Airport Name:	Joplin Regional Airport
Project No.:	AIP-3-29-0037-036
County:	Jasper

AVIATION PROJECT CONSULTANT SUPPLEMENTAL AGREEMENT NO. 1
CONSTRUCTION SERVICES

THIS SUPPLEMENTAL AGREEMENT NO. 1 for Construction Services is entered into by the City of Joplin, Missouri (hereinafter, "Sponsor") and Crawford, Murphy & Tilly, Inc. (hereinafter, "Consultant").

WITNESSETH:

WHEREAS, the Sponsor and the Consultant entered into an Agreement on , to accomplish a project at the Joplin Regional Airport, (hereinafter, "Original Agreement"); and

WHEREAS, the Sponsor and the Consultant now desire to enter into Supplemental Agreement No. 1 to otherwise complete, extend or continue the Original Agreement as provided herein.

NOW, THEREFORE, in consideration of the mutual promises, covenants, and representations contained herein the parties agree as follows:

(1) SCOPE OF SERVICES:

(A) The Services to be provided by the Consultant under Supplemental Agreement No. 1 are additional services which are beyond the scope of services provided in the Original Agreement. These additional professional services are generally described and defined in Section 17 of the Original Agreement and Exhibit II - SA1, which is attached hereto and incorporated herein by reference.

(2) FEES AND PAYMENTS:

(A) The Consultant shall be reimbursed in accordance with Section 9 of the Original Agreement.

(B) The costs of Supplemental Agreement No. 1 shall be in addition to the cost of the Original Agreement.

(C) The lump sum fee payable included in Section 9 of the Original Agreement shall remain the same as in the original agreement.

(D) For and in consideration of the Construction Phase Administration Services rendered by Consultant, Owner shall pay Consultant direct salaries, overhead, direct expenses, and subconsultant fees as specified in Section (9) of the Original Agreement plus a fixed fee of **$28,610.90** for a total not to exceed amount of **$444,735.50.**

(E) Estimated costs for the services in Supplemental Agreement No. 1 are defined in Exhibit IV - SA1 and Exhibit V - SA1, which are attached hereto and incorporated herein by reference.

(3) PERIOD OF SERVICE: Exhibit VI, Performance Schedule, of the Original Agreement is hereby revised to include time for the performance of these additional services. The total time to be added to Exhibit VI for completion of these additional services shall be 120 calendar days after final acceptance. The projected completion date shown on Exhibit VI is now revised to 120 days after final acceptance, which includes time for performance of all remaining services in the Original Agreement and the services in Supplemental Agreement No. 1 and submittal of all deliverables.

(4) DISADVANTAGED BUSINESS ENTERPRISE (DBE) REQUIREMENTS:

(A) DBE Goal: The following DBE goal has been established for this Supplemental Agreement No. 1. The dollar value of services and related equipment, supplies, and materials used in furtherance thereof which is credited toward this goal will be based on the amount actually paid to DBE firms. The goal for the percentage of services to be awarded to DBE firms is 0% of the total Supplemental Agreement No. 1 dollar value.

(B) DBE Participation Obtained by Consultant: The Consultant has obtained DBE participation, and agrees to use DBE firms to complete 0% of the total services to be performed under this Supplemental Agreement No. 1 by dollar value. The DBE firms which the Consultant shall use, and the type and dollar value of the services each DBE will perform, is as follows:

DBE FIRM NAME, STREET AND COMPLETE MAILING ADDDRESS	TYPE OF DBE SERVICE	TOTAL $ VALUE OF THE DBE SUBCONTRACT	CONTRACT $ AMOUNT TO APPLY TO TOTAL DBE GOAL	% OF SUBCONTRACT $ VALUE APPLICABLE TO TOTAL GOAL

(5) SUBCONSULTANTS:

(A) The Consultant agrees that except for those firms and for those services listed below, there shall be no transfer of engineering services performed under this Supplemental Agreement No. 1 without the written consent of the Sponsor. Subletting, assignment, or transfer of the services or any part thereof to any other corporation, partnership, or individual is expressly prohibited. Any violation of this clause will be deemed cause for termination of this Supplemental Agreement No. 1.

