

WORK AUTHORIZATION

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

**FOR:
REHABILITATION OF THE NORTH RAMP AND
THE PROPOSED RAMP EXPANSION IN FRONT OF THE NEW HANGAR**

**AT:
ROWAN COUNTY AIRPORT**

**REFERENCING:
NCDOT-DOA #: TBD**

TBE #3708-1601

August 11, 2016

I. PROJECT SUMMARY

This project includes construction administration, full time RPR services, Quality Assurance Testing, and As-Built Surveys for two primary schedules of work with the intent of both schedules of work being awarded in the same construction contract and performed back to back.

REHABILITATION OF THE NORTH RAMP

The first schedule of work will include the rehabilitation of the existing apron of the north ramp (identified as "Apron 'E'" in the 2014/15 Pavement Management Inspection Report prepared by the NCDOT – Division of Aviation). The approximate limits of the rehabilitation are depicted on page 6 of this Work Authorization.

The construction phase services for this schedule 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 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 quality acceptance test results, review and process Contractor pay requests, conduct a Final Inspection and prepare/distribute punchlist items letter, develop record drawings, assist Rowan County with Grant Closeout and prepare Grant closeout paperwork.

PROPOSED RAMP IN FRONT OF THE NEW HANGAR (SOUTH RAMP)

The second schedule of work will include the expansion of the south ramp in front of the new aircraft storage hangar. The approximate limits of the expansion are depicted on page 7 of this Work Authorization.

The construction phase services for this schedule 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 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 quality acceptance test results, review and process Contractor pay requests, conduct a Final Inspection and prepare/distribute punchlist items letter, develop record drawings, assist Rowan County with Grant Closeout and prepare Grant closeout paperwork.

II. CONSULTANT'S SCOPE OF WORK OVERVIEW

Construction Phase Professional Services will be provided for the proposed rehabilitation of the north ramp and the proposed ramp in front of the new hangar, as depicted in the attached exhibits, for the Rowan County Airport in accordance with the Master Contract.

The method of payment shall be on a lump sum basis in accordance with Section V, Paragraph A1 and B will apply; specifically basic services of the Work Authorization will be a lump sum of **\$46,248.18** (including reimbursable expenses). Special services shall be performed on a not-to-exceed basis with a budget of **\$28,906.00**. Project inspection shall be performed on an hourly basis with a daily per diem on a not-to-exceed basis with a budget of **\$100,373.52**. The total value of this Work Authorization shall not exceed **\$175,527.70** without additional authorization.

III. CONSTRUCTION PHASE CRITERIA AND REQUIREMENTS

- ADO Generated "Airport Sponsor Grant Expectations"
- FAA AC 150/5370-2E; Operational Safety On Airports During Construction

IV. WORK TASKS

BASIC SERVICES

North Ramp Rehabilitation

The construction phase services for this schedule 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 to confirm

actual construction dates, coordinating and conducting a single Preconstruction Conference and preparation of minutes for both schedules of work, review project schedule submitted by Contractor, coordination and review of Contractor submittals, responding to Contractor requests for information (RFI's), Bi-Weekly Construction visits/Progress Meetings attendance/meeting outlines and meeting minutes, review field change requests and related correspondence, prepare and distribute general construction correspondence through the project, review quality acceptance test results, review and process Contractor pay requests, conduct a Final Inspection and prepare/distribute punchlist items letter for each schedule of work as each schedule of work is complete, develop record drawings, assist Rowan County with Grant Closeout and prepare Grant closeout paperwork.

South Ramp Expansion

The construction phase services for this schedule 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 to confirm actual construction dates, coordinating and conducting a single Preconstruction Conference and preparation of minutes for both schedules of work, review project schedule submitted by Contractor, coordination and review of Contractor submittals, responding to Contractor requests for information (RFI's), Bi-Weekly Construction visits/Progress Meetings attendance/meeting outlines and meeting minutes, review field change requests and related correspondence, prepare and distribute general construction correspondence through the project, review quality acceptance test results, review and process Contractor pay requests, conduct a Final Inspection and prepare/distribute punchlist items letter for each schedule of work as each schedule of work is complete, develop record drawings, assist Rowan County with Grant Closeout and prepare Grant closeout paperwork.

CONSTRUCTION PHASE DELIVERABLES:

The Engineer will provide a Released for Construction set of plans and specifications to the NCDOA, Sponsor and number of 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 record drawings by the Engineer will also be included, along with final grant closeout paperwork. A testing summary will be provided of all quality assurance test results performed during the project for both schedules of work. A copy of the As-Built Survey will be provided for the construction areas within both schedules of work.

SPECIAL SERVICES

REHABILITATION OF THE NORTH RAMP

Task 1 – Full-Time Resident Project Representative

A full-time resident project representative will be provided to observe the construction and other responsibilities in accordance with "Section IV – Duties, Responsibilities, and Limitations of Authority of the Resident Project Representative" of the Master Contract. Assume 84 hours per

TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD

week over a 45-calendar day contract time allotment for budget purposes during construction.

Task 2 – Quality Assurance Testing

Quality assurance and acceptance testing required by the project specifications for this project will be provided. Reports of the tests performed will be provided, along with a summary of all tests performed at project closeout.

Task 3 – As-Built Survey

An as-built survey of the proposed improvements for this project will be provided after all work is complete. This topographic survey will not be performed in accordance with FAA Advisory Circular 150/5300-18B and related advisory circulars unless specifically instructed otherwise by the NC Division of Aviation.

