MODIFICATION NO. 8 TO ON-CALL AGREEMENT
DATED SEPTEMBER 3, 2015
(RFQ NO. 2015-300)

FOR PROFESSIONAL ENGINEERING SERVICES FOR THE AIRPORT

THIS MODIFICATION TO ON-CALL AGREEMENT made and entered into this ____ day of _____, 2017, by and between the City of Lee's Summit, Missouri (hereinafter "City"), and Crawford, Murphy and Tilly, Inc. (hereinafter "Engineer").

WITNESSETH:

WHEREAS, City and Engineer entered into an On-Call Agreement dated September 3, 2015 (RFQ No. 2015-300) for professional engineering services for the Airport (hereinafter "Base Agreement"); and

WHEREAS, the Base Agreement was modified with Modification No. 1 dated September 23, 2015; and

WHEREAS, the Base Agreement was modified with Modification No. 2 dated December 21, 2015; and

WHEREAS, the Base Agreement was modified with Modification No. 3 dated April 4, 2016; and

WHEREAS, the Base Agreement was modified with Modification No. 4 dated October 6, 2016; and

WHEREAS, the Base Agreement was modified with Modification No. 5 dated November 17, 2016; and

WHEREAS, the Base Agreement was modified with Modification No. 6 dated July 19, 2017; and

WHEREAS, the Base Agreement was modified with Modification No. 7 dated November 17, 2017; and

WHEREAS, City and Engineer desire to amend the provisions of the Base Agreement, as modified, as provided herein; and

WHEREAS, the amended engineering services contained in this Modification No. 8, were services originally contemplated by the City and the Engineer when entering into the Base Agreement, and which were included in the request for qualifications review that was conducted by the City when awarding the contract for the Base Agreement; and

WHEREAS, Engineer has submitted a proposal for the amended engineering services and an estimate of engineering costs to perform said services; and

WHEREAS, the City Manager is authorized and empowered by City to execute contracts providing for engineering services.

NOW THEREFORE, in consideration of the mutual covenants and considerations herein contained, **IT IS HEREBY AGREED** by the parties hereto to amend the following Articles contained in the Base Agreement as follows:

ARTICLE I
SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER

The Base Agreement is hereby modified and amended to include the following scope of services for the New Fuel Facility Development:

This project shall include the development of bidding documents for a new fuel facility including a base bid of 1 each 12,000-gallon Jet A and 12,000 gallon 100LL above ground bulk fuel storage tanks with an additive alternate for two additional tanks. The project shall include associated infrastructure including both landside and airside access on a site to be determined at the Lee's Summit Municipal Airport. The project shall include the design of pavements to connect the new fuel storage system to public roads and airfield pavements. This scope shall not include removal or modification of the existing airport fuel facilities or any non-aircraft fuel storage systems. The scope of services for this work shall include:

- Preliminary layout, evaluation, and analysis of up to three potential sites for the new fuel storage facility. Evaluation will include site layout, access road geometry, utility impacts, and preliminary cost estimates.
- Topographic survey of the selected fuel development site. Due to the uncertain nature of the limits of this scope element an allowance has been provided for in the engineering estimate. Prior to the initiation of the topographic surveys an estimate of effort will be developed and submitted to the City.
- Geotechnical evaluation and report.
- The development of bidding documents for the procurement of a minimum of two bulk fuel storage systems, one suitable for the storage of Jet A fuel, one suitable for the storage of 100LL aviation fuel. See attached scope of work related to the fuel system design. Design shall include sitework to provide public and airside access to the fuel storage facility, lighting, water, drainage and utilities.
- Design of all pavements described above including pavement design, typical sections, grades, and material specification.
- Development of a Construction Safety and Phasing Plan meeting the requirements of FAA AC 150/5370-2F.
- Submittal of 7460 Airspace reviews to FAA for the new facility.
- Grading and erosion control
- Biding phase services including attendance at a pre-bid meeting, responding to questions and bid review and recommendation.

