Agenda Item: 3F5

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

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Meeting Date:	September 13, 2011	[X] []	Consent Workshop		Regular Public Hearing
Department:			.,	• •	
Submitted By:	Department of Airports				
Submitted For:					
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I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: The General Consulting Agreement with CH2M Hill, Inc. for a term of two (2) years, with two one (1) year renewal options in the amount of \$1,521,708:

Level 1 Tasks Specific Projects for 2011 \$ 1,160,717
Level 2 Tasks Annual Services for 2011 \$ 110,991
Level 3 Tasks Misc. and Admin. Services for 2011 \$ 250,000

for the performance of professional planning and design services related to the approved Palm Beach County Airports Capital Improvement Program.

Summary: In order to carry out the approved Capital Improvement Program for the County, the Department of Airports requires professional planning and design engineering services. In accordance with Florida Statutes 287.055 and the Federal Aviation Administration's Advisory Circular 150/5100-14 (current edition), CH2M Hill, Inc. was competitively selected to provide these services. The first agreement of a potential multi-year contract in the amount of \$1,521,708 will provide the Department of Airports with the needed continuing professional services to implement the approved Capital Improvement Program. The services identified and negotiated are as follows: Level 1 Tasks - Palm Beach International Airport (PBIA) Runway 10L-28R and Taxiway Rehabilitation, Lighting and Electrical Upgrades and Stormwater Drainage Improvements; PBIA Golfview Implementation Planning; Level 2 Tasks - 2012 Annual Environmental Compliance Monitoring, Inspection and Training Services; Level 3 Tasks - Miscellaneous Architectural, Engineering and Planning Consulting Services, Miscellaneous Financial Consulting and Capital Programming, and Miscellaneous Environmental Consulting Services. CH2M Hill, Inc. is a Englewood, Colorado based firm, however, the majority of the work to be completed in this Agreement will be completed and/or managed through their Palm Beach Gardens, Florida office in conjunction with several Palm Beach County-based subconsultants and firms. Certain tasks performed during the term of this contract will be eligible for State and Federal grant participation; as such, the proposed fee for these tasks has been/will be verified in accordance with FAA Advisory Circular 150/5100-14C by use of an Independent Fee Analysis conducted by a neutral third party firm (Ricondo & Associates, Inc.). A Disadvantaged Business Enterprise (DBE) goal of 25% was set for this contract. The DBE participation for this contract is 39.65%, which exceeds the established goal. Countywide (JCM)

Background and Justification: In accordance with Florida Statutes 287.055, "The Florida Consultants Competitive Negotiations Act and the Federal Aviation Administration's Advisory Circular 150/5100-14 (current edition)", proposals were requested from interested firms and individuals to provide professional planning and design services to Palm Beach County associated with carrying out the approved Capital Improvement Program for the County Airports. On April 11, 2011 the Countywide Selection Committee selected CH2M Hill, Inc. to provide the required professional services for Palm Beach County Department of Airports. This selection and project setup arrangement was approved by the BCC approximately ten (10) business days after selection.

Attachments:

1. Contract with CH2M Hill, Inc. – 3 Originals

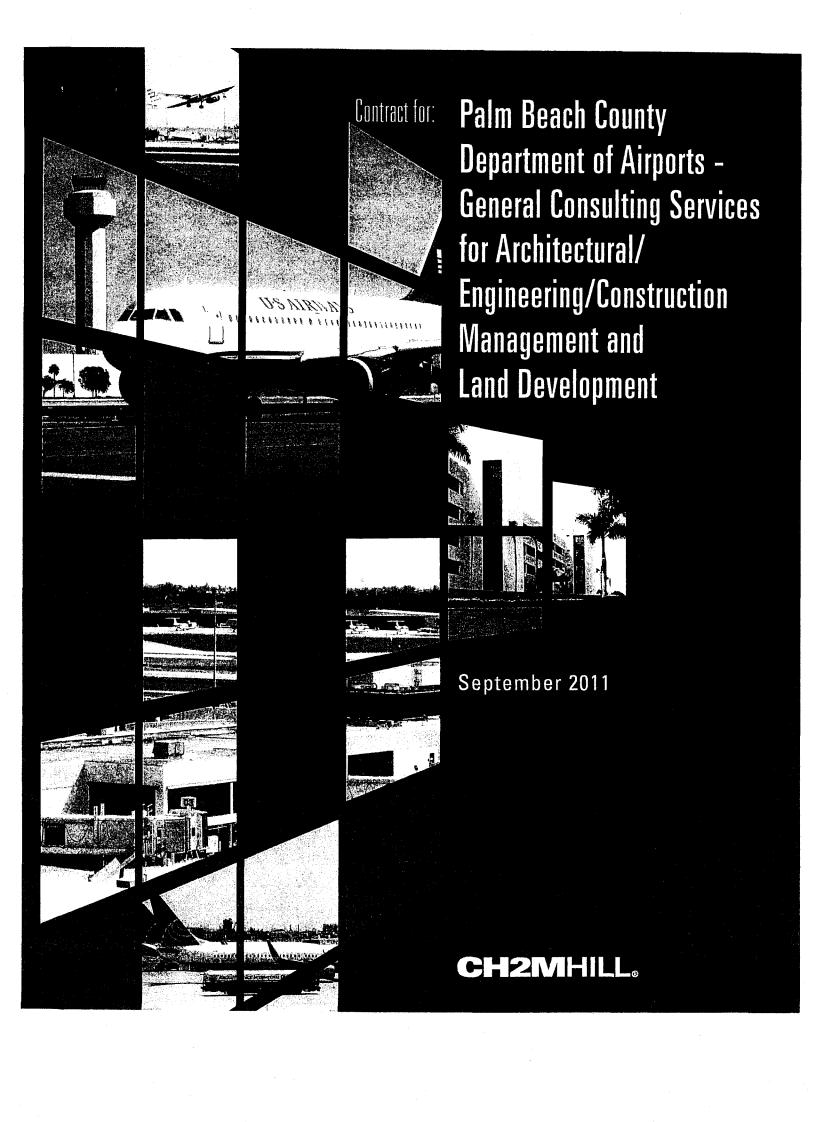
Recommended By	Som Relly	8/18/11	
	Department Director	Date	
Approved By:	Mer	W/4	
4.	County Administrator	Date	

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fisc	cal Impact:				
Fiscal Years	20 <u>11</u>	20 <u>12</u>	20 <u>13</u>	20 <u>14</u>	20 <u>15</u>
Capital Expenditures Operating Costs	<u>\$1,521,708</u>				
External Revenues (Grants) Program Income (County) In-Kind Match (County)					
NET FISCAL IMPACT	<u>\$1,521,708</u>	-	<u>.</u>		
# ADDITIONAL FTE POSITIONS (Cumulative)					
Is Item Included in Current Bu	ıdget? Yes	s <u>X</u> No			
	<u>4111</u> Depart ategory	ment <u>121</u> Ur	nit <u>A107</u> O	bject <u>6505</u>	
B. Recommended Sources of	f Funds/Sumn	nary of Fiscal	Impact:		
Funds are available in the al	bove account f	or this contract	i.		
C. Departmental Fiscal Revie	w:	Simm	<u>.</u>		
	III. REVIEW	COMMENTS			
A. OFMB Fiscal and/or Contra	act Developm	ent and Contr	ol Comment	s:	
OFMB SANGE	zlu Z	Contra	ct Dev. and	eol F/-	<i>\\\</i>
B. Legal Sufficiency: Myllen Cliff Assistant County Attorney	- fr 9/1/V		This Contract c contract review	omplies with our requirements.	
C. Other Department Review:					
Department Director					
REVISED 9/03					

ADM FORM 01

(THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT)



CONTRACT FOR CONSULTING/PROFESSIONAL SERVICES

This Contract is made as of the	day of	, 2011, by and between Palm Beach County,
Political Subdivision of the State of Fl	orida, by and throug	ugh its Board of Commissioners, hereinafter referred to a
the COUNTY, and CH2M HILL, IN	NC., [] an individu	lual, [] a partnership, [X] a corporation authorized to de
business in the State of Florida, herein	after referred to as the	the CONSULTANT, whose Federal I.D. is 59-0918189

In consideration of the mutual promises contained herein, the COUNTY and the CONSULTANT agree as follows:

ARTICLE 1 - SERVICES

The CONSULTANT'S responsibility under this Contract is to provide professional/consultation services in the area of <u>Airport General Consulting</u>, including but not limited to architecture, engineering, planning, construction management and inspection, and financial planning and consulting, as more specifically set forth in the Scope of Work detailed in Exhibit "A".

The COUNTY'S representative/liaison during the performance of this Contract shall be Mr. Gary M. Sypek, telephone no. 561-471-7474.

The CONSULTANT'S representative/liaison during the performance of this Contract shall be Mr. Daniel C. Tompkins, telephone no. 561-904-7510.

Services will be divided into three general tasks. Task I shall be "Planning, Design and Construction," which consists of all efforts relating to specific planning, design and construction projects. Task II shall be "Annual Services" which consist of services the COUNTY requires performed on a recurring annual basis. Task III shall be "Miscellaneous Planning and Engineering Services" which consist of service types that are not defined as "Planning, Design, and Construction" (Task I) or "Annual Services" (Task II). Each task is further described in Exhibit "A".

Known services are hereby defined in the attached Exhibit A and will be provided on either a lump sum or Time & Materials basis. Unknown services will be defined in specific Task Authorizations on either a lump sum or Time & Materials basis. The CONSULTANT shall prepare Task Authorizations to the COUNTY representative for action and approval.

Work will be authorized by either (1) written notice to proceed if the scope, schedule and fee are established in the contract or (2) through Task Authorizations. Work will be on a lump sum or Time & Materials basis.

ARTICLE 2 – PERFORMANCE PERIOD

The CONSULTANT shall commence services upon execution of this Contract and written Notice To Proceed from COUNTY. The term of this Contract shall be two (2) years, with two (2) one (1) year renewal options, the exercise of which are within COUNTY'S sole control and discretion. Continued performance of on-going services related to tasks authorized prior to the expiration of the Contract shall extend the term presented above to allow completion of the task. If required, an Amendment to the Contract may be issued to expand the scope of services to include any additional services needed to complete a task authorized prior to expiration of this Contract.

Reports and other items of work shall be delivered or completed in accordance with the detailed schedule set forth in Exhibit "C" and in individual Task Authorizations.

ARTICLE 3 - PAYMENTS TO CONSULTANT

A. The COUNTY agrees to compensate the CONSULTANT on a lump sum and time and materials basis as described for each Task and in accordance with the pricing set forth in Exhibit "B" attached hereto and incorporated by reference herein. The Total Not-to-Exceed amount to be paid to CONSULTANT for this Contract shall be \$1,521,708 (One Million Five Hundred and Twenty One Thousand Seven Hundred and Eight), as described in Exhibit B, attached. Expenses incurred during the course of performance of this contract, including, but not limited to, out-of-pocket expenses for travel, postage, express mail, and contracted reproduction services, shall be calculated as a lump sum percentage of the labor cost, or itemized and invoiced separately as described for each Task.

The Scope of Services, Prices and payments to CONSULTANT for year two (2) of the Contract shall be negotiated by the parties prior to the expiration of year one (1) and as the specific services needed for year two (2) can be better defined. The Scope of Services and payments for year two (2) shall be set forth in a written amendment to this contract. This process shall be followed with regard to the one (1) year renewal options, if exercised.

For work to be performed under Time and Materials method of compensation, CONSULTANT shall notify the COUNTY'S representative in writing when 90% of this amount has been reached. The CONSULTANT will bill the COUNTY on a monthly basis, or as otherwise provided, at the amounts set forth in Exhibit "B" for services rendered toward the completion of the Scope of Work. Where incremental billing for partially completed items is permitted, the total billing shall not exceed the estimated percentage of completion as of the billing date.

- B. Invoices received from the CONSULTANT pursuant to this Contract will be reviewed and approved by the COUNTY's representative, to verify that services have been rendered in conformity with the Contract. Approved invoices will then be sent to the Finance Department for payment. Invoices will normally be paid within thirty (30) days following the COUNTY representative's approval.
- C. For Time & Material task orders, all requests for payment of "out-of-pocket" reimbursable expenses (excluding Lump Sum Expenses) eligible for reimbursement under the terms of this Agreement shall include copies of said receipts, invoices, or other documentation acceptable to the Palm Beach County Finance Department. Such documentation shall be sufficient to establish that the expense was actually incurred and necessary in the performance of the scope of work described in this Agreement. Mileage charges shall identify the destination, number of miles, rate, and purpose of travel. Duplication charges shall describe the documents, purpose of duplicating, and rate charged. Any travel, per diem, mileage, meals, or lodging expenses, which may be reimbursable under the terms of this Agreement, will be paid in accordance with the rates and conditions set forth in Section 112.061, Florida Statutes.
- D. Lump sum project phases will be invoiced on a monthly basis based on total percentage complete. For lump sum projects, DBE subconsultants will be tracked separately. Time & Material task orders will be invoiced monthly based on total labor hours plus reimbursable expenses in accordance with a not to exceed amount.
- E. <u>Final Invoice</u>: In order for both parties herein to close their books and records, the CONSULTANT will clearly state <u>"final invoice"</u> on the CONSULTANT'S final/last billing to the COUNTY. This shall constitute CONSULTANT'S certification that all services have been properly performed and all charges and costs have been invoiced to Palm Beach County. Any other charges not properly included on this final invoice are waived by the CONSULTANT.

ARTICLE 4 - TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Contract by the CONSULTANT shall also act as the execution of a truth-in-negotiation certificate certifying that the wage rates, over-head charges, and other costs used to determine the compensation provided for in this Contract are accurate, complete and current as of the date of the Contract and no higher than those charged the CONSULTANT'S most favored customer for the same or substantially similar service.

The said rates and costs shall be adjusted to exclude any significant sums should the COUNTY determine that the rates and costs were increased due to inaccurate, incomplete or noncurrent wage rates or due to inaccurate representations of fees paid to outside consultants. The COUNTY shall exercise its rights under this Article 4 within three (3) years following final payment.

ARTICLE 5 - TERMINATION

This Contract may be terminated by the CONSULTANT upon thirty (30) days prior written notice to the COUNTY'S representative in the event of substantial failure by the COUNTY to perform in accordance with the terms of this Contract through no fault of the CONSULTANT. It may also be terminated, in whole or in part, by the COUNTY, with or without cause, upon seven (7) days written notice to the CONSULTANT. In the event of a termination for cause, the CONSULTANT shall have a period of seven (7) days to cure any project deficiencies before contract termination commences.

Unless the CONSULTANT is in breach of this Contract, the CONSULTANT shall be paid for services rendered to the COUNTY'S satisfaction through the date of termination. After receipt of a Termination Notice and except as otherwise directed by the COUNTY the CONSULTANT shall:

- A. Stop work on the date and to the extent specified.
- B. Terminate and settle all orders and subcontracts relating to the performance of the terminated work.
- C. Transfer all work in process, completed work, and other materials related to the terminated work to the COUNTY.
- D. Continue and complete all parts of the work that have not been terminated.

The CONSULTANT acknowledges that failure to comply with the conditions, specifications, or terms of this contract, or failure to timely and responsibly correct such non-compliance, will result in referral of the matter to the Director of Purchasing for consideration of suspension or debarment in accordance with the provisions of Palm Beach County Code Section.

Notwithstanding any breach of this Contract by either party nor the status of payment to the CONSULTANT, nor the COUNTY'S exercise of its rights of termination, it is hereby agreed between the parties that the copies of any and all property, work product, documentation, reports, computer systems and software, schedules, graphs, outlines, books, manuals, logs, files, deliverables, photographs, videos, tape recordings or data relating to this Contract which has been created as a part of CONSULTANT'S services, or authorized by the COUNTY as a reimbursable expense, whether generated directly by the CONSULTANT, or by or in conjunction or consultation with any other party whether or not a party to this Contract, whether or not in privity of contract with the COUNTY or CONSULTNAT, and wherever located shall be the property of the COUNTY.

ARTICLE 6 – STANDARD OF CARE

The CONSULTANT has, during the selection and negotiation process which has preceded this agreement, represented to the COUNTY that the CONSULTANT is possessed of a superior level of skill, knowledge, experience and expertise as compared to that of other engineers in CONSULTANT'S area of practice. The CONSULTANT acknowledges that the COUNTY has relied on the CONSULTANT'S representations of skill, knowledge, experience and expertise. By executing this Contract, the CONSULTANT agrees that the CONSULTANT will exercise the degree of skill, knowledge, experience and expertise, which the CONSULTANT has claimed. The CONSULTANT shall perform such duties as may be assigned without neglect. The CONSULTANT accepts the relationship of trust and confidence established by the Contract, and covenants with the COUNTY to cooperate with the COUNTY and to utilize the CONSULTANT'S best skill, efforts and judgment in furthering the interests of the COUNTY. The CONSULTANT agrees to perform each assignment in the best, most efficient and economical manner consistent with the COUNTY'S interests.

The CONSULTANT further contracts with the COUNTY to furnish its professional skill and judgment with due care in accordance with applicable Federal, State and local laws, codes and regulations as amended and supplemented which are in effect on the date of this Contract first written. It is specifically understood that the Accessibility provisions of the Americans With Disabilities Act (ADA) shall be complied with and incorporated into the Contract.

Although specific provisions of this Contract refer to some services with terms such as "complete", "accurate", "full extent", "highest", "in detail", "verify", "certify", "represent", "substantiate", "inspect", "monitor", "discover", "as often as necessary", "approve", "accept", "reject", and "enforce", such terms and similar terms shall be qualified by the standard of care stated in the preceding two paragraphs.

The CONSULTANT shall not be responsible for the means, methods, techniques, sequences and operations of construction and safety precautions and programs except as provided in the Construction Documents.

ARTICLE 7 - SUBCONTRACTING

The COUNTY reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make a determination as to the capability of the subcontractor to perform properly under this Contract. The CONSULTANT is encouraged to seek <u>Disadvantaged Business Enterprises</u> for participation in subcontracting opportunities. For services rendered by subcontractors retained by the CONSULTANT in connection with all services, the COUNTY shall pay the actual subcontractor fees to be paid by the CONSULTANT for these services.

The following SUBCONSULTANTS are anticipated to be utilized by the CONSULTANT, as necessary and approved by the COUNTY, to assist in the completion of various task authorizations:

- ADA Engineering, Inc. (DBE)
- Applied Pavement Technology, Inc.
- Brown & Phillips, Inc. (DBE)
- Cyriacks Environmental Consulting Services, Inc. (DBE)
- Harris Miller Miller & Hanson, Inc.
- Hillers Electrical Engineering, Inc. (DBE)
- OR Colan Associates
- Southern Resource Mapping of Miami, Inc.
- F.R. Aleman & Associates, Inc. (DBE)
- The Sun Group (DBE)
- Tierra South Florida (DBE)

• Urban Design Kilday Studios

If a subconsultant fails to perform or make progress, as required by this Contract, and it is necessary to replace the subconsultant to complete the work in a timely fashion, the CONSULTANT shall promptly do so, subject to acceptance of the new subconsultant by the COUNTY.

In accordance with the Department of Transportation Federal Regulations, CFR 49, Part 26 and Palm Beach COUNTY Disadvantaged Business Enterprise (DBE) Ordinance #91-34, the CONSULTANT agrees to the DBE participation for this contract as specified below:

3.00 %	Black Participation
16.00%	Hispanic Participation
2.00%	Women Participation
4.00%	Other (to be used in any category)

At Least 25% DBE Participation In Total Contract (based on dollar value of compensation)

The CONSULTANT agrees to abide by all provisions of the Department of Transportation Federal Regulations and Palm Beach County Code and understands that failure to comply with any of the requirements will be considered a breach of contract.

The CONSULTANT hereby warrants that Schedule 1 (Participation by Disadvantaged Business Enterprises) and Schedule 2 (Letter of Intent) attached hereto and made a part hereof, include the names, addresses, scope of work, and dollar value of the DBE participation signed by each of the listed DBE subconsultants on Schedule 1 agreeing to perform the contract at the listed dollar value.

The CONSULTANT understands that each DBE firm utilized on this contract must be certified by Palm Beach County Department of Airports in order to be counted toward the contract goal.

The CONSULTANT understands that it is the responsibility of the Department awarding the Contract and the Airport's Minority Affairs Office to monitor compliance with the DBE Ordinance requirements. The CONSULTANT shall furnish progress payment reports, with each billing, to the COUNTY Representative for use of both parties on the progress of the DBE participation for this contract.

The CONSULTANT shall provide the Airport's Minority Affairs Office a copy of the CONSULTANT'S contract with the DBE subconsultant or any other related documentation upon request.

CONSULTANT acknowledges and understands the requirements to comply with the tasks and proportionate dollar amounts throughout the term of the contract as it relates to the use of DBE firms. Any DBEs, which cease to remain associated with this Contract, shall be replaced with other certified DBEs, unless approval to the contrary is granted by the COUNTY. A detailed written request must be submitted to the COUNTY for approval for all substitutions of subconsultants.

The CONSULTANT understands the requirements to comply with the tasks and proportioned dollar amounts throughout the term of the contract as it relates to the use of DBE firms.

The CONSULTANT acknowledges and understands that it is prohibited from making any agreements with the DBE in which the DBE promises not to provide subconsultant quotations to other bidders or potential bidders.

CONSULTANT will only be permitted to replace a certified DBE subcontractor who is unwilling or unable to perform. Such substitutions must be done with another certified DBE in order to maintain the DBE percentages

established in this contract. If CONSULTANT cannot find a certified DBE to replace the originally proposed DBE, the CONSULTANT must establish that it has exercised good faith efforts in an attempt to do so. Requests for substitutions of DBE must be submitted to the COUNTY'S representative, with a copy to the Airport's Minority Affairs Office.

The CONSULTANT shall maintain all relevant records and information necessary to document compliance with the Federal Regulations, CFR 49 - Part 26 and Airports' DBE Program and will allow the COUNTY to inspect such records.

The CONSULTANT shall certify in writing that all subcontractors, subconsultants and suppliers have been paid for accepted work and materials from previous progress payments received by the CONSULTANT prior to receipt of any further progress payments. During the Contract and upon completion of the Contract, the COUNTY may request documentation to certify payment to subcontractors, subconsultants or suppliers. This provision in no way creates any contractual relationship between any subcontractor, subconsultant or supplier and the COUNTY or any liability on the COUNTY for the CONSULTANT'S failure to make timely payment to the subcontractor, subconsultant or supplier.

ARTICLE 8 - FEDERAL AND STATE TAX

The COUNTY is exempt from payment of Florida State Sales and Use Taxes. The COUNTY will sign an exemption certificate submitted by the CONSULTANT. The CONSULTANT shall <u>not</u> be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the COUNTY, nor is the CONSULTANT authorized to use the COUNTY'S Tax Exemption Number in securing such materials.

The CONSULTANT shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes, and benefits with respect to this contract.

ARTICLE 9 - AVAILABILITY OF FUNDS

The COUNTY'S performance and obligation to pay under this contract for subsequent fiscal years is contingent upon annual appropriations for its purpose by the Board of County Commissioners.

ARTICLE 10 - INSURANCE

- A. CONSULTANT shall, at its sole expense, agree to maintain in full force and effect at all times during the life of this Contract, insurance coverages and limits (including endorsements), as described herein. The requirements contained herein, as well as COUNTY'S review or acceptance of insurance maintained by CONSULTANT are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by CONSULTANT under the contract.
- B. <u>Commercial General Liability</u> CONSULTANT shall agree to maintain Commercial General Liability at a limit of liability not less than \$5,000,000 Each Occurrence. Coverage shall not contain any endorsement excluding Contractual Liability or Cross Liability unless granted in writing by County's Risk Management Department. CONSULTANT shall provide this coverage on a primary basis.
- C. <u>Business Automobile Liability</u> CONSULTANT shall maintain Business Automobile Liability at a limit of liability not less than \$5,000,000 Each Occurrence for all owned, non-owned and hired automobiles. In the event CONSULTANT doesn't own any automobiles, the Business Auto Liability requirement shall be amended allowing CONSULTANT to agree to maintain only Hired & Non-Owned Auto Liability. This amended requirement may be satisfied by way of endorsement to the Commercial General Liability, or separate Business Auto coverage form. CONSULTANT shall provide this coverage on a primary basis.

- D. Worker's Compensation Insurance & Employers Liability CONSULTANT shall maintain Worker's Compensation & Employers Liability in accordance with Florida Statute Chapter 440. CONSULTANT shall provide this coverage on a primary basis.
- E. <u>Professional Liability</u> CONSULTANT shall maintain Professional Liability, or equivalent Errors & Omissions Liability at a limit of liability not less than \$5,000,000 Per Occurrence. When a self-insured retention (SIR) or deductible exceeds \$10,000, COUNTY reserves the right, but not the obligation, to review and request a copy of CONSULTANT'S most recent annual report or audited financial statement. For policies written on a "Claims-Made" basis, CONSULTANT shall maintain a Retroactive Date prior to or equal to the effective date of this Contract. In the event the policy is canceled, non-renewed, switched to an Occurrence Form, retroactive date advanced, or any other event triggering the right to purchase a Supplement Extended Reporting Period (SERP) during the life of this Contract, CONSULTANT shall purchase a SERP with a minimum reporting period not less than 2 years. CONSULTANT shall provide this coverage on a primary basis.
- F. Additional Insured CONSULTANT shall endorse the COUNTY as an Additional Insured with a CG 2026 Additional Insured Designated Person or Organization endorsement, or its equivalent, to the Commercial General Liability. The Additional Insured endorsement shall read "Palm Beach County Board of County Commissioners, a Political Subdivision of the State of Florida, its Officers, Employees and Agents." CONSULTANT shall provide the Additional Insured endorsements coverage on a primary basis.
- G. Waiver of Subrogation CONSULTANT hereby waives any and all rights of Subrogation against the County, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONSULTANT shall agree to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy, which a condition to the policy specifically prohibits such an endorsement, or voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.
- H. Certificate(s) of Insurance Immediately following notification of the award of this Contract, CONSULTANT shall deliver to the COUNTY a Certificate(s) of Insurance evidencing that all types and amounts of insurance coverages required by this Contract have been obtained and are in full force and effect. Such Certificate(s) of Insurance shall include a minimum thirty (30) day endeavor to notify due to cancellation or non-renewal of coverage.
- I. <u>Umbrella or Excess Liability</u> If necessary, CONSULTANT may satisfy the minimum limits required above for Commercial General Liability, Business Auto Liability, and Employer's Liability coverage under Umbrella or Excess Liability. The Umbrella or Excess Liability shall have an Aggregate limit not less than the highest "Each Occurrence" limit for Commercial General Liability, Business Auto Liability, or Employer's Liability. The COUNTY shall be specifically endorsed as an "Additional Insured" on the Umbrella or Excess Liability, unless the Certificate of Insurance notes the Umbrella or Excess Liability provides coverage on a "Follow-Form" basis.
- J. Right to Review COUNTY, by and through its Risk Management Department, in cooperation with the contracting/monitoring department, reserves the right to review, modify, reject or accept any required policies of insurance, including limits, coverages, or endorsements, herein from time to time throughout the term of this Contract. COUNTY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of its poor financial condition or failure to operate legally.