PROPOSED RAMP IN FRONT OF THE NEW HANGAR (SOUTH RAMP)

Task 1 – Full-Time Resident Project Representative

A full-time resident project representative will be provided to observe the construction and other responsibilities in accordance with “Section IV – Duties, Responsibilities, and Limitations of Authority of the Resident Project Representative” of the Master Contract. Assume 84 hours per week over a 30-calendar day contract time allotment for budget purposes during construction.

Task 2 – Quality Assurance Testing

Quality assurance and acceptance testing required by the project specifications for this project will be provided. Reports of the tests performed will be provided, along with a summary of all tests performed at project closeout.

Task 3 – As-Built Survey

An as-built survey of the proposed improvements for this project will be provided after all work is complete. This topographic survey will not be performed in accordance with FAA Advisory Circular 150/5300-18B and related advisory circulars unless specifically instructed otherwise by the NC Division of Aviation.

Note: This Work Authorization does not include preparing a DBE or WBE/MBE plan or goal. The DBE or WBE/MBE goal is to be provided by NCDOT-DOA after the funding source is confirmed.

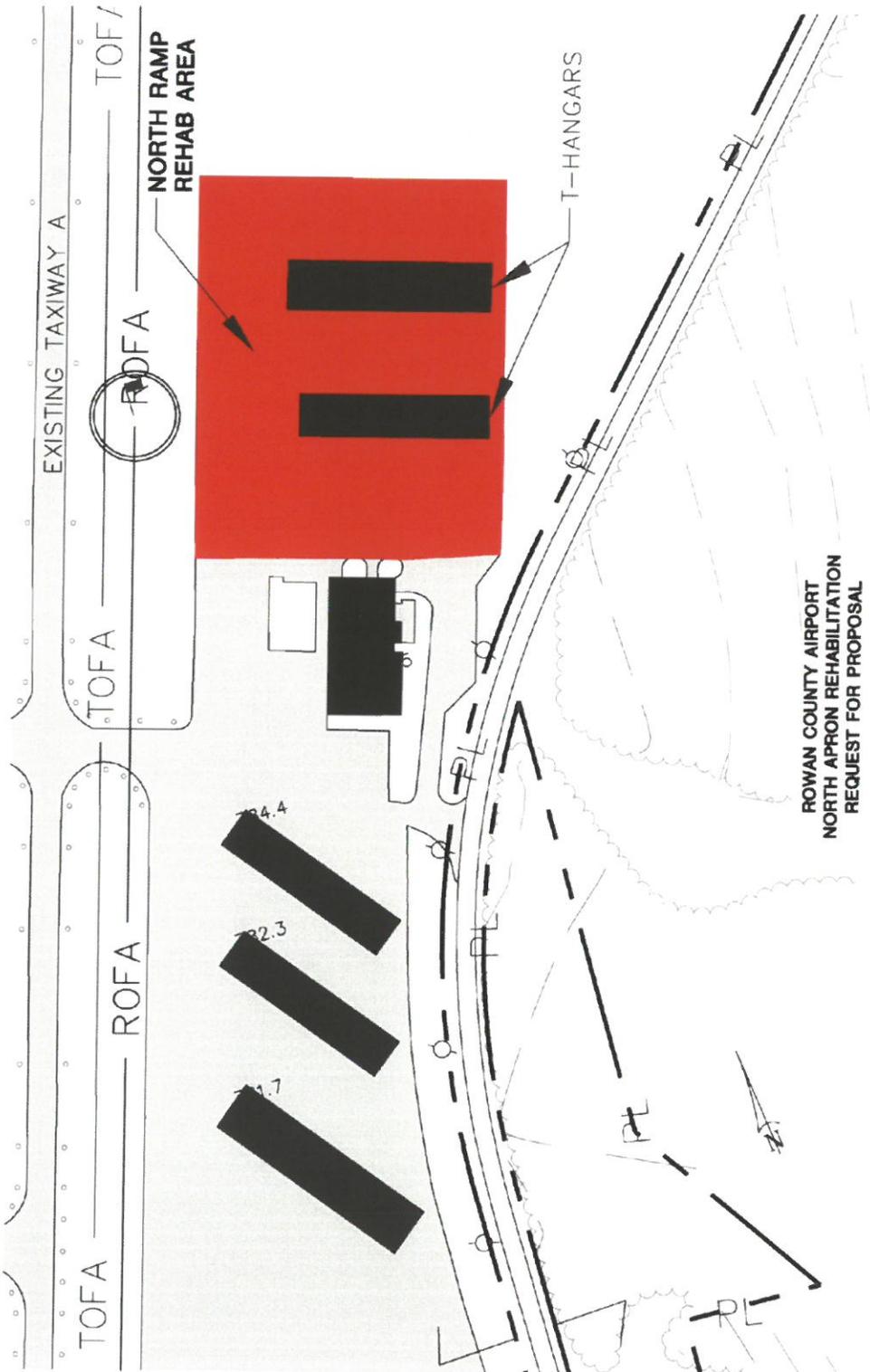
V. PROJECT SCHEDULE

Work shall be completed in accordance with the schedule established and agreed upon by the Owner and Engineer. Once the construction contract is awarded and the construction grants are in place, a schedule will be provided for the construction phase of this project.