The Scope of Services does not include:

- Development or updating of the Airport's Storm Water Pollution Prevention Program (SWPPP), and Spill Prevention Control and Countermeasures Program (SPCC). These items will be completed by others.
- National Environmental Policy Act clearances.
- Coordination with the Lee's Summit Planning Development Group and preparation of a Final Development Plan.

Submittals include:

- 30% Preliminary Design Report (letter format)
- 95% Pre-final Contract Documents
- 100% Final Bidding Documents

- Final Design Report (letter format)

This scope does not include construction phase services, these services may be added later via an additional modification to the on-call agreement.

All other terms of the Base Agreement not amended by the Modification to On-Call Agreement shall remain in full force and effect.

ARTICLE IV
PAYMENTS TO THE ENGINEER

Payment will be made based upon hourly and direct expenses as shown in Exhibit A attached to this Modification No. 8 with a Not to Exceed Maximum Payment of $165,310.00. All other terms of the Base Agreement not amended by the Modification to the On-Call Agreement shall remain in full force and effect.

This Modification No. 8 to On-Call Agreement shall be binding on the parties thereto only after it has been duly executed and approved by the City and Engineer.

IN WITNESS WHEREOF, the parties have caused this Modification to On-Call Agreement to be executed on the ____ day of _____, 20___.

CITY OF LEE'S SUMMIT

_____
Stephen A. Arbo, City Manager

APPROVED AS TO FORM:

_____
Office of the City Attorney

ENGINEER:

_____
BY: Dan Meckes
TITLE: President

ATTEST:

_____

CRAWFORD, MURPHY & TILLY, INC.
CONTRACT ATTACHMENT - EXHIBIT A - 2017 PROFESSIONAL SERVICES COST ESTIMATE

CLIENT	**Lee's Summit Municipal Airport**
PROJECT NAME	**New Bulk Storage Fuel Facility Development**
CMT JOB NO.	**To Be Determined**

Prep By	Tcs
DATE	11/13/17
Apprvd	
DATE	12/01/17

TASK NO.	TASKS \ CLASSIFICATIONS	PRINCIPAL	SENIOR PROJECT ENGINEER / MANAGER	PROJECT ARCHITECT	PROJECT MANAGER	PROJECT ENGINEER	SENIOR LAND SURVEYOR	SENIOR ARCHITECT	SENIOR ENGINEER MANAGER	SENIOR TECHNICAL GIS SPECIALIST	SENIOR PLANNER	ENGINEER ARCHITECT	SENIOR TECHNICIAN	TECHNICAL PLANNER	TECHNICAL MGR	TECHNICIAN II	TECHNICIAN I	ADMIN ASSISTANT ACCOUNTANT	MAN HOURS & LABOR SUMMARY	
	CURRENT YEAR 2017 HOURLY RATES	$200	$195	$165	$135	$125	$115	$115	$125	$80	$100	$75	$50	TOTAL
1	Topographic Survey							4						4
2	Geotechnical Investigation							4						4
3	Site Evaluation		8		16			60			8			92
4	Preliminary Design Report/7460s		4					16			4			24
4	Construction Phasing Plan (CSPP)		2					8			4			14
5	Proposed Improvements/Geometric Layout		6		16			40			8			70
6	Grading , Drainage, and Spot Elevations		4		16			40			8			68
7	Erosion Control		2					4			4			10
8	Typical Sections/Details		2					12			4			18
9	Lighting/Electrical Layout		2					24			8			34
10	Water Line/Hydrants		2		16			24			8			50
11	Utility Coordination				40			4						44
12	Fuel System Design (incl structural)		8		80									88
13	Planning and Development Group Coord/Submittal		2		24									26
14	Quantity Calcs, cost estimate, construction time cals		2					16			4			22
15	Coordination/Review Meetings		16					16						32
16	Front End Documents		4					16						20
17	Technical Specifications		8					16						24
18	Bidding Phase		8					12						20
	TOTAL MAN HOURS		80		208			316			60			664
	SUBTOTAL - BASE LABOR EFFORT		$15,600		$28,080			$36,340			$6,000			$86,020

