WORK AUTHORIZATION

ENGINEERING CONSULTING SERVICES BY: TALBERT, BRIGHT & ELLINGTON, INC.

FOR: GLIDESLOPE REPLACEMENT

AT:
MID-CAROLINA REGIONAL AIRPORT
REFERENCING:
NCDOT-DOA #: TBD

TBE #3708-1801

November 28, 2018

I. PROJECT SUMMARY

This project includes one (1) schedule of work contained in one (1) set of bid documents.

The bid documents will include the removal and replacement of the entire End-fire Glideslope system at Mid-Carolina Regional Airport. The approximate location of the glideslope is depicted the project sketch within this Work Authorization.

The design, bidding, and construction administration of this project will be funded using FAA Non-Primary Entitlement Funding. The Construction Safety and Phasing Plan (CSPP) will be prepared using this input and FAA Advisory Circular 150/5370-2F "Operational Safety on Airports During Construction". The CSPP will be submitted to NCDOA for review prior to submitting to OE/AAA.

Included in this project will be the completion of a Simple Written Record (SWR). It is anticipated that this project will not require an environmental assessment. Permitting and mitigation are not anticipated.

The construction phase services for this project include coordination with the Owner for award of the construction contract; preparation and distribution of Contract Documents and Released For Construction plans and specifications to the Contractor; follow up with FAA on 7460; coordinating and conducting the Preconstruction Conference and preparation of minutes; review project schedule and updated schedules submitted by Contractor; coordination and review of Contractor submittals; Bi-Weekly Construction visits/Progress Meetings outlines and meeting minutes; review field change requests and related correspondence; prepare and distribute general construction correspondence through the project; review and process Contractor pay requests; conduct a Final Inspection and prepare/distribute punch list items letter; develop record drawings; assist Rowan County with Grant Closeout and prepare Grant closeout paperwork.

II. CONSULTANT'S SCOPE OF WORK OVERVIEW

Engineering Services will be provided for construction administration, and Quality Assurance Testing of the contract drawings for the proposed Glideslope Replacement project, as depicted in the attached exhibit, for Mid-Carolina Regional Airport in accordance with the Master Contract dated January 9, 2014.

The method of payment shall be on a lump sum basis in accordance with Section V, Paragraph A1 and B of the Master Contract. The work shall be performed in accordance with the Master Contract as a lump sum of \$50,471.71 including \$2,837.91 for expenses. If a second bid opening is required to meet the North Carolina Bidding Statutes, additional bidding phase services shall be performed in accordance with the Master Contract as a lump sum of \$5,847.15 including \$1,462.74 for expenses. The total value of this Work Authorization shall not exceed \$56,318.86 without additional authorization.

III. DESIGN CRITERIA AND REQUIREMENTS

ADO Generated "Airport Sponsor Grant Expectations"

• FAA AC 150/5300-13A; Airport Design

FAA AC 150/5370-2E;
 FAA AC 150/5370-10G;
 FAA Order 6750.16D;
 Gerational Safety On Airports During Construction
 Standards for Specifying Construction of Airports
 Siting Criteria for Instrument Landing Systems

IV. WORK TASKS

BASIC SERVICES

The Engineer will prepare one (1) set of plans and specifications as part of the Design Phase services. One schedule of work will include all of the proposed work. The approximate location of the glideslope is depicted on the project sketch within this Work Authorization.

DESIGN PHASE SUBMITTAL (90%):

The Engineer will provide hard copies of the 90% design documents for review and comment by the client and local authorities/stakeholders, and will provide electronic files of the 90% design documents to the NCDOT-Division of Aviation for review and comment.

The intended deliverables for this submittal shall include:

- A. Itemized estimated cost of construction with 12% contingency
- B. List of general conditions, special provisions and technical specifications intended for bidding in PDF format

^{*}Advisory Circulars and Orders used will be most up to date versions.

- C. Preliminary plans including in PDF format:
 - 1. Cover Sheet
 - 2. Quantities and General Notes
 - 3. Construction Safety and Phasing Plan
 - 4. Phasing Notes and Details
 - 5. Electrical Layout Plan
 - 6. Miscellaneous Details
- F. Coordination and Review Meetings: The consultant shall engage in a 90% design review meeting at the client's office with the airport representatives AND the state/federal agency providing the funding for the project approximately 2-3 weeks after submission of the Design Phase Submittal Deliverables.
- G. Any other information deemed germane to the submittal.

DESIGN PHASE SUBMITTAL (100%):

This design phase is intended to reflect the final design that incorporates comments from the 90% design submittal and an in-house QA review by the Engineer. The Engineer will provide hard copies of the 100% design documents for review and comment by the client and local authorities/stakeholders, and will provide electronic files of the 100% design documents to the NCDOT-Division of Aviation for review and comment.

The intended deliverables for this submittal shall include:

- A. Itemized estimated cost of construction with 10% contingency
- B. List of general conditions, copies of special provisions and technical specifications intended for bidding in PDF format
- C. Final plans including in PDF format:
 - 1. Cover Sheet
 - 2. Quantities and General Notes
 - 3. Construction Safety and Phasing Plan
 - 4. Phasing Notes and Details
 - 5. Electrical Layout Plan
 - 6. Miscellaneous Details
- E. Any other information deemed germane to the submittal.

BIDDING PHASE:

It is anticipated that two (2) bid openings will be required as it will be difficult to obtain the three (3) bidders for this project needed to meet North Carolina Bidding Statutes. To account for this anticipated outcome, an alternate fee will be incorporated into this Work Authorization to provide bidding phase services for the second bid opening if it is required. The Engineer will place and pay for all classified advertisements for Rowan County. Engineer will attend one (1) bid opening per advertisement (maximum of two (2)) and provide a bid tabulation of bids received, and submittal of MBE/WBE participation proposed by lowest responsive bidder to NC Division of Aviation for review and concurrence by the NC Division of Aviation. Upon receipt of written approval from NC Division of Aviation, Engineer will provide written summary of bids received and construction

contract award recommendation for consideration by the Owner, including a letter stating how bidder is pre-qualified with NCDOT.

CONSTRUCTION ADMINISTRATION PHASE:

The Engineer will provide a Released for Construction set of plans and specifications to the NCDOA, Sponsor and three (3) sets requested by the Contractor. The Engineer will also provide minutes for the Preconstruction Conference in PDF format, along with minutes for Progress Meetings in PDF format. The Engineer will prepare each monthly contractor pay request and the final pay request at project closeout. Preparation of final grant closeout paperwork will also be included.

Note: This Work Authorization does not include preparing a WBE/MBE plan or goal. The WBE/MBE goal is to be provided by NCDOT-DOA. TBE will send construction estimate to NCDOT-DOA in order for NCDOA to set goal.

V. PROJECT SCHEDULE

Work shall be completed in accordance with the schedule established and agreed upon by the Owner and Engineer.

VI. GENERAL ASSUMPTIONS AND CLARIFICATIONS

It is assumed that the design will follow standard FAA requirements and one (1) primary schedule of work (in one plan/specification set) will be provided, with the intent of funding being provided by one grant. It is assumed that no grading will be required for the replacement of this system and that no survey or grading plan will be required. Also, it is assumed that three (3) responsive bids will not be obtained during the first bid opening, and a second bid opening is required, consistent with North Carolina Bidding Statutes. See Sections "I" and "II" above for additional assumptions related to the proposed scope of services. It is also assumed that no As-Built Survey, Record Drawings or Quality Assurance Testing will be required for this project.

VII. OTHER

The NCDOT-Division of Aviation shall provide confirmation on the applicable WBE/MBE construction goals, to incorporate into the bidding documents based on the funding source for the project.