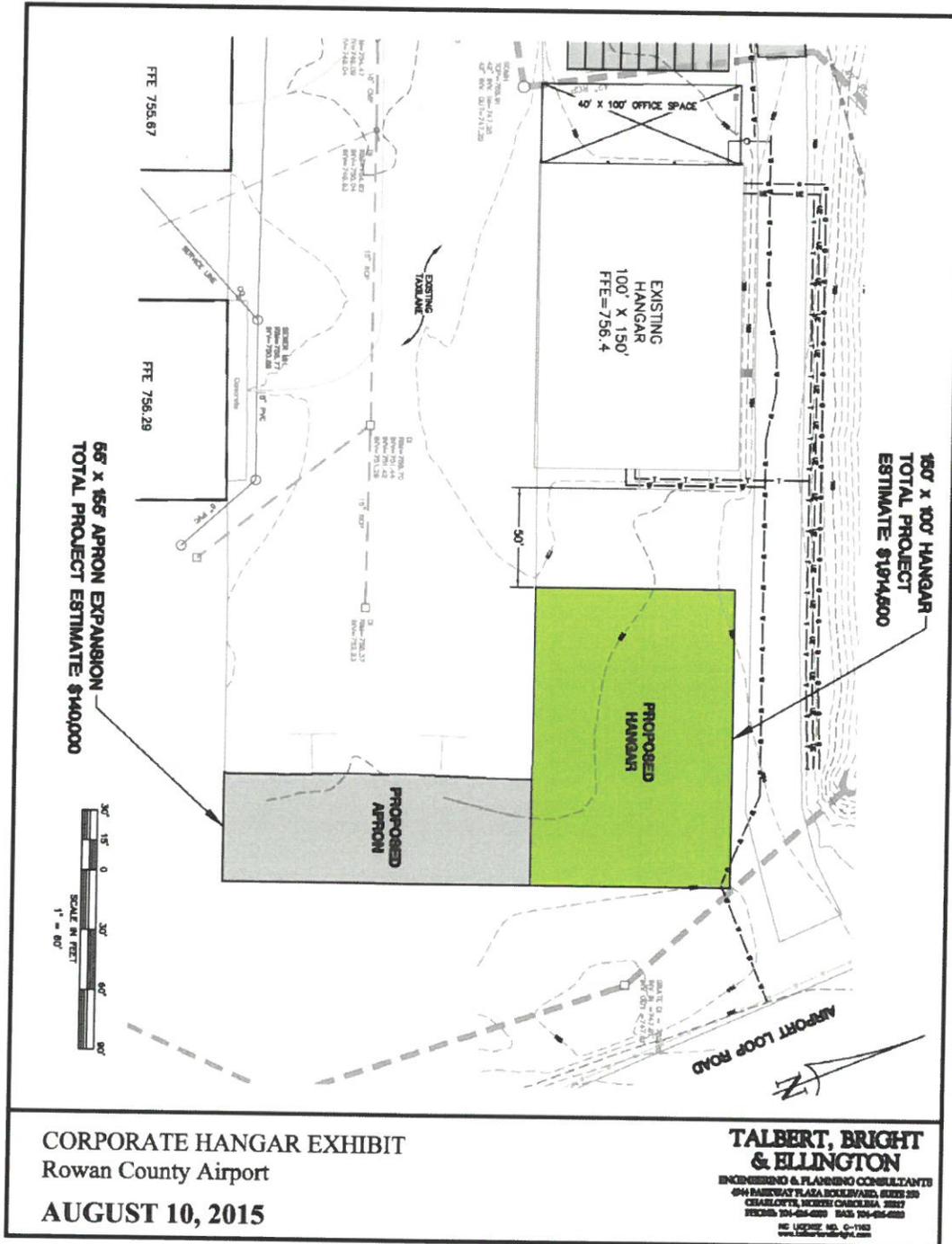
VI. GENERAL ASSUMPTIONS AND CLARIFICATIONS

It is assumed that the lowest responsive and responsible construction bid received will be within the available grant funds awarded for this project such that a single construction contract can be awarded to perform both schedules of work listed above. It is further assumed that both schedules of work will be performed back-to-back under a single construction contract. This Work Authorization will not be applicable to construction of the two schedules of work under two separate construction contracts, and two separate Work Authorizations will need to be negotiated if both schedules of work are not able to be performed back-to-back under a single construction contract.

TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD



TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
 CONTRACT FOR CONSTRUCTION PHASE SERVICES
 REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
 NCDOT-DOA #: TBD



APPENDIX A: DRAWING SHEET LIST

Not applicable for this phase of work.

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.

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 REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
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**APPENDIX C: BASIC SERVICES LUMP SUM FEE AND
 NOT TO EXCEED SUBCONSULTANT SERVICES FEE BACKUP**