ARTICLE 11 - INDEMNIFICATION

CONSULTANT shall indemnify and hold harmless the COUNTY, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of CONSULTANT and other persons employed or utilized by CONSULTANT in the performance of the contract.

ARTICLE 12 - SUCCESSORS AND ASSIGNS

The COUNTY and the CONSULTANT each binds itself and its partners, successors, executors, administrators and assigns to the other party and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the COUNTY nor the CONSULTANT shall assign, sublet, convey or transfer its interest in this Contract without the prior written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the COUNTY, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the COUNTY and the CONSULTANT.

ARTICLE 13 - REMEDIES

This Contract shall be governed by the laws of the State of Florida. Any legal action necessary to enforce the Contract will be held in a State court of competent jurisdiction located in Palm Beach County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity, by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.

ARTICLE 14 - CONFLICT OF INTEREST

The CONSULTANT represents that it presently has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder, as provided for in Chapter 112, Part III, Florida Statutes. The CONSULTANT further represents that no person having any such conflict of interest shall be employed for said performance of services.

The CONSULTANT shall promptly notify the COUNTY's representative, in writing, by certified mail, of all potential conflicts of interest of any prospective business association, interest or other circumstance which may influence or appear to influence the CONSULTANT'S judgment or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the CONSULTANT may undertake and request an opinion of the COUNTY as to whether the association, interest or circumstance would, in the opinion of the COUNTY, constitute a conflict of interest if entered into by the CONSULTANT. The COUNTY agrees to notify the CONSULTANT of its opinion by certified mail within thirty (30) days of receipt of notification by the CONSULTANT. If, in the opinion of the COUNTY, the prospective business association, interest or circumstance would not constitute a conflict of interest by the CONSULTANT, the COUNTY shall so state in the notification and the CONSULTANT shall, at its option, enter into said association, interest or circumstance and it shall be deemed not in conflict of interest with respect to services provided to the COUNTY by the CONSULTANT under the terms of this Contract.

ARTICLE 15 - EXCUSABLE DELAYS

The CONSULTANT shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the control of the CONSULTANT or its subcontractors or subconsultants and without their fault or negligence. Such causes include, but are not limited to, acts of God, force majeure, natural or public health emergencies, labor disputes, freight embargoes, and abnormally severe and unusual

weather conditions.

Upon the CONSULTANT'S request, the COUNTY shall consider the facts and extent of any failure to perform the work and, if the CONSULTANT'S failure to perform was without it or its subcontractors fault or negligence, the Contract Schedule and/or any other affected provision of this Contract shall be revised accordingly, subject to the COUNTY'S rights to change, terminate, or stop any or all of the work at any time.

ARTICLE 16 - ARREARS

The CONSULTANT shall not pledge the COUNTY'S credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien, or any form of indebtedness. The CONSULTANT further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

ARTICLE 17 - DISCLOSURE AND OWNERSHIP OF DOCUMENTS

The CONSULTANT shall deliver to the COUNTY's representative for approval and acceptance, and before being eligible for final payment of any amounts due, all documents and materials prepared by and for the COUNTY under this Contract.

To the extent allowed by Chapter 119, Florida Statutes, all written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the COUNTY or at its expense will be kept confidential by the CONSULTANT and will not be disclosed to any other party, directly or indirectly, without the COUNTY'S prior written consent unless required by a lawful court order. All drawings, maps, sketches, programs, data base, reports and other data developed, or purchased, under this Contract for or at the COUNTY'S expense shall be and remain the COUNTY'S property and may be reproduced and reused at the discretion of the COUNTY. Any reuse of project documents by the COUNTY shall be at the COUNTY'S sole risk.

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated hereby.

ARTICLE 18 - INDEPENDENT CONTRACTOR RELATIONSHIP

The CONSULTANT is, and shall be, in the performance of all work services and activities under this Contract, an Independent Contractor, and not an employee, agent, or servant of the COUNTY. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the CONSULTANT'S sole direction, supervision, and control. The CONSULTANT shall exercise control over the means and manner in which it and its employees perform the work, and in all respects the CONSULTANT'S relationship and the relationship of its employees to the COUNTY shall be that of an Independent Contractor and not as employees or agents of the COUNTY.

The CONSULTANT does not have the power or authority to bind the COUNTY in any promise, agreement or representation other than specifically provided for in this agreement.

ARTICLE 19 - CONTINGENT FEES

The CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, gift, or any other consideration contingent upon

or resulting from the award or making of this Contract.

ARTICLE 20 - ACCESS AND AUDITS

The CONSULTANT shall maintain adequate records to justify all charges, expenses, and costs incurred in estimating and performing the work for at least four (4) years after completion or termination of this Contract. The COUNTY shall have access to such books, records, and documents as required in this section for the purpose of inspection or audit during normal business hours, at the CONSULTANT'S place of business.

Palm Beach County has established the Office of the Inspector General in Palm Beach County Code, Section 2-421 - 2-440, as may be amended. The Inspector General's authority includes but is not limited to the power to review past, present and proposed County contracts, transactions, accounts and records, to require the production of records, and to audit, investigate, monitor, and inspect the activities of the CONSULTANT, its officers, agents, employees, and lobbyists in order to ensure compliance with contract requirements and detect corruption and fraud.

Failure to cooperate with the Inspector General or interfering with or impeding any investigation shall be in violation of Palm Beach County Code, Section 2-421 - 2-440, and punished pursuant to Section 125.69, Florida Statutes, in the same manner as a second degree misdemeanor.

ARTICLE 21 - NONDISCRIMINATION

The CONSULTANT warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status, sexual orientation, gender identity and expression.

ARTICLE 22 - AUTHORITY TO PRACTICE

The CONSULTANT hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct its business, and that it will at all times conduct its business activities in a reputable manner. Proof of such licenses and approvals shall be submitted to the COUNTY's representative upon request.

ARTICLE 23 - SEVERABILITY

If any term or provision of this Contract, or the application thereof to any person or circumstances shall, to any extent, be held invalid or unenforceable, the remainder of this Contract, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Contract shall be deemed valid and enforceable to the extent permitted by law.

ARTICLE 24 - PUBLIC ENTITY CRIMES

As provided in F.S. 287.132-133, by entering into this contract or performing any work in furtherance hereof, the CONSULTANT certifies that it, its affiliates, suppliers, subcontractors and consultants who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within the 36 months immediately preceding the date hereof. This notice is required by F.S. 287.133(3)(a).

ARTICLE 25 - MODIFICATIONS OF WORK

The COUNTY reserves the right to make changes in Scope of Services, including alterations, reductions therein or additions thereto. Upon receipt by the CONSULTANT of the COUNTY'S notification of a contemplated change, the CONSULTANT shall, in writing: (1) provide a detailed estimate for the increase or decrease in cost due to the contemplated change, (2) notify the COUNTY of any estimated change in the completion date, and (3) advise the COUNTY if the contemplated change shall effect the CONSULTANT'S ability to meet the completion dates or schedules of this Contract.

If the COUNTY so instructs in writing, the CONSULTANT shall suspend services on that portion of the Scope of Services affected by a contemplated change, pending the COUNTY'S decision to proceed with the change.

If the COUNTY elects to make the change, the COUNTY shall initiate a Contract Amendment and the CONSULTANT shall not commence services on any such change until such written amendment is signed by the CONSULTANT and approved and executed by the Board of COUNTY Commissioners for Palm Beach COUNTY.

ARTICLE 26 - COUNTY FURNISHED DATA

COUNTY will provide to CONSULTANT all data in COUNTY'S possession relating to CONSULTANT'S services on the project. CONSULTANT will reasonably rely upon the accuracy, timeliness, and completeness of the information provided by the COUNTY.

<u>ARTICLE 27 – SUBSURFACE INVESTIGATIONS</u>

In soils, foundation, groundwater, and other subsurface investigations, the actual characteristics may vary significantly between successive test points and sample intervals and at locations other than where observations, exploration, and investigations have been made. Because of the inherent uncertainties in subsurface evaluations, changed or unanticipated underground conditions may occur that could affect total project cost and/or execution. These conditions and cost/execution effects are not the responsibility of the CONSULTANT.

<u>ARTICLE 28 – CONSULTANT PERSONEL AT CONSTRUCTION SITE</u>

The presence or duties of CONSULTANT'S personnel at a construction site, whether as onsite representatives or otherwise, do not make CONSULTANT or CONSULTANT'S personnel in any way responsible for those duties that belong to the COUNTY and/or the construction contractors or other entities, and do not relieve the construction contractors or any other entity of their obligations, duties, and responsibilities, including, but not limited to, all construction methods, means, techniques, sequences, and procedures necessary for coordinating and completing all portions of the construction work in accordance with the construction Contract Documents and any health or safety precautions required by such construction work.

CONSULTANT and CONSULTANT'S personnel have no authority to exercise any control over any construction contractor or other entity or their employees in connection with their work or any health or safety precautions and have no duty for inspecting, noting, observing, correcting, or reporting on health or safety deficiencies of the construction contractor(s) or other entity or any other persons at the site except CONSULTANT'S own personnel.

The presence of CONSULTANT'S personnel at a construction site is for the purpose of providing to the COUNTY a greater degree of confidence that the completed construction work will conform generally to the

construction documents and that the integrity of the design concept as reflected in the construction documents has been implemented and preserved by the construction contractor(s). CONSULTANT neither guarantees the performance of the construction contractor(s) nor assumes responsibility for construction contractor's failure to perform work in accordance with the construction documents.

For this agreement only, construction sites include places of manufacture for materials incorporated into the construction work, and construction contractors include manufacturers of materials incorporated into the construction work.

ARTICLE 29 – OPINIONS OF COST, FINANCIAL CONSIDERATIONS AND SCHEDULES

In providing opinions of cost, financial services, economic feasibility projections, and schedules for the project, CONSULTANT has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by operating personnel or third parties; and other economic and operation factors that may materially affect the ultimate project cost or schedule. Therefore, CONSULTANT makes no warranty that the COUNTY'S actual project costs, financial aspects, economic feasibility, or schedules will not vary from CONSULTANT'S opinions, analyses, projections, or estimates.

If the COUNTY wishes greater assurance as to any element of project cost, feasibility, or schedule, the COUNTY will employ an independent cost estimator, contractor, or other appropriate advisor.

ARTICLE 30 - FEDERAL AVIATION ADMINISTRATION PROVISIONS

The CONSULTANT shall comply with the FAA mandated provisions contained in Exhibit E.

ARTICLE 31 - NOTICE

All notices required in this Contract shall be sent by certified mail, return receipt requested, hand delivery or other delivery service requiring signed acceptance. If sent to the COUNTY, notices shall be addressed to:

Mr. Gary M. Sypek, Director of Planning
Palm Beach County Department of Airports/Planning & Development
846 Palm Beach International Airport
West Palm Beach, Florida 33406-1470

With copy to:

Palm Beach County Attorney's Office 301 North Olive Ave.
West Palm Beach, Florida 33401

If sent to the CONSULTANT, notices shall be addressed to:

Mr. Daniel C. Tompkins, Project Manager CH2M HILL, INC. 3001 PGA Blvd., Suite 300 Palm Beach Gardens, FL 33410

With copy to:

Mr. Carey Moulton, Vice President CH2M HILL, INC. 3001 PGA Blvd., Suite 300 Palm Beach Gardens, FL 33410

<u> ARTICLE 32 - ENTIRETY OF CONTRACTUAL AGREEMENT</u>

The COUNTY and the CONSULTANT agree that this Contract sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 25-Modifications of Work.

List of Attachments:

CERTIFICATE OF INSURANCE

EXHIBIT "A" - GENERAL SCOPE OF SERVICES

EXHIBIT "B" – DETAILED FEES, EXPENSES, AND PAYMENTS.

EXHIBIT "C" - PROPOSED SCHEDULES

EXHBIT "D" - DBE

SCHEDULE 1 – PARTICIPATION BY DBE SCHEDULE 2 – LETTERS OF INTENT

EXHIBIT "E" – ADDITIONAL CONTRACT REQUIREMENTS FOR FEDERALLY FUNDED PROJECTS

ARTICLE 33 - CRIMINAL HISTORY RECORDS CHECK

The CONSULTANT shall comply with the provisions of Ordinance 2003-030, the Criminal History Records Check Ordinance ("Ordinance"), if CONSULTANT'S employees or subcontractors are required under this contract to enter a "critical facility" as identified in Resolution R-2003-1274. The CONSULTANT acknowledges and agrees that all employees and subcontractors who are to enter a "critical facility" will be subject to a fingerprint based criminal history records check. Although COUNTY agrees to pay for all applicable FDLE/FBI fees required for criminal history record checks, the CONSULTANT shall be solely responsible for the financial, schedule, and staffing implications associated in complying with Ordinance 2003-030.

ARTICLE 34 - REGULATIONS; LICENSING REQUIREMENTS:

The CONSULTANT shall comply with all laws, ordinances and regulations applicable to the services contemplated herein, to include those applicable to conflict of interest and collusion. CONSULTANT is presumed to be familiar with all federal, state and local laws, ordinances, codes and regulations that may in any way affect the services offered.

ARTICLE 35 - E-VERIFICATION REQUIREMENTS

Consultant shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of, (1) all persons employed by the Consultant during the term of the Contract to perform employment duties within Florida; and, (2) all persons including subconsultants, assigned by the Consultant to perform work pursuant to the Contract with the County.

Further information can be found at the following website: http://www.uscis.gov/e-verify

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida has made and executed this Contract on behalf of the COUNTY and CONSULTANT has hereunto set its hand the day and year above written.

ATTEST: SHARON R. BOCK CLERK AND COMPTROLLER	PALM BEACH COUNTY, FLORIDA BOARD OF COUNTY COMMISSIONERS:
By: Deputy Clerk	By: Karen T. Marcus, Chair
WITNESS: SIGNATURE DANIUZ C. Tompleus Name (type or print)	CONSULTANT: CH2M HILL, INC COMPANY NAME Signature
APPROVED AS TO FORM AND LEGAL SUFFICIENCY	Name (type of print)
By: County Attorney	VICE PRESIDENT Title
APPROVED AS TO TERMS AND CONDITIONS By July Director of Airports	Sely a. Hill Assistant Scoretary (H2M HILL, Inc.
	Hosistant Downard (H2M HILL, Inc.

CERTIFICATE OF INSURANCE

ACORD
ACOID .

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 08/30/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s)

certificate holder in lieu of suc	•		ngorsement. A statement of this certificate	ioes not comer	rigino to the
PRODUCER MARSH USA INC. 1225 17TH STREET, SUITE 2100 DENVER, CO 80202-5534			CONTACT NAME: PHONE (A/C, No, Ext): E-MAÎL ADDRESS:	FAX (A/C, No):	
			INSURER(S) AFFORDING COVERAGE		NAIC#
15114 -01234-ALL5-11/12	ORL	ВК	INSURER A: Greenwich Insurance Compan y		22322
INSURED			INSURER B: National Union Fire Ins Co Pittsburgh PA		19445
CH2M HILL, INC. 9191 SOUTH JAMAICA STREET			INSURER C : XL Specialty Insurance Co.		
ENGLEWOOD, CO 80112			INSURER D:		
			INSURER E :		
			INSURER F:	<u></u> .	

COVERAGES

CERTIFICATE NUMBER:

SEA-002250001-27

REVISION NUMBER: 7

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR	TYPE OF INSURANCE	ADDL	SUBR	·	POLICY EFF	POLICY EXP	LIMITS	
LTR	GENERAL LIABILITY	INSR X	WVD X	POLICY NUMBER	(MM/DD/YYYY)	(MM/DD/YYYY)	EACH OCCURRENCE \$ 1,500,	000
Α	X COMMERCIAL GENERAL LIABILITY			RGE5000255	05/01/2011	05/01/2012	DAMAGE TO RENTED \$ 1,500,0	000
	CLAIMS-MADE X OCCUR						MED EXP (Any one person) \$	
	X \$500,000 SIR						PERSONAL & ADV INJURY \$ 1,500,	000
		.					GENERAL AGGREGATE \$ 5,000,	000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$ 5,000,	000
	POLICY PRO- LOC					į	\$	
	AUTOMOBILE LIABILITY	Х	Х				COMBINED SINGLE LIMIT \$ 2,000,	000
A	X ANY AUTO			RAD5000254 (AOS)	05/01/2011	05/01/2012	BODILY INJURY (Per person) \$	
A	ALL OWNED SCHEDULED AUTOS			RAD5000256 (MA)	05/01/2011	05/01/2012	BODILY INJURY (Per accident) \$	
	HIRED AUTOS NON-OWNED AUTOS						PROPERTY DAMAGE \$ (Per accident)	
							\$	
	X UMBRELLA LIAB X OCCUR	X					EACH OCCURRENCE \$ 5,000,	000
В	EXCESS LIAB CLAIMS-MADE			BE23465083	05/01/2011	05/01/2012	AGGREGATE \$ 5,000,	000
	DED RETENTION\$						\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N					05/04/0040	X WC STATU- OTH- TORY LIMITS ER	000
С	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A		RWD5000252 (AOS)	05/01/2011	05/01/2012	E.L. EACH ACCIDENT \$ 1,000,	
C	(Mandatory in NH)			RWR5000253 (WI)	05/01/2011	05/01/2012	E.L. DISEASE - EA EMPLOYEE \$ 1,000,	
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT \$ 1,000,	000
	•							

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, ITS OFFICERS, EMPLOYEES AND AGENTS ARE INCLUDED AS AN ADDITIONAL INSURED ON THE GENERAL LIABILITY AND AUTOMOBILE LIABILITY POLICIES AS REQUIRED BY WRITTEN CONTRACT OR A GREEMENT. PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, ITS OFFICERS, EMPLOYEES AND AGENTS ARE INCLUDED AS ADDITIONAL INSURED ON THE UMBRELLA POLICY ABOVE. COVERAGE PROVIDED BY THE ABOVE GENERAL LIABILITY AND AUTO POLICIES SHALL BE PRIMARY AND IS LIMITED TO THE LIABILITY RESULTING FROM THE NA MED INSURED'S OWNERSHIP AND/OR OPERATIONS.

CERTIFICATE HOLDER	CANCELLATION
PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS ATTN: JERRY ALLEN, DEPUTY DIRECTOR OF AIRPORTS 846 PALM BEACH INTERNATIONAL AIRPORT	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
WEST PALM BEACH, FL 33406	AUTHORIZED REPRESENTATIVE of Marsh USA Inc.
	Sharon A. Hammer ARauan a. Hammer

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AGENCY CUSTOMER ID: 15114

Loc #: Denver

ACORD®

ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY MARSH USA INC.		NAMED INSURED CH2M HILL, INC. 9191 SOUTH JAMAICA STREET
POLICY NUMBER	ENGLEWOOD, CO 80112	
CARRIER	NAIC CODE	
		EFFECTIVE DATE:

	ADD	ITIONA	L REMA	RKS
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THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

GENERAL LIABILITY POLICY FORM INCLUDES SEPARATION OF INSUREDS LANGUAGE. GENERAL LIABILITY AND AUTOMOBILE LIABILITY POLICIES INCLUDE A WAIVER OF SUBROGATION.

ACORD	

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 08/30/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

PROD	DUCER				CONTACT NAME:				
	MARSH USA, INC. 1225 17TH STREET, SUITE 2100 DENVER, CO 80202-5534			PHONE FAX (A/C, No, Ext): (A/C, No):					
					ADDRESS		URER(S) AFFOR	DING COVERAGE	NAIC#
15114	4 -00006-PLDED-11/12 ORL		F	ВК	INSURER	Zurich Amo	rican Insurance (16535
NSUF	RED		-		INSURER	<u> </u>	14/7-12-	Wagner of the state of the stat	
CH2M HILL, INC. 9191 SOUTH JAMAICA STREET					INSURER				
	ENGLEWOOD, CO 80112				INSURER				
					INSURER				
					INSURER	F:			
				NUMBER:		02250004-26		REVISION NUMBER: 1	
INI CE	IIS IS TO CERTIFY THAT THE POLICIES DICATED. NOTWITHSTANDING ANY RI ERTIFICATE MAY BE ISSUED OR MAY (CLUSIONS AND CONDITIONS OF SUCH	EQUIR PERTA POLIC	EMEN AIN, CIES.	NT, TERM OR CONDITION THE INSURANCE AFFORDI	OF ANY ED BY TI BEEN RE	CONTRACT HE POLICIES DUCED BY	OR OTHER D S DESCRIBED PAID CLAIMS.	DOCUMENT WITH RESPECT TO AL	O WHICH THIS
TR	TYPE OF INSURANCE	ADDL INSR	WVD	POLICY NUMBER		MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCAL GENERAL LIABILITY							EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$	
	CLAIMS-MADE OCCUR							MED EXP (Any one person) \$	
								PERSONAL & ADV INJURY \$	- 100
ŀ								GENERAL AGGREGATE \$	
}	GEN'L AGGREGATE LIMIT APPLIES PER:							PRODUCTS - COMP/OP AGG \$	
_	POLICY JECT LOC							COMBINED SINGLE LIMIT	
-	AUTOMOBILE LIABILITY							(Ea accident) \$ BODILY INJURY (Per person) \$	
	ANY AUTO ALL OWNED SCHEDULED							BODILY INJURY (Per accident) \$	
ŀ	AUTOS AUTOS NON-OWNED							PROPERTY DAMAGE	
1	HIRED AUTOS AUTOS							(Per accident) \$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE \$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE \$	
	DED RETENTION\$							\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							WC STATU- OTH- TORY LIMITS ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE N	N/A						E.L. EACH ACCIDENT \$	
	(Mandatory in NH)	"'^						E.L. DISEASE - EA EMPLOYEE \$	
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT \$	
A	PROFESSIONAL LIABILITY*			EOC3829621-09	0	5/01/2011	05/01/2012	Each Claim & Total For	\$5,000,00
								All Claims. Retention:	\$500,00
DESC	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES /A	ttach /	ACORD 101 Additional Remarks	Schedule it	more snace is	required)		
FOR	PROFESSIONAL LIABILITY COVERAGE, THE AG ISURED. THE LIM IT WILL BE REDUCED BY PAYN	GREGA	TE LIN	IIT IS THE TOTAL INSURANCE AV	•	-		IIN THE POLICY PERIOD FOR ALL O	PERATIONS OF
CEF	RTIFICATE HOLDER	•	• • •		CANCE	LLATION			
	PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS ATTN: JERRY ALLEN, DEPUTY DIRECTOR (846 PALM BEACH INTERNATIONAL AIRPOR	OF AIRF	PORTS		SHOU THE	LD ANY OF T	DATE THE	ESCRIBED POLICIES BE CANC EREOF, NOTICE WILL BE EY PROVISIONS.	

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WEST PALM BEACH, FL 33406

AUTHORIZED REPRESENTATIVE of Marsh USA Inc.

Sharon A. Hammer

Table of Contents

EXHIBIT A - GENERAL SCOPE OF SERVICES	A-1
EXHIBIT A-I-1 - Task I-11-PBI-C-001	A-18
EXHIBIT A-I-2 - Task I-11-PBI-C-002	A-52
EXHIBIT A-II-1 - Task II-11-DOA-C-001	A-55
EXHIBIT B - Detailed Fees, Expenses, and Payments	B-1
EXHIBIT B-I - 2011 Hourly Billing Rates	B-7
EXHIBIT B-II - Schedule of Payments	B-19
EXHIBIT C - Proposed Schedules	
EXHIBIT D - Disadvantaged Business Enterprise Compliance	D-1
EXHIBIT E - Additional Contract Requirements for Federally Funded Projects	F_1

EXHIBIT "A" GENERAL SCOPE OF SERVICES

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT A GENERAL SCOPE OF SERVICES

This document serves as a formal description of the scope of services for the initial efforts (Work Program #1) to be performed by the general consultant team (the CONSULTANT, or as specifically referred to by company name) led by CH2M HILL, Inc. It includes a variety of well defined tasks, as well as on demand (on-call) consulting services that will be provided to the Palm Beach County Department of Airports (DOA or the COUNTY).

GENERAL

The services to be provided will be on a general-consulting basis. Services will be divided into three general tasks. Task I shall be "Basic," which consists of all efforts relating to specific planning, design and construction projects. Task II shall consist of "Annual Services." Task III shall consist of "Miscellaneous Planning and Engineering" services. Each task is further described below.

Specifically authorized projects will be described in Task Authorizations. The CONSULTANT will prepare Task Authorizations and provide to the COUNTY representative for action and approval. Services on any assignment shall be undertaken only upon written acceptance and notice to proceed of the Task Authorization by the COUNTY.

The CONSULTANT agrees to provide professional services in accordance with the project schedule and phasing established within each Task Authorization. Fees for the services are as shown in Exhibit B and will be included in each Task Authorization. If there are any inconsistencies between this Exhibit "A" General Scope of Services and the Task Authorizations, it is agreed that the Task Authorizations are more exact for the specific project and will govern.