VIII. CONTACT/CLOSING

Agreed as to Scope of Services, Time Schedule, and Budget:

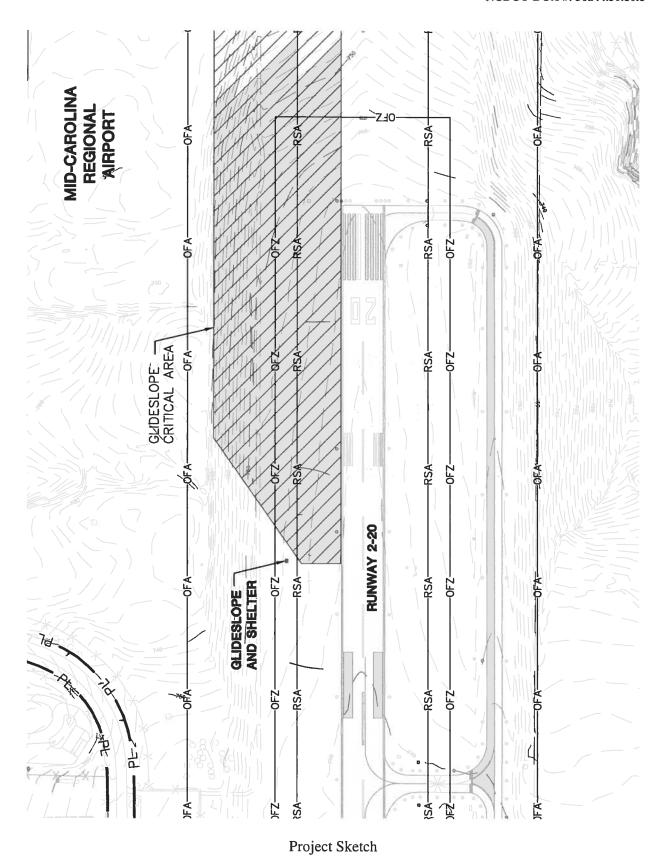
OWNER:	ENGINEER:
ROWAN COUNTY	TALBERT, BRIGHT &
130 West Innes Street	ELLINGTON, INC.
Salisbury, NC 28144	3525 Whitehall Park Drive
704-216-8180	Suite 210
	Charlotte, NC 28273
	704-426-6070
Aul	All
BY:	BY.
TITLE:	Vice President
TITLE.	TITLE:
DATE:	8/1/1019
DATE.	DATE:
Lesie E. Hirdrick	Atribany Lorge
WITNESS:	WITNESS:

ENGINEER PROJECT MANAGER CONTACT INFORMATION:

J. Andrew Shook, P.E.
Talbert, Bright & Ellington, Inc.
3525 Whitehall Park Drive
Suite 210
Charlotte, NC 28273
704-426-6070

THIS INSTRUMENT HAS BEEN PREAUDITED IN THE MANNER REQUIRED BY THE LOCAL GOVERNMENT BUDGET AND FISCAL CONTROL ACT.

FINANCE DIRECTOR



APPENDIX A: DRAWING SHEET LIST

- 1. Cover Sheet
- 2. Quantities and General Notes
- 3. Construction Safety and Phasing Plan
- 4. Phasing Notes and Details
- 5. Electrical Layout Plan
- 6. Miscellaneous Details

APPENDIX B: CONTRACT CHECKLIST FROM FAA ADVISORY CIRCULAR 15/5100-14E

The following checklist identifies important items and provisions to be considered in preparing any contract for consultant services. It is not intended to be all-inclusive, as each contract will vary based on the unique requirements of the project scope of services, but should be reviewed by the consultant and sponsor to ensure the general intent and content of the scoping document are fully developed.

- a. Effective date of contract.
- b. Names and descriptions of the parties to the agreement with their addresses and, in the case of a corporate body, the legal description of the corporation.
- c. Nature, extent, and character of the project, the location thereof, and the time limitations.
- d. Services, including performance and delivery schedules, to be rendered by the consultant.
- e. Delineation of responsibilities of the consultant, the sponsor, and other consultants and parties involved in the performance of the project, particularly key personnel such as the project manager.
- f. Delineation of the duties and responsibilities of the resident engineer/inspector.
- g. Inclusion of mandatory contract provisions identified in paragraph 3-4 (of the Advisory Circular).
- h. Provision for renegotiation of the contract on the basis of change in the scope of the project, changes in conditions, additional work, etc.
- i. Provision that reproducible copies of planning and design drawings and specifications be made available to the sponsor upon request.
- j. Compensation, including methods of payment and payment schedules, for services to be rendered by consultants.
- k. Provision for the termination of the consultant services before completion of work.
- l. Provision for preparation of a Quality Control Plan as required by the special provisions of the grant agreement.
- m. Provision for preparation of an Engineer's Design Report and Final Report.

APPENDIX C: BASIC SERVICES LUMP SUM FEE AND NOT TO EXCEED

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	MAN-HOUR/	FEE ESTIMATE		
	SUMMA	ARY PAGE		
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GENERAL NOTE: Information in	red and applicable shaded areas	on task sheets are available for	or data entry. All other cells are pro	tected.
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rask a - Labor	(A-102) ENVIRONMENTAL F	PHASE		\$3,179.70
TASK B - LABOR	(A-104) DESIGN PHASE			\$17,155.56
TASK C - LABOR	(A-104) BIDDING PHASE (B.			\$9,221.73
FASK D - LABOR	(A-104) BIDDING PHASE (A			\$4,384.41
TASK E - LABOR	(A-104) CONSTRUCTION A	DMINISTRATION PHASE		\$18,076.81
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ASK G - LABOR				\$0.00
rask H - Labor				\$0.00
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TASK D - EXPENSES	(A-104) BIDDING PHASE (A	<u> </u>	 	\$1,462.74
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PREPARED BT: IJ. ANDREW			AIRPORT DIRECTOR	
	MANAGER I	IIIILE:	AIRFORT DIRECTOR	
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AV Fee Estimate (AV-201) (Template Date: 10/2014)

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TASK A	(A-102) ENVIRONMENTAL PHASE	Principal	Project Manager	Senior Planner	Enginner 5	Engineer 4	Engineer 3	Engineer 2	Cad Tech	Admin	RPR	Total Hours Per Task	Total Task Cost
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Task B.2	Task B.2 Develop Project Scope / Contract / Schedule	2	2	-			9			2		13		593.00
Task B.3	Task B.3 Determine Project Approach	-	2				2					2	s	275.00
Task B.4	Project Scope / Contract / Schedule Revisions	-	2	1			2			1		7	s	348.00
Task B.5	Task B.5 Request for Aid / Grant Procurement Assistance		2				4			4		10	\$	382.00
Task B.6	Coordination / Meetings with Client / NCDOA / FAA	2	80				4			2		16		862.00
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Task B.10	Quality Assurance		9									6	\$	390.00
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AV FeeEstimate (AV-201)