TALBERT, BRIGHT & ELLINGTON, INC		MAN-HOUR/FEE ESTIMATE SUMMARY PAGE ROWAN COUNTY AIRPORT N RAMP REHABILITATION & SOUTH RAMP EXPANSION - CONSTRUCTION PHASE		 DIVISION OF AVIATION	
GENERAL NOTE: Information in red and applicable shaded areas on task sheets are available for data entry. All other cells are protected.					
BASIC AND SPECIAL SERVICES: LABOR SUMMARY					
MAJOR TASK:	MAJOR TASK DESCRIPTION:			COST:	
TASK A - LABOR	PREL PROJECT FORMULATION			\$2,857.80	
TASK B - LABOR	CONSTRUCTION ADMINISTRATION-NORTH RAMP			\$24,165.90	
TASK C - LABOR	CONSTRUCTION ADMINISTRATION-SOUTH RAMP			\$18,093.90	
TASK D - LABOR	RPR - NORTH RAMP (45 CALENDAR DAYS)			\$52,914.77	
TASK E - LABOR	RPR - SOUTH RAMP (30 CALENDAR DAYS)			\$35,338.84	
TASK F - LABOR				\$0.00	
TASK G - LABOR				\$0.00	
TASK H - LABOR				\$0.00	
TASK I - LABOR				\$0.00	
TASK J - LABOR				\$0.00	
SUBTOTAL LABOR:				\$133,371.22	
BASIC AND SPECIAL SERVICES: NON-SALARY DIRECT COST					
TASK A - EXPENSES	N. RAMP REHAB -CONSTRUCTION ADMIN			\$821.70	
TASK B - EXPENSES	S. RAMP EXPAN -CONSTRUCTION ADMIN			\$308.88	
TASK C - EXPENSES	N. RAMP REHAB -RPR PER DIEM			\$7,825.50	
TASK D - EXPENSES	S. RAMP EXPAN -RPR PER DIEM			\$4,294.40	
TASK E - EXPENSES				\$0.00	
TASK F - EXPENSES				\$0.00	
TASK G - EXPENSES				\$0.00	
TASK H - EXPENSES				\$0.00	
TASK I - EXPENSES				\$0.00	
TASK J - EXPENSES				\$0.00	
SUBTOTAL NON-SALARY DIRECT COSTS:				\$13,250.48	
SUBCONSULTANTS OR SUBCONTRACTORS					
QA TESTING	(Attach contract)	PROVIDED BY:	Geotechnologies	\$16,806.00	
AS BUILT SURVEY	(Attach contract)	PROVIDED BY:	Accutech Surveying & Mapping	\$12,100.00	
	(Attach contract)	PROVIDED BY:			
	(Attach contract)	PROVIDED BY:			
	(Attach contract)	PROVIDED BY:			
	(Attach contract)	PROVIDED BY:			
	(Attach contract)	PROVIDED BY:			
	(Attach contract)	PROVIDED BY:			
	(Attach contract)	PROVIDED BY:			
SUBTOTAL OF SUBCONSULTANTS:				\$28,906.00	
TOTAL FEE:				\$175,527.70	
PREPARED BY:	PAT TURNEY		SPONSOR:	THAD HOWELL	
TITLE:	PROJECT MANAGER		TITLE:	AIRPORT DIRECTOR	
REPRESENTING:	TALBERT, BRIGHT & ELLINGTON		WBS NUMBER:	TBD	
DATE:	8/11/2016		SIGNATURE:		

AV Fee Estimate (AV-201)

(Template Date: 10/2014)

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**

TALBERT, BRIGHT & ELLINGTON, INC.		MAN-HOUR FEE ESTIMATE ROWAN COUNTY AIRPORT N RAMP REHAB - CONSTRUCTION		DIVISION OF AVIATION N.C. DEPARTMENT OF TRANSPORTATION									
DATE: 01/17/2016													
BASIC AND SPECIAL SERVICES: DIRECT LABOR COSTS													
TASK B	CONSTRUCTION ADMINISTRATION-NORTH RAMP	Principal	Project Manager	Senior Planner	Engineer 5	Engineer 4	Engineer 2	Cad Tech	Admin	Open	Open	Total Hours Per Task	Total Task Cost
Task B.1	Coordinate/Manage Subcontractors		2	1	1				4			8	\$ 314.00
Task B.2	Prepare contract docs and RFC bids		1		2			2	2			7	\$ 288.00
Task B.3	Coordinate award of contract		1									1	\$ 38.00
Task B.4	Follow up with FAA		1									1	\$ 58.00
Task B.5	Coordinate/conduct reconstruction		3						1			4	\$ 159.00
Task B.6	Coordinate/conduct reconstruction		1						1			2	\$ 83.00
Task B.7	Coordinate/review project schedule		2									2	\$ 116.00
Task B.8	Coordinate/review submittals		4		4				2			10	\$ 482.00
Task B.9	Respond to Contractor RFIs		4		6							10	\$ 532.00
Task B.10	Weekly Construction meeting/progress Mgmt. (3)		12		6							12	\$ 696.00
Task B.11	Review/coordinate field changes		2		3							8	\$ 416.00
Task B.12	Construction correspondence		2		4				3			16	\$ 825.00
Task B.13	Review field results		2									6	\$ 316.00
Task B.14	Process day/night requests		4						2			6	\$ 282.00
Task B.15	Final inspection letter		5									5	\$ 290.00
Task B.16	Develop revised drawings		4		12			12				28	\$ 1,192.00
Task B.17	Grant Paperwork Closure Assistance		1						8			25	\$ 1,196.00
Open												0	\$ -
Open												0	\$ -
Open												0	\$ -
Open												0	\$ -
Open												0	\$ -
Open												0	\$ -
Open												0	\$ -
TOTAL MAN-HOURS		3	72	1	38	0	0	14	23	0	0	151	
RAW LABOR COSTS PER HOUR		\$68.00	\$58.00	\$48.00	\$50.00	\$41.00	\$31.00	\$30.00	\$25.00	\$0.00	\$0.00	\$0.00	
TOTAL LABOR FEES (Without Multiplier)		\$204.00	\$4,178.00	\$48.00	\$1,900.00	\$0.00	\$0.00	\$420.00	\$575.00	\$0.00	\$0.00	\$0.00	\$ 7,323.00
TOTAL DIRECT LABOR COSTS													
STATE AUDITED OVERHEAD RATES													
												Apply Multiplier of	\$ 7,323.00
												Overhead Subtotal	\$ 3.00
												Profit	\$ 2,196.90
												Capital Costs	\$ -
												TOTAL LABOR COSTS THIS TASK	\$ 24,165.90