Most Professional Services will be divided into two categories of services: Basic Services and Special Services in accordance with industry standards. Basic Services shall be completely defined within the Task Authorization by a scope, fee and schedule. Special Services are services that can reasonably be anticipated but cannot be defined until further into the effort. Special Services shall be performed as approved by the COUNTY representative in writing and as funds are available. A preset maximum funding for Special Services will be included in the Task Authorization. If additional funding is required due to field conditions, COUNTY and CONSULTANT will either modify the project or COUNTY will commit additional funding.

LEVEL I TASKS - PLANNING, DESIGN, CONSTRUCTION AND FINANCIAL

A. <u>General</u>

CONSULTANT will perform professional planning, design and construction related services in connection with specifically authorized projects as described herein. Services will consist of:

- 1. Airport Master Plans
- 2. Environmental Assessments
- 3. Environmental Impact Statements

- 4. FAR Part 150 Noise Studies
- 5. Financial Studies
- 6. Economic Impact Studies
- 7. Civil Engineering
- 8. Structural Engineering
- 9. Mechanical Engineering
- 10. Electrical Engineering
- 11. Transportation Engineering
- 12. Architectural Planning
- 13. Architectural Design
- 14. Architectural Interior Services
- 15. Other Planning, Design and Construction Related Services as requested by COUNTY and agreed to by CONSULTANT

B. <u>Planning Studies</u>

Planning studies are unique to each project and must be described in detail in a Task Authorization. In general, the CONSULTANT will prepare interim reports as the study progresses for COUNTY review and comment. A draft of all submittals will first be provided to the COUNTY'S representative for review prior to release elsewhere. The CONSULTANT and COUNTY will coordinate all of the services required.

C. <u>Design Services</u>

The CONSULTANT'S performance is divided into two categories of services: Basic Services and Special Services. Basic Services shall be performed as detailed in the Task Authorization. Special Services will be performed as authorized by the COUNTY'S representative.

Basic Services

Typically basic services will follow five distinct phases. Phase 1 consists of Planning and Programming (Phase 1A) and Schematic Design (Phase 1B). Phase 2 is Design Development (Approximately 30% Completion). Phase 3 consists of sixty percent (60%) design completion of the Contract Documents (Phase 3A), ninety percent (90%) design completion (Phase 3B), and final design completion (100%) of Bid Documents (Phase 3C). Phase 4 consists of Bidding and Award of Contract requirements. Phase 5 consists of Construction Administration.

For most projects, DOA will have prepared a Project Book prior to entering into negotiations with the A/E. This Project Book will include substantial information on the program, design criteria, asbuilt conditions, existing site conditions, etc.

A brief definition follows for each of the Phases:

- PHASE 1A Analyze and review all Program information as furnished by DOA. Identify any deficiencies or conflicts.
- PHASE 1B Prepare a graphic and written response to the Program, including the conceptual development of all significant project elements and the projected costs for the project.
- PHASE 2 Develop the approved Schematic Design Document from Phase 1B to define all Project elements and solidify all major components prior to the start of the Contract

- Documents. Determine the Project budget for construction costs and develop preliminary schedule/phasing plans.
- PHASE 3A Develop the Contract Documents to a predetermined completion milestone (60% of completion). Determine the Project Preliminary Cost Estimate and prepare Schedule/Phasing Plans.
- PHASE 3B Complete the Contract Documents to 90% to allow the Project to be reviewed and preliminarily submitted for permitting. Determine the CONSULTANT'S Project Cost Estimate.
- PHASE 3C Complete the Contract Documents to 100% to allow the Project to be permitted, bid, and constructed. Determine the CONSULTANT'S Final Project Cost Estimate.
- PHASE 4 Assist the COUNTY in obtaining Bids and in the award of a Contract as required.
- PHASE 5 Assist the COUNTY in administration of the construction contract.

The following paragraphs synopsize the CONSULTANT'S typical requirements:

PHASE 1A - PLANNING AND PROGRAMMING

The CONSULTANT will review the accuracy and adequacy of all drawings, budget costs, and other data and information furnished by DOA with emphasis on the following areas:

- 1. Examine program reports and drawings and review project physical spatial characteristics, user requirements, and program completeness.
- 2. Examine record drawings for completeness and accuracy and review all as-built conditions as well as existing conditions in the field.
- 3. Examine in detail the DOA estimated project construction costs, and inform DOA in writing of any serious discrepancies and/or deficiencies that would require additional funds to construct and complete the Project.
- 4. Examine available site utilities information and review that existing utilities are or are not in conflict with proposed construction and are or are not sufficient to provide the proposed additional facilities with an acceptable level of services.
- 5. Evaluate survey information provided (if any) and review probable accuracy and adequacy for the project.
- 6. Examine available soils data provided (if any) and prepare soil boring location plan and specify other required soil tests and investigations.
- 7. Identify any apparent deficiencies in the available information and prepare specific requirements in writing depicting any further investigations required to develop that additional information. Review and assume responsibility for the validity, interpretation, application and use of all such supplemental information and data obtained by others.
- 8. Identify and review Federal and State funding for the project, if applicable.

PHASE 1B - SCHEMATIC DESIGN

The CONSULTANT will only begin this sub-phase when satisfied that all program requirements have been identified, all budget costs verified, and the COUNTY Representative has issued a phase authorization to prepare the Schematic Design Documents.

The CONSULTANT will review preliminary Project concepts with the COUNTY Representative, and other DOA Divisions as appropriate for the type of Project and with all Agencies and other approval authorities with respect to the Project. Those changes and/or modifications that were jointly agreed upon will be addressed by the CONSULTANT and the necessary inclusions made in subsequent phases to the Contract Documents. The purpose of the review and comment solicitation is to endeavor to ensure that the Contract Documents and all facilities constructed in accordance therewith will meet all applicable requirements for later obtaining the necessary permits and approvals for the Project.

The CONSULTANT will prepare scaled planning stage schematic drawings that clearly depict the limits of construction, airport operations during and after Project completion, general utilities, drainage, environmental impact if any, required surveying and subsurface investigations and probable construction costs. The Schematic Design Concepts will be presented in exhibit form to DOA and other interested Agencies and Authorities. A detailed Schematic Design Narrative Report documenting all of the Schematic Sub-Phase findings and recommendations will be submitted to DOA for review and approval. As a part of this Sub-Phase, the CONSULTANT will prepare the following:

A) Construction Schedule

A conceptual Project Construction Schedule will be submitted in an approved format and will consist of a preliminary schedule showing the proposed probable completion date of each Phase and Sub-Phase for the Project through Design Development, 60%, 90% and 100% Contract Documents, Bid Documents, Bidding of Work, performance of the Work by the Contractor and final acceptance of the Work by the COUNTY.

B) Schematic Design Studies

These Schematic Design Studies should be preliminary in nature and scope, be further defined, and amplifying details will be developed by the CONSULTANT during subsequent phases of the Project design.

C) Grading, Paving, Drainage, and Utilities (if applicable)

The CONSULTANT will prepare Plan(s) showing pavement and drainage layout(s) with direction of storm water flows to each ponding area and/or inlet. The Schematic Design Narrative Report will provide paving, grading, drainage, and utilities calculations in sufficient detail to give assurance that the Project can be used under the approved design aircraft/service vehicle loadings and design storm conditions.

D) Maintenance of Traffic (MOT) and Safety Plans (if applicable)

The CONSULTANT will prepare conceptual construction MOT and Airside Operations Area (AOA) Security and Safety Plan(s) in sufficient detail to show how construction can be accomplished while meeting DOA Airside or Landside Operational Constraints. The Security and Safety Plan(s) will delineate the nature, extent and location(s) of site access and haul routes and depict all required barricading, signing, marking and safety lighting required for the Project. The Security and Safety

Plans will meet FAA Advisory Circular AC 150/5370-2E, current edition criteria for "Operational Safety On Airports During Construction."

E) Work Staging

The CONSULTANT will develop a conceptual Work Staging Plan, which minimizes and avoids adverse impacts to existing Airside Airline Operations. The CONSULTANT will advise the COUNTY Representative, in writing, of any potential adverse impacts and any estimated increase in Project costs and/or any time extension effect that would result from such a Work Staging Plan. If identified in the Scope of Services, a series of alternative Work Staging Plan(s) may be developed by the CONSULTANT with associated cost and time extension and also be submitted to the COUNTY Representative, along with an analysis of pertinent factors and relative merits of each Plan, even if such alternative Plan(s) would adversely impact Airside or Landside Airline Operations. The decision as to which Work Staging Plan to issue will be made by the COUNTY, and the CONSULTANT will be informed of such decision in writing by the COUNTY Representative.

F) Preliminary Outline Specifications

The CONSULTANT will prepare preliminary Outline Specifications, which will describe the technical requirements of all construction work being proposed for the Project, all of which will be considerations in developing the Project Budget Costs during the subsequent Design Development Phase.

G) Phase Submittal Requirements

The CONSULTANT will submit eight (8) copies of the Schematic Design Narrative Report required under this Phase for review and approval by the COUNTY. The CONSULTANT will not proceed with the following "Phase 2 - Design Development" until the Schematic Design has been reviewed and approved by the COUNTY Representative, the interested Department of Airports Divisions, the affected Airlines and other airport Users; and written approval with appropriate comments are received from the COUNTY and approval has been issued to the CONSULTANT by the COUNTY Representative.

PHASE 2 - DESIGN DEVELOPMENT (30% DESIGN)

Following Schematic Design approval and upon receipt of the COUNTY Representative's written authorization to initiate Phase 2, the CONSULTANT will prepare Design Development Documents from the approved Schematic Design Documents which clearly define the engineering and/or architectural elements of the Project. Design Development may proceed concurrently with exploratory subsurface investigations and an engineering survey, if required.

- A) The Design Development Documents will consist of and further define:
 - 1. All horizontal and critical elements of vertical geometry
 - 2. Limits of construction
 - 3. Clearing and demolition requirements
 - 4. Drainage systems
 - 5. Existing utilities
 - 6. Existing utility relocation
 - 7. Proposed utilities
 - 8. Typical grading, paving and drainage sections and details
 - 9. Schematic architectural layout
 - 10. Schematic floor plans and elevations

- 11. Update construction schedule
- 12. Outline specifications
- 13. Other major engineering elements and architectural elements to the degree required to provide a complete understanding of the elements of the Design Project, the CONSULTANT's proposed design treatment of these elements and the development of probable Project Budget Costs for construction.
- B) The Plans to be provided for the Design Development review submittal will include, but are not limited to:
 - 1. Cover Sheet
 - 2. Project Area Plan
 - 3. Project Key Sheet
 - 4. Site Location Plan
 - 5. Typical Sections
 - 6. Preliminary Paving and Geometry Plans
 - 7. Preliminary Grading and Drainage Plans
 - 8. Preliminary Site Utility Plans (Existing, Relocated and Proposed)
 - 9. Airfield Lighting, Roadway Lighting and Apron Lighting Plans, if applicable
 - 10. Architectural Plans (Concept)
 - 11. Landscape Concept(s)
 - 12. Typical Details for Pavements, Pavement Markings, Signage, Drainage, Utilities and other Miscellaneous Details

Design Development Layout and Location Plans should be the same scale as intended for the Construction Documents set. Plans should be sufficiently detailed to convey the CONSULTANT'S design intentions and to confirm the feasibility of space arrangements. Profiles, grading contours (initially only, show spot elevations), precise dimensioning and specific detailing may be omitted in this Phase.

The CONSULTANT will prepare and submit an Engineer's Design Report covering all findings and recommendations developed throughout the Design Development Phase including an updated Construction Schedule and estimate of probable Project Budget Costs for Construction.

The CONSULTANT jointly with the COUNTY Representative, to the extent applicable based on changes and/or modifications affected during the Design Development Phase will review pertinent Documents with the Agencies and Authorities previously consulted in Phase 1B having permitting or other approval Authority with respect to the Project, in order to obtain any changes in the comments and judgment of such agencies. Any further changes and/or modifications that were jointly agreed upon must be addressed by the CONSULTANT and the necessary inclusions made to the Contract Documents in Phase 2, as applicable.

The CONSULTANT will submit eight (8) copies of all Documents required under this Phase 2 for review comments and approval by the COUNTY. The CONSULTANT will not proceed with the following Phase 3 - Contract Documents until the Design Development has been reviewed and approved by the COUNTY Representative; the interested Department of Airports Divisions; Air Transport Association (ATA.); the affected Airlines and other Airport Users; and written approval with appropriate comments is received from the COUNTY and approval has been issued to initiate the Contract Documents 60% Submittal Phase.

PHASE 3 - CONTRACT DOCUMENTS

Following Design Development approval and upon receipt from the COUNTY Representative of written authorization to initiate Phase 3A, the CONSULTANT will develop 60% Complete Contract Documents from the approved Design Development Documents. The COUNTY and the CONSULTANT will mutually agree upon the content to be provided in these documents.

PHASE 3A - 60% SUBMITTAL

The 60% Complete Contract Documents should include, but are not limited to:

- 1. Sections and Details
- Survey Control Plan, including Horizontal Control Points and Vertical
- 1. Benchmarks
- 2. Layout Plan(s) with specific dimensions
- 3. Details and Sections of miscellaneous items
- 4. Grading, Paving, Drainage and Site Utilities Plans
- 5. Schedule/Phasing Plans
- 6. Lighting Plans (Airfield and/or Apron and Roadway)
- 7. Preliminary MOT and Safety Plans
- 8. Draft Engineer's Report (FAA-AIP Projects)
- 9. 60% Building Plans (Architectural, Structural, Mechanical & Electrical)
- 10. Draft Technical Specifications
- 11. Preliminary Project Construction Cost Estimate
- 12. Define Quality Assurance and Quality Control Procedures

This submittal will include a Preliminary Cost Estimate for construction and an estimate of the probable Construction Schedule, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous Probable Project Construction Budget Cost Estimates.

The CONSULTANT will submit eight (8) copies of all Contract Documents required under this Phase 3A for review comments and approval by the COUNTY. The CONSULTANT will not proceed with Phase 3B until the 60% Complete Contract Documents have been reviewed and approved by the COUNTY Representative, the interested Department of Airports Divisions, and written approval is received from the COUNTY.

PHASE 3B - 90% SUBMITTAL

The 90% Complete Contract Documents should include, but are not limited to:

- 1. Pre-Final Plans from previous submittal(s), as applicable
- 2. Complete Sections and Details
- 3. Complete Plans and Details showing all dimensions and miscellaneous items
- 4. Pre-Final Grading, Paving, Drainage and Utilities Plans
- 5. Pre-Final Lighting Plans (Airfield and/or Apron and Roadway)
- 6. Pre-Final MOT and Safety Plans
- 7. Complete Documents ready for Bidding and Permitting

- 8. Complete Contract Specifications ready to be printed for issuance to Bidders
- 9. Pre-Final Project CONSULTANT'S Cost Estimate
- 10. Completed Construction Schedule
- 11. Pre-Final Engineer's Report (FAA -AIP Projects)

This submittal will include a 90% Cost Estimate for construction and an estimate of the probable Construction Schedule, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous Probable Project Construction Budget Cost Estimates.

The CONSULTANT will submit eight (8) copies of all Contract Documents required under this Phase 3B for review comments and approval by the COUNTY. The CONSULTANT will not proceed with Phase 3C until the 90% Complete Contract Documents have been reviewed and approved by the COUNTY Representative, the interested Department of Airports Divisions, and written approval is received from the COUNTY.

PHASE 3C - 100% SUBMITTAL

Following the 90% Complete Contract Documents approval the CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents. They will consist of the information contained in the 90% documents, as well as incorporate any comments provided and by COUNTY, Permit Agencies, or other authorized reviewers, as directed by COUNTY.

If any further change(s) in the size and scope of the Project has occurred, which will substantially alter the amount of previous Construction Cost Estimates, then such changes should be addressed in a written report prepared by the CONSULTANT to the COUNTY Representative.

The CONSULTANT will provide signed and sealed plans for the COUNTY to use to file for a building permit at the earliest practicable time during the performance of the Design Services, provide the necessary portions of the Contract Documents for approval by COUNTY, State and/or Federal Authorities having jurisdiction over the project by law or contract with the COUNTY, and assist in obtaining any such applicable certifications of "permit approval" by such authorities prior to approval by the COUNTY of the Phase 3C 100% Complete Review set submittal and printing of the Contract Documents. The CONSULTANT will incorporate all dates into the Advertisement and Instructions to Bidders, DBE and SBE requirements, FAA labor provisions (on AIP Projects), etc. filled in and Contract Documents ready to be printed and issued to prospective Bidders.

The CONSULTANT will recommend and justify to COUNTY any Allowance Account amounts to be incorporated into the Contract Documents.

In providing opinions of probable construction costs, the COUNTY understands that the CONSULTANT has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinions of probable construction costs provided herein are to be made on the basis of the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

PHASE 4 - BIDDING AND AWARD OF CONTRACT

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the COUNTY in advertising for and obtaining bids for each separate prime contract for construction, materials, equipment and services; and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, and receive and process deposits for Bidding Documents; assist the COUNTY in conducting a pre-bid conference for each separate prime contract to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret, clarify or expand the Bidding Documents; print and distribute sets of Bidding Documents to Prospective Bidders and plan offices (McGraw-Hill Dodge, Construction Journal, Reed Construction Data, and iSqFt Plan Room) during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist COUNTY in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

PHASE 5 - CONSTRUCTION ADMINISTRATION

Construction Administration Services will generally be authorized by the Task Authorization, which included the design efforts for a particular project, although these services could be authorized in a separate Task Authorization depending upon the specific project. The CONSULTANT will provide professional services during construction to assist in obtaining a complete project. Basic Services will consist of the following:

- 1. Participate in preconstruction conference and assist with the preparation of a contract between the COUNTY and the successful bidder; Prepare six (6) sets of conformed contract plans and documents for submittal to the successful bidder for Contract execution; Prepare ten (10) sets of conformed contract plans and documents for construction use by the successful bidder;
- 2. The CONSULTANT will make periodic visits to the construction site to observe and familiarize themselves generally with the progress and quality of the work and to determine if the work is generally proceeding in accordance with the contract documents and the contractor's construction schedule. The CONSULTANT will make periodic written reports to the COUNTY representative to advise of any deviation from the contract documents or the contractor's construction schedule observed by or brought to the attention of the CONSULTANT. Such reports will be submitted in a timely manner so as not to cause delay in the progress of the work. In performing these services, the personnel provided by the CONSULTANT will be under the supervision of a registered professional engineer and/or architect. The CONSULTANT will provide personnel experienced in the administration of construction contracts. Supporting personnel will be provided from the project design team when specialized knowledge of the project design is required. On the basis of its on-site observations, the CONSULTANT will keep the COUNTY representative informed as to the progress and quality of the work and will endeavor to protect the COUNTY against defects and deficiencies in the work of the construction contractors, but the CONSULTANT will not have control or charge of and will not be responsible for construction means, methods, techniques, sequences or procedures or for the safety precautions and programs in connection with the project construction, for the acts or omissions of the contractor, subcontractors, any of their agents or the subcontractor's employees, or any other person performing any of the work or for the failure of such persons to carry out the work in accordance with the contract

- documents; provided however, that the CONSULTANT will not be relieved from its obligation to notify the COUNTY representative of any such act, omission or failure on the part of the construction contractor observed by the CONSULTANT during on-site visits;
- 3. Review and approve or take other appropriate action upon the shop drawings, samples, and other submissions furnished by the contractor and submitted to the CONSULTANT. The CONSULTANT will determine if the shop drawings, samples and other submissions reasonably conform to the design concept of the project and the requirements of the contract documents. Such action(s) will be taken with reasonable promptness so that the progress of the construction of the project will not be delayed. The CONSULTANT will maintain a log of all contractor submittals which will include the submittal date, the action taken, and the date returned;
- 4. Prepare routine change orders as required; act as interpreter of the terms and conditions of the contract documents and judge of the performance thereunder by the parties thereto and make decisions on claims of COUNTY and contractor(s) relating to the execution and progress of the work and other matters and questions related thereto; but CONSULTANT will not be liable for the results of any such interpretation or decisions rendered by it in good faith,
- 5. Review laboratory, shop, and mill tests of material and equipment and report to the COUNTY representative, in writing, on such matters;
- 6. Provide design clarifications and recommendations to assist the COUNTY representative in resolving field problems relating to the construction;
- 7. Evaluate contractor change and cost proposals and substitutions and recommend to the COUNTY representative to either approve or disapprove the contractor's proposal or substitution;
- 8. Review contractor(s) monthly applications for payment and supporting data, review the amount owing to contractor(s) and approve in writing all payments to contractor(s) in accordance with the contract documents;
- 9. Perform, together with the COUNTY'S representative, inspections of the construction site to determine if the project is substantially complete and a final inspection to determine if the project has been completed in accordance with the contract documents and if each contractor has fulfilled all of its obligations thereunder so that CONSULTANT may approve if applicable in writing, final payment to each contractor;
- 10. The CONSULTANT will assist the COUNTY'S representative in receiving and forwarding to the COUNTY written warranties and related documents assembled by the contractors; and
- 11. Provide one set of reproducible drawings and CADD files "record drawings," which shall become the property of the COUNTY, corrected to show significant changes made in the work during the construction of the project. Such corrections shall be based upon "as-built" prints, drawings, field sketches and other data furnished to the CONSULTANT by the COUNTY and the contractor, upon change orders issued during construction.

In the event that the COUNTY and the CONSULTANT deem it advisable that all resident construction inspection services on the site, during the project construction, be provided by the CONSULTANT, a Task Authorization which specifies the services will be negotiated and approved.

To avoid misunderstandings or questions, the CONSULTANT understands and agrees that the COUNTY shall have the responsibility for the general administration of the construction contract. Accordingly, the CONSULTANT will not have the authority or responsibility to issue direct instructions to the contractor, to reject work done by the contractor, or to require special inspections and/or tests. The CONSULTANT, however, will provide continuing counsel to the COUNTY representative throughout the construction of the project.

Special Services

Special Services will be authorized in writing by the COUNTY Representative, describing the scope and fee for the services prior to beginning. Special Services cannot be included as Basic Services because their need or exact scope cannot be fully established until underway. Each Task Authorization will estimate the need and scope of Special Services and will authorize additional funding to be approved by the COUNTY Representative should additional services be required.

Special Services during Phases 1, 2, 3, and 4 may be, but are not limited to, a selection(s) from the following:

- 1. Perform or obtain the services of a Subcontractor to perform subsurface investigations, including performance of test borings, soil samples, and other foundation investigations, laboratory analyses of the samples, and engineering analyses not anticipated as Basic Services. The CONSULTANT or the subcontractor will prepare a detailed report of all findings and the CONSULTANT will deliver to the COUNTY Representative two (2) copies of the report;
- 2. Perform or obtain the services of a Registered Professional Surveyor subcontractor to perform field surveys and investigations in order to establish or verify boundaries and monuments, perform topographic surveys, perform route surveys, prepare property or easement descriptions, perform associated office work under the directions of a Registered Professional Surveyor, and deliver to the COUNTY Representative a mylar of all final plats, with field notes, in bound standard-size filed books, or in such other form as approved by the COUNTY;
- 3. Make revisions to drawings, specifications, or other documents when such revisions are inconsistent with approvals or instructions previously given by the COUNTY Representative;
- 4. Perform or obtain the services of a specialized subcontractor to perform aerial photography and computer mapping;
- 5. Travel to points outside the COUNTY if such travel is reasonably necessary to accomplish a task;
- 6. Prepare special studies and reports, such as environmental documents (including representation and testimony at hearings and community meetings), grant applications, etc.;
- 7. Provide the services of an independent cost estimator (as a subcontractor) to make a comprehensive cost estimate for the project in a form satisfactory to the COUNTY (which independent cost estimate will be in addition to the cost estimates prepared by the CONSULTANT);
- 8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner (including the making of record prints of drawings, etc.);
- 9. Assist the COUNTY representative in securing any special licenses or permits (Water Management District, DER, etc.) which may be required for the completion of the project, it being understood by the parties that the fees for said special licenses and permits will be paid by the COUNTY.

- 10. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproductions for the office use of the CONSULTANT and the CONSULTANT'S subconsultants;
- 11. Provide a scale model of the project when requested by the COUNTY,
- 12. Provide any other additional services related to the project not otherwise included in the Basic Services or other Special Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

Special Services may also be requested for the Phase 5 construction phase. These services may include, but are not limited to:

- 1. Consult with the COUNTY concerning replacement of any construction work damaged by fire or any other causes and furnish professional services as may be required in connection with the replacement of such work;
- 2. Assist the COUNTY in making arrangements for the work to proceed in the event that the construction contractor is declared in default by the COUNTY for any reason;
- 3. Assist the COUNTY as expert witnesses and/or factual witnesses in any legal proceedings or litigation arising from the development, permitting or construction of the project. The witnesses will be designated by and at the sole discretion of the COUNTY Attorney;
- 4. Travel to points outside the COUNTY if such travel is reasonably necessary to accomplish a task;
- 5. Prepare special studies and reports, such as environmental documents (including representation and testimony at hearings and community meetings), grant applications, etc.;
- 6. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproductions for the office use of the CONSULTANT and the CONSULTANT'S subconsultants;
- 7. Provide the services of an independent cost estimator (as a subcontractor) to make a comprehensive cost estimate for the project in a form satisfactory to the COUNTY (which independent cost estimate will be in addition to the cost estimates prepared by the CONSULTANT);
- 8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner (including the making of record prints of drawings, etc.);
- 9. Provide, in the event the project construction exceeds the time stated in the project contract documents, the continuing services required to be done by the CONSULTANT during construction of the project;
- 10. Provide any other services related to the project not otherwise included in the Basic Services or other Special Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

TASK II - ANNUAL SERVICES

Annual Services are those that the COUNTY requires performed on a recurring annual basis. They shall be described in detail within each Task Authorization, but shall consist of:

- 1. Automated Project Management.
- 2. Land Acquisitions.
- 3. Annual airports facility inspections and reporting.
- 4. Airports pavement analysis.
- 5. Annual update of COUNTY'S Capital Improvement Program.
- 6. Annual update and negotiation of FAA and FDOT grant programs.
- 7. Annual preparation of FAA AIP grant preapplication and application forms.
- 8. Annual preparation of FDOT Joint Participation Agreements.
- 9. Participation in FAA Joint Planning Conferences.
- 10. Participation in CFASPP meetings.
- 11. Other duties as requested by the COUNTY and agreed to by the CONSULTANT.