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			BAS	IC AND SPECI	BASIC AND SPECIAL SERVICES: DIRECT LABOR COSTS	DIRECT LABOR	R COSTS					DATE:	11/14	11/14/2018
TASKE	TASK E A-104) CONSTRUCTION ADMINISTRATION PHASE	Principal	Project Manager	Senior	Enginner 5	Engineer 4	Engineer 3	Engineer 2	Cad Tech	Admin	RPR	Total Hours Per Task	Total Task Cost	Task
Task E.1	Coordination Award of Contract		2							2		4	2	182.00
Task E.2			4				2			2		8	\$	386.00
Task E.3	Preconstruction Minutes		4				2			-		7	3	360.00
Task E.4	Coordinate / Review Project Schedule		2				2					4	\$ 2	204.00
Task E.5	Coordinate / Review Submittals		4				9			2		12	\$	534.00
Task E.6	Progress Meetings and Minutes		8				4			2		14	2 5	720.00
Task E.7			9				3					6	\$	501.00
Task E.8	Construction Observation Reports		2				2					4	\$ 2	204.00
Task E.9	Coordinate / Review Field Changes	2	4				4			2		12	9 \$	602.00
Task E.10	Construction Correspondence		9				2			1		6	\$ 4	490.00
Task E.11	Process Contractor Pay Requests		4				2			2		8	\$ 3	386.00
Task E.12	Flight Check Coordination		4				9			2		12	\$ 5	534.00
Task E.13	Grant Administration Assistance		2				9			2		10	\$ 4	404.00
Task E.14	Final Inspection and Punch List		4				2			1		7	£	360.00
Task E.15													s,	
Task E.16												0	\$	
Task E.17												0	•	•
Task E.18												٥	59	•
Task E.19												0	•	
Task E.20												0	\$	
Task E.21												0	•	
Task E.22												•	•	•
Task E.23												0	•	٠
Task E.24												0	ss.	•
TOTAL M	TOTAL MAN-HOURS	2	99	0	0	0	43	0	0	19	0	120		
RAW LAB	AAW LABOR COSTS PER HOUR	\$71.00	\$65.00	\$47.00	\$56.00	\$44.00	\$37.00	\$32.00	\$34.00	\$26.00	\$30.00			
TOTAL LA	TOTAL LABOR FEES (Without Multiplier)	\$142.00	\$3,640.00	\$0.00	\$0.00	\$0.00	\$1,591.00	\$0.00	\$0.00	\$494.00	\$0.00		\$ 5,8	5,867.00
													- 1	T _i
						DI L	TOTAL DIRECT LABOR COSTS	ABOR COSTS:					o'n	2,667.00
						STATE	STATE AUDITED OVERHEAD KATES	HEAD KAIES:			Apply Multiplier or: Overhead Subtotal:	er or:	16.4	16 433 47
											The Paris	Motal.	1	i
								PROFIT:	10.00%		Profit:	+	+ \$ 1,6	1,643.35
							COST	COST OF CAPITAL:	0.00%		Capital Costs:	+	S	
													400	40 076 04
TOTAL L	TOTAL LABOR COSTS THIS TASK			80.85										10.0

ALBERT, BRIGHT 8	PELLINCTO	MAN-HOUR FEE ESTIMATE MID-CAROLINA REGIONAL AIRP			Division of	Avuation
ALDERT, BRIGHT	& ELLING I O	GLIDESLOPE REPLACEMEN			DIVISION OF	AVIATION
		GLIDESCOPE REPEACEMEN				11/14/2018
	BASIC A	ND SPECIAL SERVICES: REIMBURS	SABLE (DIRECT CO		11/14/2010
		(A-102) ENVIRONMENTAL PI				
GENERAL PROJEC	T WORK:					
	QTY	DESCRIPTION			UNIT COST	
Travel:						
Personal Mileage	0	Trip(s) in Sedan @	0	miles @	\$0.545	\$0.00
	0	Trip(s) in Carry-All @	0	miles @	\$0.565	\$0.00
Per Diem:	0	Breakfast		each	\$8.40	\$0.00
	0	Lunch		each	\$11.00	\$0.0
	0	Dinner		each	\$18.90	\$0.0
	0	Day		each	\$38.30	\$0.00
	0	Lodging		each	\$71.20	\$0.0
	0	Incidental Expenses		each	\$5.00	\$0.0
					1	
Rental Car	0	Sedan			\$45.00	\$0.0
	0	Mileage for Rental Car Only		miles @	\$0.20	\$0.00
Airfare	0	Flight Origin/Destination & Rate:		each	\$250.00	\$0.0
Reproduction:	150	8 1/2 x 11 B & W Copies		each	\$0.04	\$6.0
	0	11 x 17 B & W Copies		each	\$0.10	\$0.0
	50	8 1/2 x 11 Color Copies		each	\$0.25	\$12.5
	0	11 x 17 Color Copies		each	\$0.50	\$0.0
	0	SQ. FT. of Plots (B & W) - Bond		sq. ft	\$0.42	\$0.00
Shipping / Posta	2	Express Shipping		each	\$20.00	\$40.0
omphing / t cott	0	USPS Postage		each	\$5.00	\$0.00
	· ·	COI C I CStage		Cacii	Subtotal	\$58.50
MISCELLANEOUS	DIRECT EXP	PENSES:		UNIT	UNIT COST	
2						\$0.00
						\$0.0
						\$0.0
						\$0.0
						\$0.0
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						\$0.0
	h - 311			THE SECTION		\$0.0
						\$0.0
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					Subtotal	\$0.00
					TOTAL	¢eo ro
					TOTAL:	\$58.50

		MAN-HOUR FEE ESTIMATE			2000	
ALBERT, BRIGHT 8	& ELLINGTO	MID-CAROLINA REGIONAL AIRP	ORT		DIVISION OF	AVIATION
		GLIDESLOPE REPLACEMENT	Т	ARTON		
						11/14/2018
	BASIC AI	ND SPECIAL SERVICES: REIMBURS		DIRECT CO	OST	
		(A-104) DESIGN PHASE				
SENERAL PROJEC						
	QTY	DESCRIPTION			UNIT COST	
Travel:						
Personal Mileage	1	Trip(s) in Sedan @	102	miles @	\$0.545	\$55.59 \$0.00
	0	Trip(s) in Carry-All @	102	miles @	\$0.565	φυ.υυ
Day Diam.	0	Description		aaab	¢0.40	\$0.00
Per Diem:	0	Breakfast		each	\$8.40 \$11.00	\$0.00
	0	Lunch		each		\$0.00
	0	Dinner		each	\$18.90 \$38.30	\$0.00
	0	Day		each		\$0.00
	0	Lodging (on lump sum Incl. taxes)		each	\$71.20	\$0.00
	0	Incidental Expenses		each	\$5.00	Ψ0.00
Rental Car	0	Sedan			\$45.00	\$0.00
i terriar oar	0	Mileage for Rental Car Only		miles @	\$0.20	\$0.00
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Airfare	0	Flight Origin/Destination & Rate:		each	\$250.00	\$0.00
	· ·				,—————————————————————————————————————	
Reproduction:	800	8 1/2 x 11 B & W Copies		each	\$0.04	\$32.00
•	20	11 x 17 B & W Copies		each	\$0.10	\$2.00
	200	8 1/2 x 11 Color Copies		each	\$0.25	\$50.00
	40	11 x 17 Color Copies		each	\$0.50	\$20.00
	60	SQ. FT. of Plots (B & W) - Bond		sq. ft	\$0.42	\$25.20
					ŧ	
Shipping / Posta	4	Express Shipping		each	\$20.00	\$80.00
	4	USPS Postage		each	\$5.00	\$20.00
					Subtotal	\$284.79
MISCELLANEOUS					LINET COST	
ITEM	QTY	DESCRIPTION		UNIT	UNIT COST	\$0.00
	19773					\$0.00
R L L L L L L L L L L L L L L L L L L L						\$0.00
					 	\$0.00
		7.7.4				\$0.00
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						\$0.00
			Mar (a)			\$0.0
						\$0.00
		J			Subtotal	\$0.00
		- 41				
					TOTAL:	\$284.79