AV Fee Estimate (AV-201) (Template Date: 05/2014)

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
 CONTRACT FOR CONSTRUCTION PHASE SERVICES
 REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
 NCDOT-DOA #: TBD**

TALBERT, BRIGHT & ELLINGTON, INC.		MAN-HOUR FEE ESTIMATE ROWAN COUNTY AIRPORT N. RAMP REHAB.-CONSTRUCTION ADMIN		 DIVISION OF AVIATION <small>DEPT. OF TRANSPORTATION</small>	
8/11/2016					
BASIC AND SPECIAL SERVICES: REIMBURSABLE DIRECT COST N. RAMP REHAB.-CONSTRUCTION ADMIN					
GENERAL PROJECT WORK:					
	QTY	DESCRIPTION		UNIT COST	
Travel:					
Personal Mileage	5	Trip(s) in Sedan @	104	miles @ \$0.560	\$291.20
	0	Trip(s) in Carry-All @	0	miles @ \$0.580	\$0.00
Per Diem:	0	Breakfast		each \$8.20	\$0.00
	5	Lunch		each \$10.70	\$53.50
	0	Dinner		each \$18.40	\$0.00
	0	Day		each \$37.30	\$0.00
	0	Lodging (on lump sum Incl. taxes)		each \$73.50	\$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:	500	8 1/2 x 11 B & W Copies		each \$0.04	\$20.00
	0	11 x 17 B & W Copies		each \$0.10	\$0.00
	0	8 1/2 x 11 Color Copies		each \$0.25	\$0.00
	0	11 x 17 Color Copies		each \$0.50	\$0.00
	1500	SQ. FT. of Plots (B & W) - Bond		sq ft \$0.22	\$327.00
Shipping / Posta	5	Express Shipping		each \$20.00	\$100.00
	6	USPS Postage		each \$5.00	\$30.00
Subtotal					\$821.70
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
					\$0.00
					\$0.00
					\$0.00
Subtotal					\$0.00
TOTAL:					\$821.70

AV Fee Estimate (AV-201) (5/14)

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
 CONTRACT FOR CONSTRUCTION PHASE SERVICES
 REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
 NCDOT-DOA #: TBD**

TALBERT, BRIGHT & ELLINGTON,		MAN-HOUR FEE ESTIMATE ROWAN COUNTY AIRPORT S. RAMP EXPAN.-CONSTRUCTION ADMIN		 DIVISION OF AVIATION <small>TRANSPORTATION & INFRASTRUCTURE</small>	
					8/11/2016
BASIC AND SPECIAL SERVICES: REIMBURSABLE DIRECT COST					
S. RAMP EXPAN.-CONSTRUCTION ADMIN					
GENERAL PROJECT WORK:					
	QTY	DESCRIPTION		UNIT COST	
Travel:					
Personal Mileage	2	Trip(s) in Sedan @	104	miles @ \$0.560	\$116.48
	0	Trip(s) in Carry-All @	0	miles @ \$0.580	\$0.00
Per Diem:	0	Breakfast		each \$8.20	\$0.00
	2	Lunch		each \$10.70	\$21.40
	0	Dinner		each \$18.40	\$0.00
	0	Day		each \$37.30	\$0.00
	0	Lodging (on lump sum Incl. taxes)		each \$73.50	\$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:	300	8 1/2 x 11 B & W Copies		each \$0.04	\$12.00
	0	11 x 17 B & W Copies		each \$0.10	\$0.00
	0	8 1/2 x 11 Color Copies		each \$0.25	\$0.00
	0	11 x 17 Color Copies		each \$0.50	\$0.00
	500	SQ. FT. of Plots (B & W) - Bond		sq ft \$0.22	\$109.00
Shipping / Posta	2	Express Shipping		each \$20.00	\$40.00
	2	USPS Postage		each \$5.00	\$10.00
Subtotal					\$308.88
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
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Subtotal					\$0.00
TOTAL:					\$308.88

AV FeeEstimate (AV-201) (5/14)