TASK III - MISCELLANEOUS SERVICES

If authorized in writing by COUNTY and agreed to in writing by CONSULTANT, CONSULTANT will furnish or obtain from subconsultant or subcontractor additional services of the service types below which are not defined as "Basic" Planning, Design and Construction (Task I), or "Annual Services" (Task II). Each Task Authorization shall describe the exact scope of services to be performed.

- 1. Staff Extension Services for Planning, Design, Construction and Administration.
- 2. Micro-Level Planning Studies including:
 - Environmental
 - Site Planning
 - Aviation Planning
 - NAVAID Studies
 - Aviation Business Development
 - Airside
 - Landside
 - Terminal
 - Conceptual Planning
 - Feasibility Studies
 - Review and Analysis of Proposed Improvements
 - Miscellaneous Planning Studies
- 3. Design Services including:
 - Architectural
 - Structural
 - Mechanical
 - Electrical
 - Civil
 - Landscaping
 - Interiors

- Miscellaneous
- 4. Environmental services including:
 - Environmental Audits
 - Compliance Actions
 - Regulatory Review
 - Monitoring
- 5. Technical Reviews
- 6. Value Engineering
- 7. Specific Grant Services including:
 - Preparation of FAA AIP grant preapplications and applications
 - Preparation of FDOT Joint Participation Agreements
 - Assist COUNTY in negotiations with FAA or FDOT
- 8. Financial Consultation, including:
 - Consult with COUNTY' fiscal agents and bond attorneys
 - · Provide necessary engineering data
 - Provide financial analyses
- 9. Property Procurement Assistance:
 - Determine land and easement requirements and provide consultation and assistance on property procurement as relates to professional engineering services being performed.
- 10. Administrative Assistance:
 - Provide Contract and Project Administration Services to the COUNTY as authorized. These may include scope definitions, proposals for additional projects, scheduling, weekly coordination, including Tasks I, II, and III.
- 11. Obtaining Services for Others:
 - Provide subconsultant services to the COUNTY from approved subconsultants as authorized.
- 12. Furnish renderings or models of projects, when requested and authorized, for the COUNTY'S use.
- 13. Miscellaneous Studies:
 - Investigations involving detailed consideration of operations, maintenance and overhead
 expenses, and the preparation of rate schedules, earnings and expense statements;
 feasibility studies; appraisals and valuations; detailed quantity surveys of material,
 equipment and labor; and audits or inventories required in connection with construction
 performed by the COUNTY.
- 14. Extraordinary Construction-Related Services, including:
 - 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 on any contract, (3) prolongation of the construction contract time of
 any prime construction contract by more than 60 days, (4) acceleration of the work
 schedule involving services beyond normal working hours, and (5) default by Contractor
 under any prime construction contract.
 - Consultation or other services after completion of the Construction Phase, such as frequent inspections during any guarantee period and reporting observed discrepancies under guarantees called for in any construction contract.

- Preparing to serve or serving as a witness for the COUNTY in any litigation or other proceeding involving project.
- 15. Preparation of an operating manual for use by the COUNTY.
- 16. Extra Services:
 - Services not specifically defined heretofore that may be authorized by the COUNTY.
- 17. Resident Services During Construction.
 - If requested by the COUNTY or recommended by the CONSULTANT and agreed to in writing by the other party, a Resident Project Representative and assistants will be furnished and shall act as directed by CONSULTANT in order to provide more extensive representation at the Project site during the Construction Phase. The Resident Project Representative, through more extensive on-site observations of the work in progress, field checks of materials and equipment, and maintenance of job site records on conditions and activities, will assist the CONSULTANT in determining that the Project is proceeding in accordance with the Contract Documents, but the furnishings of such resident project representation shall not make the CONSULTANT responsible for construction means, methods, techniques, sequences or procedures or for safety precautions or programs, or for Contractor's failure to perform the construction work in accordance with the Contract Documents.
- 18. Assist the COUNTY with Aviation Capital Improvements Program.
- 19. Assist the COUNTY with DBE program.
 - DBE Training
- 20. Provide FAA-required "third-party review" of professional service contracts.
- 21. Miscellaneous Services. Miscellaneous services to be provided shall include, but not be limited to, the following:
 - Certify compliance with financial covenants
 - Prepare scope of work packages including preliminary designs (35 percent complete) for preparation of final designs by others
 - Develop and implement Project Information Management Systems
 - Develop, implement and maintain Facilities Management Information Systems
 - Inventory existing facilities, update changes, maintain current computer program for use of facilities
 - Monitor and update lease exhibits as required
 - Prepare land acquisition engineering analyses, soils investigations, legal descriptions and surveys
 - Participate in compatible land-use planning in the vicinity of airports
 - Develop forecasts of facilities requirements
 - Participate in public information programs and/or public hearings relating to airport planning/development projects
 - Evaluate reliever airport needs and commercial development plans
 - Develop and monitor airport development schedules, budgets and cost estimates for the Capital Improvements Program
 - Monitor project costs associated with bond programs/interim financing programs
 - Coordinate interfaces between multiple contractors/designers work
 - Maintain and update CADD-based Airport Layout Plans
 - Maintain CADD-based Exhibit "A" Property Maps

- Review technical studies for compliance with COUNTY objectives and prepare technical studies upon request
- Coordinate land use development plans
- Ensure that FAA Form 7460, Notice of Intent to Construct, is submitted on timely basis for all proposed construction
- Monitor projects to assure compliance with "Assurances" relating to federal and state grant covenants
- Evaluate technical operations and maintenance problems with existing facilities
- Schedule cash-flow requirements and participate in economic analyses
- Assist in preparation of PFC applications
- Maintain and implement SIMMOD computer model and database
- Anticipate planning needs and initiate planning efforts in a timely manner, evaluate existing facility utilization and recommend changes for increased efficiencies
- Maintain and update utilities atlas
- Monitor and maintain ground and aerial surveys
- Monitor and maintain public information signage
- Prepare videotape presentations
- Other duties as requested by COUNTY and agreed to by CONSULTANT

22. Miscellaneous IT Support Services

This initial Work Program #1, as described herein, consists of six tasks. As summarized below, these initial efforts have an overall budget of \$1,521,708.

Task Level / No.	Description		Budget
Level 1 Tasks:	•		
I-11-PBI-C-001	Runway 10L-28R Rehabilitation	\$	1,114,342.00
I-11-PBI-C-002	Golfview Implementation Planning	\$	46,375.00
Sub-total (Level 1)		\$	1,160,717.00
Level 2 Tasks:			
II-11-DOA-C-001	2012 Annual Environmental Compliance Monitoring, Inspection	٦,	
	and Training Services	\$	110,991.00
Sub-total (Level 2)		\$	110,991.00
Level 3 Tasks:			
III-11-DOA-C-001	Misc. AEP and Construction Consulting Services	\$	150,000.00
III-11-DOA-C-002	Misc. Financial Consulting and Capital Programming	\$	50,000.00
III-11-DOA-C-003	Misc. Environmental Consulting Services	\$	50,000.00
Sub-total (Level 3)		\$	250,000.00
Grand Total (Work Program #1)		\$ ′	1,521,708.00

Exhibit B contains a series of tables that provide more detail associated with the establishment of the fees prescribed above.

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT "A-I-1"

Task Scope Sheet

Task I-11-PBI-C-001

Palm Beach International Airport Runway 10L-28R Rehabilitation

Overview

The Palm Beach County Department of Airports (DOA) has requested that CH2M HILL, INC. (CONSULTANT) provide Professional Engineering Services associated with the Runway 10L-28R Rehabilitation Project at Palm Beach International Airport (PBIA) as shown in Figure 1. The DOA has observed numerous distresses on Runway 10L-28R and its intersection with Runway 14-32 which were last rehabilitated in 2001 and 1991, respectively.

The DOA has programmed a design and construction budget for the runway rehabilitation project in the amount of \$15M. The project will be funded using Passenger Facility Charge (PFC) funds. In addition, the DOA is seeking additional funds in the amount of approximately \$2.5M to construct stormwater improvements identified in the PBIA 2008 Stormwater Management Master Plan. As a result, the stormwater improvements will be designed as a Bid Alternate and authorized for construction if bids are favorable and/or additional funding is secured.

The improvements included in the construction documents portion of this scope of services are as follows:

- Runway 10L-28R Pavement Rehabilitation;
- Runway 10L-28R and Runway 14-32 Intersection Pavement Rehabilitation;
- Taxiway C, E and L End Connectors Pavement Rehabilitation within the Runway Safety Area (RSA);
- Taxiway Connectors C1, C2, C3, C6, C7, D (South), F (North & South), G (North), H (North & South), J, K, L1 and S Pavement Rehabilitation within the RSA;
- Taxiway C5 Fillet Widening and Shoulder Pavement Construction;
- Runway and Taxiway Lighting System Upgrades and Electrical Improvements;
- Stormwater Improvements (Bid Alternate).

Runway and Taxiway Lighting System upgrades and electrical improvements include the following:

- Replacement of Homerun Conductors for both runway edge light circuits;
- Replacement of Homerun Conductors for runway centerline light circuit;
- Replacement of Runway centerline light fixtures on existing base cans;

Exhibit A – Task I-11-PBI-C-001 Palm Beach International Airport Runway 10L-28R Rehabilitation A-18

September 2011

- Replacement of Runway edge light circuits on existing base cans;
- Replacement of quartz taxiway edge light from the runway to the hold bar PTs and adjust elevation to accommodate shoulder overlay;
- Replacement of the LAHSO light fixtures on existing base cans;
- Install new RGL in-pavement hold bars at Taxiway Connectors C1, C2, C3, C5, G, C7, S,
- Replacement of existing runway regulators;
- Removal of existing manhole at intersection of Runway 10L-28R and 14-32;
- Installation of edge lights and guidance signs at Taxiway C5;
- Replacement of wind cones;
- Replacement of MALSR conductors and fixtures within project limits.

The pavement rehabilitation design will be in accordance with Federal Aviation Administration (FAA) Advisory Circulars AC 150/5300-13, Change 16, "Airport Design," AC 150/5340-1K, "Standards for Airport Markings," AC 150/5320-6E, "Airport Pavement Design and Evaluation," AC 150/5340-18F, "Standards for Airport Sign Systems," AC 150/5320-5C, Change 1, "Surface Drainage Design," AC 150/5340-30E, "Design and Installation Details for Airport Visual Aids," current editions at the time of Notice-to-Proceed. The basis for Bid Alternate design will be the February 2008 PBIA Conceptual Stormwater Management Master Plan and Conceptual Drawings, and the South Florida Water Management District (SFWMD) Conceptual Environmental Resource Permit (ERP) approved on April, 9 2009.

CONSULTANT will provide basic services including comprehensive pavement investigation to identify and develop distress repair recommendations, preparation of construction documents, stormwater permitting, burrowing owl nest removal permitting, and bid and award services (Phases 1-4). Construction Administration and Construction Management services are not included in this scope of services.

As part of this project, CONSULTANT will perform the following tasks 1 through 26:

- 1. Attend One (1) Team Design Chartering / Kick-Off Meeting;
- 2. Attend One (1) DOA Design Kick-Off Meeting;
- 3. Attend Two (2) Field Coordination Meetings;
- 4. Attend Five (5) Airline Station Manager Meetings;
- 5. Attend Five (5) DOA Submittal Review Meetings (Preliminary Design, 30%, 60%, 90%, and 100%);
- 6. Perform Ten (10) Project Site Investigation Visits during the performance of Field
- 7. Prepare PowerPoint Presentation for DOA Design Kick-Off / Airline Station Manager Meetings:
- 8. Update PowerPoint Presentation for Airline Station Manager and DOA Submittal Review
- 9. Attend One (1) FAA Safety Management Systems (SMS) Workshop at DOA Offices;

A-19

- 10. Validate DOA Program Budgets and Develop Rough Order of Magnitude Project Construction Cost Budget Estimate Alternatives:
- 11. Construction Phasing Alternatives Analysis;
- 12. Disadvantage Business Enterprise (DBE) Reporting;

Exhibit A - Task I-11-PBI-C-001

Palm Beach International Airport Runway 10L-28R Rehabilitation

September 2011

- 13. Data Collection, Records Research, Review and Coordination;
- 14. Perform Field Services including Topographic Land Surveying, Aerial Photography and Mapping, Geotechnical Investigations, Utility Locations, Burrowing Owl Site Investigations, and Visual and Non-Destructive Pavement Evaluation.
- 15. Prepare 30%, 60%, 90%, and 100% Contract Documents including: Front End Documents, Technical Specifications, Drawings, Project Schedule, Engineer's Report, and Cost Estimate;
- 16. Update PBIA Signage and Marking Master Plan Drawings;
- 17. Prepare and Submit South Florida Water Management District (SFWMD) Construction Environmental Resource Permit (ERP) Application;
- 18. Prepare and Submit SFWMD Water Use Permit for Dewatering Operations Application;
- 19. Prepare and Submit Florida Fish and Wildlife Conservation Commission (FWC) Burrowing Owl Nest Removal Permit Application;
- 20. Prepare and Assemble Bid Documents including Project Manual, Technical Specifications, and Drawings;
- 21. Assist the DOA in Advertisement and Bidding of the project;
- 22. Attend One (1) Pre-Bid Meeting and One (1) Site Visit;
- 23. Evaluate Bid Tabs and Prepare Recommendation to Award Letter;
- 24. Task Management;
- 25. Task Coordination (FAA, ATCT, DOA Operations, SFWMD, other Consultants, and other interested project Stakeholders);
- 26. Task Independent Technical Review (ITR) Quality Assurance/ Quality Control.

CONSULTANT's Project Manager and Project Engineer will attend the Kick-off, Airline Station Manager and design review meetings.

CONSULTANT will coordinate field services and Notices to Airmen (NOTAMs) for runway and taxiway closures with Airport Operations and Air Traffic Control Tower (ATCT) personnel under Task Coordination. CONSULTANT does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA.

All meetings will include preparation of meeting agenda and required material, meeting attendance and travel, and preparation of meeting minutes documenting the items discussed during the meeting and summary of action items.

The DOA will provide CONSULTANT and its subconsultants access to hard copies of existing as-built information and electronic CAD files, where available. CONSULTANT will develop base plans in AutoCAD rel. 2008 format.

This document outlines the proposed approach to accomplish these tasks.

Scope of Services

CONSULTANT's performance will be divided into two categories of services, Basic Services and Special Services. Basic Services will be performed as detailed in this Scope of Services. Special Services will be performed by CONSULTANT as authorized by the DOA's representative under a separate Task Authorization.

Exhibit A – Task I-11-PBI-C-001 Palm Beach International Airport Runway 10L-28R Rehabilitation

Project Team

CONSULTANT's subcontractors include Hillers Electrical Engineering, Inc. (Electrical), ADA Engineering, Inc. (Storm Water Management Design and SFWMD Permitting), Brown & Philips, Inc. and Southern Resource Mapping of Miami, Inc. (Surveying and Photogrammetry), Tierra South Florida, Inc. (Geotechnical), Applied Pavement Technology, Inc. (Pavement Evaluation), Cyriacks Environmental Consulting Services, Inc. (Burrowing Owl Permitting) and F.R. Aleman & Associates, Inc. (Utility Locates).

Basic Services

Basic Services will follow four (4) distinct Phases 1-4. Phase 1 will consist of Preliminary Design (Approx. 15% Design Completion). Phase 2 is Design Development (Approx. 30% Design Completion). Phase 3 will consist of progress submittals of sixty percent (60%, Phase 3A), ninety percent (90%, Phase 3B), and final design completion (100%, Phase 3C) of the Contract Documents. Phase 4 will consist of Bidding and Award of the Contract Documents.

A brief definition follows for each of the Phases included in this scope of services:

Phase 1 – CONSULTANT will prepare graphics and a written preliminary design report for the project including conceptual development of significant project elements and the projected cost for the project. In addition, data gathering and field services (topographic and photogrammetric surveys, geotechnical investigation, pavement evaluation, burrowing owl habitat investigation, and utility locates) will be performed during this phase.

Phase 2 – CONSULTANT will develop the approved preliminary design documents from Phase 1 to define project elements and solidify major components prior to the start of the Contract Documents. CONSULTANT will estimate the project budget for construction costs and develop preliminary schedules and phasing plans.

Phase 3A – CONSULTANT will develop the Contract Documents to a predetermined completion milestone (60% Completion). CONSULTANT will update the project preliminary cost budget estimate, schedule, and phasing plans.

Phase 3B – CONSULTANT will develop the Contract Documents to a predetermined completion milestone (90% Completion) to allow the project to be permitted and reviewed by the appropriate agencies including the Federal Aviation Administration (FAA), as required. CONSULTANT will update the project cost budget estimate, schedule, and phasing plans.

Phase 3C – CONSULTANT will complete the Contract Documents to 100% to allow the project to be bid and constructed. CONSULTANT will prepare the final project cost budget estimate, schedule, and phasing plans.

Phase 4 – CONSULTANT will assist the DOA in obtaining Bids and in the Award of the Construction Contract.

During the Phase 1 Field Services, the DOA will provide CONSULTANT and subcontractors with airfield access and escorting services. The investigation activities associated with Runway 10L-28R are anticipated to be performed Monday through Friday during the hours of midnight

Exhibit A – Task I-11-PBI-C-001 Palm Beach International Airport Runway 10L-28R Rehabilitation

A-21

September 2011

and 0600. The field services activities associated with the intersection of Runway 14-32 are anticipated to be performed concurrently with the Runway 10L-28R work during the hours of 0200 and 0400.

In addition, as a part of Phase 1, CONSULTANT will prepare a PowerPoint Presentation for use during the DOA kick-off meeting, Airline Station Manager meeting, and the submittal review meeting with the DOA. The DOA kick-off meeting presentation will be updated prior to the Airline Station Manager and DOA Submittal Review meetings to reflect design updates and decisions made in Phase 1. CONSULTANT will then update the PowerPoint Presentation for use during the Airline Station Manager, South Florida Water Management District and DOA Submittal review meetings in subsequent Phases. The revisions to the PowerPoint Presentation will reflect design updates and decisions made since the last Airline Station Manager and DOA Submittal Review meetings.

The meetings with the Airline Station Managers will discuss the project phasing, impacts to airport operations, and maintenance of traffic during construction of the project. Meetings include agenda preparation, travel, attendance, and minutes. CONSULTANT will prepare meeting material including presentation handouts, graphics, and agenda.

The following paragraphs summarize CONSULTANT's Basic Services:

1.0 PHASE 1 - PRELIMINARY DESIGN

CONSULTANT will review preliminary Project concepts with the DOA Representative, other DOA Divisions, Agencies and other approval authorities as appropriate with respect to the Project. Those changes and/or modifications that were jointly agreed upon will be addressed by CONSULTANT and the necessary inclusions made in subsequent phases to the Contract Documents. The purpose of the review and comment solicitation is to endeavor to ensure that the Contract Documents and all facilities constructed in accordance therewith will meet all applicable requirements for later obtaining the necessary permits and approvals for the project.

CONSULTANT will prepare scaled planning stage preliminary drawings that clearly depict the limits of construction, airport operations during and after Project completion; general utilities, drainage, environmental impacts if any, required surveying and subsurface investigations and probable construction costs. The Preliminary Design Concepts will be presented in exhibit form to DOA and other interested Agencies and Authorities. A Preliminary Design Narrative Report documenting the Preliminary Sub-Phase findings and recommendations will be submitted to DOA for review and approval.

As a part of this Sub-Phase, CONSULTANT will prepare the following:

A) Construction Schedule

A Project Schedule will be submitted in an approved format and will consist of a preliminary milestones showing the proposed probable completion date of each Phase and Sub-Phase for the Project through Design Development, 60%, 90% and 100% Contract Documents, Bid Documents, Bidding of Work, performance of the Work by the Contractor and final acceptance of the Work by the DOA.

B) Preliminary Design Studies

These Preliminary Design Studies will be conceptual in nature and scope, will be further defined, and amplifying details will be developed by CONSULTANT during subsequent phases of the Project design.

C) Grading, Paving, Drainage, and Utilities

CONSULTANT will prepare Plan(s) showing pavement and drainage layout(s) with direction of storm water flows to each ponding area and/or inlet. The Preliminary Design Narrative Report will provide paving, grading, drainage, and utilities calculations in sufficient detail to give assurance that the Project can be used under the approved design aircraft/service vehicle loadings and design storm conditions.

D) Maintenance of Traffic (MOT) and Safety Plans

CONSULTANT will prepare conceptual construction MOT and Airside Operations Area (AOA) Security and Safety Plan(s) in sufficient detail to show how construction can be accomplished while meeting DOA Airside and Landside Operational Constraints. The Security and Safety Plan(s) will delineate the nature, extent and location(s) of site access and haul routes and depict required barricading, signing, marking and safety lighting required for the Project. The Security and Safety Plans will meet FAA Advisory Circular AC 150/5370-2E, current edition criteria for "Operation Safety On Airports During Construction."

E) Work Staging

CONSULTANT will develop a conceptual Work Staging Plan, which limits adverse impacts to existing Airside and Landside Operations. CONSULTANT will advise the DOA Representative, in writing, of any potential adverse impacts and any estimated increase in Project costs and/or any time extension effect that would result from such a Work Staging Plan. If identified in the Scope of Services, a series of alternative Work Staging Plan(s) may be developed by CONSULTANT with associated cost and time extension and also be submitted to the DOA Representative, along with an analysis of pertinent factors and relative merits of each Plan, even if such alternative Plan(s) would adversely affect Airside or Landside Operations. The decision as to which Work Staging Plan to issue will be made by the DOA, and CONSULTANT will be informed of such decision in writing by the DOA Representative.

F) Preliminary Outline Specifications

CONSULTANT will prepare preliminary Outline Specifications, which will describe the technical requirements of all construction work being proposed for the Project, all of which will be considerations in developing the Project Budget Costs during the subsequent Design Development Phase.

G) Phase Submittal Requirements

CONSULTANT will submit eight (8) copies of the Preliminary Design Narrative Report required under this Phase for review and approval by the DOA. CONSULTANT will not proceed with "Phase 2 - Design Development" until the Preliminary Design has been reviewed and approved by the DOA Representative, the interested DOA Divisions, the affected Airlines and other airport Users; and written approval with appropriate comments are received from the DOA and approval has been issued to CONSULTANT by the DOA Representative.

- H) Preliminary Planning and Programming CONSULTANT will define the level of effort required to provide a complete project. This will include confirmation of design and permitting criteria/requirements, preparation of graphics, definition of project boundaries including bid alternates, quantity takeoffs, rough order of magnitude project design and construction cost budget estimate alternatives (5 max.) and coordination with subconsultants, DOA and other Agencies as necessary.
- I) Construction Phasing Alternatives Analysis
 CONSULTANT will perform Construction Phasing Alternatives to analyze schedule and cost
 implications to the Project through evaluating alternative closure windows (i.e. 6 hour, 8 hour, 10
 hour or 12 hour). CONSULTANT will analyze the associated costs of each closure window
 alternative and overall Project duration required for each alternative to determine the optimal
 period for construction activities that limits impacts to airport operations while balancing costs.
- J) Small Business (SBE)/ Disadvantage Business Enterprise (DBE) Report
 CONSULTANT will prepare a SBE/DBE report for this project to be submitted at the end of this
 phase. The report will be in an approved format and will be based on the Rough Order of
 Magnitude Project Construction Cost Budget Estimates prepared during this phase. The report
 will present the estimated project budget broken down into individual cost line items by North
 American Industry Classification System (NAICS) titles and codes, with the estimated budget as
 a percentage and in dollars.

NAICS is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. The standard was developed under the auspices of the Office of Management and Budget (OMB), and adopted in 1997 to replace the Standard Industrial Classification (SIC) system. NAICS was developed jointly by the U.S. Economic Classification Policy Committee (ECPC), Statistics Canada, and Mexico's Instituto Nacional de Estadistica y Geografia, to allow for a high level of comparability in business statistics among the North American countries.

1.1 Data Collection and Records Research

CONSULTANT will review existing DOA design, as-built, record drawings and information regarding the proposed construction project components, and gather available information for use during subsequent design phases. Record documents anticipated to be required to be obtained from the DOA for the Project include, but not limited to, the following:

- a. 2011 Taxiway L Extension Construction Documents prepared by The LPA Group
- b. 2011 Taxiway C4 High-Speed Exit 100% Design Documents prepared by The LPA Group
- c. 2010 Taxiway D High-Speed Exit Record Documents prepared by The LPA Group
- d. 2011 Fiber Optic Transmission System (FOTS) Construction Documents prepared by URS Corporation in association with the FAA
- e. 2011 Taxiway F Extension Record Documents prepared by CH2M HILL, INC.

- f. 2011 Misc. Airfield Pavement Repairs and Rehabilitation Record Documents prepared by CH2M HILL, INC.
- g. 2001 Runway 9L-27R Improvements Record Documents prepared by CH2M HILL, INC.
- h. 2011 Runway 14-32 Engineered Materials Arresting System (EMAS) Construction Documents prepared by The LPA Group
- i. 2009/2010 Runway 14-32 Rehabilitation Record Documents prepared by The LPA Group
- j. 2010 Airfield Lighting Controls Systems Upgrade Construction Documents prepared by The LPA Group
- k. 2010/2011 Signage and Marking Master Plan prepared by The LPA Group
- 1. 2011 Fleet Mix and Airport Operational Data (Noise Abatement Report)
- m. 2010 PBIA Annual Airports Pavement Evaluation prepared by Ricondo & Associates
- n. Florida Department of Transportation (FDOT) Pavement Management System Documents

1.2 Field Services

During execution of Field Service activities, CONSULTANT will perform a maximum of ten (10) site visits to become familiar with project site, obtain digital photographs, and oversee field service activities. One (1) engineer will be present during the site investigation visits.