		MAN-HOUR FEE ESTIMATE				
ALBERT, BRIGHT	& ELLINGTO	MID-CAROLINA REGIONAL AIRE	PORT		DIVISION OF	AVIATION
•		GLIDESLOPE REPLACEMEN	IT	1	1 110 1 11	at 1 topas tot 1
						11/14/2018
	BASIC A	ND SPECIAL SERVICES: REIMBURS	SABLE I	DIRECT CO	OST	
		(A-104) BIDDING PHASE (B	ASE)			
GENERAL PROJEC	T WORK:					
	QTY	DESCRIPTION			UNIT COST	
Travel:						
Personal Mileage	2	Trip(s) in Sedan @	102	miles @	\$0.545	\$111.18
	0	Trip(s) in Carry-All @	102	miles @	\$0.565	\$0.00
Per Diem:	0	Breakfast		each	\$8.40	\$0.00
i ei bieiii.	0	Lunch		each	\$11.00	\$0.00
	0	Dinner		each	\$18.90	\$0.00
	0	Day		each	\$38.30	\$0.00
	0	Lodging (on lump sum Incl. taxes)		each	\$71.20	\$0.00
	0	Incidental Expenses		each	\$5.00	\$0.00
	O	modernal Expenses		Cacii	Ψ3.00	Ψ0.00
Rental Car	0	Sedan			\$45.00	\$0.00
	0	Mileage for Rental Car Only		miles @	\$0.20	\$0.00
Airfare	0	Flight Origin/Destination & Rate:		each	\$250.00	\$0.00
Reproduction:	4000	8 1/2 x 11 B & W Copies		each	\$0.04	\$160.00
	50	11 x 17 B & W Copies		each	\$0.10	\$5.00
	50	8 1/2 x 11 Color Copies		each	\$0.25	\$12.50
	20	11 x 17 Color Copies		each	\$0.50	\$10.00
	60	SQ. FT. of Plots (B & W) - Bond		sq. ft	\$0.42	\$25.20
Shipping / Posta	12	Express Shipping		each	\$20.00	\$240.00
ppg	6	USPS Postage		each	\$5.00	\$30.00
	Ü	CO. C. Collage		Caon	Subtotal	\$593.88
MISCELLANEOUS ITEM	DIRECT EXP	ENSES: DESCRIPTION		UNIT	UNIT COST	
ADV	1	Advertisement		1	\$ 1,300.00	\$1,300.00
						\$0.00
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						\$0.00
				Ú:		\$0.00
						\$0.00
					Subtotal	\$1,300.00
					TOTAL:	\$1,893.88
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ALBERT, BRIGHT	& ELLINGTO	MAN-HOUR FEE ESTIMATI MID-CAROLINA REGIONAL AIR	4		DIVISION OF	AVIATION
		GLIDESLOPE REPLACEMENT	NT			44/4/10040
	BASIC A	ND SPECIAL SERVICES: REIMBUR	SABLE [DIRECT CO	OST	11/14/2018
		(A-104) BIDDING PHASE (AD	DITIVE)			
GENERAL PROJE		•••			· · · · · ·	_
	QTY	DESCRIPTION			UNIT COST	
Travel:		T: (): 0 1 0	400	" 0	00.545	PEE EO
Personal Mileage	1	Trip(s) in Sedan @	102	miles @	\$0.545	\$55.59
	0	Trip(s) in Carry-All @	102	miles @	\$0.565	\$0.00
Per Diem:	0	Breakfast		each	\$8.40	\$0.00
	0	Lunch		each	\$11.00	\$0.00
	0	Dinner		each	\$18.90	\$0.00
	0	Day		each	\$38.30	\$0.00
	0	Lodging (on lump sum Incl. taxes)		each	\$71.20	\$0.00
	0	Incidental Expenses		each	\$5.00	\$0.00

Rental Car	0	Sedan			\$45.00	\$0.00
	0	Mileage for Rental Car Only		miles @	\$0.20	\$0.00
Airfare	0	Flight Origin/Destination & Rate:		each	\$250.00	\$0.00
Reproduction:	1000	8 1/2 x 11 B & W Copies		each	\$0.04	\$40.00
	25	11 x 17 B & W Copies		each	\$0.10	\$2.50
	25	8 1/2 x 11 Color Copies		each	\$0.25	\$6.25
	10	11 x 17 Color Copies		each	\$0.50	\$5.00
	20	SQ. FT. of Plots (B & W) - Bond		sq. ft	\$0.42	\$8.40
Shimming / Doots	0	France Chinaina			£20.00	\$40.00
Shipping / Posta	2 1	Express Shipping USPS Postage		each	\$20.00	\$5.00
	l	USPS Postage		each	\$5.00 Subtotal	\$162.74
					.	•
MISCELLANEOUS						
ADV	QTY 1	Advertisement DESCRIPTION	I	UNIT 1	\$ 1,300.00	\$1,300.00
. 10 4		, a controlling	-		Ψ 1,000.00	\$0.00
						\$0.00
			10	ec.		\$0.00
						\$0.00
						\$0.00
		·	Just H			\$0.0
	The State of the S					\$0.00
						\$0.0
						\$0.00
		30001 3000- 11			Subtotal	\$1,300.00
AV/ EcoEstimate (AV/					TOTAL:	\$1,462.74

MAN-HOUR FEE ESTIMATE ALBERT, BRIGHT & ELLINGTO **MID-CAROLINA REGIONAL AIRPORT** DIVISION OF AVIATION **GLIDESLOPE REPLACEMENT** 11/14/2018 BASIC AND SPECIAL SERVICES: REIMBURSABLE DIRECT COST (A-104) CONSTRUCTION ADMINISTRATION PHASE **GENERAL PROJECT WORK:** QTY **DESCRIPTION UNIT COST** Travel: Personal Mileage 6 Trip(s) in Sedan @ 102 miles @ \$0.545 \$333.54 \$0.00 0 Trip(s) in Carry-All @ miles @ \$0.565 Per Diem: 0 Breakfast \$8.40 \$0.00 each \$0.00 0 Lunch \$11.00 each \$0.00 0 Dinner each \$18.90 \$0.00 0 Day each \$38.30 0 \$0.00 Lodging (on lump sum Incl. taxes) \$71.20 each \$0.00 0 Incidental Expenses \$5.00 each \$0.00 Rental Car 0 Sedan \$45.00 \$0.00 0 Mileage for Rental Car Only \$0.20 miles @ \$0.00 Airfare 0 Flight Origin/Destination & Rate: each \$250.00 \$16.00 400 Reproduction: 8 1/2 x 11 B & W Copies each \$0.04 \$1.00 10 11 x 17 B & W Copies each \$0.10 200 \$0.25 \$50.00 8 1/2 x 11 Color Copies each \$5.00 10 \$0.50 11 x 17 Color Copies each \$25.20 60 SQ. FT. of Plots (B & W) - Bond \$0.42 sq. ft \$120.00 6 Shipping / Posta \$20.00 **Express Shipping** each 10 **USPS** Postage \$5.00 \$50.00 each \$600.74 Subtotal MISCELLANEOUS DIRECT EXPENSES: **ITEM** QTY **DESCRIPTION** UNIT **UNIT COST** \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Subtotal \$0.00

\$600.74

TOTAL:

APPENDIX D: SCANNED ORIGINAL OF EXECUTED MASTER CONTRACT BETWEEN ENGINEER AND OWNER

CONTRACT

FOR ENGINEERING, PLANNING AND RELATED SERVICES FOR ROWAN COUNTY

WHEREAS, the OWNER intends planning and engineering services for the future development of Rowan County Airport and other improvements and such other work for the OWNER as may be mutually agreed to, hereinafter called the Project, and

WHEREAS, the OWNER desires to engage a qualified and experienced engineer to perform professional engineering services for a period of five (5) years with an option of extending such services for an additional five (5) years and hereinafter set forth, and the ENGINEER has represented that it is qualified to provide such services and desires to do so.

NOW THEREFORE, the **OWNER** and the **ENGINEER**, for the considerations hereinafter set forth, agree as follows:

GENERAL

For the purpose of this CONTRACT, the Airport Manager is hereby designated as the OWNER's representative to act for the OWNER in giving approvals and authorizations for the OWNER as hereinafter required and set forth. The ENGINEER will be notified in writing of any change in representation.

When mutually agreed by the OWNER and the ENGINEER, and after having received from the OWNER written approval of the ENGINEER's Work Authorization, including an estimated cost for specified services, the ENGINEER shall provide professional engineering services as described below.

Rowan County (Client No: 3708)

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MASTER CONTRACT with Talbert, Bright & Ellington, Inc.