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
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TALBERT, BRIGHT & ELLINGTON, INC.		MAN-HOUR FEE ESTIMATE ROWAN COUNTY AIRPORT S. RAMP EXPAN.-RPR PER DIEM		 DIVISION OF AVIATION <small>FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</small>	
BASIC AND SPECIAL SERVICES: REIMBURSABLE DIRECT COST					8/11/2016
S. RAMP EXPAN.-RPR PER DIEM					
GENERAL PROJECT WORK:					
	QTY	DESCRIPTION		UNIT COST	
Travel:					
Personal Mileage		Trip(s) in Sedan @	0 miles @	\$0.580	\$0.00
		Trip(s) in Carry-All @	0 miles @	\$0.580	\$0.00
Per Diem	0	Breakfast	each	\$8.20	\$0.00
	32	Lunch	each	\$10.70	\$342.40
	0	Dinner	each	\$18.40	\$0.00
	0	Day	each	\$37.30	\$0.00
	32	Lodging (on lump sum Incl. taxes)	each	\$73.50	\$2,352.00
	32	Incidental Expenses	each	\$5.00	\$160.00
Rental Car	32	Sedan		\$45.00	\$1,440.00
		Mileage for Rental Car Only	miles @	\$0.20	\$0.00
Airfare		Flight Origin/Destination & Rate	each	\$250.00	\$0.00
Reproduction:					
		8 1/2 x 11 B & W Copies	each	\$0.04	\$0.00
		11 x 17 B & W Copies	each	\$0.10	\$0.00
		8 1/2 x 11 Color Copies	each	\$0.25	\$0.00
		11 x 17 Color Copies	each	\$0.50	\$0.00
		SQ. FT. of Plots (B & W) - Bond	sq ft	\$0.22	\$0.00
Shipping / Postage:					
		Express Shipping	each	\$20.00	\$0.00
		USPS Postage	each	\$5.00	\$0.00
Subtotal					\$4,294.40
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
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Subtotal					\$0.00
TOTAL:					\$4,294.40

AV Fee Estimate (AV-201) (5/14)

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
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REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**



June 30, 2016

Patrick E. Turney, P.E., PLS
Talbert Bright & Ellington
3525 Whitehall Park Drive
Suite 210
Charlotte, NC 28273

Re: North Apron Rehab As-Built Surveying at (RUQ) Rowan County Airport

Dear Mr. Turney:

AccuTech is pleased to submit this price proposal to prepare As Built surveying and mapping as outlined in your Original RFP dated October 12, 2015

Scope of Work

We are using your marked layout of the work area prepared for the design survey in October of 2015. Ramp pavement will have ground shots taken roughly on a twenty-five (25) foot grid. It is our understand your goal is to create a surface based on the survey we provide that shows a rough 25' grid, therefore our shots are not required to be exactly 25 foot even (they can be +/- a couple feet). In radius areas, we will take enough spots to establish a well defined radius at the edge of pavement. Spot elevations shall also be obtained at all breaks in grade, and at the edge of pavement every 25 feet.

At the two T-hangar buildings, locate edge of concrete building foundation around each hangar, so we will know the tie-in elevation and location.

1. AccuTech will locate all existing utilities within the project limits (within 25' of the edge of pavement). Locations of all utilities shall be given with top elevations. Pipe inverts are not required. Taxiway lights shall be located and spot elevations given at the frangible coupling or base can.

*546 Newell Street NW Concord, NC 28025
PHONE: 704-784-3286 FAX: 704-784-3581
EMAIL: accutech@accutechsurveying.com*

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**

Page Two (2)
June 30, 2016

Deliverable Products

Mapping in AutoCAD, R-14 and R 2010 & Hard Copy

Schedule

AccuTech will prepare the survey and mapping within 30 working days of written notice to proceed.

Fee

AccuTech's price to perform the above-described surveying & mapping will be **\$9,600.00**

Any items not listed in the Scope of Service would be considered Additional Services and would be hourly unless negotiated with the Owner or owner's agent. All items, which will be Additional Services, **would be discussed with the Owner in a written request, and a written response to proceed** from the Owner is required.

We look forward to working with you on this project and thank you for allowing us to help you. If the above is acceptable, please indicate acceptance by execution of document and forwarding a copy back to us. If you have any questions regarding our proposal, please call me.

Proposed by:

Agreed to and Accepted by:

AccuTech Surveying & Mapping, LLP

Talbert Bright & Ellington


Signature of Authorized Representative

Signature of Authorized Representative

Chad A Byrd, Partner June 30, 2016
Printed Name & Title Date

Printed Name & Title Date

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**



June 30, 2016

Patrick E. Turney, P.E., PLS
Talbert Bright & Ellington
3525 Whitehall Park Drive
Suite 210
Charlotte, NC 28273

Re: Corporate Hangar area As Built Survey.

Dear Mr. Turney:

AccuTech is pleased to submit this price proposal to prepare As Built surveying and mapping as outlined in your RFP Drawing e mailed June 30, 2016, and attached hereto.

Scope of Work

AccuTech will prepare a topographic survey of the area as shown on the attached survey limits drawing.

1. All new pavement will be located, and a grid of not greater the 25' will be provided to overlay standards on all paved sections.
2. Turfed areas will be surveyed to typical 1' surveying with all breaks in grades shown.
3. Storm and Sanitary sewer will be located and mapped to one structure outside of the survey limits. Rims, Inverts, Pipe size, and material will be provided.
4. Building/Hangar corners will be located and a Finished Floor Elevation provided.
5. Any other physical features within the survey limits will be located and mapped.

Deliverable Products

Mapping in AutoCAD, R-14 and R 2010 & Hard Copy

*546 Newell Street NW Concord, NC 28025
PHONE: 704-784-3286 FAX: 704-784-3581
EMAIL: accutech@accutechsurveying.com*

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CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**

June 30, 2016
Page 2

Schedule

AccuTech will prepare the survey and mapping within 30 working days of written notice to proceed.

Fee

AccuTech's price to perform the above-described surveying & mapping will be **\$2,500.00**

Any items not listed in the Scope of Service would be considered Additional Services and would be hourly unless negotiated with the Owner or owner's agent. All items, which will be Additional Services, **would be discussed with the Owner in a written request, and a written response to proceed** from the Owner is required.