Exceptions (Subconsultant Information):

FIRM NAME	COMPLETE ADDRESS	NATURE OF SERVICES
Algier Martin and Associates	P.O. Box 2627 Joplin, MO 64803-2627	Resident Engineer
Palmerton and Parrish	3500 East 13th Street Joplin, MO 64801	Material Testing

(6) ORIGINAL AGREEMENT: Except as otherwise modified, amended, or supplemented by this Supplemental Agreement No. 1, the Original Agreement between the parties shall remain in full force and effect and the terms of the Original Agreement shall extend and apply to this Supplemental Agreement No. 1.

IN WITNESS WHEREOF, the parties have entered into this Supplemental Agreement No. 1 on the date last written below.

Executed by the Consultant this _____ day of _____, 20 ____.

Executed by the Sponsor this _____ day of _____, 20 ____.

CONSULTANT	SPONSOR
By_____	By_____
Title_____	Title_____
ATTEST:	ATTEST:
By_____	By_____
Title_____	Title_____
Approved as to Form:	Approved as to Form:
By_____	By_____
Title_____	Title_____

EXHIBIT II - SA1

SCOPE OF SERVICES

1. Preliminary

   a. Prepare copies of the Construction Plans and Project Manual for use by the Contractor during construction.

   b. Develop a **Federal-Construction Observation Program** in accordance with MoDOT requirements.

   c. Provide a sealed, signed and dated copy of the Construction Observation Program (COP) prior to the pre-construction conference.

   d. Attend and conduct a pre-construction conference. Minutes of the conference will be prepared and distributed to all attendees.

2. Provide construction administration, on-site construction observation, and material(s) testing per the COP:

   a. Provide construction observation services, including preparation of weekly reports and other reports as required by the COP to document the prosecution and progress of the Project.

   b. Review shop drawings and material certification submittals as provided by the Contractor.

   c. Perform material(s) testing (field and laboratory) as required by the COP.

   d. Respond to field issues throughout the duration of the project.

   e. Prepare Contractor's progress estimates and Sponsor's request for reimbursement of funds.

   f. Prepare change orders and supplemental agreements necessary for construction of the project.

   g. Attend and conduct a final review of the Project with the Sponsor, FAA, and the Contractor

3. Project Closeout Phase

   a. Prepare and submit to the Sponsor and FAA one (1) electronic set of record drawings on a compact disc (CD) in .pdf format copied to a single file.

   b. Prepare and submit to the Sponsor and FAA a Final Testing Report as required by the COP.

   c. Prepare and submit to the Sponsor an updated **Airport Layout Drawing (ALD)** showing as-built conditions. The sponsor will approve and sign as necessary and forward four (4) full size copies to FAA for approval. FAA

will distribute the copies as one (1) to the Sponsor, one (1) to FAA, and one (1) to the Consultant. An electronic copy of the updated sheets will be submitted to both FAA and the City in .pdf format, with CADD files submitted to the City.

d. Provide FAA with all closeout documents as required for project final acceptance.

e. Provide an AGIS compliant post-construction survey of safety critical elements in accordance with FAA AC 150/5300-16A, 17C, and 18B and submit for approval to the FAA AGIS website. This scope item shall not include re-acquisition of obstruction data including aerial imagery.

EXHIBIT IV - SA1

DERIVATION OF CONSULTANT PROJECT COSTS (CONSTRUCTION)

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EXHIBIT V - SA1

ENGINEERING CONSTRUCTION SERVICES-COST BREAKDOWN

EXHIBIT IV

DERIVATION OF CONSULTANT PROJECT COSTS

LEE'S SUMMIT MUNICIPAL AIRPORT

Base Bid: Relocation of Taxiway C and Construct New Taxiway F; Additive Alternate: Re-Circuit Runway 18-36

CONSTRUCTION PHASE SERVICES

June 21, 2016

Basic Services	Fixed Fee	Maximum NTE	Hours
Construction Phase	$24,612.94	$411,509.30	1,546

Special Services	Fixed Fee	Maximum NTE	Hours
AGIS Post-Construction Survey	$3,997.96	$33,226.20	296

Total	**$28,610.90**	**$444,735.50**	**1,842**

EXHIBIT IV

DERIVATION OF CONSULTANT PROJECT COSTS

JOPLIN REGIONAL AIRPORT
JOPLIN, MISSOURI

Base Bid: Relocation of Taxiway C and Construct New Taxiway F; Additive Alternate: Re-Circuit Runway 18-36