	TASKS (CONTINUED)	TOTAL LABOR EFFORT	DIRECT EXPENSE & REIMBURSABLES											TOTAL FEE
			TRAVEL MILEAGE	MEALS & LODGING	PRINTING	EQUIP-MENT	MISC	SURVEY MTL	SUBS	SUBS ADMIN	OTHER EXP	OTHER EXP	TOTAL EXPENSE	
1	Topographic Survey	$460							$8,000				$8,000	$8,460
2	Geotechnical Investigation	$460							$4,500				$4,500	$4,960
3	Site Evaluation	$11,420												$11,420
4	Preliminary Design Report/7460s	$3,020												$3,020
4	Construction Phasing Plan (CSPP)	$1,710												$1,710
5	Proposed Improvements/Geometric Layout	$8,730												$8,730
6	Grading , Drainage, and Spot Elevations	$8,340												$8,340
7	Erosion Control	$1,250												$1,250
8	Typical Sections/Details	$2,170												$2,170
9	Lighting/Electrical Layout	$3,950												$3,950
10	Water Line/Hydrants	$6,110												$6,110
11	Utility Coordination	$5,860												$5,860
12	Fuel System Design (incl structural)	$12,360							$46,500				$46,500	$58,860
13	Planning and Development Group Coord/Submittal	$3,630												$3,630
14	Quantity Calcs, cost estimate, construction time cals	$2,630												$2,630
15	Coordination/Review Meetings	$4,960	$50										$50	$5,010
16	Front End Documents	$2,620												$2,620
17	Technical Specifications	$3,400												$3,400
18	Bidding Phase	$2,940	$50										$50	$2,990
	TOTALS	$86,020	$100						$59,000				$59,100	$145,120
	TIME PERIOD OF PROJECT	2017	2018	2019	2020	TOTAL	EST % OF OT HRS INCLUDED ABOVE					10%	MULTI-YEAR + OT	
	PERCENTAGE OF WORK TO BE PERFORMED BY YEAR	10%	90%			100%	AVERAGE OVERTIME RATE PREMIUM					15%	MLTPLR & AMT	
	WEIGHTING FACTOR FOR 5% ANNUAL ADJUSTMENT	0.1000	0.9450			1.0450	OT ADJUSTMENT FACTOR					0.0150	1.0600	$5,160
	ESTIMATED CONTINGENCY												10%	$15,030
	ROUNDING													
	TOTAL FEE	MATH CROSS CHECK IS OK												$165,310
											Man Hrs	Lbr & Exp	All	

Stantec Consulting Services Inc.
482 Payne Road Scarborough Court, Scarborough ME 04074-8929

December 1, 2017
File: 1917

Attention: Mr. Ty Sander, P.E.
Crawford, Murphy & Tilly, Inc.
Gateway Tower
One Memorial Drive, Suite 500
St. Louis, Missouri 63102

Dear Mr. Sander,

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

Stantec Consulting Services Inc. (Stantec), is pleased to offer this proposal to Crawford, Murphy, and Tilly, Inc. (CMT) for engineering services related to the design of a new aviation fueling system at the Lee Summit Municipal Airport (the "Airport" or "Lee Summit").

About Stantec

Stantec provides professional consulting services in planning, engineering, project management, and project economics for infrastructure and facilities projects. We support public and private sector clients in a diverse range of markets, at every stage, from initial concept and financial feasibility to project completion and beyond. Our services are offered through approximately 22,000 employees operating out of more than 200 locations across the Globe. Stantec trades on the TSX and on the NYSE under the symbol STN.

The Stantec Fuel System Engineering Team specializes in the design of fleet, aviation and other specialized fueling facilities. With experience across North America, the team has designed over 100 car, truck, and aircraft fueling and/or vehicle maintenance facilities in the United States and Canada. Additionally, Stantec has designed or consulted on numerous unique fueling applications, including performance-based designs, multi-level fueling facilities, deployable fueling systems (for the United Nations), marine fueling depots, alternative fuel/compressed natural gas facilities, and lighthouse fuel systems.