We look forward to working with you on this project and thank you for allowing us to help you. If the above is acceptable, please indicate acceptance by execution of document and forwarding a copy back to us. If you have any questions regarding our proposal, please call me.

Proposed by:

Agreed to and Accepted by:

AccuTech Surveying & Mapping, LLP

Talbert Bright & Ellington



Signature of Authorized Representative

Signature of Authorized Representative

Chad A. Byrd Partner June 30, 2016
Printed Name & Title Date

Printed Name & Title Date

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**



August 11, 2016

Mr. Pat Turney, P.E.
Talbert, Bright and Ellington, Inc.
3525 Whitehall Park Drive
Suite #210
Charlotte, North Carolina 28273

Reference: Proposal for Quality Acceptance Testing
North Ramp Rehabilitation
Rowan County Airport
Salisbury, North Carolina
GeoTechnologies Proposal No. 1-16-0389

Dear Mr. Turney:

GeoTechnologies, Inc. is pleased to submit this proposal to provide a quality acceptance testing services for the proposed North Ramp Rehabilitation project at Rowan County Airport in Salisbury, North Carolina. Our proposal includes a scope of work and a recommended budget for the project.

STATEMENT OF QUALIFICATIONS

GeoTechnologies, Inc. was formed in January 1992 as a professional engineering firm to provide geotechnical engineering and construction materials testing for the engineering, architectural and construction industry. The firms founding partners have more than 100 years combined experience in geotechnical engineering and materials testing. Project experience includes thousands of projects in the public and private sectors ranging from small residential structures to major industrial projects. GeoTechnologies has completed over 20,000 projects throughout the Southeast and Mid-Atlantic states since its founding in 1992. GeoTechnologies offers a full range of geotechnical and materials testing with a present staff of 50 employees.

Airport Experience. Since its founding in 1992, GeoTechnologies, Inc. has provided geotechnical engineering and quality control/assurance testing on over 400 FAA and State sponsored projects with construction costs between \$200,000 and \$4 million. Employees of GeoTechnologies have a total combined airport experience of over 600 projects with construction costs of \$200,000 to \$50 million. Services provided on these projects have included:

1. Geotechnical Subsurface Investigations and Foundation Design Recommendations for New Terminal Facilities and other Airport Related Facilities.
2. Pavement Condition Surveys Including Recommendations for Rehabilitation and Overlay Designs.
3. Quality Assurance Testing During Construction
4. Resident Inspection Services During Construction
5. Analysis of Materials Problems

Through all of our project experience, members of our staff have become very familiar with the high degree of quality required on airport related projects. GeoTechnologies provided the pavement and subsurface investigation for this project and is familiar with conditions at the airport. GeoTechnologies is an accredited laboratory through AAP (AASHTO Accreditation Program).

3200 Wellington Ct. Ste. 108 • Raleigh, NC 27615 • Phone 919-954-1514 • Fax 919-954-1428 • www.geotechpa.com • License No. C-0894

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**

Talbert, Bright & Ellington, Inc.
August 11, 2016
Page: 2

SCOPE OF SERVICES

The project will consist of overlaying the existing North Ramp pavements. Some milling for tie-ins will be required as part of the paving work. We have estimated a maximum of 5 days to complete the paving for the project. GeoTechnologies will provide an Asphalt Plant Inspector to perform the necessary acceptance tests at the asphalt plant laboratory. We have also included time for a senior inspector to visit the site if engineering services are requested by Talbert, Bright and Ellington. Results of tests will be forwarded to the engineer on a daily basis by email.

COST OF SERVICES

A Cost Estimate is provided on the attached Table 1. We have estimated the cost of services for this project to be approximately \$8,428.00. Costs for our services will be based on the unit costs shown on each Table. We will not exceed these costs without direct authorization by Talbert, Bright and Ellington and will only invoice for the actual services provided on the project.

GeoTechnologies, Inc. appreciates this opportunity to present our proposal to Talbert, Bright and Ellington, Inc. If you have any questions concerning our proposal, please do not hesitate to contact us.

Sincerely,

GeoTechnologies, Inc.



David R. Harris
Senior Inspector



**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
 CONTRACT FOR CONSTRUCTION PHASE SERVICES
 REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
 NCDOT-DOA #: TBD**

Talbert, Bright & Ellington, Inc.
 August 11, 2016
 Page: 3

TABLE 1

COST ESTIMATE

North Ramp Rehabilitation
 Rowan County Airport
 Salisbury, North Carolina
 GeoTechnologies Proposal No. 1-16-0389

Asphalt Plant Inspector

6	Days @ 8 Regular Hours Per Day @ \$50.00 Per Hour	\$ 2,400.00
6	Day @ 6 Overtime Hours Per day @ \$60.00 Per Hour	\$ 2,160.00
6	Days Per Diem @ \$140.00 Per Day	\$ 840.00
600	Miles @ \$0.60 Per Mile	\$ 384.00

Engineering Services

24	Hours, Senior Inspector, @ \$85.00 Per Hour	\$ 2,040.00
2	Days, Per Diem, @ \$140.00 Per Day	\$ 280.00
540	Miles @ \$0.60 Per Mile	\$ 324.00

Estimated Cost \$ 8,428.00



**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
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August 11, 2016

Mr. Pat Turney, P.E.
Talbert, Bright and Ellington, Inc.
3525 Whitehall Park Drive
Suite #210
Charlotte, North Carolina 28273

Reference: Proposal for Quality Acceptance Testing
South Ramp Expansion
Rowan County Airport
Salisbury, North Carolina
GeoTechnologies Proposal No. 1-16-0390

Dear Mr. Turney:

GeoTechnologies, Inc. is pleased to submit this proposal to provide a quality acceptance testing services for the proposed South Ramp Expansion project at Rowan County Airport in Salisbury, North Carolina. Our proposal includes a scope of work and a recommended budget for the project.