CONSTRUCTION PHASE SERVICES

June 21, 2016

1 DIRECT SALARY COSTS:

TITLE	HOURS	RATE/HOUR (2016 rates)	COST ($)
Principal	0	$75.62	$0.00
Senior Project Engineer	310	59.98	$18,593.80
Project Manager	0	45.93	$0.00
Senior Engineer	1228	35.55	$43,655.40
Engineer	0	28.25	$0.00
Senior Planner	0	35.08	$0.00
Planner	0	23.38	$0.00
Registered Land Surveyor	0	41.60	$0.00
Senior Technician	8	33.97	$271.76
Technician II	0	24.29	$0.00
Clerk/Secretary	0	21.51	$0.00
	1,546		

Total Direct Salary Costs = $62,520.96

2 LABOR AND GENERAL ADMINISTRATIVE OVERHEAD:

Percentage of Direct Salary Costs @ 162.45 % = $101,565.30

3 SUBTOTAL:

Items 1 and 2 = $164,086.26

4 PROFIT:

15 % of Item 3 Subtotal = $24,612.94 Lump Sum

Subtotal $188,699.20

5 OUT-OF-POCKET EXPENSES:

a. Mileage	14500	Miles @	$0.54	/ Mile =	$7,830.00
c. Meals	70	Days @	$32.00	/ Day =	$2,240.00
d. Motel	60	Nights @	$112.00	/ Night =	$6,720.00
c. Printing and Shipping				=	$1,000.00

Total Out-of-Pocket Expenses = $17,790.00 Not to Exceed

6 SUBCONTRACT COSTS:

a. Allgeier, Martin and Associates, Inc. = $166,891.35
b. Palmerton and Parrish = $38,128.75

= $205,020.10

7 MAXIMUM TOTAL FEE:

Items 1, 2, 3, 4, 5 and 6 = $411,509.30 Not to Exceed

EXHIBIT IV

DERIVATION OF CONSULTANT PROJECT COSTS

JOPLIN REGIONAL AIRPORT
JOPLIN, MISSOURI

Base Bid: Relocation of Taxiway C and Construct New Taxiway F; Additive Alternate: Re-Circuit Runway 18-36

AGIS POST CONSTRUCTION SURVEY
June 21, 2016

1 DIRECT SALARY COSTS:

TITLE	HOURS	RATE/HOUR (2016 rates)	COST ($)
Principal	0	$75.62	$0.00
Senior Project Engineer	0	59.98	$0.00
Project Manager	10	45.93	$459.30
Senior Engineer	0	35.55	$0.00
Engineer	0	28.25	$0.00
Senior Planner	76	35.08	$2,666.08
Planner	40	23.38	$935.20
Registered Land Surveyor	80	41.60	$3,328.00
Senior Technician	60	33.97	$2,038.20
Technician II	30	24.29	$728.70
Clerk/Secretary	0	21.51	$0.00
	296		

Total Direct Salary Costs = $10,155.48

2 LABOR AND GENERAL ADMINISTRATIVE OVERHEAD:

Percentage of Direct Salary Costs @ 162.45 % = $16,497.58

3 SUBTOTAL:

Items 1 and 2 = $26,653.06

4 PROFIT:

15 % of Item 3 Subtotal = $3,997.96 Lump Sum

Subtotal $30,651.02

5 OUT-OF-POCKET EXPENSES:

a. Mileage	772	Miles @	$0.54	/ Mile =	$416.88
b. Meals	5	Days @	$32.00	/ Day =	$160.00
c. Motel	5	Nights @	$112.00	/ Night =	$560.00
d. Survey Equipment - T.S.	5	Days @	$100.00	/ Day =	$500.00
e. Survey Equipment - GPS	2	Days @	$250.00	/ Day =	$500.00
f. Printing and Shipping				=	$438.30