The Stantec team is led by Messrs. Ronald Laurence and Jason Carr, each of whom sit on national code committees (National Fire Protection Association (NFPA) and Petroleum Equipment Institute (PEI)) that govern the installation of fuel systems of various types.

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

Our Understanding of the Design Concept

We understand that the Airport currently operates an existing underground fueling system dispensing 100LL and Jet A. The Airport would like to continue to operate these systems. As a supplement, the Airport would like to install additional aboveground storage tanks to store 100LL and Jet-A. The Airport would like a base design of one (1) 12,000 gallon 100LL tank and one (1) Jet-A tank with the option to add a second tank of each product to the project. In addition, the Airport would like the system to be designed for future expansion. We understand that the fuel storage facility will be designed to load mobile refuelers, and will not be configured for retail, direct to aircraft, general aviation sales.

We also understand that there is a desire to construct a vehicle fueling facility in the future for City ground fleet vehicles.

Scope of Services

Design Elements

We understand that the design elements included in our scope are:

- A 24,000 gallon (with an option to add another 24,000 gallons) aboveground aviation fuel storage facility, consisting of new shop-built ASTs, storing both 100LL and Jet A;
- Loading, filtration, and delivery systems to receive, reclaim, recirculate, and deliver fuel;
- Electrical systems to support the tanks, including conduits, conductors, electrical equipment, grounding systems, monitoring devices, and an emergency-stop system;
- Ability to expand the system in the future; and
- Provisions/concept for a future gasoline and diesel fueling system.

We have assumed the following regarding related design elements:

- CMT will design all slabs, foundations, light-pole bases (if required) and containment areas. As such, the design of concrete structures are not included in the Stantec scope;
- CMT will provide a survey in AutoCad format, including existing underground and aboveground utilities, topographic information, surface features/buildings, and any nearby property lines or rights-of way (that may be subject to fire-code tank setbacks);
- CMT or others will be creating or updating the SPCC Plan for this facility. While Stantec will design the facility to be compliant with 40 CFR 112, we do recommend that the Professional Engineer ultimately certifying the new or updated SPCC Plan review the construction documents for this project prior to bidding, to ensure that their approach to

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

compliance is accommodated in the Stantec design (understanding that interpretation of 40 CFR 112 can vary between professionals and owners);
- We have assumed that a revenue/transaction control system will not be required for the vehicle loading, and therefore the design of such a system is not included in the scope;
- CMT or others will coordinate with the local utility to provide electrical service (if a new service is necessary), based on anticipated loads provided by Stantec. We have assumed the service entrance location will be in close proximity to the proposed tank area;
- CMT will design any standby power systems that become included in the scope;
- CMT will provide Stantec a geotechnical report or geotechnical information;
- All permitting, including tank registration, will be provided by others or specified for the contractor to complete. Stantec has included in the scope responses to three (3) rounds of comments from varying jurisdictions on the construction documents;
- Construction Administration or Construction Phase Services (including site observations, shop drawing review, response to RFIs, design bulletins, as-built drawings or closeout document review) are not included in this proposal or the fees outlined below.

We have assumed that the following design elements and tasks are not included in our design scope:

- Detailed design or construction documents associated with the fuel ground fuel system;
- Structural design or the design of any structural elements;
- Electrical rooms or sheds;
- Environmental consulting services, including tank removal and closure specifications and activity;
- Civil engineered drawings including base, drainage, site plans, or utility plans, except as noted above;
- Fire suppression or life safety systems;
- Geotechnical Engineering;
- Electrical design not directly related to the fueling or related systems;
- HVAC, plumbing, or other mechanical designs not related to the distribution of aircraft fuel product or vapor;
- The design of canopies, kiosks, or any other building structures or their roof drainage systems; Stantec can assist with the specification of a pre-manufactured canopy for the containment area;
- Dispensing area or fuel delivery area drainage systems or any other oil-water separator systems; and
- Existing utility relocations.