1.2.1 Geotechnical Investigation

CONSULTANT's subcontractor Tierra South Florida, Inc. (TSF) will perform geotechnical investigation services for the Project as shown in **Figure 2**. To accommodate bidding/funding requirements, the geotechnical investigations will be separated into Task 1 and 2:

- 1. Task 1- Runway 10L-28R Rehabilitation: Determine the existing asphalt pavement thicknesses of Runway 10L-28R, its intersection with Runway 14-32 and its connector taxiways. In addition, TSF will determine the subsurface soil conditions to be use as the basis of design of the shoulder pavement construction and fillet widening associated with Taxiway C5;
- 2. Task 2- Bid Alternate No. 1, Dry Retention Pond: Determine the subsurface soil conditions in the location of the proposed dry retention pond to be included in the construction documents as Bid Alternate No. 1. The subsurface soil data will be used to design the dry retention pond, which will be constructed should favorable bids be received during the Bidding Phase and/or additional funding is secured by the DOA.

CONSULTANT's subcontractor, Brown & Phillips, Inc., will provide land surveying services to layout the proposed coring/borings in Task 1 and Task 2 once the scope of the project is validated and a review of the pavement condition has been completed by the design team.

Geotechnical Investigation Services will include the following:

Task 1- Runway 10L-28R Rehabilitation:

- A maximum of six (6) Standard Penetration Test (SPT) borings to a depth of 10 feet below existing grade and a maximum of forty (40) pavement cores. The cores and borings will be performed at the approximate locations shown in Figure 2;
- Soil Boring and Coring Location Plan in AutoCAD format;
- Soil Boring Logs in AutoCAD format denoting boring number, Unified Soil Classification (USC), location of groundwater table depth, number of blows, standard penetration resistance in blows per foot, station and offset, date performed, and depth in feet;
- Coring Logs in AutoCAD format denoting coring number, depth of pavement section including surface course and base material in inches, and photographs of each core documented;
- Final Geotechnical Report.

Task 2- Bid Alternate No. 1, Dry Retention Pond:

- A maximum of two (2) SPT pond borings to a depth of 10 feet below existing grade. The pond borings will be performed at the approximate locations shown in Figure 2.
- Constant Head Percolation and Infiltration Test Results.

The Geotechnical Report will include a summary of findings, USGS Quadrangle Map, USDA/SCS Soil Survey for Palm Beach County, Laboratory results including Water Content %, Organic Content %, Percent Finer than No. 200 Sieve, compaction requirements and California Bearing Ratio (CBR) of subgrade, subbase and limerock, Atterberg limits, and will be signed and sealed by a registered professional geotechnical engineer in the State of Florida. The report will include exhibits and figures to illustrate the geotechnical investigation and findings. The standard test method for determining the infiltration rate of soils in the field will be the Double-Ring Infiltrometer Method. It is anticipated that as soil information becomes available during the boring operations, boring locations may be adjusted by CONSULTANT based on the actual field conditions.

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194 and be in accordance with FAA Advisory Circular AC 150/5320-6E, Change 1, "Airport Pavement Design and Evaluation."

1.2.2 Topographic Survey

CONSULTANT's subcontractor Brown and Phillips, Inc. (B&P) will perform topographic surveying services for the Project as shown in **Figure 1**. B&P will collect topographic survey data necessary to support the photogrammetric survey data collected by Southern Resource Mapping of Miami, Inc. (SRMM), also shown on **Figure 1**. To accommodate bidding/funding requirements, B&P's scope of work will be separated into Task 1- Runway 10L-28R Rehabilitation and Task 2- Bid Alternate No. 1, Dry Retention Pond.

Task 1- Runway 10L-28R Rehabilitation includes work in the following areas:

- Runway 10L-28R (12,000 feet long by 800 feet wide);
- Runway 14-32 intersection with Runway 10L-28R;
- Taxiway Connectors to Runway 10L-28R.

Exhibit A – Task I-11-PBI-C-001 Palm Beach International Airport Runway 10L-28R Rehabilitation B&P's scope of work under this task includes:

- Establishment of a horizontal network control by running a traverse through the site. All found monumentation will be tied in. The survey will be oriented to Palm Beach County Airport horizontal control (NAD 83/90 Adjustment). Sectional and geodetic control information will be obtained from the Palm Beach County Survey Department. All work will be in conformance with Florida Minimum Technical Standards. Horizontal Accuracy per FGDC Standards will be, at a minimum, 3rd Order, Class 1;
- Establishment of a vertical network control by performing a level run onsite using the existing Palm Beach County Airport benchmarks (NAVD 1988). At least two benchmarks will be set onsite. Vertical Accuracy per FGDC Standards will be, at a minimum, 2nd Order Class 1;
- Profiles on even stations at 100-foot intervals of Runway 10L-28R along the centerline (crown), the edge of full strength pavement on both sides (75 feet north and south of centerline), and the edge of shoulder pavement on both sides (35 feet north and south of runway edge of full strength pavement), as shown on **Figure 1**;
- Profiles on even stations at 100-foot intervals of Runway 14-32 along the centerline (crown), the edge of full strength pavement on both sides (75 feet east and west of centerline) and the edge of shoulder pavement on both sides (35 feet north and south of runway edge of full strength pavement), as shown on **Figure 1**;
- Cross Sections on even stations at 500-foot intervals along Runway 10L-28R extending 250 feet on both sides of the centerline as shown on Figure 1. Cross sections will include shots at the centerline (crown), edge of full strength pavement, pavement drop-offs (lips), pavement shots 35 feet from edge of full strength pavement within wide areas of shoulder pavement, edge of shoulder pavement (top of pavement and adjacent pavement drop-off) and ground shots on 50-foot intervals along the cross section in non-paved areas extending to the 250 foot limit as shown on Figure 1;
- Cross Sections on even stations at 250-foot intervals along Runway 14-32 extending 250 feet on both sides of the centerline as shown on **Figure 1**. Cross sections will include shots at the centerline (crown), edge of full strength pavement, pavement drop-offs (lips), pavement shots 35 feet from edge of full strength pavement within wide areas of shoulder pavement, edge of shoulder pavement (top of pavement and adjacent pavement drop-off), and ground shots on 50-foot intervals along cross sections in non-paved areas extending to the 250 foot limit as shown on **Figure 1**;
- Profiles on even stations at 50-foot intervals extending 400 feet from Runway 10L-28R centerline on Connector Taxiways C (10L End), L (10L End), Cl, C2, S, C3, C4, Ll, F (North and South), G (North), H (North and South), D (North and South), K, C5, C6, J, C7, C (28R End), and E (28R End) along the centerline (crown) and the edge of full strength pavement, as shown on Figure 1;
- Cross Sections of Connector Taxiway C (10L End), L (10L End), Cl, C2, S C3, C4, Ll, F (North and South), G (North), H (North and South), D (North and South), K, C5, C6, J, C7, C (28R End), and E (28R End) at 200 feet and 300 feet from the centerline of Runway 10L-28R, as shown on Figure 1. The Cross Sections will extend a minimum of 25 feet beyond the edge of pavement and will include shots at the centerline (crown), edge of full strength pavement, pavement drop-offs (lips), pavement shots 35 feet from edge of full strength

pavement within wide areas of shoulder pavement, edge of shoulder pavement (top of pavement and adjacent pavement drop-off), and ground shots on 50-foot intervals along cross sections in non-paved areas as shown on Figure 1;

- Additional ground shots within the survey limits of proposed construction area as needed to
 define unique topographic features such as depressions and ditches, such that the final
 SRMM aerial survey will produce a digital terrain model with a vertical accuracy of +0.03
 foot tolerance;
- Determination and layout of aerial targets (number of targets and location) will be coordinated with SRMM. The total number of aerial targets is anticipated to be required is estimated at a maximum of 150 locations;
- Drainage Structures and Culverts including rim, invert, material, and direction of culverts between Taxiway C (10L End) and Taxiway C1 and west of Taxiway A as shown on Figure 1;
- Stakeout of six (6) soil borings, forty (40) pavement cores, and six (6) field CBR test locations;
- Horizontal (x, y) and vertical (z) locations of two (2) Utility Locations (locations to be provided prior to initiating field services);
- Preparation of preliminary aerial target plan for review by SRMM;
- 2 contingency days for additional surveying, as required.

Task 2- Bid Alternate No. 1, Dry Retention Pond, includes work in the Optional Dry Retention Pond Area (Stormwater Improvements).

B&P's scope of work under Task 2 includes:

- Stakeout two (2) optional pond borings and infiltration/percolation tests. B&P will coordinate with CONSULTANT's geotechnical subconsultant, Tierra South Florida and storm water subconsultant, ADA Engineering;
- Horizontal (x, y) and vertical (z) locations of Eight (8) Utility Locations (locations to be provided prior to initiating field services);

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor and Mapper. The survey final drawings will be provided in AutoCAD format at 1"=50' scale. The survey control established under Task 10, Implementation Planning of the System Wide Airport Master Planning Study (Phase I) will be the basis for the project survey control.

1.2.3 Photogrammetry and Aerial Mapping

CONSULTANT's subcontractor Southern Resource Mapping of Miami, Inc., will perform photogrammetry and aerial mapping services for the Project, as shown in **Figure 1**. To accommodate bidding/funding requirements, SRMM's scope of work will be separated into Task 1- Runway 10L-28R Rehabilitation and Task 2- Bid Alternate No. 1, Dry Retention Pond. The scope of services for the photogrammetric survey will include the following:

Aerial Photography and Digital Mapping

New B&W aerial photography at 1"=60' and 1"=400' negative scales for the 1"=50' scale planimetrics mapping, digital terrain modeling (DTM), and raster imagery work. Mapping will be accomplished using low altitude photography using a helicopter flying three flight lines. Flying hours from take-off to landing and materials (films, contact prints, and diapositives) are included.

The Aerial Photography will be taken when the weather and light conditions are such that the negatives will be satisfactory for use in photogrammetric compilation by stereo plotting methods and for the production of the raster imagery.

Aerial Triangulation

Analytical aerial triangulation will be performed for the creation of additional control points to support the topographic and the raster imagery work. SRMM will employ analytical aerial triangulation techniques creating control points for each of the stereoscopic models to be used in the stereo compilation phase and in the raster imagery work. SRMM's aerial triangulation program will incorporate corrections for any deformation such as atmospheric refraction, earth curvature, and lens distortion.

Topographic Mapping

The 1"=50' scale Planimetrics mapping will consist of all visible features from the aerial photography. The Planimetrics and the DTM will cover the entire study area (approximately 800' x 12,000') within the project limits.

The planimetric files will be delivered in AutoCAD rel. 2008 format. SRMM will graphic edit the planimetric data: polygons will be checked for accuracy and completeness; lines will be extended, clipped, joined and spliced as necessary. Data will be labeled, and text will be moved and globally changed as needed to provide clarity and readability.

Digital Terrain Models

Digital Terrain Models consisting of break-lines, mass of spot elevations, plus spot elevations in high and low areas (vertical reading accuracy: +/- 0.03' on hard surfaces) will be generated. First order analytical stereo plotters will be used in order to assure accurate vertical readings. Some of the planimetric features, digitized in 3D, will be used as part of the DTM break lines. Features such as: edge-of-pavements, paint lines, retaining walls (at ground level), runways, taxiways, curbs, gutters, and catch basins. In addition, spot elevations will be digitized at approximately 20' intervals that will show any terrain changes.

SRMM will generate contours at 0.2-foot intervals to be delivered in AutoCAD rel. 2008 format.

Digital Raster Imagery

Computer-scan aerial photography, raster imagery, and mosaic: Computer-scan at 1,600 dpi of the original 1"=400' scale B&W photography for the 1"=50' scale imagery (pixel size 0.4). The raster rectifications will be controlled by the aerial triangulation solutions. SRMM will mosaic the referenced, geocoded, raster files. Final mosaics (panels) will be delivered in TIF/TFW format on DVDs.

Ground Control Requirements

For satisfying the immediate need of controlled digital mapping, (2'X2') aerial targets along edge of pavement in the requested area and (4'X4') targets along the boundary of the study area (see dash line in **Figure 1**) will be established by B&P prior to the aerial photography flights. The state-plane coordinates will be based on NGS monuments.

1.2.4 Utility Locates

CONSULTANT's subcontractor F. R Aleman & Associates, Inc. (FRA) will perform utility location investigation services for the Project. The purpose of the utility location investigation is to determine the horizontal and vertical location of subsurface utilities to be used for the adjustment of borings/cores prior to the stakeout and drilling and will be used as the basis of design for the relocation of existing utilities impacted by the runway/taxiway and stormwater improvements. To accommodate bidding/funding requirements, FRA's utility location investigation scope of work will be separated into two tasks, Task 1- Runway 10L-28R Rehabilitation (shoulder pavement construction and fillet widening for Taxiway C5) and Task 2-Bid Alternate No. 1, Dry Retention Pond.

Utility location services will be in accordance with ASCE/C-1 38-02, Quality Level B, in the immediate location of the proposed work for Task 1 and Task 2. A list of the subsurface utilities in the project area will be obtained through a review of data obtained during the Data Collection and Records Research task. As a result of the records review and design needs the application of reasonable surface geophysical methods to determine the existence and approximate horizontal and vertical locations of existing subsurface utilities will be employed.

Electromagnetic induction (EM) in conjunction with Ground Penetrating Radar (GPR) will be used to identify any detectable utilities within the footprint of Task 1 and Task 2 of the Project. All marks will be reviewed with on site personnel/surveyors in the field. Vacuum excavation (soft digs) will be utilized to confirm/verify any discoveries identified during the EM and GPR evaluation.

Vacuum excavation is a non-destructive technique used to safely expose utilities using a combination of compressed and vacuum air. Once the utility has been exposed, vertical elevation, diameter and material type will be obtained. Conditions such as groundwater, hard, rocky soils, sub-surface obstructions and targets at deep elevations can limit the effectiveness of vacuum excavation. Targets beyond the limitations of the Vacuum system may be "probed" with an air lance. This technique is effective in determining elevation but may be ineffective for determining outside diameter and material type. Duct banks, large diameter targets and structures often require multiple excavations in order to acquire desired information.

CONSULTANT's subcontractor, Brown & Phillips, Inc., will provide land surveying services to obtain the horizontal and vertical locations of the vacuum excavations. A maximum of 2 utility locates have been budgeted for Task 1 and a maximum of 8 utility locates have been budgeted for Task 2.

1.2.5 Burrowing Owl Nest Survey

CONSULTANT's subcontractor Cyriacks Environmental Consulting Services, Inc. (CECOS) will provide professional environmental engineering services for the Project.

Conduct Survey Inspection

CECOS will perform a field survey to assess the number of active and in-active burrowing owl nests within the proposed construction area in accordance with the Migratory Bird Nest Removal Permit Application. The survey will document the number of active and in-active nests, locations, number of eggs and/or flightless young present, if any, and the number of adult owls present, if any. Digital Photograph recording will be used to document the findings and will be included in the submittal to the client and FWC for their records.

CECOS will scope the identified burrows with an approved camera to verify the presence of eggs, flightless young, and/or adults. Burrow status will be assigned to each burrow referencing the total number of owls. For estimating purposes and the size of the project scope, it is assumed up to ten (10) nests will require video recording.

CECOS will follow proper methodology in accordance with the FWC F.A.C. 68A-27.005 guidelines for owl nest protection. Each burrow will be marked with a stake, numbered, and coordinates taken with a GPS.

1.2.6 Pavement Evaluation

CONSULTANT's subcontractor Applied Pavement Technology, Inc (APTech), will provide professional pavement engineering services for the Project. APTech will perform a comprehensive pavement investigation program and assist CONSULTANT to develop design recommendations for the rehabilitation of Runway 10L-28R and 14-32.

1.2.6.1 Records Review

Prior to beginning fieldwork, APTech will review pertinent records concerning the runway and taxiway pavement areas. This includes a review of previous network-level PCI surveys or other condition evaluations, construction records, traffic histories, traffic projections, and traffic patterns.

The information collected during this task will be used to efficiently plan the field work conducted in this Phase, as well as to perform the pavement analysis and development of rehabilitation recommendations.

1.2.6.2 Pavement Investigation

APTech's field investigation for this project will include a detailed visual inspection and deflection testing of the runway and taxiway pavements. APTech will also provide assistance with the geotechnical investigation.

Visual Condition Survey

For this detailed, project-level investigation, the project team proposes to visually inspect 100 percent of the pavement area. This level of detail provides the project team with the information necessary to accurately characterize the pavement condition, to identify localized areas with severe distress, and to determine any areas that require structural testing outside of the normal

Exhibit A – Task I-11-PBI-C-001

Palm Beach International Airport

Runway 10L-28R Rehabilitation

A-31

September 2011

testing pattern. Additionally, the project-level survey provides the project team with distress quantities and locations that may be necessary if any repair activities are required prior to the application of rehabilitation treatments.

For this visual investigation, the project team will follow the PCI survey procedures documented in FAA Advisory Circular 150/5380-6B, Guidelines and Procedures for Maintenance of Airport Pavements, and ASTM Standard D5340-10, Pavement Condition Survey Procedure for Airfield Pavements. In addition to the PCI surveys, all severe distresses that may require repair in conjunction with the selected rehabilitation option or prior to the start of construction will be mapped so they can easily be identified for repair.

Digital photographs of the pavement will also be obtained to record the condition at the time of inspection. The survey work will be coordinated with Airport Operations and the Air Traffic Control Tower (ATCT) to limit the impact to operations. It is assumed that the pavement inspections will be performed during nighttime closures under artificial lighting, concurrently with the surveying, geotechnical, utility location, and burrowing owl nest investigation services.

Falling Weight Deflectometer (FWD) Testing

Nondestructive deflection testing with an FWD provides a wealth of information about the load carrying capabilities of the pavement and the uniformity of support conditions. The results of the testing program will be used to determine the structural integrity and load carrying capacity of the existing pavement sections. The results will also supplement the condition inspections and coring data in areas where structural distresses are apparent, and provide inputs for determining the extent of any strengthening that may be required beyond a standard overlay.

Deflection testing will be performed using APTech's Dynatest Model 8082 heavy-weight model FWD, which is capable of simulating in magnitude and duration the loads imparted to an airfield pavement by a moving aircraft tire. FWD testing will be conducted following the guidance in FAA Advisory Circular 150/5370-11A, Use of Nondestructive Testing in the Evaluation of Airport Pavements. It is anticipated that FWD testing will be performed during nighttime runway closures and will be coordinated with Airport Operations and ATCT.

With the FWD, a dynamic load is applied to the pavement by dropping a set of masses onto a circular load plate resting on the pavement surface, as illustrated in **Figure 3**. A range of load magnitudes is achieved by varying the number of masses used and the heights from which they are dropped. The actual load magnitude is measured using a load cell within the load plate, and the resulting deflections are measured by transducers located at the center of the load plate and at preset distances away from the load plate, as illustrated.

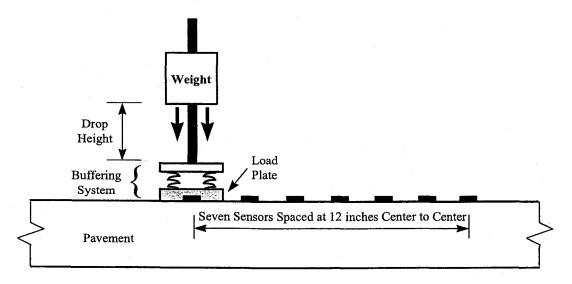


Figure 3. Schematic diagram of FWD testing equipment.

The FWD equipment is configured to address local conditions. The purpose of the customized configuration is to simulate the actual loading conditions in the field. Given the variety of aircraft operating at PBIA, the following configuration is envisioned:

- Three-drop test sequence of approximately 25,000, 35,000, and 45,000 lbs.
- Large load plate with an 8.9-inch radius.
- Sensors spaced at 0, 12, 24, 36, 48, 60, and 72 inches.

However, the final testing configuration may be modified based on a review of the traffic information and discussions with the DOA.

For this project-level evaluation, APTech proposes to perform testing in six lanes—three on either side of the runway centerline. Testing will be performed at 100-foot intervals in the two lanes nearest the centerline, at 200-foot intervals in the two middle lanes, and 200-foot intervals in the outer two lanes to provide an assessment of the pavement condition. Testing between lanes will be staggered to provide adequate lateral coverage of the facility. Additional testing may be performed as needed, such as areas of greater deterioration. FWD testing is anticipated to be performed in 3 consecutive nights (based on anticipated 6-hour testing window) assuming minimal disruptions.

The proposed testing pattern provides a thorough distribution of test locations throughout the pavement sections and provides sufficient data to accurately evaluate the material properties and to analyze the load-carrying capacity and materials properties of each section. Specific results that will be generated from this testing program include: normalized deflections, elastic modulus (E) of individual pavement layers, and subgrade support (elastic modulus for flexible pavement). The results will also be used as inputs in subsequent analyses to assess the pavement structural capacity and feasible rehabilitation alternatives.

Geotechnical Investigation Assistance

Based on preliminary results of the visual pavement survey and deflection testing, APTech will provide input for coring and boring locations for sampling. The objective of the geotechnical investigation is to obtain samples and perform materials testing to determine the pavement cross sections, to assess the underlying conditions of the pavement structure, and to determine properties of the in-place materials. APTech will coordinate this activity with Tierra South Florida, Inc. (TSF), the geotechnical consultant on the project team.

It is anticipated that at each core location, TSF will visually examine and document the condition of the bound pavement layers, as well as measure the core thickness. The visual inspection will evaluate the relative quality of bond between pavement layers and identify signs of stripping or other subsurface abnormalities. Digital photographs of the cores will be provided by TSF. The base/subbase aggregates and soils will also be measured for thickness and field-classified, and samples will be collected for laboratory testing from six (6) boring locations.

The map in **Figure 2** depicts the general location of the coring and boring samples. APTech will pinpoint the location of the samples following visual inspection of the runway and the locations will be marked in the field and documented in the design drawings. The locations will be selected so that materials are collected at locations of interest for the overall analysis, including intact pavement areas and areas where the materials or pavement conditions indicate a need for additional examination below the pavement surface.

1.2.6.3 Pavement Data Analysis and Development of Rehabilitation Alternatives

The results of the records review, condition surveys, FWD testing, and geotechnical investigation will be analyzed to determine the overall structural condition of the pavement. The results of the condition surveys will be used to calculate PCIs for each pavement section. Additionally, the distress information will be analyzed to determine the types of distress present in each pavement section and the primary cause of deterioration (structural, climatic, or other). The PCI will also be compared to the previous network-level PCI to evaluate the rate at which each pavement section is deteriorating. This assessment will be used to determine what rehabilitation alternatives will provide acceptable performance over time and what areas might be required to be repaired prior to any rehabilitation.

The FWD data will be used to evaluate the structural capacity of each pavement section included in the Project. Deflection profiles will be plotted to illustrate the maximum deflections (correlated to a standard load). Areas with changes in pavement structural capacity or current condition will be evident from the longitudinal deflection profiles. Deflection testing data will also be used to back calculate material properties of the subgrade and pavement layers using layered elastic analysis for the HMA pavements. These results will also be illustrated using graphical plots. The results will further be used as inputs for the development of pavement rehabilitation recommendations.

Based on the results of the analysis and the Project and design criteria identified in discussions with the DOA, various repair and rehabilitation design alternatives (including milling and HMA overlay, HMA reconstruction, and PCC reconstruction) will be developed to address existing deficiencies and meet the Project design requirements. Rehabilitation strategies will be designed in accordance with FAA Advisory Circular (AC) 150/5320-6E, Airport Pavement Design and

Evaluation. The need for additional measures, such as pre-overlay repairs and reflective crack control treatments, will also be evaluated and recommended if deemed to be beneficial.

1.2.6.4 Pavement Design Report

The results of all field and laboratory investigations, analyses, and recommendations will be presented in a detailed design report. This report will present the comprehensive testing and evaluation conducted during the project, describe the development of alternative rehabilitation strategies, and provide the final rehabilitation recommendations.

A draft of the report will be delivered electronically to DOA for review and comment. Three hard copies, as well as an electronic file, of the final report will be submitted to DOA and will incorporate comments from the review of the draft report.

1.3 Meetings

CONSULTANT will attend the following meetings during this phase:

- 1. One (1) Kick-Off Meeting with the DOA,
- 2. One (1) Team Chartering/ Kick-Off Meeting,
- 3. One (1) FAA Safety Management Systems (SMS) Workshop at the DOA office,
- 4. Two (2) Field Coordination Meetings,
- 5. One (1) Airline Station Manager Meeting,
- 6. One (1) Submittal Review Meeting with the DOA.

1.4 Deliverables

The Phase 1 - Preliminary Design Deliverables will include the following items 1-14:

- 1. PowerPoint Presentation;
- 2. DOA Kick-off and Submittal Review Meeting Minutes;
- 3. Field Coordination Meeting Minutes;
- 4. Airline Station Manager Review Meeting Minutes;
- 5. Project Cost Budget Estimates;
- 6. Construction Phasing Alternatives;
- 7. Topographic Survey;
- 8. Aerial Photography and Digital Mapping;
- 9. Geotechnical Investigation Report;
- 10. Utility Location Investigation Report:
- 11. Pavement Evaluation Report;
- 12. Burrowing Owl Investigation Report;
- 13. SBE/DBE Report;
- 14. Preliminary Design Narrative Report and Exhibits.

1.5 Schedule

The anticipated duration of this phase is 90 calendar days. See Exhibit "C" for the complete estimated project schedule.

2.0 PHASE 2 - DESIGN DEVELOPMENT

Following Preliminary Design approval and upon receipt of the DOA Representative's written authorization to initiate Phase 2, CONSULTANT will prepare Design Development Documents from the approved Preliminary Design Documents, which clearly define the elements of the Project. Design Development may proceed concurrently with exploratory subsurface investigations, pavement evaluation, and the topographic survey, if required.

The Design Development Documents will consist of and further define the following items 1-11:

- 1. All horizontal and critical elements of vertical geometry;
- 2. Limits of construction;
- 3. Clearing and demolition requirements;
- 4. Drainage systems;
- 5. Existing utilities;
- 6. Existing utility relocation;
- 7. Proposed utilities;
- 8. Typical grading, paving and drainage sections and details;
- 9. Update Project schedule;
- 10. Outline specifications;
- 11. Other major engineering elements to the degree required to provide a complete understanding of the elements of the Project, CONSULTANT's proposed design treatment of these elements and the development of probable Project Budget Costs for construction.

