AMENDMENT NO. 1 – TASK ORDER 05 ATTACHMENT B

SUB-CONSULTANT PROPOSALS

FOR

MASTER PLAN / ALP UPDATE

FOR



CITY OF FOLEY
FOLEY, ALABAMA

AT

**FOLEY MUNICIPAL AIRPORT
FOLEY, ALABAMA**

Volkert Project No: 1059405

Submission Date: March 31, 2022



March 31, 2022

Mr. Jordan Stringfellow, P.E.
Volkert, Inc.
1110 Montlimar Dr., Suite 1050
Mobile, Alabama 36609

Project: 040303 | Aeronautical Obstruction Survey – Foley Municipal Airport (5R4) ALP Update

Dear Mr. Stringfellow,

This summary of work describes our understanding of the scope of work and services required for the airport data collection supporting an airport property mapping project for the Foley Municipal Airport (5R4) located in Foley, AL. Please note: The format will NOT be collected to FAA ADIP standards, nor will it be uploaded to FAA ADIP.

Summary of Work

For this project, we will acquire new vertical stereo digital imagery at a physical image scale of 1"=2,500' of the obstruction surface areas and 1"= 1,250' of the airport property. The aerial imagery will cover all of the surfaces using a UltraCam Falcon Prime (UCFp), or comparable, during leaf-on conditions.

From the 1"=2,500' imagery, we will produce the following:

- Identification and mapping of obstruction obstacles for the Part 77 NPIR (A) surfaces

From the 1"= 1,250' imagery, we will produce the following:

- 100 scale mapping with 2' contours of the existing airport property and surrounding area (142 acres)
- Color digital orthophotos with a 0.5' pixel resolution

Quality Standards

The project has been designed to conform to the National Map Accuracy Standards for 1"=100' scale planimetric feature collection, two foot contours and six inch orthophoto production.

Project Area

The project area encompasses all of Foley Municipal Airport (5R4) as shown in attached exhibits.

Control Surveying

The aerial photography will be completed with ABGPS control which will be used for the base control for the geo-referencing of the aerial imagery. Quantum Spatial will process the ABGPS data using COR stations and reference it to the project control datums:

Horizontal: North American Datum of 1983/2011 (NAD 83(2011)), in the AL State Plane Coordinate System, West Zone in US survey feet.

Vertical: North American Vertical Datum of 1988 (NAVD 88)

Volkert will obtain all necessary ground control photo identifiable control check points required to validate the ABGPS control. Our staff will provide information on the specific locations required to support the ABGPS control.



Photogrammetric Mapping

We will collect the features normally shown on 1"=100' scale mapping within the mapping limits identified in the attached exhibit. We will build a digital terrain model (DTM) by collecting masspoints and breaklines. These DTM elements will be used to construct a triangulated irregular network (TIN) surface from which 2' contours will be interpolated. Contours will be dashed in areas where the ground is obscured by trees, dense brush, deep shadows or other obstructing features. Dashed contours indicate a lower level of accuracy. Additional field surveys should be performed in areas of dashed contours prior to design. All contours will be continuous polylines. The final data will be delivered in AutoCAD format.

Production Schedule

We will work with you to finalize a mutually agreeable schedule for the project. We will make a reasonable effort to maintain the agreed-upon schedule. However, should the project be interrupted by technical problems beyond our control, including control rescheduling may become necessary.

Deliverables

QSI will deliver the following items to Volkert:

- Planimetric data and two foot contours in Civil 3D format
- Color digital orthophotos with a 0.5' pixel resolution in GeoTIFF (mapping limits)
- 2 color enlargements (30"x40") covering the airport and surrounding area (mounted/laminated/framed)
- Obstruction survey data
 - EX Runway 18/36 - Part 77 – NPIR (A)
 - ULT Runway 18/36 – Part 77 – NPIR (A)
 - EX Runway 18/36 – Table 3-2 – Row 4

All digital files will be delivered on external hard drive or CD/DVD.

Cost and Payment Terms

Compensation for the above services will be provided as a lump sum cost of U.S. \$35,292.00.

Client Responsibilities

The successful and timely completion of this project is dependent upon a number of elements and work tasks, some of which involve participation by Volkert. You will be responsible for designating a representative for the project who will have the authority to transmit instructions, receive information, and make timely decisions with respect to the services provided by Quantum Spatial.



Quantum Spatial Representative

Jill Mahoney, Project Manager and Marlin Zook, Technical Manager, will represent us during the performance of the services to be provided under this agreement. Each has the authority to transmit and receive instructions and make decisions with respect to the services. Each is authorized to commit the necessary resources towards completing the services described herein.

We look forward to working with you and your staff to complete this project in a timely and cost effective manner. Should you have any questions, please call me at 803-351-3136 or email me at the address shown below.

Sincerely,
Quantum Spatial, Inc.

David Grigg
Aviation Program Director
dgrigg@quantumspatial.com