Total Out-of-Pocket Expenses = $2,575.18 Not to Exceed

6 SUBCONTRACT COSTS:

= $0.00

7 MAXIMUM TOTAL FEE:

Items 1, 2, 3, 4, 5 and 6 = $33,226.20 Not to Exceed

Exhibit V

JOPLIN REGIONAL AIRPORT
JOPLIN, MISSOURI

BASIC AND SPECIAL SERVICES
Base Bid: Relocation of Taxiway C and Construct New Taxiway F; Additive Alternate: Re-Circuit Runway 18-36
June 21, 2016

Classification: Gross Hourly Rate:		Principal $228.23	Senior Project Engineer $181.03	Project Manager $138.62	Senior Engineer $107.30	Engineer $85.26	Senior Planner $105.88	Planner $70.56	Registered Land Surveyor $125.56	Senior Technician $102.53	Technician $73.31	Clerk/ Secretary $64.92	Other Costs
A. BASIC SERVICES													
1. Relocation of Taxiway B:													
Project Management (status reports, project coordination, invoicing)			40		80								
Develop Construction Observation Plan			2		10								
Attend and Conduct Pre-Construction Meeting			12		12								
Post Winter shutdown meeting			12		12								
Shop Drawing Review			20		80								
Answer Questions from Field			48		60								
Change Orders/Field Changes			24		60								
Pay Requests			8		40								
Supplimental Field Inspection at phase shifts (3 each @ 3 days each)					120								
Supplimental Field Inspection (60 day phase 3 @ 50 hrs/wk)					450								
Field Visits/Site Inspections, including pre & post winter shutdown			132		132								
Attend Final Inspection			12		12								
Project Closeout Documentation					120								
Record Drawings					40					8			
Total hours =	1,546	0	310	0	1228	0	0	0	0	8	0	0	(1, 2, 3, 4, 5)
Total =	$411,509.30	$0.00	$56,119.34	$0.00	$131,759.64	$0.00	$0.00	$0.00	$0.00	$820.22	$0.00	$0.00	$222,810.10
PART A SUBTOTAL =		**$411,509.30**											
B. SPECIAL SERVICES													
1. Aeronautical Surveys for Approach Procedure Development:													
Establish project file							4						
Project Reporting				4			24	20					
Survey							24	16	80	60	30		
Instrument approach development				6			24	4					
Total hours =	296	0	0	10	0	0	76	40	80	60	30	0	(1, 2, 3, 4, 5)
Total =	$33,226.20	$0.00	$0.00	$1,386.25	$0.00	$0.00	$8,046.70	$2,822.60	$10,044.49	$6,151.64	$2,199.34	$0.00	$2,575.18
PART B SUBTOTAL =		**$33,226.20**											
GRAND TOTAL =		**$444,735.50**											

ATTACHMENT B
RELOCATION OF TAXIWAY B
CONSTRUCT NEW TAXIWAY N
RE-CIRCUIT RUNWAY 18-36
ESTIMATE OF COST

CONSTRUCTION PHASE	HOURS	RATE	EXTENDED COST
Construction Phase			
Inspector III	1450	$30.11	$43,659.50
Inspector III	600	$30.76	$18,456.00
Subtotals	**2050**		**$62,115.50**
Labor Overhead, Est. @		76.7343%	**$47,663.89**
Gen. & Admin. Overhead, Est. @		54.2592%	**$33,703.37**
Total Labor and Overhead			**$143,482.77**
Fixed Fee			**$20,087.59**
Total Labor, Overhead & Fixed Fee			**$163,570.35**
Other Direct Costs			
Travel @ $0.54/Mi.	6150	$ 0.54 per mile	$3,321.00
Subtotal Direct Costs			**$3,321.00**
CONTRACT CEILING FOR CONSTRUCTION PHASE			**$166,891.35**

Contract Time	145	Calendar Days
	21	Weeks
	145	Working Days (incl Sat. & Sun.)

Contract Time	60	Calendar Days
	9	Weeks
	60	Working Days (incl Sat. & Sun.)

WorkSheet		**Hours/Wk**	**Total Hours**
Inspector III	Copley	70	1450
Inspector III	Emmert	70	600

30 Miles/Trip

		Trips	**Miles**
Miles		205	6150

PALMERTON & PARRISH, INC.

Projected Costs for QA Testing

CLIENT : Crawford Murphy & Tilly, Inc.