SECTION I – BASIC SERVICES

- A. Project Development Phase: After authorization to proceed the ENGINEER shall:
 - Consult with OWNER, state, and federal government agencies (when required) to clarify
 and define the requirements for the Project and review available data.
 - Advise OWNER as to the necessity of OWNER's providing or obtaining from others data
 or services of the types described in <u>Section II Special Services</u>. Assist the OWNER in
 contracting for such services.
 - Prepare preliminary design necessary to determine the type, size, and scope of the improvement Project based upon projected aviation activity and current airport standards in effect at the date of this Contract.
 - 4. Prepare preliminary cost estimate for the Project.
 - Make minor revisions to the airport layout plan as necessary to reflect the details of the Project.
 - 6. Prepare preapplications for federal and/or state assistance grants for funding of the Project.
 - Furnish five (5) copies of drawings, sketches, forms, and reports as appropriate to the OWNER for submission to government agencies.
 - 8. Assist the OWNER in obtaining financing for project.
 - 9. Perform additional work as described and required by the work authorizations.
- B. Design Phase: After written authorization to proceed the ENGINEER shall:
 - In consultation with the OWNER and other government agencies through conferences, meetings, or submission of preliminary reports as appropriate, determine the extent of the Project and the design criteria to be used in the final design.
 - Prepare an ENGINEER's report in accordance with FAA criteria, which shall include but not necessarily be limited to:
 - a. An analysis and reasons for the design choices;
 - b. An analysis of the manner in which the work will be accomplished; and
 - c. A project cost estimate based upon the final design.

Rowan County (Client No: 3708)
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MASTER CONTRACT with Talbert, Bright & Ellington, Inc.

- Advise the OWNER of needed special services as described in <u>Section II Special Services</u> and assist the OWNER in the evaluation and selection of other professionals to provide special services, such as soil borings, laboratory tests and surveys, or provide such services in accordance with this Contract and any related Work Authorization(s).
- 4. Prepare final design, contract drawings, specifications, and contract documents. Prepare for review and approval by OWNER, his legal counsel, and other advisors contract agreement forms, general conditions, and supplementary conditions, and (where appropriate) bid forms, invitation to bid, and instructions to bidders, and assist in the preparation of other related documents.
- Assist OWNER in submitting appropriate documents to state and federal agencies for necessary approvals and permits.
- Furnish to the OWNER two (2) copies of completed drawings, specifications, reports, estimates, and contract documents.
- 7. Perform additional work as described and required by work authorizations.
- C. <u>Construction Phase:</u> During the Construction Phase, the ENGINEER shall provide the following services:
 - Assistance to the OWNER in obtaining bids, tabulations, and analysis of bid results, and furnishing recommendations in connection with the award of construction contracts.
 - 2. Assistance in preparation of formal contract documents for the award of construction contract.
 - Consult with and advise the OWNER and act as provided in the approved construction specifications and contract documents.
 - 4. Make visits to the site at intervals appropriate to the various stages of construction to observe as experienced and qualified design professionals the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the contract documents. ENGINEER shall not be required to make exhaustive or continuous on-site observations to check the quality or quantity of such work. ENGINEER shall not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by Contractor(s), or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the contract documents, but ENGINEER shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the contract documents. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of

Rowan County (Client No: 3708)
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MASTER CONTRACT with Talbert, Bright & Ellington, Inc.

the progress of the work, shall endeavor to guard **OWNER** against defects and deficiencies in such work and may disapprove or reject work failing to conform to the contract documents.

- 5. Review and approve (or take other appropriate action in respect of) shop drawings and samples, the results of tests and inspections, and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the contract documents (but such review and approval or other action shall not extend to means, methods, sequences, techniques, or procedures of construction, or to safety precautions and programs incident thereto; determine the acceptability of substitute materials and equipment proposed by Contractor(s); and receive and review (for general content as required by specifications) maintenance and operating instructions, schedules, guarantees, bonds, and certificates of inspection which are to be assembled by Contractor(s) in accordance with the contract documents.
- Review laboratory, shop, and mill test reports and prepare a tabulation or summary of laboratory test results to assist in monitoring the quality of construction.
- 7. Recommend to OWNER change orders and/or supplemental agreements to the construction contract incidental to existing field conditions or improvements in the Project design. Prepare estimates of cost or saving from proposed change order(s), prepare change order(s) along with basis for recommendation, and negotiate on behalf of OWNER with the Contractor to arrive, if possible, at an appropriate compensation resulting from the proposed revisions. The ENGINEER is not required by this provision to accomplish extensive design revisions and drawings resulting from a change in Project scope or major changes in design concept previously accepted by the OWNER where changes are due to causes beyond the ENGINEER's control.
- Advise the OWNER of needed special services and assist the OWNER in acquisition of such services as appropriate.
- 9. Based upon ENGINEER's on-site observations as an experienced and qualified design professional and on review of applications for payment and the accompanying data and schedules, determine the amounts owing to Contractor(s) and recommend in writing payments to Contractor(s) in such amounts; such recommendations of payment will constitute a representation to OWNER, based on such observation and review, that the work has progressed to the point indicated, that to the best of ENGINEER's knowledge, information, and belief, the quality of such work is in accordance with the contract documents (subject to an evaluation of such work as a functioning project upon substantial completion, to the results of any subsequent tests called for in the contract documents, and to any qualifications stated in his recommendation), and that payment of the amount recommended is due Contractor(s); but by recommending any payment ENGINEER will not thereby be deemed to have represented that continuous or exhaustive examinations have

Rowan County (Client No: 3708)
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MASTER CONTRACT with Talbert, Bright & Ellington, Inc.

been made by ENGINEER to check the quality or quantity of the work or to review the means, methods, sequences, techniques, or procedures of construction or safety precautions or programs incident thereto or that ENGINEER has made an examination to ascertain how or for what purposes any Contractor has used the monies paid on account of the contract price, or that title to any of the work, materials or equipment has passed to OWNER free and clear of any lien, claims, security interests, or encumbrances, or that Contractor(s) have completed their work exactly in accordance with the contract documents.

- Prepare OWNER's applications for partial and final payments for submission to government agencies.
- 11. Conduct an inspection to determine if the Project is substantially complete and a final inspection to determine if the work has been completed in accordance with the contract documents and if each Contractor has fulfilled all of his obligations thereunder so that ENGINEER may recommend, in writing, final payment to each Contractor and may give written notice to OWNER and the Contractor(s) that the work is acceptable (subject to any conditions therein expressed), but such recommendation and notice shall be subject to the limitations expressed herein.
- 12. ENGINEER will prepare for OWNER, on request, a set of record drawing prints showing those changes made during the construction process, based upon the marked-up prints, drawings, and other data furnished by Contractor(s) to ENGINEER and which ENGINEER considers significant.
- 13. The ENGINEER shall not be responsible for the acts of omission of any Contractor, or subcontractor, or any of the Contractor(s) or subcontractor(s)' agents or employees or any other persons (except ENGINEER's own employees and agents) at the site or otherwise performing any of the contractor(s)' work; however, nothing contained herein shall be construed to release the ENGINEER from liability for failure to perform properly duties undertaken by the ENGINEER under this Contract.

SECTION II - SPECIAL SERVICES

At written request of the **OWNER**, the **ENGINEER** shall accomplish such special services as required by the **OWNER** to complete the Project. At the option of the **OWNER**, special services may be provided by the **OWNER** through contracts with other professionals or may be provided by the **ENGINEER**. When the **ENGINEER** is requested to provide special services, such services may be provided by **ENGINEER**'s own forces or through subcontracts with other professionals. Compensation for Special Services provided by **ENGINEER** shall be in accordance with one of the methods identified in <u>Section V - Payment of Services</u>. Special services, which may be requested include, but are not necessarily limited to the following:

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- A. Land surveys as necessary to establish property boundaries required for property acquisition purposes or preparation of property maps.
- B. Soils and material investigations including test boring, laboratory testing of soils and materials, related analyses, and recommendations.
- C. Engineering surveys (for design and construction) to include topographic surveys, base line surveys, cross section surveys, etc.
- D. Technical inspection of construction by full time Resident Project Representative, as required and approved by the OWNER. When authorized by the OWNER the duties, responsibilities and limitations of authority shall be described in <u>Section IV Duties</u>, <u>Responsibilities</u>, and Limitations of Authority of the Resident Project Representative.
- E. Reproduction of additional copies of reports, contract documents, and specifications above the specified number furnished in Section I – Basic Services.
- F. Assistance to the OWNER as expert witness in litigation arising from development or construction of the Project.
- G. The accomplishment of special surveys and investigations, and the preparation of special reports and drawings as may be requested or authorized in writing by the OWNER in connection with the Project.
- H. Extra work created by design changes, after approval of plans and specifications by the OWNER and FAA, and beyond the control of the ENGINEER, that may be requested or authorized in writing by the OWNER in connection with the Project.
- Extra work required to revise or prepare contract documents, plans, and specifications to
 facilitate the award of more than one construction contract, in the event the OWNER adopts
 such construction program.
- J. Services resulting from significant changes in extent of the Project or its design including, but not limited to, changes in size, complexity, OWNER's schedule, or character of construction or method of financing; and revising previously accepted studies, reports, design documents, or contract documents when such studies, reports, design documents, or contract documents when such revisions are due to causes beyond ENGINEER's control.
- K. Providing renderings or models for OWNER's use.
- L. Investigations involving detailed consideration of operations, maintenance, and overhead expenses; providing value engineering during the course of design; the preparation of feasibility studies, cash flow, and economic evaluations, rate schedules and appraisals; assistance in

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obtaining financing for Project; detailed quantity surveys of material, equipment, and labor; and audits or inventories required in connection with construction performed by **OWNER**.

- M. Additional or extended services during construction made necessary by:
 - 1. Work damaged by fire or other cause during construction.
 - 2. A significant amount of defective or neglected work of Contractor(s).
 - 3. Prolongation of the contract time of any prime contract by more than ten (10) days.
 - 4. Acceleration of the process schedule involving services beyond normal working hours.
 - 5. Default by Contractor(s).
 - The furnishing of a resident project representative other than an employee of the ENGINEER.
- N. Preparation of operating and maintenance manuals; protracted or extensive assistance in the utilization of any equipment or system (such as initial start-up, testing, adjusting, and balancing); and training personnel for operation and maintenance.
- O. Services after completion of the construction phase, such as inspections during any guarantee period and reporting observed discrepancies under guarantees called for in any contract for the Project.

SECTION III - RESPONSIBILITIES OF THE OWNER

As a party to this Contract, the OWNER shall:

- A. Make available for ENGINEER's use all record drawings, maps, soil data, etc.
- B. Designate a person to act with authority on OWNER's behalf and respond in a timely manner to submissions by ENGINEER providing approvals and authorizations as appropriate so that work may continue at a normal pace.
- C. Pay all costs associated with special services authorized by the OWNER, and all costs associated with obtaining bids from contractors.
- D. Furnish ENGINEER as required for performance of ENGINEER's basic services, data prepared by or services of others, including without limitation, core borings, probings, and subsurface explorations, hydrographic surveys, laboratory tests and inspections of samples,

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materials, and equipment; appropriate professional interpretations of all the foregoing; environmental assessment and impact statements; property, boundary, easement, right-of-way, topographic, and utility surveys, property descriptions; zoning, deed, and other land use restrictions; and other special data or consultations not covered herein; all of which ENGINEER may rely upon in performing his services.

- E. Arrange for access to and make all provisions for **ENGINEER** to enter upon public and private property as required for **ENGINEER** to perform his services.
- F. Examine all studies, reports, sketches, drawings, specifications, proposals, and other documents presented by ENGINEER, obtain advice of an attorney, insurance counselor, and other consultants as OWNER deems appropriate for such examination and render decisions pertaining thereto within a reasonable time so as not to delay the services of ENGINEER.
- G. Furnish approvals and permits from all governmental authorities having jurisdiction over the Project and such approvals and consent from others as may be necessary for completion of the Project.
- H. Provide such accounting, independent cost estimating, and insurance counseling services as may be required for the Project, such legal services as OWNER may require or ENGINEER may reasonably request with regard to legal issues pertaining to the Project including any that may be raised by Contractor(s), such auditing services as OWNER may require to ascertain how or for what purpose any Contractor has used the monies paid to him under the construction contract, and such inspection services as OWNER may require to ascertain that Contractor(s) are complying with any law, rule or regulation applicable to their performance of the work.
- Give prompt written notice to ENGINEER whenever OWNER observes or otherwise becomes aware of any development that affects the scope of timing of the ENGINEER's services, or any defect in the work of Contractor(s).

SECTION IV – DUTIES, RESPONSIBILITIES, AND LIMITATIONS OF AUTHORITY OF THE RESIDENT PROJECT REPRESENTATIVE

ENGINEER may furnish a Resident Project Representative, assistants, and other field staff to assist **ENGINEER** in observing performance of the work of the Contractor.

Through more extensive on-site observations of the work in progress and field checks of materials and equipment by the Resident Project Representative and assistants, ENGINEER shall endeavor to provide further protection for OWNER against defects and deficiencies in the work; but, the furnishing of such services will not make ENGINEER responsible for or give ENGINEER control over construction means, methods, techniques, sequences or procedures or for safety precautions or

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programs, or responsibility for Contractor's failure to perform the work in accordance with the contract documents.

The duties and responsibilities of the Resident Project Representative are limited to those of ENGINEER in ENGINEER's agreement with the OWNER and in the construction contract documents, and are further limited and described as follows:

A. General: Resident Project Representative is ENGINEER's agent at the site, will act as directed by and under the supervision of ENGINEER, and will confer with ENGINEER regarding his actions. Resident Project Representative's involvement in matters pertaining to the on-site work shall in general be with the ENGINEER and Contractor, keeping OWNER advised as necessary. Resident Project Representative's contact with subcontractors shall only be through or with the full knowledge and approval of Contractor. Resident Project Representative shall generally communicate with OWNER with the knowledge of and under the direction of ENGINEER.

B. Duties and Responsibilities of Resident Project Representative:

- Schedules: Review the progress schedule, schedule of shop drawing submittals, and schedule of values prepared by Contractor and consult with ENGINEER concerning acceptability.
- Conferences and Meetings: Attend meetings with Contractor, such as pre-construction conferences, progress meetings, job conferences, and other Project related meetings, and prepare and circulate copies of minutes thereof.

3. Liaison:

- a. Serve as ENGINEER's liaison with Contractor, working principally through Contractor's superintendent and assist in understanding the intent of the contract documents; and assist ENGINEER in serving as OWNER's liaison with Contractor when Contractor's operations affect OWNER's on-site operations; and
- b. Assist in obtaining from OWNER additional details or information, when required for proper execution of the work, according to the contract documents.

4. Shop Drawings and Samples:

- a. Record date of receipt of shop drawings and samples;
- Receive samples, which are furnished at the site by Contractor, and notify ENGINEER
 of availability of samples for examination; and
- c. Advise ENGINEER and Contractor of the commencement of any work requiring a shop drawing or sample if the ENGINEER has not accepted the submittal.

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5. Review of Work, Rejection of Defective Work, Inspections and Tests:

- a. Conduct on-site observations of the work in progress to assist ENGINEER in determining if the work is, in general, proceeding in accordance with the contract
- b. Report to ENGINEER whenever Resident Project Representative believes that any work is unsatisfactory, faulty, or defective, or does not conform to the contract documents, or has been damaged, or does not meet the requirements of any inspections, test, or approval required to be made; and advise ENGINEER of work that Resident Project Representative believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval;
- c. Verify that tests, equipment, and systems startup, and operating and maintenance training are conducted in the presence of appropriate personnel, and that Contractor maintains adequate records thereof; and observe, record, and report to ENGINEER appropriate details relative to tests, procedures, and startups; and
- d. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, record the results of the inspections, and report to ENGINEER.
- 6. Interpretation of Contract Documents: Report to ENGINEER when clarifications and interpretations of the contract documents are needed and transmit to Contractor clarifications and interpretations as issued by ENGINEER.
- 7. Modifications: Consider and evaluate Contractor's suggestions for modifications in drawings or specifications and report with Resident Project Representative's recommendations to ENGINEER. Transmit to Contractor decisions as issued by ENGINEER.