The Plans to be provided by CONSULTANT for the Design Development review submittal will include the following items 1-31:

- 1. 30% Cover;
- 2. 30% Drawing Index;
- 3. 30% Summary of Quantities (Base Bid and Bid Alternate No. 1);
- 4. 30% General, Safety, and Security Notes;
- 5. 30% Survey Control Plan;
- 6. 30% Boring/Coring Location Plan;
- 7. 30% Boring/Coring Logs;
- 8. 30% Burrowing Owl Management Plan;
- 9. 30% Safety Plan;
- 10. 30% Overall Phasing, Staging and Haul Route Plan;
- 11. 30% Construction Phasing Plans, Details and Conceptual Construction Schedule;
- 12. 30% Maintenance of Traffic Plans;
- 13. 30% Typical Sections and Details;
- 14. 30% Sheet Layout Plan;
- 15. 30% Demolition Plans;
- 16. 30% Paving and Geometry Plans;
- 17. 30% Grading and Drainage Plans;
- 18. 30% Runway and Taxiway Profiles;
- 19. 30% Stormwater Pollution Prevention Plans;
- 20. 30% Stormwater Pollution Prevention Notes and Details;

- 21. 30% Drainage and Water Main Details;
- 22. 30% Airfield Marking and Signage Plans;
- 23. 30% Airfield Marking Details;
- 24. 30% Runway Grooving Plan and Details;
- 25. 30% Electrical General Notes;
- 26. 30% Electrical Demolition and Installation Notes;
- 27. 30% Electrical Demolition Plans;
- 28. 30% Electrical Lighting Layout Plans;
- 29. 30% Electrical Lighting Circuitry Plans;
- 30. 30% Airfield Electrical Vault Equipment Modifications;
- 31. 30% Electrical Details.

Design Development Layout and Location Plans will be the same scale as intended for the Construction Documents. Plans will be sufficiently detailed to convey CONSULTANT's design intentions and to confirm the feasibility of space arrangements. Profiles, grading contours (initially only, show spot elevations), precise dimensioning and specific detailing will be omitted in this Phase.

CONSULTANT will prepare and submit a 30% Engineer's Design Report covering all findings and recommendations developed throughout the Design Development Phase including an updated Construction Phasing Alternatives Analysis, Technical Specifications Outline, Construction Schedule and estimate of probable Project Cost Budget for Construction.

CONSULTANT's subcontractor ADA Engineering, Inc. (ADA) will perform Drainage Permitting and Design in addition to Water Main relocation and/or modification design. For the Drainage scope of work, ADA will develop the stage-area-storage calculations, storm sewer sizing calculations, half-inch dry pretreatment retention volume calculations, impervious/pervious area calculations, and ponding calculations. ADA will use the future conditions ICPR model developed as part of the Conceptual Stormwater Management Master Plan to evaluate the proposed interim drainage system.

CONSULTANT jointly with the DOA Representative, to the extent applicable based on changes and/or modifications affected during the Design Development Phase, will review pertinent Documents with the Agencies and Authorities previously consulted in Phase 1 having permitting or other approval Authority with respect to the Project, in order to obtain any changes in the comments and judgment of such agencies. Any further changes and/or modifications that were jointly agreed upon will be addressed by CONSULTANT and the necessary inclusions made to the Contract Documents in Phase 2, as applicable.

CONSULTANT will submit eight (8) copies of all Documents (11x17 Drawings) required under this Phase 2 for review comments and approval by the DOA. CONSULTANT will not proceed with the following Phase 3 - Contract Documents until the Design Development has been reviewed and approved by the DOA Representative; the interested DOA Divisions; the affected Airlines and other Airport Users; and written approval with appropriate comments is received from the DOA and approval has been issued to initiate the Contract Documents 60% Submittal Phase 3A.

2.1 Meetings

CONSULTANT will attend the following meetings during this phase:

- 1. Two (2) Team Coordination Meetings,
- 2. One (1) Airline Station Manager Review Meeting,
- 3. One (1) Client Review Submittal Meeting.

2.2 Deliverables

The Phase 2 - Design Development Deliverables will include the following items 1-9:

- 1. Updated PowerPoint Presentation;
- 2. DOA Submittal Review Meeting Minutes;
- 3. Airline Station Manager Review Meeting Minutes;
- 4. Refined Construction Phasing Alternatives Analysis;
- 5. 30% Project Construction Cost Budget Estimate;
- 6. 30% Project Schedule;
- 7. 30% Technical Specifications Outline;
- 8. 30% Design Development Drawings;
- 9. 30% Engineers Report.

2.3 Schedule

The anticipated duration of this phase is 45 calendar days. See Exhibit "C" for the complete estimated project schedule.

3.0 PHASE 3 - CONTRACT DOCUMENTS

Following Design Development approval and upon receipt from the DOA Representative of written authorization to initiate Phase 3A, CONSULTANT will develop 60% Complete Contract Documents from the approved Design Development Documents. The DOA and CONSULTANT will mutually agree upon the content to be provided in these documents.

3.1 PHASE 3A - 60% CONTRACT DOCUMENTS

The 60% Complete Contract Documents will include the following items 1-37:

- 1. 60% Cover;
- 2. 60% Drawing Index;
- 3. 60% Summary of Quantities (Base Bid and Bid Alternate No. 1);
- 4. 60% General, Safety, and Security Notes;
- 5. 60% Survey Control Plan;
- 6. 60% Boring/Coring Location Plan;
- 7. 60% Boring/Coring Logs;
- 8. 60% Burrowing Owl Management Plan;
- 9. 60% Safety Plan;
- 10. 60% Overall Phasing, Staging and Haul Route Plan;
- 11. 60% Construction Phasing Plans, Details and Conceptual Construction Schedule;

Exhibit A - Task I-11-PBI-C-001

A-38

September 2011

Palm Beach International Airport Runway 10L-28R Rehabilitation

- 12. 60% Maintenance of Traffic Plans;
- 13. 60% Typical Sections and Details;
- 14. 60% Sheet Layout Plan;
- 15. 60% Demolition Plans;
- 16. 60% Paving and Geometry Plans;
- 17. 60% Grading and Drainage Plans;
- 18. 60% Runway and Taxiway Profiles;
- 19. 60% Stormwater Pollution Prevention Plans;
- 20. 60% Stormwater Pollution Prevention Notes and Details;
- 21. 60% Drainage and Water Main Profiles:
- 22. 60% Drainage and Water Main Details;
- 23. 60% Airfield Marking and Signage Plans;
- 24. 60% Airfield Marking Details;
- 25. 60% Runway Grooving Plan and Details;
- 26. 60% Electrical General Notes:
- 27. 60% Electrical Demolition and Installation Notes;
- 28. 60% Electrical Demolition Plans;
- 29. 60% Electrical Lighting Layout Plans;
- 30. 60% Electrical Lighting Circuitry Plans;
- 31. 60% Airfield Electrical Vault Equipment Modifications;
- 32. 60% Electrical Details;
- 33. 60% Cross Section Layout Plan;
- 34. 60% Engineer's Report;
- 35. 60% Project Schedule;
- 36. 60% Technical Specifications;
- 37. 60% Project Construction Cost Budget Estimate.

The 60% Submittal will include an updated Construction Phasing Alternatives Analysis, Cost Estimate for construction and an estimate of the probable Construction Schedule, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous Probable Project Construction Budget Cost Estimates.

CONSULTANT will submit eight (8) copies of all Contract Documents (11x17 Drawings) required under this Phase 3A for review comments and approval by the DOA. CONSULTANT will not proceed with Phase 3B, 90% Contract Documents, until the 60% Complete Contract Documents have been reviewed and approved by the DOA Representative, the interested DOA Divisions, and written approval is received from the DOA.

3.1.1 Permitting

3.1.1.1 SFWMD Construction ERP and Water Use Permit for Dewatering Operations during Construction Pre-application Meeting

CONSULTANT's subcontractor ADA will initiate contact with the SFWMD regarding submittal of Construction ERP and dewatering permit applications for the Project. ADA will attend two (2) meetings with SFWMD staff utilizing the drainage computations presented in

the 60% Engineer's Report to provide an overview of the project to District staff. ADA will prepare meeting agenda and minutes to document the discussions held during the SFWMD pre-application meetings.

3.1.1.2 FWC Migratory Bird Nest Removal Permit Pre-application Meeting

CONSULTANT's subcontractor CECOS will initiate contact with FWC regarding submittal of a Migratory Bird Nest Removal Permit Application for the destruction of Burrowing Owl Nests for the Project. CECOS will attend one (1) meeting to present the field investigation and data research findings to FWC staff. CECOS will prepare an agenda and minutes to document the discussions held during the FWC pre-application meeting.

3.1.2 Meetings

CONSULTANT will attend the following meetings during Phase 3A:

- 1. Two (2) Team Coordination Meetings,
- 2. One (1) SFWMD Pre-Application Meeting (ERP),
- 3. One (1) SFWMD Pre-Application Meeting (Dewatering Permit),
- 4. One (1) FWC Pre-Application Meeting (Burrowing Owl Nest Removal Permit),
- 5. One (1) Airline Station Manager Review Meeting,
- 6. One (1) Client Review Submittal Meeting.

3.1.3 Deliverables

The Phase 3A - 60% Contract Documents Deliverables will include the following items 1-11:

- 1. Updated PowerPoint Presentation;
- 2. DOA Review Meeting Minutes;
- 3. Airline Station Manager Review Meeting Minutes;
- 4. Refined Construction Phasing Alternatives Analysis;
- 5. SFWMD ERP and Dewatering Permit Pre-Application Meeting Minutes;
- 6. FWC Burrowing Owl Nest Removal Permit Pre-Application Meeting Minutes;
- 7. 60% Contract Document Drawings;
- 8. 60% Engineer's Report;
- 9. 60% Project Schedule;
- 10. 60% Technical Specifications;
- 11. 60% Project Construction Cost Budget Estimate.

3.1.4 Schedule

The anticipated duration of this phase is 45 calendar days. See Exhibit "C" for the complete estimated project schedule.

3.2 PHASE 3B - 90% CONTRACT DOCUMENTS

The 90% Complete Contract Documents will include the following items 1-43:

1. 90% Cover;

Exhibit A – Task I-11-PBI-C-001 Palm Beach International Airport Runway 10L-28R Rehabilitation A-40

September 2011

- 2. 90% Drawing Index;
- 3. 90% Summary of Quantities (Base Bid and Bid Alternate No. 1);
- 4. 90% General, Safety, and Security Notes;
- 5. 90% Survey Control Plan;
- 6. 90% Boring/Coring Location Plan;
- 7. 90% Boring/Coring Logs;
- 8. 90% Burrowing Owl Management Plan;
- 9. 90% Safety Plan;
- 10. 90% Overall Phasing, Staging and Haul Route Plan;
- 11. 90% Construction Phasing Plans, Details and Conceptual Construction Schedule;
- 12. 90% Maintenance of Traffic Plans;
- 13. 90% Typical Sections and Details;
- 14. 90% Sheet Layout Plan;
- 15. 90% Demolition Plans;
- 16. 90% Paving and Geometry Plans:
- 17. 90% Grading and Drainage Plans;
- 18. 90% Runway and Taxiway Profiles;
- 19. 90% Stormwater Pollution Prevention Plans;
- 20. 90% Stormwater Pollution Prevention Notes and Details;
- 21. 90% Drainage and Water Main Profiles;
- 22. 90% Drainage and Water Main Details;
- 23. 90% Airfield Marking and Signage Plans;
- 24. 90% Airfield Marking Details;
- 25. 90% Runway Grooving Plan and Details;
- 26. 90% Electrical General Notes:
- 27. 90% Electrical Demolition and Installation Notes:
- 28. 90% Electrical Demolition Plans:
- 29. 90% Electrical Lighting Layout Plans;
- 30. 90% Electrical Lighting Circuitry Plans:
- 31. 90% Airfield Electrical Vault Equipment Modifications;
- 32. 90% Electrical Details;
- 33. 90% Cross Section Layout Plan;
- 34. 90% Runway 10L-28R Cross Sections;
- 35. 90% Taxiway Connector Cross Sections;
- 36. 90% Runway 14-32 Cross Sections;
- 37. 90% Drainage Cross Sections;
- 38. 90% Engineer's Report; 39. 90% Project Schedule;
- 40. 90% Project Manual (Front Ends and FAA General Provisions);
- 41. 90% Technical Specifications
- 42. 90% Project Construction Cost Budget Estimate;
- 43. Update PBIA Signage and Marking Master Plan Drawings.

This submittal will include a 90% Cost Estimate for construction and an estimate of the probable Construction Schedule, and any changes in the size and scope of the Project, if such change substantially alters the amount of previous Probable Project Construction Budget Cost Estimates.

CONSULTANT will update the PBIA Signage and Marking Master Plan Drawings provided by the DOA to depict the improvements included under the Runway 10L-28R Rehabilitation project. This task is limited to minor updates necessary to illustrate changes in sign locations and legends and modifications to the pavement markings, as required. CONSULTANT assumes that updates required for on-going and future projects will be accomplished by others and are not included in this scope of services. Any corrections to existing errors and omissions on the Signage and Marking Master Plan identified by the DOA or the design team during review of the master plan drawings are assumed to be performed by others and not included in this task authorization.

The basis for the Front End portion of the Contract Documents will be the Federal Front Ends provided by the DOA. The DOA, with assistance from CONSULTANT, will provide CONSULTANT with the current Front End Documents and pertinent language including, but not limited to, the following items 1-6:

- 1. Palm Beach County and PFC Funding Project Numbers, as applicable;
- 2. Advertisement, Pre-Bid, and Bid Opening Dates;
- 3. Required Bid Forms and Bidding Approach (i.e. Base Bid with Alternates, Back-Up Equipment Requirements, etc);
- 4. DBE Requirements including Goal Percentages;
- 5. Percent to be performed by Prime Contractor;
- 6. Liquidated Damages.

CONSULTANT will work with the DOA to establish runway and taxiway closure Liquidated Damages (LDs). The basis for calculating estimated LDs for runway and taxiway closures will be the Economic Values for FAA Investment and Regulatory Decisions, A Guide, prepared by Aviation Specialists Group, Inc., March 2004. The projected 2012 aircraft fleet mix, 2011 annual operations (escalated to 2012) and the FAA's Terminal Area Forecast (TAF) growth projection rates will be utilized to establish LDs for Runway 10L-28R nightly closures, runway-runway intersection nightly closures, and taxiway daily and nightly closures.

CONSULTANT will develop a new Bid Form attachment to the Bidding Documents indicating that submitted bids must acknowledge the requirements established in the Contract Documents for back-up and/or emergency equipment (i.e. milling machines, paving machines, etc.) to be considered responsive. Additionally, CONSULTANT will incorporate language in the contract documents under Milestones and Damages data providing a contingency plan for the runway-runway intersection construction activities. The purpose of the contingency plan is to provide a back-up window to complete the intersection work in the event inclement weather impacts the planned period.

CONSULTANT will submit eight (8) copies of all Contract Documents required under this Phase 3B for review comments and approval by the DOA. CONSULTANT will not proceed with Phase 3C until the 90% Complete Contract Documents have been reviewed and approved by the DOA Representative, the interested DOA Divisions, and written approval is received from the DOA.

3.2.1 Permitting

3.2.1.1 SFWMD Construction ERP and Water Use Permit for Dewatering Operations during Construction Applications

CONSULTANT's subcontractor, ADA will prepare and submit a SFWMD Construction ERP Application for the Stormwater Management System for the Runway 10L-28R Rehabilitation Project in accordance with the April 2008 Conceptual Stormwater Management Master Plan and SFWMD Conceptual ERP issued on April 9, 2009. Existing surface waters and/or wetlands are not anticipated to be impacted by the Runway 10L-28R Rehabilitation project and therefore not included in this scope of services. Application fees associated with the Construction ERP and Water Use Permits will be provided and paid for by the DOA and are not included in this scope of work. ADA will prepare the following figures to be included in the SFWMD Construction ERP Application:

- 1. USGS Quadrangle Map with Project Boundaries;
- 2. Project Location Map with Project Boundaries;
- 3. SCS Soils Map with Project Boundaries;
- 4. Aerial Photograph with Project Boundaries;
- 5. Drainage Basin and Sub-basin Boundary Designations.

ADA will also prepare and submit a SFWMD Water Use permit for dewatering associated with construction activities of Runway 10L-28R. ADA will estimate the anticipated daily pumping rates during construction for permit application purposes.

3.2.1.2 FWC Migratory Bird Nest Removal Permit Application

CONSULTANT's subcontractor, CECOS, will prepare and submit a FWC Migratory Bird Nest Removal Permit Application for the destruction of Burrowing Owl Nests anticipated to be impacted as a result of construction activities. The application will include copies of previous permits, photographs of nests, nest status activity and locations, justification for removal of nests, and the proposed measures to protect and or mitigate for the loss of the nesting habitat for this species in accordance with the Burrowing Owl Nest Protection Guidelines and Procedures in Urban Areas.

3.2.2 Meetings

CONSULTANT will attend the following meetings during Phase 3B:

- 1. Two (2) Team Coordination Meetings,
- 2. One (1) SFWMD Application Submittal Review Meeting (ERP),
- 3. One (1) SFWMD Application Submittal Review Meeting (Dewatering Permit),
- 4. One (1) FWC Application Submittal Review Meeting (Burrowing Owl Nest Removal Permit),
- 5. One (1) Airline Station Managers Review Meeting.
- 6. One (1) Client Review Submittal Meeting.

3.2.3 Deliverables

The Phase 3B - 90% Contract Documents Deliverables will include the following items 1-15:

- 1. Updated PowerPoint Presentation;
- 2. DOA Review Meeting Minutes:
- 3. Airline Station Managers Review Meeting Minutes;
- 4. SFWMD ERP and Dewatering Permit Application Submittal Review Meeting Minutes;
- 5. FWC Burrowing Owl Nest Removal Permit Application Submittal Review Meeting Minutes;
- 6. SFWMD Construction ERP Application;
- 7. SFWMD Water Use Permit Application for Dewatering Activities;
- 8. FWC Burrowing Owl Nest Removal Permit Application;
- 9. PBIA Signage and Marking Master Plan Drawing Updates;
- 10. 90% Contract Document Drawings;
- 11. 90% Engineer's Report;
- 12. 90% Project Schedule;
- 13. 90% Project Manual (Front Ends and FAA General Provisions)
- 14. 90% Technical Specifications;
- 15. 90% Project Construction Cost Budget Estimate.

3.2.4 Schedule

The anticipated duration of this phase is 45 calendar days. See Exhibit "C" for the complete estimated project schedule.

3.3 PHASE 3C - 100% CONTRACT DOCUMENTS

Following the 90% Complete Contract Documents approval CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents. The 100% submittal will include information contained in the 90% documents, as well as incorporation of comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

If any further change(s) in the size and scope of the Project has occurred, which substantially alters the amount of previous Construction Cost Budget Estimates, such changes will be addressed in a written report prepared by CONSULTANT to the DOA Representative.

The 100% Complete Contract Documents will include the following items 1-42:

- 1. 100% Cover;
- 2. 100% Drawing Index;
- 3. 100% Summary of Quantities (Base Bid and Bid Alternate No. 1);
- 4. 100% General, Safety, and Security Notes;
- 5. 100% Survey Control Plan;
- 6. 100% Boring/Coring Location Plan;
- 7. 100% Boring/Coring Logs;
- 8. 100% Burrowing Owl Management Plan;
- 9. 100% Safety Plan;
- 10. 100% Overall Phasing, Staging and Haul Route Plan;

- 11. 100% Construction Phasing Plans, Details and Conceptual Construction Schedule;
- 12. 100% Maintenance of Traffic Plans;
- 13. 100% Typical Sections and Details;
- 14. 100% Sheet Layout Plan;
- 15. 100% Demolition Plans:
- 16. 100% Paving and Geometry Plans:
- 17. 100% Grading and Drainage Plans;
- 18. 100% Runway and Taxiway Profiles;
- 19. 100% Stormwater Pollution Prevention Plans;
- 20. 100% Stormwater Pollution Prevention Notes and Details;
- 21. 100% Drainage and Water Main Profiles;
- 22. 100% Drainage and Water Main Details;
- 23. 100% Airfield Marking and Signage Plans;
- 24. 100% Airfield Marking Details;
- 25. 100% Runway Grooving Plan and Details;
- 26. 100% Electrical General Notes;
- 27. 100% Electrical Demolition and Installation Notes;
- 28. 100% Electrical Demolition Plans;
- 29. 100% Electrical Lighting Layout Plans;
- 30. 100% Electrical Lighting Circuitry Plans;
- 31. 100% Airfield Electrical Vault Equipment Modifications;
- 32. 100% Electrical Details;
- 33. 100% Cross Section Layout Plan;
- 34. 100% Runway 10L-28R Cross Sections;
- 35. 100% Taxiway Connector Cross Sections;
- 36. 100% Runway 14-32 Cross Sections;
- 37. 100% Drainage Cross Sections;
- 38. 100% Engineer's Report;
- 39. 100% Project Schedule;
- 40. 100% Project Manual (Front Ends and FAA General Provisions);
- 41. 100% Technical Specifications;
- 42. 100% Project Construction Cost Budget Estimate.

CONSULTANT will work with the DOA to finalize the previously established runway and taxiway closure Liquidated Damages and Bid Form attachment for back-up equipment requirements.

CONSULTANT will provide signed and sealed plans for the DOA to use to file for a SFWMD and FWC permits at the earliest practicable time during the performance of the Design Services, provide the necessary portions of the Contract Documents for approval by DOA, State and/or Federal Authorities having jurisdiction over the project by law or contract with the DOA, and assist in obtaining any such applicable certifications of "permit approval" by such authorities prior to approval by the DOA of the Phase 3C 100% submittal and printing of the Contract Documents.

CONSULTANT will recommend and justify to the DOA any Allowance Account amounts to be incorporated into the Contract Documents.

In providing opinions of probable construction costs, the DOA understands that CONSULTANT has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinions of probable construction costs provided herein are to be made on the basis of CONSULTANT's qualifications and experience. CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

CONSULTANT will submit eight (8) copies of all Contract Documents required under this Phase 3C for final review comments and approval by the DOA. CONSULTANT will not proceed with Phase 4 until the 100% Complete Contract Documents have been revised per DOA comments, reviewed and approved by the DOA Representative, the interested DOA Divisions, and written approval is received from the DOA.

CONSULTANT will incorporate all dates into the Advertisement and Instructions to Bidders, DBE and SBE requirements, FAA labor provisions (on AIP Projects), etc. filled in and Contract Documents ready to be printed and issued to prospective Bidders.

3.3.1 Permitting

3.3.1.1 SFWMD Construction ERP and Water Use Permit for Dewatering Operations during Construction Application Request for Additional Information (RAI) Responses

CONSULTANT's subcontractor ADA will address a maximum of two (2) RAIs each associated with the SFWMD ERP and Dewatering Permit Applications.

3.3.1.2 FWC Migratory Bird Nest Removal Permit Application Request for Additional Information (RAI) Responses

CONSULTANT's subcontractor CECOS, will address a maximum of one (1) RAI associated with the FWC Burrowing Owl Permit Application.

3.3.2 Meetings

CONSULTANT will attend the following meetings during Phase 3C:

- 1. Two (2) Team Coordination Meetings,
- 2. One (1) SFWMD RAI Coordination Review Meeting (ERP),
- 3. One (1) SFWMD RAI Coordination Review Meeting (Dewatering Permit),
- 4. One (1) FWC RAI Coordination Review Meeting;
- 5. One (1) Airline Station Managers Review Meeting,
- 6. One (1) Client Review Submittal Meeting.

3.3.3 Deliverables

The Phase 3C 100% Contract Documents Deliverables will include the following items 1-11:

- 1. Updated PowerPoint Presentation:
- 2. DOA Review Meeting Minutes;
- 3. Airline Station Managers Review Meeting Minutes;
- 4. SFWMD ERP and Dewatering Permit Application RAI Meeting Minutes;
- 5. FWC Burrowing Owl Nest Removal Permit Application RAI Meeting Minutes;
- 6. 100% Contract Document Drawings;
- 7. 100% Engineer's Report;
- 8. 100% Project Schedule;
- 9. 100% Project Manual (Front Ends and FAA General Provisions)
- 10. 100% Technical Specifications;
- 11. 100% Project Construction Cost Budget Estimate.

3.3.4 Schedule

The anticipated duration of this phase is 20 calendar days. See Exhibit "C" for the complete estimated project schedule.

4.0 PHASE 4 - BID & AWARD

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids for the Project, materials, equipment and services; and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, and receive and process deposits for Bidding Documents; assist the DOA in conducting one (1) pre-bid conference and one (1) site visit for the Project to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda (two maximum) as appropriate to interpret, clarify or expand the Bidding Documents; print and distribute a maximum of thirty-five (35) sets of Bidding Documents to Prospective Bidders and plan offices (McGraw-Hill Dodge, Construction Journal, Reed Construction Data, and iSqFt Plan Room) during the Bidding phase; and attend one (1) bid opening, prepare one (1) bid tabulation sheet and assist DOA in evaluating bids or proposals (evaluate the low bidders' insurance, licensing and qualifications) and in assembling and awarding contracts for construction, materials, equipment and services.

In addition, CONSULTANT will update the SBE/DBE report prepared during Phase 1. The report will be in an approved format and will be based on the proposal of the lowest, responsive, and responsible bidder. The report will present the actual project budget broken down into individual cost line items by NAICS titles and codes, with the actual budget as a percentage and in dollars.

4.1 Meetings

CONSULTANT will attend the following meetings during this phase:

- 1. One (1) Pre-Bid Meeting;
- 2. One (1) Site Visit;
- 3. One (1) Bid Opening Meeting.

CONSULTANT will update the PowerPoint Presentation utilized during the design phase meetings for use during the pre-bid conference. The updates will include a summary of the front end bidding document requirements, an overview of the project phasing and schedules, and reflect decisions made during the design review meetings.