PROJECT : Relocation of Taxiway C & Construct New Taxiway F

LOCATION: Joplin Regional Airport - Joplin, Missouri

DATE : June 9, 2016

NO.	ITEM DESCRIPTION	UNIT COST		UNITS	EXTENSION
	Clerical & Management / Review				
1	Engineer Review & Attend Pre-Con Meeting	$140.00	/hr.	16.00	$2,240.00
2	Clerical	$56.00	/hr.	8.00	$448.00
3	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; Clerical & Management / Review				**$2,822.00**
	Section P-152-4.1 Unclassified Excavation (36,805 cubic yards)				
1	Field Tech w/ Travel for Density Testing (10 days x 6 hrs/day)	$60.00	/hr.	60.00	$3,600.00
2	Field Density Tests (1 test per 500 cy)	$10.75	/ea.	74.00	$795.50
3	Atterberg Limits & Gradation	$179.75	/ea.	2.00	$359.50
4	Modified Proctor	$265.00	/ea.	2.00	$530.00
5	Mileage	$0.67	/mi.	150.00	$100.50
	Subtotal; Unclassified Excavation				**$5,385.50**
	Section P-158-8.1 CKD Treated Subgrade (33,100 sq. yds.)				
1	Field Tech w/ Travel for Density Testing (5 days x 6 hrs/day)	$60.00	/hr.	30.00	$1,800.00
2	Field Density Tests (1 test per 1000 sy)	$10.75	/ea.	33.00	$354.75
3	Atterberg Limits	$82.50	/ea.	1.00	$82.50
4	Modified Proctor	$265.00	/ea.	1.00	$265.00
5	Mileage	$0.67	/mi.	100.00	$67.00
	Subtotal; CKD Treated Subgrade				**$2,569.25**
	Section P-209-5.1 & 5.2 Crushed Aggregate Base Course (33,222 sq. yds.)				
1	Field Tech w/ Travel for Density Testing (15 days x 4 hrs/day)	$60.00	/hr.	60.00	$3,600.00
2	Field Density Tests	$10.75	/ea.	30.00	$322.50
3	Atterberg Limits	$82.50	/ea.	1.00	$82.50
4	Gradation	$97.25	/ea.	1.00	$97.25
5	Modified Proctor	$265.00	/ea.	1.00	$265.00
6	Mileage	$0.67	/mi.	300.00	$201.00
	Subtotal; Crushed Aggregate Base Course				**$4,568.25**
	Section P-401-8.1.1 Asphalt Surface Course (7,543 tons)				
1	Field Tech to Perform Asphalt Sampling (4 days x 6 hrs/day)	$60.00	/hr.	24.00	$1,440.00
2	Hot Mix Asphalt Testing (4 lots x 4 sublots per lot)	$480.00	/ea.	16.00	$7,680.00
3	Field Tech to Perform Mat Density Cores	$60.00	/hr.	8.00	$480.00
4	Field Tech to Perfrom Joint Density Cores	$60.00	/hr.	8.00	$480.00
5	Core Drill	$150.00	/day	1.00	$150.00
6	Generator	$154.50	/day	1.00	$154.50
7	Asphalt Core Per Inch	$4.25	/in.	48.00	$204.00
8	Core Density	$38.00	/ea.	16.00	$608.00
9	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; Asphalt Surface Course				**$11,330.50**
	Section P-403-8.1 Asphalt Base Course (11,268 tons):				
1	Field Tech to Perform Asphalt Sampling (6 days x 6 hrs/day)	$60.00	/hr.	36.00	$2,160.00
2	Hot Mix Asphalt Testing (6 lots x 4 sublots per lot)	$480.00	/ea.	24.00	$11,520.00
3	Field Tech to Perform Mat Density Cores	$60.00	/hr.	8.00	$480.00
4	Field Tech to Perfrom Joint Density Cores	$60.00	/hr.	8.00	$480.00
5	Core Drill	$150.00	/day	1.00	$150.00
6	Generator	$154.50	/day	1.00	$154.50
7	Asphalt Core Per Inch	$4.25	/in.	48.00	$204.00
8	Core Density	$38.00	/ea.	24.00	$912.00
9	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; Asphalt Base Course				**$16,194.50**
	TOTAL ESTIMATED COST				**$34,662.50**
	TOTAL ESTIMATED COST w/ 10% CONTINGENCY				**$38,128.75**