8. Records:

- a. Maintain at the job site orderly files for correspondence, reports of job conferences, shop drawings and samples, reproductions of original contract documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the Contract, ENGINEER's clarifications and interpretations of the contract documents, progress reports, and other Project-related documents; and
- b. Keep a diary or log book, recording Contractor hours on the job site, weather conditions, data relative to questions of work directive changes, change orders or changed conditions, list of job site visitors, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to ENGINEER.

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 Record names, addresses, and telephone numbers of all Contractors, subcontractors, and major suppliers of material and equipment.

9. Reports:

- Furnish ENGINEER periodic reports as required of progress of the work and of Contractor's compliance with the progress schedule and schedule of shop drawings and sample submittals;
- Consult with ENGINEER in advance of scheduled major tests, inspections, or start of important phases of the work;
- c. Draft proposed change orders and work directive changes, obtaining backup material from Contractor and recommend to ENGINEER change orders, work directive changes, and field orders; and
- d. Report immediately to ENGINEER and OWNER upon the occurrence of any accident.
- 10. <u>Payment Requests:</u> Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to ENGINEER, noting particularly the relationship of the payment requested to the schedule of values, work completed, and materials and equipment delivered at the site but not incorporated in the work.
- 11. Certificates, Maintenance, and Operations Manuals: During the course of the work, verify that certificates, maintenance and operation manuals, and other data required to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the contract documents, and have this material delivered to ENGINEER for review and forwarding to OWNER prior to final payment for work.

12. Completion:

- Before ENGINEER issues a Certificate of Substantial Completion, submit to Contractor a list of observed items requiring completion or correction;
- b. Conduct on-site review in the company of **ENGINEER**, **OWNER**, and Contractor and prepare a final list of items to be completed or corrected; and
- c. Observe that all items on final list have been completed or corrected and make recommendations to ENGINEER concerning acceptance.

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- C. Limitations of Authority: Resident Project Representative shall not:
 - Authorize any deviation from the contract documents or substitution of materials or equipment, unless authorized by ENGINEER.
 - 2. Exceed limitations of ENGINEER's authority as set forth in the contract documents.
 - Undertake any of the responsibilities of Contractor, subcontractors, or Contractor's superintendent.
 - 4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences, or procedures of construction unless such advice or directions are specifically required by the contract documents.
 - Advise on, issue directions regarding or assume control over safety precautions and programs in connection with the work.
 - 6. Accept shop drawing or sample submittals from anyone other than Contractor.
 - 7. Authorize OWNER to occupy the Project in whole or in part.
 - 8. Participate in specialized field or laboratory tests or inspections conducted by others except as specifically authorized by ENGINEER.

SECTION V - PAYMENT OF SERVICES

The OWNER agrees to compensate the ENGINEER for services performed in accordance with one of the following methods as hereinafter set forth. The method of payment and the amount for specified services shall be detailed in a Work Authorization, which shall be prepared by the ENGINEER and submitted to the OWNER for review and approval. The receipt of an approved Work Authorization will constitute the ENGINEER's Notice-to-Proceed.

The ENGINEER is not to undertake any work prior to the receipt of an approved Work Authorization executed and approved by the OWNER.

- A. Methods of Payment: One or more of the following methods of payment shall be used and the method for each phase of the work shall be stated in the appropriate Work Authorization:
 - Per Diem: Under this method of payment, the ENGINEER's compensation will be equal to the hours expended on a Project times the rates established in a Work Authorization, which shall be inclusive of all overhead and profit; plus payment for direct nonsalary expenses. The

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- current rates for labor include salaries, payroll costs, overhead and profit. These rates are adjusted annually by the **ENGINEER** in July of each year.
- 2. <u>Lump Sum:</u> For work that can be defined and delineated in advance, payment to the ENGINEER will be made on the basis of a lump sum. The agreed lump sum shall represent full payment for all payroll, overhead, profit, and other direct nonsalary expenses as hereinafter described. The lump sum will neither increase nor decrease unless there should be a change in the scope, complexity, or duration of the work. In that event, the lump sum would be subject to renegotiation.
- B. <u>Terms and Conditions:</u> The basis of compensation described is based upon the following conditions:
 - Time charged to the Project by office engineering personnel will include the time that the
 applicable employees are engaged in actual work on the Project at the ENGINEER's office,
 at the site of the Project, or travel status in connection with the Project.
 - Only the personnel needed and required to accomplish the services in keeping with the prescribed schedule shall be assigned to the Project.
 - Charges will not be made to the Project during periods of sickness, vacation, or at any other times when personnel assigned are not gainfully employed on the work.

C. Payment Schedules:

Invoices shall be due and payable within 30 days after the date of invoice. A service charge
of one (1) percent per month shall be added to all overdue accounts.

SECTION VI - MISCELLANEOUS PROVISIONS

- A. <u>Estimates</u>: Since the ENGINEER has no control over the cost of labor and materials or over competitive bidding market conditions, the estimates of construction cost provided for herein are to be made on the basis of experience and qualifications, but the ENGINEER does not guarantee the accuracy of such estimates as compared to the Contractor's bids of the Project construction cost.
- B. <u>Extra Work:</u> It is mutually understood and agreed that the OWNER will compensate the ENGINEER for services resulting from significant changes in general scope of the Project or its design, including but not necessarily limited to, changes in size, complexity, Project schedules, character of construction, revisions to previously accepted studies, reports, design documents, or contract documents, and for preparation of documents for separate bids, when such revisions are due to causes beyond the ENGINEER's control and when requested or authorized by the

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OWNER. Extra work may also include special services as identified in <u>Section II – Special Services</u>. Compensation for extra work and any associated special services shall be in accordance with one of the methods identified in <u>Section V – Payment of Services</u>.

C. Reuse of Documents: All documents, including drawings and specifications prepared by ENGINEER pursuant to this Contract, are instruments of service in respect of the Project. They are not intended or represented to be suitable for reuse by OWNER or others on extensions of the Project or on any other Project. Any reuse without written verification or adaptation by ENGINEER for the specific purposes intended will be at OWNER's sole risk and without liability or legal exposure to ENGINEER; and OWNER shall indemnify and hold harmless ENGINEER from all claims, damages, losses, and expenses including attorney's fees arising out of or resulting therefrom. Any such verification or adaptation will entitle ENGINEER to further compensation at rates to be agreed upon by OWNER and ENGINEER. Notwithstanding these provisions the OWNER shall be provided upon request a reproducible copy of any drawing produced under this Contract at the cost of reproduction.

D. Responsibility of the ENGINEER:

- The ENGINEER shall be responsible for the professional quality, technical accuracy, timely
 completion, and the coordination of all designs, drawings, specifications, reports, and other
 services furnished by the ENGINEER under this Contract.
- Approval by the OWNER or FAA of drawings, designs, specifications, reports, and incidental engineering work or materials furnished hereunder shall not in any way relieve the ENGINEER of his responsibility for the technical adequacy of his work.

E. Period of Services:

- The provisions of this Section and the various rates of compensation for ENGINEER's services provided for elsewhere in this Contract have been agreed to in anticipation of the orderly and continuous progress of the Project through completion of the construction phase. ENGINEER's obligation to render services hereunder will extend for a period, which may reasonably be required for the design, award of contracts, and construction of the Project.
- If OWNER has requested significant modifications or changes in the extent of the Project, the time of performance of ENGINEER's services and his various rates of compensation shall be adjusted appropriately.
- If OWNER fails to give prompt written authorization to proceed with any phase of services
 after completion of the immediately preceding phase, ENGINEER may, after giving seven
 (7) days' written notice to OWNER, suspend services under this Contract.
- If ENGINEER's services for design or during construction of the Project are delayed or suspended in whole or in part for reasons beyond ENGINEER's control, ENGINEER shall

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on written demand to **OWNER** (but without termination of this Contract) be paid as provided for in <u>Section V - Payment of Services</u>. If such delay or suspension extends for more than one (1) year for reasons beyond **ENGINEER**'s control, or if **ENGINEER** for any reason is required to render services more than one (1) year after substantial completion, the various rates of compensation provided for elsewhere in this Contract shall be subject to an increase not to exceed ten (10) percent per year.