STATEMENT OF QUALIFICATIONS

GeoTechnologies, Inc. was formed in January 1992 as a professional engineering firm to provide geotechnical engineering and construction materials testing for the engineering, architectural and construction industry. The firms founding partners have more than 100 years combined experience in geotechnical engineering and materials testing. Project experience includes thousands of projects in the public and private sectors ranging from small residential structures to major industrial projects. GeoTechnologies has completed over 20,000 projects throughout the Southeast and Mid-Atlantic states since its founding in 1992. GeoTechnologies offers a full range of geotechnical and materials testing with a present staff of 50 employees.

Airport Experience. Since its founding in 1992, GeoTechnologies, Inc. has provided geotechnical engineering and quality control/assurance testing on over 400 FAA and State sponsored projects with construction costs between \$200,000 and \$4 million. Employees of GeoTechnologies have a total combined airport experience of over 600 projects with construction costs of \$200,000 to \$50 million. Services provided on these projects have included:

1. Geotechnical Subsurface Investigations and Foundation Design Recommendations for New Terminal Facilities and other Airport Related Facilities.
2. Pavement Condition Surveys Including Recommendations for Rehabilitation and Overlay Designs.
3. Quality Assurance Testing During Construction
4. Resident Inspection Services During Construction
5. Analysis of Materials Problems

Through all of our project experience, members of our staff have become very familiar with the high degree of quality required on airport related projects. GeoTechnologies provided the pavement and subsurface investigation for this project and is familiar with conditions at the airport. GeoTechnologies is an accredited laboratory through AAP (AASHTO Accreditation Program).

**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
CONTRACT FOR CONSTRUCTION PHASE SERVICES
REHABILITATION OF THE NORTH RAMP AND THE PROPOSED RAMP IN FRONT OF THE NEW HANGAR
NCDOT-DOA #: TBD**

Talbert, Bright and Ellington, Inc.
August 11, 2016
Page: 2

SCOPE OF SERVICES

The project will consist of expanding the south ramp for future construction of a new hangar. The work will consist of earthwork (P-152) and aggregate base course (P-209) construction. The overall quantities of these materials are relatively small. We are proposing to provide an engineering technician to provide acceptance testing for the P-152 and P-209 work on a part time basis. Testing will be coordinated through the RPR on the site. We have estimated one day for P-401 paving for the project. GeoTechnologies will provide an Asphalt Plant Inspector to perform the necessary acceptance tests at the asphalt plant laboratory. We have also included time for a senior inspector to visit the site if engineering services are requested by Talbert, Bright and Ellington. Results of tests will be forwarded to the engineer on a daily basis by email.

COST OF SERVICES

A Cost Estimate is provided on the attached Table 1. We have estimated the cost of our services to be approximately \$8,378.00. Costs for our services will be based on the unit costs shown on Table 1. We will not exceed these costs without direct authorization by Talbert, Bright and Ellington and will only invoice for the actual services provided on the project.

GeoTechnologies, Inc. appreciates this opportunity to present our proposal to Talbert, Bright and Ellington, Inc. If you have any questions concerning our proposal, please do not hesitate to contact us.

Sincerely,

GeoTechnologies, Inc.



David R. Harris
Senior Inspector



**TALBERT, BRIGHT & ELLINGTON, INC. SCOPE OF WORK
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 NCDOT-DOA #: TBD**

Talbert, Bright and Ellington, Inc.
 August 11, 2016
 Page: 3

TABLE 1

COST ESTIMATE

South Ramp Expansoin
 Rowan County Airport
 Salisbury, North Carolina
 GeoTechnologies Proposal No. 1-16-0390

Field Services

5	Days @ 8 Regular Hours Per Day @ \$48.00 Per Hour	\$ 1,920.00
5	Days @ 3 Overtime Hours Per Day @ \$58.00 Per Hour	\$ 870.00
5	Days Per Diem @ \$140.00 Per Day	\$ 700.00
600	Miles @ \$0.60 Per Mile	\$ 360.00

Laboratory Services

3	P-209 Gradations @ \$120.00 Each	\$ 360.00
1	ABC Stone Compaction Curve @ \$180.00 Each	\$ 180.00

Asphalt Plant Inspector

1	Days @ 8 Regular Hours Per Day @ \$50.00 Per Hour	\$ 400.00
1	Day @ 6 Overtime Hours Per day @ \$60.00 Per Hour	\$ 480.00
1	Days Per Diem @ \$140.00 Per Day	\$ 140.00
270	Miles @ \$0.60 Per Mile	\$ 162.00

Engineering Services

24	Hours, Senior Inspector, @ \$85.00 Per Hour	\$ 2,040.00
2	Days, Per Diem, @ \$140.00 Per Day	\$ 280.00
810	Miles @ \$0.60 Per Mile	\$ 486.00

Estimated Cost \$ 8,378.00

