ADDENDUM 4

TASK ORDER FROM LAKE HAVASU CITY TO C&S ENGINEERS, INC.

LAKE HAVASU CITY PROJECT NO. AP1480

1.	Task Order Number: 4
2.	Title: Construction Administration New Electrical Vault and Back-up Emergency Generator
3.	Task Order Project Number:
4.	Location: Lake Havasu City Municipal Airport
5.	Scope of Services Required: See Exhibit A
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6.	City Contact: Greg Froslie
	Consultant Contact: Lance R. McIntosh, P.E.
7.	Performance Time: 60 calendar days
8.	Cost: _\$58,041.25 – Rate Basis, See Exhibit B for derivation of fee
9.	Attachments: A-Scope of Services; B-Manhour Estimate; C – Additional Work Fee Schedule
10.	The parties hereto executed the original Task Order on:
	Lake Havasu City C&S Engineers, Inc.
	Date Date

EXHIBIT A

SCOPE OF WORK

Project Title: New Electrical Vault and Back-Up Emergency Generator

Airport Name: Lake Havasu City Municipal Airport Services Provided: Construction Administration Services

Project Description:

The Consultant shall provide the required construction administration services for the New Electrical Vault and Back-up Emergency Generator construction project (Project). The Project will be performed and constructed by the CITY with grant assistance from the Federal Aviation Administration (FAA) Airport Improvement Program (AIP) and the Arizona State Department of Transportation (ADOT).

During construction, CONSULTANT will provide part-time construction inspection and design support. Once construction is complete, CONSULTANT will produce record drawings and a final construction report and assist the City with the grant closeout process. CONSULTANT's cost proposal is based on a portion of the number of calendar days allotted to the Contractor in the construction contract (60 calendar days) and the hours outlined in EXHIBIT B.

Services to be provided by the CONSULTANT shall include construction administration and inspection services, as applicable, required to accomplish the following items ("Basic Services"):

TASK I - CONSTRUCTION CONTRACT ADMINISTRATION PHASE

The Construction Contract Administration Phase shall consist of observation of the construction to become generally familiar with the progress and quality of the Contractor's work to determine if the work is proceeding in general conformity with the Contract Documents. In addition, the CONSULTANT shall aid the CITY by acting as its liaison and Project coordinator with the FAA and ADOT during the construction of the Project. Construction Contract Administration, including the following services:

- 1. Provide consultation and advice to the CITY during construction, including the holding of a preconstruction conference, weekly construction coordination meetings, and other meetings required during the course of construction. Prepare and distribute minutes of all meetings.
- 2. Review, approve, or take other appropriate action on all Contractor-required submittals, such as construction schedules and phasing programs, shop drawings, product data, catalog cuts, and samples.
- 3. Review alternative construction methods proposed by the Contractor and advise the CITY of the impact of these methods on the schedule and quality of the Project.
- 4. Prepare supplemental drawings and change orders necessary to execute the work properly within the intended scope. Assist the CITY in resolving contractor claims and disputes.
- 5. Provide interpretation of the Contract Document requirements and advise the Contractor of these on behalf of the CITY when necessary.
- 6. Furnish the CITY record drawings for the completed Project taken from the annotated record drawings prepared by the resident inspector based upon Contractor-provided information.
- 7. Prepare reimbursement request packages for the CITY. The CITY shall submit the packages to the funding agencies.
- 8. Conduct pre-final and final inspections of the completed Project with the CITY's airport personnel, FAA, ADOT and the Contractor.
- 9. Issue certificates of construction completion to the CITY, FAA, and ADOT.

10. Perform an orderly closeout of the Project as required by the CITY, FAA, and ADOT, including preparation of the Final Project Construction Report per FAA standards.

TASK II - CONSTRUCTION OBSERVATION PHASE

The construction observation phase shall consist of construction observation by a part-time inspector and supporting staff during critical phases of the project such as work in the air operations area adjacent to taxiways and aprons, building placement and construction, circuit installation and connections, and installation of major bid items. Construction observers will also:

- 1. Maintain a Project record in accordance with requirements of the FAA and ADOT for aviation capital projects.
- 2. Review documents and submissions by Contractor(s) pertaining to scheduling and advise the CITY as to their acceptability.
- 3. Observe the Work when on site to determine general conformity with the Contract Documents and to ascertain the need for correction or rejection of the Work. Neither the activities of the inspector and/or supporting staff nor the presence of any of them at a construction/Project site shall relieve Contractor nor make Consultant responsible for, Contractor's obligations, duties, and responsibilities, including, but not limited to, construction means, methods, sequences, techniques, or procedures necessary for performing, superintending, or coordinating the Work in accordance with the Contract Documents and any health or safety precautions or measures required by regulatory agencies.
- 4. Attend and conduct pre-construction and pre-installation conferences; bi-weekly progress meetings; and final inspection of the completed Project.
- 5. Observe testing and inspection when on site. Arrange for, conduct, or witness field, laboratory, or shop tests of construction materials as required by the plans and specifications for the Project; monitor the suitability of materials on the Project site or brought to the Project site to be used in construction; interpret the contract plans and specifications and check the construction activities for general compliance with the design intent; measure, compute, or check quantities of Work performed and quantities of materials in-place for partial and final payments to the Contractor.
- 6. Prepare and submit inspection reports of construction activity and problems encountered as required by the City, FAA, and ADOT.
- 7. Prepare, review, and approve monthly and final payments to Contractor(s).

RESPONSIBILITIES/DUTIES OF INSPECTION STAFF

In general, the on-site inspection staff is responsible for monitoring construction activity on a project and documenting their observations in a formal project record.

Inspection activity generally consists of the following records and duties:

- 1. Inspector's Daily Reports(when on site)
- 2. Summary of Inspector's Daily Reports(when on site)
- 3. Preparation of FAA Weekly Reports
- 4. Review of Contractor Daily Reports
- 5. Preparation of Material Acceptance Reports
- 6. Preparation of Certification and Testing Log Book

- 7. Prepare statement of days charged on a weekly basis
- 8. Conduct Project meetings with CITY and Contractors
- 9. Field measure quantities on a daily basis (when on site)
- 10. Preparation of Periodic Payment Request for Contractor
- 11. Record deviations from the contract plans for preparation of record drawings
- 12. Preparation and review of Change Orders/Force Account Work

The Construction Observer will assist the CITY and Contractor regarding construction activity as it relates to aircraft operations and coordination of Notice to Airmen (NOTAMS) as required.

TASK III – SUBCONSULTANTS/SPECIAL SERVICES

Special inspection – Western Technologies Inc, will perform field, laboratory, and/or shop tests of construction materials as required by the plans and specifications for the Project.

Special inspection – JK Engineers will review electrical shop drawings and submittals to determine the suitability of materials proposed for use on the project. JK will also assist with the interpretation of the contract plans and specifications and perform a minimum of one (1) site visit to check the construction activities for general compliance with the design intent.

END OF EXHIBIT

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				WORK	SUMM	AKY			Data		9/28/17		
PROJECT: NEW ELECTRICAL VAULT AND BACK-UP GENERATOR IMPROVEMENT:					те				Date: Service Group Mgr:		MICHAEL HOTA	VI INC	
		CONSTRUCTION ADMINISTRATION	10						LANCE MCINTOSH				
SERVICES: CONSTRUCTION ADMINISTRATION CLIENT: Lake Havasu City									Facility Manager: Project Manager:		LANCE MCINTOSH		
CLIENT MGR:									Project Number:		K33.003.001		
									,				
						SEN							TOTAL
CONT	PHASE		ADMIN	SEN	STAFF	PROJ	MAN	CONST	SEN	DIRECT	SERVICES BY		HOURS
NO.	NO.	TASK	ASST	DES	ENG	ENG	ENG	SUP	INSP	COSTS	OTHERS	TOTALS	PER TASI
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		CONSTRUCTION OBSERVATION DESIGN SUPPORT					32	42	160	\$2,640.00	,	\$21,040.00	160 74
		AS-BUILT/RECORD DRAWINGS		8	24		32 4	42	25	\$1,001.25	,	\$13,481.25 \$7,355.00	65
		PROJECT CLOSURE	8	0	16		4	4	15		,	\$7,355.00	47
		SBO - SPECIAL INSPECTION/CONSULTING	0		10		4	4	13		\$5,500.00	\$5,103.00	41
		SBO - QUALITY ASSURANCE TESTING									\$5,500.00	\$5,500.00	•
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			8	8	40	,	40	50	200	\$3,641.25	\$11,000.00	\$58,041.25	346
CONS	RUCTIO	ON MANAGEMENT ASSUMPTIONS:											
CONST	RUCTIO	DN OBSERVATION											
		weeks *5 days/wk* 8 hrs/day			160								
Mileage	: 4 weel	ks * 450 miles RT/wk @ \$0.445 per mile				\$1,001.25							
		T): 4 weeks * 6 hrs per week			24								
Per die	m: 4 wee	eks * 5 nights per week * \$132 per night				\$2,640							
	1			TOTAL	184	\$3,641.25							
DESIG	N SUPP	OPT											
		neer: 3 trips @ 8 hours/trip			24								
· · · · · · · · · · · · · · · · · · ·		neer: 4 weeks * 2 hours/week			8								
Manadi	y =y			TOTAL	32								
Managi		trips @ 8 hours/trip			32								
	Supr.: 4									İ			
Const.		weeks * 2 hours/week			10								
Const.				TOTAL	10 42								