4.2 Deliverables

The Phase 4 - Bid & Award Deliverables will include the following items 1-8:

- 1. A maximum of thirty-five (35) sets of Bidding Documents;
- 2. One (1) Plan Holders List;
- 3. Updated PowerPoint Presentation;
- 4. Pre-Bid Meeting Attendee Roster and Minutes;
- 5. A maximum of two (2) Addenda;
- 6. One (1) Bid Tabulation Sheet;
- 7. Letter of Recommendation to Award:
- 8. One (1) SBE/DBE Report.

4.3 Schedule

The anticipated duration of this phase is 60 calendar days. See Exhibit "C" for the complete estimated project schedule.

Project Schedule

CONSULTANT will complete this project within 275 Calendar Days following receipt of the Notice to Proceed (NTP).

Project Deliverables

As required under Phases 1, 2, 3A, 3B, 3C and 4 summarized in this scope of services.

Project Assumptions

- 1. DOA will provide airfield access and escorting services during performance of the field services;
- 2. DOA will process and file NOTAMs;
- 3. DOA will provide Lighted Runway Closure Xs and required Barricades during the performance of the field services;
- 4. DOA will provide, transport, and operate a minimum of six (6) light plants (artificial lighting) during the performance of nighttime field services and as such, cost for rental equipment including trucks and light plants are not included in this scope of services;
- 5. Field services are anticipated to be performed during 4 consecutive weeks, Monday through Friday between the hours of midnight and 0600.
- 6. DOA will provide current Front End Contract Documents. Project information will be added to the standard front ends as summarized in this scope of services. Updates to the front ends will be completed by DOA and as such, are not included in the scope of work.

- 7. DOA will prepare and submit the FAA Airspace Study Checklist and as such, is not included in the scope of work.
- 8. Taxiway C4 High-Speed exit and the Taxiway L Extension projects are anticipated to be constructed prior to and/or during the rehabilitation of Runway 10L-28R.
- 9. CONSULTANT will perform Bid Documents Processing and Sales from our Palm Beach Gardens Office;
- 10. SFWMD Construction ERP, Water Use Permit for Dewatering Operations, and Burrowing Owl Nest Removal permit application fees will be paid for by the DOA. All permit fees will be paid for by DOA and are not included in CONSULTANT's scope of work;
- 11. Safety Management System (SMS) services are limited to attending one (1) workshop at DOA offices with FAA. Preparation of a SMS manual, plan and/or implementation plan is not included in this scope of services.
- 12. Construction administration, management and inspection services are not included in this scope of work. A separate task authorization will be prepared and negotiated for construction services.

Special Services

Special Services will be authorized in writing by the DOA, describing the scope and fee for the services prior to beginning. Special Services cannot be included as Basic Services because their need or exact scope cannot be fully established until underway.

Special Services during Phases 1, 2, 3, and 4 may be, but are not limited to, a selection(s) from the following:

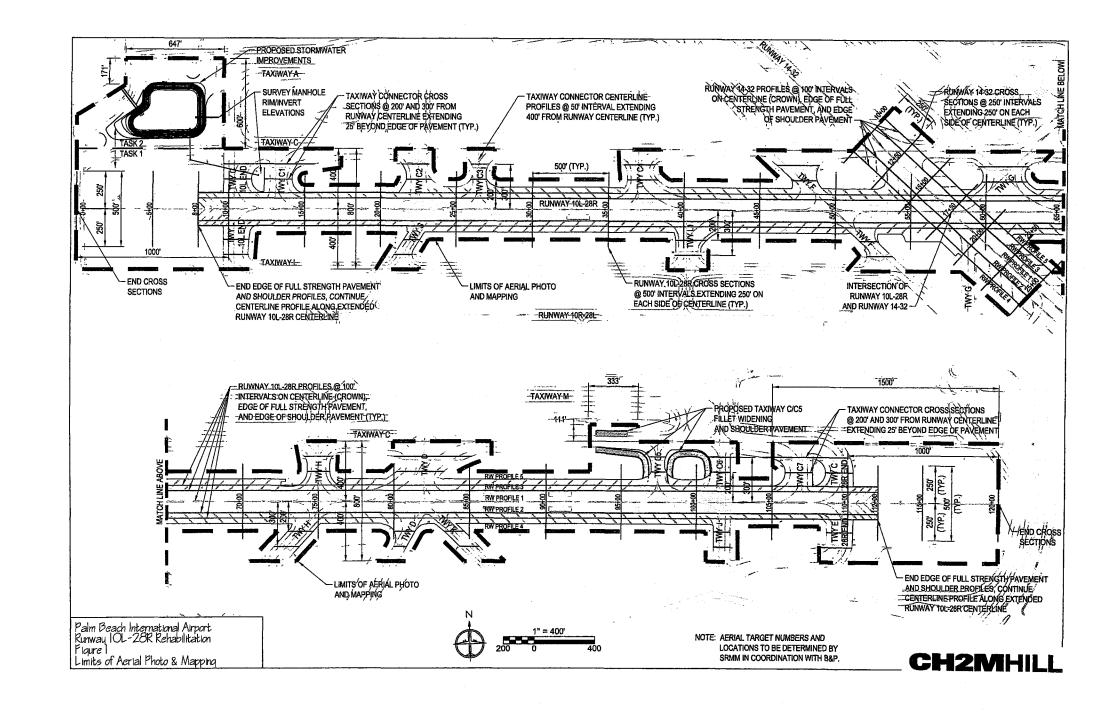
- Perform or obtain the services of a subconsultant to perform subsurface investigations, including performance of test borings, soil samples, foundation investigations, laboratory analyses of the samples, and engineering analyses not anticipated as Basic Services.
 CONSULTANT or the subconsultant will prepare a draft final and final report of all findings and CONSULTANT will deliver to the DOA representative two (2) copies of the draft final and final report.
- 2. Perform or obtain the services of a registered professional land surveyor subconsultant to perform field surveys and investigations in order to establish or verify boundaries and monuments, perform topographic surveys, perform route surveys, prepare property or easement descriptions, perform associated office work under the direction of a registered professional surveyor, and deliver to the DOA representative a Mylar of all final plats with field notes in bound standard size field books and electronic format of said information, or in such other form as approved by the DOA.
- 3. Make revisions to drawings, specifications, or other documents when such revisions are inconsistent with approvals or instructions previously given by the DOA representative.
- 4. Perform or obtain the services of a specialized subconsultant to perform aerial photography and computer mapping.
- 5. Travel to points outside the DOA if such travel is reasonably necessary to accomplish the task.
- 6. Prepare special studies and reports, such as environmental documents including representation and testimony at hearings and community meetings, grant applications, etc.

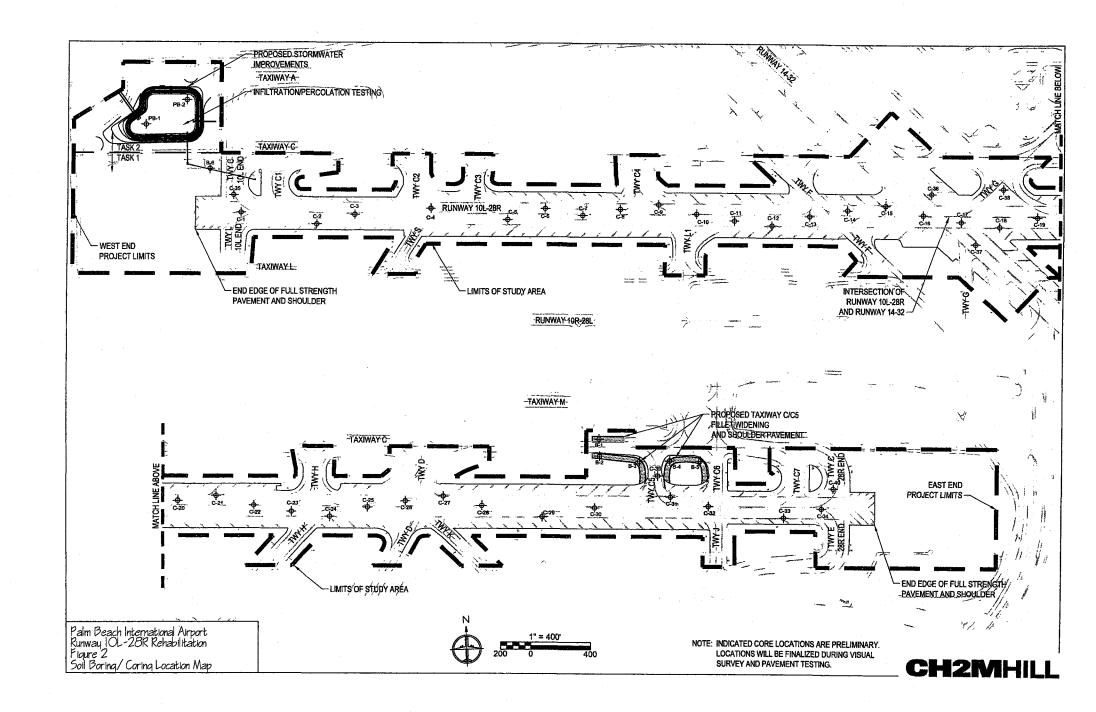
- 7. Provide the services of an independent cost estimator, as a subconsultant, to make a comprehensive cost estimate for the project in a form satisfactory to the DOA, which independent cost estimate will be in addition to the cost estimate prepared by CONSULTANT.
- 8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner, including the making of record prints of drawings, etc.
- 9. Assist the DOA representative in securing any special licenses or permits, South Florida Water Management District, DER, etc., which may be required for the completion of the project, it being understood by the parties that the fees for said special licenses and permits will be paid by the DOA.
- 10. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproduction for the office use of CONSULTANT and CONSULTANT'S subconsultants.
- 11. Provide a scale model or renderings of the project when requested by the DOA.
- 12. Provide any other additional services related to the project not otherwise included in the Basic Services of other Special Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

Special Services may also be requested for the Phase 5 construction phase. These services will include, but not limited to, the following:

- 1. Consult with the DOA concerning replacement of any construction work damaged by fire or other causes and furnish professional services as may be required in connection with the replacement of such work.
- 2. Assist the DOA in making arrangements for the work to proceed in the event that the construction contractor is declared in default by the DOA for any reason.
- 3. Assist the DOA as expert witnesses and/or factual witnesses in any legal proceedings or litigation arising from the development, permitting, or construction of the project. The witnesses will be designated by and at the sole discretion of the DOA Attorney.
- 4. Travel to points outside the DOA if such travel is reasonably necessary to accomplish a task.
- 5. Prepare special studies and reports, such as environmental documents, including representation and testimony at hearings and community meetings, grant applications, etc.
- 6. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproduction for the office use of CONSULTANT and CONSULTANT's subconsultants.
- 7. Provide the services of an independent cost estimator, as a subconsultant, to make a comprehensive cost estimate for the project in a form satisfactory to the DOA, which independent cost estimate will be in addition to the cost estimate prepared by CONSULTANT.
- 8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner, including the making of record prints of drawings, etc.
- 9. Provide, in the event the project construction exceeds the time stated in the project contract documents, the continuing services required to be accomplished by CONSULTANT during the construction of the project.

10. Provide any other additional Basic Services of other Services architecture and accepted architecture.	Special Serv	rices and not cust	omarily furnished	se included in the lin accordance with
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Exhibit A – Task I-11-PBI-C-001 Palm Beach International Airport Runway 10L-28R Rehabilitation		A-51		September 2011





PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT "A-I-2"

Task Scope Sheet

Task I-11-PBI-C-002

Palm Beach International Airport Golfview Implementation Planning - Signature Flight Support

Development Review

Overview

The DOA has requested that CONSULTANT provide Professional Engineering Services related to the Golfview Development Area (GDA) at PBI in support of defining Signature's 7.5 acre leasehold boundary limits, review of conceptual and final design documents, and assisting the DOA's with evaluation of Signature's site plan requirements versus their goals and objectives with regard to the ultimate GDA needs. CONSULTANT's subconsultant, Hillers Electrical Engineering, Inc., will review the electrical portions of the design deliverables including roadway, apron and taxiway lighting, circuitry, and electrical services.

Scope of Services

Signature is moving forward with development plans for its leasehold in the GDA. To assist the DOA with review of Signature's development plans, the CONSULTANT will perform the following tasks:

1. Signature CSP Review

- a. Review Signature's CSP;
- b. Provide summary of key considerations for Signature's CSP Development in the GDA:
- c. Review Signature's Revised CSP;
- d. Coordination with Signature's Consultants;
- e. Attend a maximum of three (3) coordination meeting/conference calls with Signature and their Consultants. Meetings include preparation, attendance, and follow-up. No meeting agenda or minutes will be prepared by CONSULTANT.

2. Analyze Existing and Future Airspace at Belvedere Road and Country Club Road Intersection

- a. Coordination with Southern Resource Mapping of Miami (SRMM) related to Traffic Signal light pole elevations;
- b. Evaluate Existing and Future Part 77 Approach/Transitional Surfaces;

A- 52

c. Develop Existing and Future Airspace Analysis Graphics.

Exhibit A - Task I-11-PBI-C-002

Palm Beach International Airport

Golfview Implementation Planning -

Signature Flight Support Development Review

September 2011

- 3. Analyze geometric requirements to evaluate the feasibility of providing a perpendicular entrance roadway connection at Belvedere Road and Country Club Road
 - a. Review FDOT Intersection Deflection Criteria;
 - b. Evaluate Country Club Road and Belvedere Road Existing Conditions;
 - c. Update Preliminary Geometry Graphic (Figure 6) from the CONSULTANT's Technical Memorandum titled "Palm Beach International Airport Future Golfview FBO Development Belvedere Road and Country Club Road Conceptual Intersection Study" dated June 24, 2008.
- 4. Develop a maximum of five (5) Roadway Right-of-Way (ROW) and Canal Maintenance Access Alternatives
 - a. Review SFWMD and Lake Work Drainage District (LWDD) criteria / Coordination;
 - b. Canal Maintenance Access Alternatives Analysis;
 - c. Roadway ROW Alternatives Analysis;
 - d. Roadway ROW Alternative Concept Typical Sections.
- 5. Review Signature's Site Investigation Report, and design milestone deliverables
 - a. Review Signature's Site Investigation Report dated June 2011;
 - b. Review Construction Documents (Drawings, Calculations, and Specification) for Signature's 7.5 acre parcel at 30%, 60%, 90% and 100% Deliverable Milestones;
 - c. Assist DOA with Evaluation of Signature's 7.5 acre Facility Requirements vs. Ultimate GDA Needs including determining minimum dry detention requirements:
 - d. Attend a maximum of five (5) coordination meetings with DOA, Signature and their Consultants. Meetings include preparation, attendance, and follow-up. No meeting agenda or minutes will be prepared by CONSULTANT.

Project Deliverables

- 1. Eight (8) Meeting with DOA, Signature Flight Support and their Consultants.
- 2. Provide an email summary of key considerations for Signature Flight Support Development in the GDA.
- 3. Existing and Future Airspace Analysis Graphics for Belvedere Road.
- 4. Update of Preliminary Belvedere Road Entrance Geometry Graphic (Figure 6).
- 5. Roadway ROW and Typical Section Alternatives.
- 6. Provide a technical memorandum summary of comments for the review of Signature's Site Investigation Report.
- 7. Provide preliminary calculations for the minimum dry detention requirements associated with the 7.5 acre development area.
- 8. Provide a tabular summary of review comments in excel format two weeks after receipt of Signatures 30%, 60%, 90% and 100% construction document deliverables.

A-53

Project Assumptions

- 1. Signature Flight Support will provide CH2M HILL a copy of their CSP and design drawings in AutoCAD format.
- 2. A maximum of two (2) revised CSP reviews are anticipated.
- 3. All CSP review meetings will be via conference call.
- 4. Assistance with evaluation of site plan requirements versus ultimate development needs will be limited to comparison of utility sizing and configuration, pavement section, grading and geometry.
- 5. Review of Signature's 30%, 60%, 90% and 100% Construction Documents will focus on the compliance of the construction documents with decisions and criteria set forth by the DOA for Signature's leasehold and for conformance with PBI's updated Implementation Plan, SWMP and ERP. The review will not be a technical review for compliance with minimum technical/design standards for architectural, civil engineering, mechanical engineering, structural engineering, electrical engineering and fire protection engineering in the State of Florida. The Exhibit B Fee Estimate outlines the expected level of effort for each deliverable review milestone.
- 6. An architectural/structural/electrical review will not be performed for Signature's proposed terminal building.
- 7. All meetings with DOA, Signature and their Consultants regarding the Site Investigation Report, and subsequent deliverables (30%, 60%, 90% and 100%) design documents will be conducted at the DOA offices.
- 8. It is anticipated that Signature's Consultant will submit the 90% Construction documents on or before November 11, 2011.

Project Schedule

CONSULTANT will complete this project within 180 Calendar Days following receipt of the Notice to Proceed (NTP).

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT A-II-1

Task Scope Sheet

Task II-11-DOA-C-001

2012 Environmental Compliance Monitoring, Inspection & Training Services

PROJECT DESCRIPTION

To comply with various state regulatory compliance permit conditions at its four airports (Palm Beach International Airport, North Palm Beach County General Aviation Airport, Palm Beach County Park Airport and Palm Beach Glades Airport), the Palm Beach County Department of Airports (DOA) has requested that CH2M HILL and its Subconsultant Cyriacks Environmental Consulting Services, Inc. (CECOS), provide environmental monitoring, inspection and training services on an annual basis. This scope of work is associated with the 2012 annual environmental monitoring services.

SCOPE OF WORK

The scope of work required to provide a complete project has been developed to meet state regulatory permit conditions and will consist of the following tasks:

1.0 SWPPP REVISIONS, INSPECTIONS AND TRAINING

A Stormwater Pollution Prevention Plan (SWPPP) is mandated by the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) as defined in 40 CFR 122.2. The NPDES is the national program for issuing, modifying, or revoking permits under Sections 307, 318, 402, and 405 of the Clean Water Act. The Florida Department of Environmental Protection (FDEP) is the permitting agency responsible for overseeing the NPDES Program in Florida. According to EPA document 833-B-09-002, *Developing Your Stormwater Pollution Prevention Plan* (February 2009), when new facilities are constructed that affect stormwater control practices; the SWPPP is revised to reflect the changes to the stormwater system. Therefore, as a part of this task, SWPPP revisions will involve Drainage and Basin Delineation Map updates as well as editorial changes to the previous SWPPP documents associated with the four airports managed by the DOA. Editorial changes will be limited to editing and replacing pages related to the tenant list including contact information and Stormwater Best Management Practices (BMPs). This task also includes the 2012 annual compliance inspections and the 2012 training workshop for employees and tenants.

1.1 In-House Data Collection

Upon receipt of the Notice to Proceed, CH2M HILL will forward a Request for Information (RFI) letter to DOA for the following information associated with each airport:

- Updated contact information for the members of the SWPPP Team;
- Updated list of tenants and their contact information;
- Preventive maintenance records:

- Procedural changes to spill response and containment;
- Facility Response Plan (if available).

1.1.1 Tenant Questionnaire

For new tenants, CH2M HILL will distribute a questionnaire to verify the tenant's contact information, identify the type of industrial activities that are currently being conducted in the leasehold, compile a preliminary list of the types of significant materials used and stored in the facility, and compile a preliminary list of BMP's that are currently being employed by the new tenant.

1.1.2 Tenant Notification

Prior to the 2012 annual compliance inspections, CH2M HILL will provide the DOA with the draft Tenant Notification of Inspection letter, NPDES Compliance Commitment Certificate, SWPPP brochure, and Spill Prevention, Control, and Countermeasure (SPCC) pamphlet. These documents will be reviewed and approved by DOA prior to distribution to the tenants. CH2M HILL will distribute the letter for DOA.

Assumptions:

- DOA will provide all SWPPP data from the most recent update, including electronic files;
- DOA will provide Material Safety Data Sheets (MSDS) of significant materials for Airport operated facilities. Significant materials are defined as raw materials; fuels; finished materials such as diesel, gasoline, petroleum products, hydraulic fluid, fertilizer, pesticide, herbicides, sealants, and paint; and waste products that have the potential to be released with stormwater discharges;
- DOA will provide the most recent Drainage and Basin Delineation maps of each Airport in AutoCAD format;
- CH2M HILL will review the as-built plans of new facilities constructed at each airport since the last ALP and Drainage Master Plan updates at DOA's file room;
- CH2M HILL will provide updates to Drainage and Basin Delineation Maps for the four DOA airports based on conditions observed in the field. CH2M HILL assumes field review updates will be minor as the DOA will provide the most current Drainage and Basin Delineation Maps and recently constructed and on-going project files in AutoCAD format for each Airport;
- There are approximately forty-four (44) industrial use tenants at Palm Beach International Airport (PBI);
- There are nine (9) industrial use tenants at North Palm Beach County General Aviation Airport (F45);
- There are approximately twenty (20) industrial use tenants at Palm Beach County Park Airport (Lantana);
- There is one (1) industrial use tenant (Pahokee Aviation) at Palm Beach County Glades Airport (Pahokee).

1.2 Annual Compliance Inspections

1.2.1 Annual Site Compliance Inspections

CH2M HILL will conduct the 2012 annual site compliance inspections to coincide with the drainage structure inspections and tenant inspections for each Airport. During the annual site compliance inspections, CH2M HILL will:

Exhibit A – Task II-11-DOA-C-001 2012 Environmental Compliance Monitoring, Inspection & Training Services

- Field verify identified potential pollutant sources;
- Identify new potential pollutant sources that resulted from recent development projects at the Airports, since the last SWPPP update;
- Field verify as-built maps of structures and facilities that were constructed after the last SWPPP update, necessary for updating the Drainage and Basin Maps;
- Photograph and document the location of new and/or modified drainage patterns and structures;
- Review and photograph current conditions at each Airport; and;
- Verify, photograph, and evaluate current stormwater controls.

1.2.2 Visual NPDES Permitted Drainage Structure Inspections

CH2M HILL will perform a visual drainage structure inspection for each NPDES permitted outfall at each airport. The NPDES permitted drainage structure inspection will be conducted concurrently with annual compliance and tenant inspections. This inspection will document the condition of the structure and visually determine whether the discharge is stormwater runoff or from some other sources that may potentially be an illicit discharge. If an illicit or non-stormwater discharge is identified and further investigation is necessary, additional investigative services will be performed under a separate task authorization. As a part of this inspection, additional drainage structures that are located near buildings or facilities will be inspected at each of the airports to determine the condition of structure, whether it is functioning, blocked or flow is impeded; or if the structure requires maintenance and/or repair. The results of the drainage structure inspections will be documented in the Annual Compliance Inspection Report for each airport. Cost estimates for maintenance and repair activities are not included in this scope of services and if necessary, will be performed under a separate task authorization.

1.2.3 Tenant and DOA Facility Inspections

CH2M HILL will perform Tenant and DOA Facility Inspections in conjunction with the annual compliance and NPDES permitted drainage structure inspections, which will consist of tenant leased hangars, buildings, and DOA Facilities. The inspections will be conducted to field verify the type of industrial activity being performed in the hangars or buildings, identify potential sources of stormwater pollution and BMP's being implemented, compile a list of general significant materials in hangars or buildings, and document the storage locations of these materials and waste disposal methods. This information will be documented in the Annual Compliance Inspection Reports.

Assumptions:

- The Tenant and DOA Facility Inspections will be performed concurrently with the non-stormwater discharge and annual compliance inspections.
- Hangars or buildings that are inaccessible at the time of inspection will not be inspected and will be noted as "Inaccessible" in the Inspection Reports.

1.3 Report Preparation

1.3.1 Annual Compliance Inspection Report

CH2M HILL will prepare the Annual Compliance Inspection Reports that will consist of the following:

- Date of Inspection;
- Results of the visual Non-Stormwater Discharge Inspections including photographs and signed inspection forms from the non-stormwater discharge inspections;

Exhibit A – Task II-11-DOA-C-001 2012 Environmental Compliance Monitoring,

Inspection & Training Services

A-57

September 2011

- Results of the tenant inspections including photographs and signed completed industrial tenant inspection forms, tenant questionnaire, and NPDES compliance certificate for each tenant;
- Results of the DOA facility inspections, i.e. fences, waste management, parking areas, buildings, runways, taxiways, and aprons;
- A summary of Recommended BMP's for the airports and tenants.

Assumptions:

- The DOA will provide comments on the revised sections of the SWPPP's and Inspection Reports to CH2M HILL within 30 calendar days of receiving the Plans and Reports;
- One (1) copy of each of the Drafts and two (2) copies of each of the Final Inspection Reports and the revised SWPPP sections will be submitted to the DOA;
- One (1) electronic copy of final revised section of each SWPPP and the Inspection Reports in both Microsoft Word and Adobe Acrobat format will be provided to the DOA;
- If necessary, the development of an Emergency Response Plan will be performed under a separate task authorization;
- If necessary, the design of secondary containment structures for refueling trucks will be performed under a separate task authorization;
- If necessary, the design of stormwater management and control structures will be performed under a separate task authorization;
- If necessary, renewal of the DOA's NPDES Multi-sector General Permit will be performed under a separate task authorization.

1.3.2 Editorial Update of SWPPP's

CH2M HILL will incorporate new tenant and BMP information in the following sections:

- SWPPP Team;
- Tenant List and Contact Information
- Facility description Tenants (if necessary).
- BMPs for the New Facilities.

An editorial revision for the airports SWPPP's will be completed to update the tenant list and new or modified BMP's. These revisions will consist of replacement pages for the SWPPP.

1.3.3 Tenant Compliance Coordination

CH2M HILL will coordinate with the tenants at each airport to provide the results of the inspections. The results will be mailed to the tenants on behalf of DOA and the results will indicate the types of BMP's that were implemented or that are recommended for each facility necessary for compliance with the NPDES permits for each airport. In addition, tenants with Multi-Sector General Permits (MSGP's) will use the result of the inspections to comply with their permits. The inspection result package will contain the following items:

- 1. Cover letter on DOA letterhead:
- 2. Industrial Tenant Inspection Checklist;
- 3. Applicable BMP's Checklist(s);
- 4. Significant Materials Inventory Data Sheet.