F. Termination:

- This Contract may be terminated in whole or in part in writing by either party in the event of substantial failure by the other party to fulfill its obligation under this Contract through no fault of the terminating party provided that no such termination may be effected unless the other party is given:
 - a. Not less than ten (10) calendar days written notice of intent to terminate; and
 - b. An opportunity for consultation with the terminating party prior to termination.
- 2. This Contract may be terminated in whole or in part in writing by the OWNER for its convenience provided that such termination is for good cause (such as legal or financial reasons or major changes in the work program requirements) and that the ENGINEER is given:
 - a. Not less than ten (10) calendar days written notice of the intent to terminate; and
 - b. An opportunity for consultation with the terminating party prior to termination.
- 3. This Contract may be terminated in whole or in part in writing by the OWNER for its convenience provided that such termination occurs at the completion of a phase of work or work authorization and that the ENGINEER is given:
 - a. Not less than ten (10) calendar days written notice of the intent to terminate; and
 - b. An opportunity for consultation with the terminating party prior to termination.
- 4. Upon receipt of a termination notice, the ENGINEER shall promptly discontinue all services affected (unless the notice directs otherwise) and deliver or otherwise make available to the OWNER copies of all data, drawings, specifications, report estimates, summaries, and such other information and materials as may be accumulated by the ENGINEER performing this Contract, whether completed or in process.
- 5. If this Contract is terminated by either party, the ENGINEER shall be paid for services rendered and any expenses incurred prior to termination in addition to termination settlement costs reasonably incurred by the ENGINEER relating to commitments, which have become firm prior to termination. If the termination of the Contract occurs at the conclusion of one

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phase and prior to authorization of the OWNER to begin the next phase, payment by the OWNER of the completed phase shall be considered full compensation due the ENGINEER. If Contract is terminated by the OWNER for default of the ENGINEER, the amount due the ENGINEER may be adjusted to the extent of any additional cost incurred by the OWNER as a result of the ENGINEER's default.

- G. <u>Remedies:</u> Except as may be otherwise provided in this Contract all claims, counter claims, disputes, and other matters in question between OWNER and the ENGINEER arising out of or related to this Contract or the breach thereof will be decided by arbitration if the parties hereto mutually agree, or in a court of competent jurisdiction within the state in which the OWNER is located.
- H. Professional Liability: ENGINEER maintains professional liability coverage for damages as a result of our negligent acts, errors, or omissions. Our liability for this project will be limited to \$1,000,000 for its negligent acts, errors, or omissions. If the OWNER desires a higher limit of liability, then an additional fee to offset the additional cost associated with a higher limit of liability can be negotiated. Upon request, a certificate of insurance will be provided as proof of coverage.

I. Audit: Access to Records:

- The ENGINEER shall maintain books, records, documents, and other evidence directly
 pertinent to the work under this Contract in accordance with generally accepted accounting
 principles and practices. The OWNER, FAA, Comptroller General of the United States, or
 any of their duly authorized representatives shall have access to any books, documents,
 papers, records, and other evidence which relates directly to the Project for the purpose of
 examination, audit, excerpts, and transcriptions.
- Records described above shall be maintained and made available during the performance under this Contract and for a period of three (3) years after the OWNER makes final payment.
- J. <u>Civil Right Assurance:</u> During the performance of this Contract, the ENGINEER, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:
 - Compliance with Regulations: The Contractor shall comply with the regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations) which are herein incorporated by reference and made a part of this Contract.

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- 2. Nondiscrimination: The Contractor, with regard to the work performed by it during the Contract, shall not discriminate on the ground of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including practices when the Contract covers a program set forth in Appendix B of the Regulations.
- 3. Solicitations for Subcontractors, including procurements of materials and equipments. In all solicitations either by competitive bidding or negotiations made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this Contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- 4. Information and Report: The Contract shall provide all information and reports required by Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, and other sources of information, and its facilities as may be determined by the OWNER or FAA to be pertinent to ascertain compliance with such Regulations, orders, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall set forth what efforts it has made to obtain the information.
- 5. <u>Sanctions for Noncompliance</u>: In the event of the Contractor's noncompliance with the nondiscrimination provisions of this Contract, the OWNER shall impose such Contract sanctions as it or the FAA determine to be appropriate, including but not limited to:
 - Withholding of payments to the Contractor under the Contract until the Contractor complies; and/or
 - b. Cancellation, termination, or suspension of the Contract, in whole or in part.
- 6. Incorporation of Provisions: The Contractor shall include the provisions of paragraphs 1 through 5 of Section VI, I, in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the OWNER or FAA may direct as a means of enforcing such provisions including sanctions for noncompliance; provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with subcontractor or supplier as a result of such direction, the Contractor may request the OWNER to enter into such litigation to protect the interests of the OWNER and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

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K. Minority Business Enterprise (MBE) Assurances:

- Policy: It is the policy of the DOT that minority business enterprises as defined in 49 CFR
 Part 23 shall have the maximum opportunity to participate in the performance of contracts
 financed in whole or in part with federal funds under this Contract. Consequently, the MBE
 requirements of 49 CFR Part 23 apply to this Contract.
- 2. MBE Obligation: The Contractor agrees to ensure that minority business enterprises as defined in 49 CFR Part 23 have the maximum opportunity to participate in the performance of Contracts and subcontracts financed in whole or in part with federal funds provided under this Contract. In this regard, all Contractors shall take all necessary and reasonable steps in accordance with 49 CFR Part 23 to ensure that minority business enterprises have the maximum opportunity to compete for and perform Contracts. Contractors shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of DOT-assisted Contracts.

IN WITNESS WHEREOF, the parties hereto have made and executed this Contract as of the date and year first written above.

OWNER: ROWAN COUNTY	ENGINEER: TALBERT BEIGHT & ELLINGTON,
BY: Say of Care	INC. BY
TITLE: MANAGEA	TITLE: Vice President
DATE: 1/9/14	DATE: 3/27/14
WITNESS: Analyx Karger	WITNESS: Yumem. Cach
ADDRESS:	ADDRESS:
130 West Innes Street	4944 Parkway Plaza Boulevard
Salisbury, NC 28144	Suite 350
**	Charlotte, NC 28217

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EXHIBIT A ROWAN COUNTY ROWAN COUNTY AIRPORT SALISBURY, NORTH CAROLINA

(insert project name)
WORK AUTHORIZATION FOR PROFESSIONAL SERVICES
WORK AUTHORIZATION NO. insert number (i.e., xx-xx)

DATED: (<u>insert date</u>)
TBI PROJECT NO. (<u>insert project number</u>)

It is agreed to undertake the following work in accordance with the provisions of our Contract for Professional Services.

Scope of Services: (insert description of work to be performed)

<u>Time Schedule</u>: Work shall be completed in accordance with the schedule established and agreed upon by the Owner and Engineer. (OR insert time frame agreed upon)

<u>Cost of Services</u>: The method of payment shall be in accordance with Section V - Payment of Services of the Master Contract (dated <u>insert master contract date</u>). Paragraphs A and B of Section V will apply. The total value of this Work Authorization shall not exceed <u>Sinsert amount</u> without additional authorization.

Agreed as to Scope of Services, Time Schedule, and Cost of Services:

OWNER: ROWAN COUNTY	ENGINEER: TALBERT, BRIGHT & ELLINGTON, INC.
BY: () Kayan Co Manage r	BY: Vice President
TITLE:	TITLE:
DATE: audin Bararer	DATE:
WITNESS:	WITNESS:

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Exhibit A-1 SCOPE OF SERVICES

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Exhibit A-2
PROFESSIONAL FEE SUMMARY

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Exhibit A-3
SPECIAL SERVICES

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