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

Design Scope and Deliverables

Task 1 – Preliminary Design Report

Stantec will develop a preliminary design report in letter format which will include project scope, key issues and options, a code summary, key cut sheets, and a preliminary (order of magnitude) opinion of probable costs. We have included two (2) phone conferences and one (1) revision/response to comments.

Task 2 –Construction Documents

Stantec will develop construction documents for the design elements listed above. Included will be an updated Opinion of Probable Costs, design drawings (sealed by a Missouri Professional Engineer) and design specifications in CSI format.

Included in the drawings will be equipment lists, notes, site location plans, tank elevations and plans, tank piping and equipment details, conduit plans, wiring diagrams, electrical hazard diagrams, and signage details. Specifications for the tanks, piping, dispensing equipment, electrical and communications systems, and general requirements will be included.

Stantec has assumed that a 95% (draft final) and 100% Issued for Permit and Bid submissions will be included. We have assumed PDF format electronic submittals and up to six (6) copies of wet-sealed hard copies for the 100% submittal.

Task 3 – Bid Support

Stantec will support project bidding by attending up to two (2) bid teleconferences and responding to bidder RFIs.

Task 4 – Permitting

Stantec will coordinate with the Lee's Summit Fire Department and the City of Lee Summit to determine any code requirements and apply for any necessary approvals or permits. Stantec assumes no visits to the site will be required.

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

Optional Tasks

At CMTs request, Stantec can provide a proposal to provide Construction Administration Services. Additional, Stantec can be available for other in-person meetings or site visits on a per-visit basis, for additional fee.

Phasing and Partial Scopes

As with all projects, Stantec understands that this project is subject to a budget. As such, we understand that the ultimate project scope may include only portions of the ultimate envisioned facility. We have assumed that the scope for this project and design will be largely determined at the preliminary design phase. And while we do assume that add/alternate bid items and design elements called out as "future" in the construction documents may be included, we have also assumed that the scope of this project will not be altered substantially once detailed design has begun. If substantial changes are required to the scope of the design, Stantec may require additional fees for those changes.

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

Terms and Price

Stantec proposes to complete the above scope of work on a Time and Materials basis in accordance with the attached fee breakdown and table below, and in accordance with the attached Stantec Terms and Conditions. Stantec can complete a draft Preliminary Design Report within four (4) weeks of authorization to proceed and complete the 95% Construction Documents within twelve (12) weeks of authorization to proceed after approval of the design report.

We have assumed the performance period to be from approximately January 15, 2017 through June 15, 2018, at which time the project is expected to go to bid. Substantial changes to the length of the performance period or delays in project progression may result in the need for additional fees to support additional coordination, additional meetings, or additional design time.

Task #	Task Name	Fee (Not to Exceed $)
1	Preliminary Design Report	$5,800.00
2	Construction Documents	$34,500.00
3	Bid Support	$4,200.00
4	Permitting	$2,000.00
	Total – Base Project	**$46,500.00**

Reference: Proposal for Engineering Services
Aviation Fuel System Design
Lee Summit Municipal Airport – Lee Summit, MO

Please don't hesitate to contact us at (603) 206-7559 should you have any additional questions. We look forward to working with you on this project.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Ronald B. Laurence Jr., P.E.
Principal
Phone: (603) 206-7559
ronald.laurence@stantec.com

Jessica MacDonald, PE
Project Engineer
Phone: (207) 887-3835
Jessica.MacDonald@stantec.com

By signing this proposal, Crawford, Murphy, and Tilly, Inc. authorizes Stantec to proceed with the services herein described and the Client acknowledges that it has read and agrees to be bound by the attached Professional Services Terms and Conditions.

This proposal is accepted and agreed on the ___ day of _____, _____.

Per: Crawford, Murphy, and Tilly, Inc.

Print Name & Title

Signature