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PROJ DESCR					lesign support			A/E:	C & S ENGINEERS, INC	
T NOO DEGO	di 11014.			ator Improver		TOT THE THEW	Licetrical	PROJECT NO:	K33.003.001	J.
CLIENT:		Lake Havasu	ı City					C&S CONTACT:	LANCE McINTOSH	
CLIENT MAN	IAGER:	Greg Froslie	_					ode com/ten	D WELL WELL WORLD	
I. ESTIMAT	E OF DIRECT	SALARY CO	STS:			BILLING				
					F	RATE OF PAY		ESTIMATED		ESTIMATED
		TITLE				(\$/HR)	@	HOURS		COST
	Α.	MANAGING I	ENGINEER			\$180.00	X	40	=	\$7,200.00
	B.	SENIOR PRO	JECT ENGINE	ER		\$130.00	X	0	=	\$0.00
	C.	STAFF ENGI	NEER			\$100.00	X	40	=	\$4,000.00
	D.	SENIOR DES	IGNER			\$90.00	Х	8	=	\$720.00
	E.	ADMINISTRA	TIVE ASSIST	ANT		\$60.00	X	8	=	\$480.00
	F.	CONSTRUCT	TON SUPERV	ISOR		\$160.00	X	50	=	\$8,000.00
	G.	SENIOR INSP	ECTOR			\$115.00	X	200	=	\$23,000.00
							TOTALE	STIMATED DIREC	CT SALARY COST:	\$43,400.00
II. ESTIMA	TE OF DIRECT	EXPENSES:								
	Α.	TRAVEL, BY	AUTO:							
		5	TRIPS @	450	VIILES/TRIP @	\$0.445	=	\$1,001.25		
	B.	TRAVEL, BY	AIR:							
	0	PER DIEM:	TRIPS @	0	PERSONS @	\$0.00	=	\$0.00		
	C.	20	DAYS @	1	PERSONS @	\$132.00	=	\$2,640.00		
	D.	MISCELLANE	EOUS:				=	\$0.00		
							Subtotal =	\$3,641.25		
III eliboot	TDACTO-						TOTAL	ESTIMATE OF D	RECT EXPENSES:	\$3,641.25
III. SUBCON	VIRACIS:			COMPA	VY NAME				<u>TYPE</u>	
	A	OLIAI ITV AS	SURANCE T		VTI				RATE BASIS	\$5,500.00
	В.		ON/CONSULT		BINEERS				RATE BASIS	\$5,500.00
								TOTAL	. COST OF SBO'S:	\$11,000.00
IV. TOTALS	S:									

TOTAL MAXIMUM COST FOR DESIGN AND CONSTRUCTION SERVICES:

\$58,041.25

EXHIBIT C ADDITIONAL SERVICES

Additional Services, as requested, will be provided at the following rates:

LABOR CATEGORY	BILL	ING RATE	0	VERTIME RATE						
Service Group Manager	Operations	\$	250.00							
Managing Engineer		\$	180.00							
Administrative Assistant		\$	60.00							
	Engineering									
Principal Engineer		\$	180.00							
Project Manager		\$	150.00							
Senior Project Engineer		\$	130.00							
Staff Engineer		\$	100.00							
Senior Designer		\$	90.00							
Design Technician		\$	80.00							
CADD Operator		\$	65.00							
Construction Management										
Senior Inspector		\$	95.00	\$	110.00					
Inspector		\$	85.00	\$	105.00					
Inspector (Outside Phoenix Metro Area)		\$	115.00	\$	115.00					