Deliverables:

- One (1) compact disc containing both Acrobat files and Microsoft Word files of the revised sections of the SWPPP and Annual Compliance Inspection Report for each airport;
- Two (2) copies of the Updated SWPPP and Annual Inspection Report for each airport.

1.3.4 SWPPP Drainage Map Update

Based on information provided by the DOA, Drainage and Basin Delineation Map updates due to a new facility construction and/or stormwater system or a change to the stormwater system will only be required at Palm Beach International Airport (PBI).

CH2M HILL will update the Drainage and Basin Delineation Map at PBI to reflect recently constructed projects:

- Taxiway F Extension
- Taxiway D High-Speed Exit
- Galaxy Southside Improvements
- Taxilane T
- DOA Administration Building 846
- Apron A Expansion

CH2M HILL will update the Drainage and Basin Delineation Map at PBI to reflect projects permitted and expected to be under construction at the airport during this task:

- Taxiway C4 High-Speed Exit
- Taxiway L Extension
- Air Traffic Control Tower
- Golfview Development Signature Flight Support (7.5 Acres)
- Runway 10L-28R Rehabilitation

The following tasks will be performed:

- 1. Confirm that all projects have been identified;
- 2. Research permits to determine permitted and subbasin delineation boundary changes;
- 3. Coordinate with DOA to acquire latest PBI Drainage Map files in AutoCAD format;
- 4. Coordinate with Design Consultants to acquire design files in AutoCAD format;
- 5. Update Drainage and Basin Delineation Map.

Assumptions:

- The DOA will provide CH2M HILL with an electronic copy of the latest Drainage and Basin Delineation Map in AutoCAD format;
- The DOA or other Consultants will provide CH2M HILL design files and permitting files associated with projects currently under construction and/or constructed since the last SWPPP update in AutoCAD format.

1.4 Training Workshop

CH2M HILL will conduct a training workshop tailored to existing conditions at each of the Airports to comply with SWPPP requirements. The purpose of the training workshop is to educate Airport staff and tenants regarding the Stormwater Management Pollution Prevention Program and comply with the training requirement of the DOA's MSGP for each Airport.

Assumptions:

- DOA will provide meeting space at each of the Airports at no cost to CH2M HILL;
- DOA will provide electronic copies of the 2010 training materials (Microsoft PowerPoint presentation, a training handout, a class test questionnaire, and a certificate of attendance) to CH2M HILL for modification and use in 2012;
- The training classes will be held after the annual compliance inspections are completed;
- The training classes will be approximately 1.5 to 2 hours in length including the test;
- Reproduction expenses for training class materials are based on the assumption that a maximum number of MS PowerPoint handouts and compact discs would be reproduced for the classes based upon the number of industrial use tenants.

Deliverable:

- Forty-four (44) training booklets, examination forms, and certificates of attendance for the Palm Beach International Airport (PBI);
- Nine (9) training booklets, examination forms, and certificates of attendance for the North Palm Beach County General Aviation Airport (F45);
- Twenty (20) training booklets, examination forms, and certificates of attendance for the Palm Beach County Park Airport (Lantana);
- One (1) training booklet, examination form, and certificate of attendance for the Palm Beach County Glades Airport (Pahokee).

2.0 CONTINGENCY SERVICES

CH2M HILL and its Subconsultant CECOS will provide the following services under a separate task authorization as required for each Airport:

- A. Emergency response and containment including initial containment and evaluation of the spill;
- B. Monitoring of the construction of a fuel system upgrade
- C. Soil sampling of suspect spills;
- D. Supervision of large scale fuel clean ups or remediation;
- E. Other tasks as requested that are related to Tasks 1 and Task 2

Services under Task 2 will be provided based upon the contracted hourly rate plus direct expenses or per event rate.

3.0 CLIENT COORDINATION AND MEETING

3.1 Client Coordination

CH2M HILL will coordinate all project activities with DOA. A maximum of two (2) meetings are anticipated.

3.2 Telephone Meetings

CH2M HILL will coordinate, schedule, and attend a telephone meeting with DOA to discuss the preliminary inspection results of the project with DOA staff. Another meeting will be conducted after the draft inspection reports are submitted to DOA to discuss the results of the inspections, discuss items that require attention and answer any questions that the DOA may have.

3.3 Project Status Reports

All completed activities and project activity schedules for each month will be included in a monthly project progress report.

SCHEDULE

CH2M HILL will initiate project activities immediately upon receipt of authorization to proceed. The anticipated duration of the project is thirteen (13) months.

EXHIBIT "B"

DETAILED FEES, EXPENSES, AND PAYMENTS

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT B

Detailed Fees, Expenses, and Payments

A. Methods of Payment for Services and Expenses of Consultant

1. Level I and II Tasks – Specific 2011 and 2012 Projects:

For labor and expenses expended by CONSULTANT for Specific 2011 and 2012 Projects, COUNTY shall pay CONSULTANT the amount as summarized in **Table B-1**. Paid vacations, holidays, sick leave and leaves of absence are included in the billing rates as CONSULTANT'S overhead and will not be billed separately.

The total lump sum payment by the COUNTY to the CONSULTANT for rendering basic services for Task Level I projects as described in Exhibits "A-I-1" through "A-I-2" and the Task Level II project described in Exhibit "A-II-1", including labor costs, is \$1,140,070.00. Time and Material payments for Task Level I and II services, which includes survey, geotechnical and specialty subconsultant fees, are \$102,639.00. Lump Sum Expenses for Task Level I and II services are \$28,999.00. Reimbursable expenses for Task Level I and II services are \$0.00. The total for labor and expenses for Task I services shall be \$1,271,708.00.

If it is necessary to increase the compensation beyond said allowances, prior written approval shall be obtained from the COUNTY authorizing said increase in compensation.

2. Level II and III Tasks - Miscellaneous and Administrative Services for 2011 and 2012: For labor and expenses expended by CONSULTANT, COUNTY shall pay CONSULTANT the amounts as summarized in **Table B-2**. Paid vacations, holidays, sick leave and leaves of absence are included in the billing rates as CONSULTANT'S overhead and will not be billed separately.

Miscellaneous Architectural, Planning, Engineering and Construction Services (III-11-DOA-C-001)

A Not-To-Exceed labor and expense allowance of One Hundred Fifty Thousand Dollars (\$150,000) is provided to additional services performed under Task III-11-DOA-C-001. A separate proposal or authorization is to be required for this Task. This is to serve as a record keeping arrangement for the performance of miscellaneous planning, engineering and construction services not included under Task I or II. Billing will be on a lump sum or hourly basis as approved by the COUNTY with lump sum and/or reimbursable expenses listed, all charged against Task III-11-DOA-C-001 as established in this Contract.

Miscellaneous Financial Consulting and Capital Programming Services (III-11-DOA-C-002)

In support of the DOA's ongoing monitoring of, updates to, and implementation of the Airport System's Capital Improvement Program (CIP), it may be necessary to conduct periodic financial planning tasks and/or scope-specific analyses. These financial planning tasks or analyses may focus on assessing the DOA's spending capacity resulting from increases or decreases in aviation activity, evaluating the airport's rates and charges, analyzing the benefit-cost or feasibility of undertaking a capital project, or evaluating impacts on O&M expenditures resulting from changes in demand or airport modifications.

In addition, these services may include re-defining funding strategies for the various capital improvement projects; grant management and consultation; PFC-collections and utilization monitoring, and general financial planning services relative to individual CIP projects. These services will also include, as necessary and as requested by the DOA, airline consultation meetings.

Lastly, this task will include bi-annual reviews and updates to the Airport System's Capital Improvement Program. It is anticipated that these bi-annual meetings will include a half-day to full-day working session with DOA staff, and coordination meetings (or conference calls) with the FAA Project Manager and FDOT representative responsible for the DOA airport system. Following the work session with the DOA and the agency coordination with the FAA and FDOT, the Joint Automated Capital Improvement Program (JACIP) modules for each of the four County-owned airports will be updated to reflect the revised CIP.

The services outlined above will be provided on an as-needed basis and as requested by the DOA. Services under this task will not be originated by the Consultant team without prior consent or approval from the DOA.

A Not-To-Exceed labor and expense allowance of Fifty Thousand Dollars (\$50,000) is provided to additional services performed under Task III-11-DOA-C-002. A separate proposal or authorization is to be required for this Task. This is to serve as a record keeping arrangement for the performance of miscellaneous planning, engineering and construction services not included under Task I or II. Billing will be on a lump sum or hourly basis as approved by the COUNTY with lump sum and/or reimbursable expenses listed, all charged against Task III-11-DOA-C-002 as established in this Contract.

Miscellaneous Environmental Consulting Services (Task III-11-DOA-C-003)

These services will include advice and consultation regarding federal environmental regulatory and procedural requirements necessary for airport improvement projects. A labor and expense allowance of Fifty Thousand Dollars (\$50,000) is provided to additional services performed under Task III-11-DOA-C-003. Billing will be based on the hourly billing rates labor costs listed in Table I with reimbursable expenses listed, all charged against Task III-11-DOA-C-003 as established in the Contract. This task will not require a separate proposal and includes services performed by the CONSULTANT and its Subconsultants.

B-2

Miscellaneous:

If it is necessary to increase the compensation beyond the above labor and expense amount, prior written approval shall be obtained from the COUNTY authorizing said increase in compensation. It is understood and agreed that the CONSULTANT shall not be obligated to perform any services beyond the amounts specified above without additional compensation being paid. CONSULANT shall give written notice to the COUNTY when the total compensation due the CONSULTANT reaches 90 percent of the total amount set forth herein.

3. Prime Subconsultants:

For services rendered by prime subconsultants employed by CONSULTANT, in connection with all basic and miscellaneous services, COUNTY shall pay the amount billed to CONSULANT therefore. It is understood and agreed by COUNTY that as a minimum the following prime subconsultants shall be retained by CONSULANT and their services shall be billed as follows:

Prime Subconsultants are:

- ADA Engineering, Inc. (DBE)
- Applied Pavement Technology, Inc.
- Brown & Phillips, Inc. (DBE)
- Cyriacks Environmental Consulting Services, Inc. (DBE)
- Harris Miller Miller & Hanson, Inc.
- Hillers Electrical Engineering, Inc. (DBE)
- OR Colan Associates
- Southern Resource Mapping of Miami, Inc.
- F.R. Aleman & Associates, Inc. (DBE)
- The Sun Group (DBE)
- Tierra South Florida (DBE)
- Urban Design Kilday Studios

Billing will be on a lump sum or hourly basis as approved by the COUNTY with lump sum and/or reimbursable expenses listed. Billing Rates will be as set forth in **Exhibit B-1**.

4. Special Subconsultants and Subcontractors:

For services rendered by special subconsultants and subcontractors agreed to by COUNTY in advance in writing, and employed by CONSULTANT in connection with all services, COUNTY shall pay the amount billed to CONSULTANT for subconsultant's and/or subcontractor's personnel. All reimbursable expenses shall be billed in accordance with Article 3 and shall be paid the amount billed therefore.

5. Reimbursable Expenses:

In addition to payments provided for in Article 3, COUNTY shall pay CONSULTANT and its subconsultants and subcontractors the actual cost of reimbursable expenses incurred where goods or services are procured from commercial sources. For services furnished CONSULTANT or its subconsultant or subcontractor from sources within its own facilities, such as computer or reproduction services and the like, COUNTY shall pay CONSULTANT the amounts as determined from the CONSULANT'S or subconsultant's schedule of rates in effect at the time services are

provided. Reimbursable expense shall be understood to included authorized travel including air fare, hotel costs, meals, automobile lease and rental, reimbursed use of private automobiles, commercial services and reproduction, printing, long distance telephone, express mailing, testing apparatus, and incidental expenses. Authorized reimbursable expenses shall require prior written approval by COUNTY. Subsistence expenses when authorized in writing by COUNTY shall be paid at rates set forth in **Table B-3**.

6. Lump Sum Expenses:

Expenses included in Item 5, above, may be considered as Lump Sum Expenses, as identified in each Task. These expenses will not be itemized, and shall be included in each Task as Lump Sum Expenses. Additional expenses may be categorized as Lump-Sum with the COUNTY'S concurrence.

B. Time and Method of Payment

CONSULANT shall submit monthly statements for basic and additional services rendered, and for reimbursable and subsistence expenses incurred. COUNTY shall make payments in response to CONSULTANT'S monthly statements within (30) days of the date of CONUNTY'S receipt of said monthly statements. All disputed or unsupported items shall be returned to the CONSULTANT for correction.

Progress payments to CONSULTANT shall be due and payable monthly in proportion to the percentage of work accepted and approved by the COUNTY.

C. General

Hourly labor billing rates for all CONSULTANT and subconsultant personnel engaged indirectly on the project, including, but not limited to, officers, principals, engineers, architects, survey men, Junior Engineers, draftsmen, specification writers, estimators, other technical personnel, stenographers, typists and clerks, shall be as set forth in **Exhibit B-1**.

Labor Costs shall include, when authorized by COUNTY, overtime at higher than regular rates to the extent defined by U.S. Federal Wage and Hour Law, but services at said overtime rates shall be utilized only when given prior written approval of the COUNTY.

EXHIBIT "B"

SCHEDULE OF PAYMENTS

The Scope of Work to be completed by CONSULTANT as defined in Exhibit "A" consists of specific completion phases which shall be clearly identified on a phase-by-phase basis upon submission to the COUNTY of certain "deliverables"* as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following Schedule of Payments:

PHASE 1

Task(s) to be Completed:

Task I-11-PBI-C-001 PBIA Runway 10L-28R Rehabilitation

Completion Time: 275

Calendar Days Compensation for Phase 1:

Deliverable(s) Required:

\$1,114,342

See Exhibit A for list of deliverables.

Task I-11-PBI-C-002 PBIA Golfview Implementation Planning

Signature Flight Support Development Review

Completion Time: 180

Calendar Days Compensation for Phase 1:

Deliverable(s) Required:

\$46,375

See Exhibit A for list of deliverables.

PHASE 2

Task(s) to be Completed:

Task II-11-DOA-C-001 2012 Environmental Compliance Monitoring, Inspection & Training Services

Completion Time: 13 Months Compensation for Phase 2: Deliverable(s) Required:

\$110,991

See Exhibit A for list of deliverables.

PHASE 3

Task(s) to be Completed:

III-11-DOA-C-001

Miscellaneous Architectural, Planning, Engineering and

Construction Services

Completion Time: <u>TBD</u> Compensation for Phase 3:

\$150,000

Deliverable(s) Required: As required in accordance with specific Task Authorizations.

III-11-DOA-C-002

Miscellaneous Financial Consulting and Capital

Programming Services

Completion Time: <u>TBD</u> Compensation for Phase 3:

\$50,000

Deliverable(s) Required: As required in accordance with specific Task Authorizations.

III-11-DOA-C-003

Miscellaneous Environmental Consulting Services

Completion Time: <u>TBD</u> Compensation for Phase 3:

\$50,000

Deliverable(s) Required: As required in accordance with specific Task Authorizations.

^{* &}quot;Deliverables" shall be defined as progress reports, prepared maps, bid documents, completed drawings, specific reports, work plans, documentation of meetings attended, assessment study reports, analysis reports, summary reports, recommendation reports and related draft reports and <u>verifiable</u> deliverables.

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT B-I

2011 Hourly Billing Rates¹

The following is a summary of the 2011 hourly billing rates by labor category for each of the primary team members associated with the CH2M HILL, Inc. Team. The following hourly billing rates are for used during Calendar Year 2011 and apply to the Palm Beach County Department of Airports General Consulting Services Contract. Overhead and profit is included in these billing rates for the CONSULANT. The manhour salary costs by job title description may be increased at the COUNTY'S discretion.

SCHEDULE OF HOURLY LABOR BILLING RATES

CONSULTANT: CH2M HILL

DESCRIPTION	HOURLY BILLING RATES
Program Manager/Principal/Senior Consultant	\$ 227.34
Sr. Technologist / Sr. Project Manager	\$ 186.51
Project Manager / Design Manager / Task Leader	\$ 145.86
Project Engineer / Planner	\$ 117.05
Staff Engineer / Planner	\$ 96.22
Senior Technician	\$ 102.00
Design Technician	\$ 72.80
Graphics Support / Administrative Manager	\$ 71.24
Administrative Assistant	\$ 60.80
Threshold Inspector	\$ 133.71
Construction Manager	\$ 157.48
Document Control Specialist	\$88.14
Construction Inspector Grade 3	\$87.10
Construction Inspector Grade 4	\$103.84
Project Estimator / Scheduler	\$ 127.51

¹ Hourly billing rates subject to annual increases reflective of the Consumer Price Index as published by the U.S. Bureau of Labor Statistics.

CONSULTANT: A.D.A. ENGINEERING, INC.

DESCRIPTION	HOURLY BILLING RATES
Program Manager/Principal/Senior Consultant	\$235.00
Project Manager/Design Manager/Task Leader	\$216.00
Project Engineer/Planner	\$175.00
Staff Engineer/Planner	\$130.00
Senior Technician	\$ 86.00
Design Technician	\$ 84.00
GIS Specialist	\$130.00
Technical Editor	\$ 96.00
Administrative Assistant	\$ 74.00

CONSULTANT: APPLIED PAVEMENT TECHNOLOGY INC.

DESCRIPTION	HOURLY BILLING RATES
Principal	\$ 240.00
QA QC Administrator	\$170.00
Project Manager	\$200.00
Engineer	\$125.00
Technician	\$70.00

CONSULTANT: BROWN & PHILLIPS, INC.

DESCRIPTION	HOURLY BILLING RATES	
Professional	\$ 125.00	
Survey Technician	\$ 80.00	
CAD Technician	\$ 80.00	
Survey Crew (3 person)	\$ 135.00	
Survey Crew (2 person)	\$ 125.00	
Draftsperson	\$ 65.00	
Clerical	\$ 45.00	

A) FIELD PERSONNEL

3 Man Survey Crew	\$ 135.00
2 Man Survey Crew	\$ 125.00
GPS System	\$ 10.00/hr.

B) OFFICE PERSONNEL

Professional	\$ 125.00
Survey Technician	\$ 80.00
CADD Technician	\$ 80.00
Expert Witness	\$ 250.00

C) REIMBURSABLE EXPENSES

All Terrain Vehicles (airboat, swampbuggy with operator, etc.)
Equipment for clearing, when required
Plats and maps from Courthouse
Aerial Photogrammetry
Soils testing
Mylars for asbuilts
Abstracts of Title Searches of public records

CONSULTANT: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES, INC.

DESCRIPTION	HOURLY BILLING RATES
Environmental Project Manager	\$175.00
Sr. Environmental Scientist VI	\$175.00
Sr. Environmental Scientist II	\$118.00
Senior Environmental Scientist I	\$94.00
Environmental Scientist	\$85.00
GIS Analyst	\$78.00
Environmental Analyst	\$72.00
Administrative Assistant	\$63.00

CONSULTANT: F.R. ALEMAN & ASSOCIATES, INC.

DESCRIPTION		RATES
2 Person Crew Locating & Designating Crew 8 Hour - Day	\$ 1,247.77	Day
3 Person Crew Locating & Designating Crew - Day	\$ 1,468.15	Day
2 Person Survey Crew 8 Hour Day	\$ 885.24	Day
2 Person Survey Crew Hourly	\$ 110.65	Hour
3 Person Survey Crew 8 Hour Day	\$ 1,179.49	Day
3 Person Survey Crew Hourly	\$ 147.44	Hour
4 Person Survey Crew 8 Hour Day	\$ 1,473.74	Day
4 Person Survey Crew Hourly	\$ 184.22	Hour
Ground Penetrating Surveying Services-8 Hour Day	\$ 1,247.77	Day
Ground Penetrating Surveying Services-Hourly	\$ 155.97	Hour
Project Manager	\$ 159.85	Hour
Project Engineer	\$ 142.78	Hour
CADD Technician/Computer Technician	\$ 55.09	Hour
Senior Utility Coordinator	\$ 142.78	Hour
Survey Intern	\$ 93.12	Hour
Surveyor and Mapper	\$ 107.40	Hour
Engineering Technician	\$ 90.40	Hour
Secretary/Clerical	\$ 55.09	Hour
Utility Technician	\$ 69.84	Hour
Utility Coordinator	\$ 97.00	Hour
Underwater Locator	\$ 58.97	Hour

CONSULTANT: HARRIS MILLER MILLER & HANSON INC.

DESCRIPTION	HOURLY BILLING RATES
Supervisory Consultant	\$ 275.00
Principal Consultant/Engineer I	\$ 225.00
Principal Consultant/Engineer II	\$ 200.00
Senior Consultant/Scientist I	\$ 175.00
Senior Consultant/Scientist II	\$ 150.00
Senior Consultant/Scientist III	\$ 130.00
Consultant I	\$ 120.00
Consultant II	\$ 110.00
Consultant III	\$ 100.00
Senior Project Support	\$ 190.00
Project Support	\$ 90.00
Graphics	\$ 100.00
Programmer/Software Support	\$ 175.00
Senior Programmer	\$ 245.00

CONSULTANT: HILLERS ELECTRICAL ENGINEERING, INC.

DESCRIPTION	HOURLY BILLING RATES	
Project Manager	\$ 110.00	
Professional Engineer	\$ 100.00	
Project Engineer	\$ 95.00	
Field Engineer	\$ 95.00	
CADD Technician	\$ 75.00	
Clerical	\$ 45.00	

CONSULTANT: OR COLAN

DESCRIPTION	HOURLY BILLING RATES	
Principal in Charge	\$ 171.22	
Project Manager	\$157.00	
Acquisition/Relocation Agent	\$ 136.64	

CONSULTANT: SOUTHERN RESOURCE MAPPING of MIAMI

Flying Hours from Take off to Landing (Hourly Rate)

\$ 636.54

Black and White, natural color, color infrared aerial film processing, annotating, including one (1) contact print per exposure.

	Black and White	Color	Color (Infrared)
0 to 50 Exposures	\$ 11.73	\$ 20.97	\$ 22.22
51-70 Exposures	\$ 11.28	\$ 19.78	\$ 21.33
71-100 Exposures	\$ 10.63	\$ 18.28	\$ 19.45
101 to 125 Exposures	\$ 9.99	\$ 16.78	\$ 17.59
126 to 150 Exposures	\$ 9.31	\$ 15.33	\$ 16.72
151 to 200 Exposures	\$ 8.87	\$ 14.23	\$ 15.65
201 up to full roll (250' roll)	\$ 8.65	N/A	\$ 15.44

Additional paper contact prints, as required:

	Black and White	Color	Color (Infrared)
Contact Prints 1 (One)		\$ 21.22	\$ 21.75
Contact Prints 2 (Two) or more		\$ 10.34	\$ 9.76

Diapositives:

Black and White Diapositive	(Each)	\$ 13.79
Color Diapositive (Each)	` ,	\$ 21.2

<u>Schedule of Unit Price Fees for Photogrammetric Services:</u>

Digitizing Planimetric Details (CADD Topo Files)

50 feet right and left of Centerline (100' width)/ per mile	\$ 1,763.30
100 feet right and left of Centerline (200' width)/ per mile	\$ 2,724.39
150 feet right and left of Centerline (300' width)/ per mile	\$ 3,525.37
200 feet right and left of Centerline (400' width)/ per mile	\$ 3,877.59
250 feet right and left of Center line (500' width)/ per mile	\$ 4,645.68
300 feet right and left of Centerline (600' width)/ per mile	\$ 5,641.81
Area Digitized Planimetric Details/ per Acre	\$ 86.99

Moderate Planimetric Features:

50 feet right and left of Centerline (100' width)/ per mile	\$ 1,425.85
100 feet right and left of Centerline (200' width)/ per mile	\$ 2,043.72
150 feet right and left of Centerline (300' width)/ per mile	\$ 2,875.04
200 feet right and left of Centerline (400' width)/ per mile	\$ 3,124.35
250 feet right and left of Centerline (500' width)/ per mile	\$ 3,844.70
300 feet right and left of Centerline (600' width)/ per mile	\$ 4,445.17

Read and Compile/Cross Section Terrain Data

Per mile of Cro	ss Sections	50 Ft Interval	100 Ft Interval
50 feet right an / per mile	d left of Centerline (100' width) 14 each	\$ 1,739.88	\$ 875.24
100 feet right a / per mile	nd left of Centerline (200' width) 16 each	\$ 1,983.88	\$ 997.25
150 feet right a / per mile	nd left of Centerline (300' width) 20 each	\$ 2,471.90	\$ 1,241.25
200 feet right a / per mile	nd left of Centerline (400' width) 22 each	\$ 2,715.90	\$ 1,363.26
250 feet right a / per mile	and left of Centerline (500' width) 24 each	\$ 2,965.16	\$ 1,495.87
300 feet right a	nd left of Centerline (600' width) 28 each	\$ 3,469.14	\$ 1,736.69
Per mile Cross Rural Topograp	Sections hic Area (Cross Section)	50 Ft Interval	100 Ft Interval
Rural Topograp		50 Ft Interval \$ 1,246.56	100 Ft Interval \$ 663.06
Rural Topograp 50 feet right and / per mile	ohic Area (Cross Section) d left of Centerline (100' width)		
Rural Topograp 50 feet right and / per mile 100 feet right and / per mile	ohic Area (Cross Section) d left of Centerline (100' width) 14 each nd left of Centerline (200' width)	\$ 1,246.56	\$ 663.06
Rural Topograp 50 feet right and / per mile 100 feet right and / per mile 150 feet right and / per mile	ohic Area (Cross Section) d left of Centerline (100' width) 14 each nd left of Centerline (200' width) 16 each nd left of Centerline (300' width)	\$ 1,246.56 \$ 1,734.57	\$ 663.06 \$ 901.77
Rural Topograp 50 feet right and / per mile 100 feet right and / per mile 150 feet right and / per mile 200 feet right and / per mile	chic Area (Cross Section) d left of Centerline (100' width) 14 each nd left of Centerline (200' width) 16 each nd left of Centerline (300' width) 20 each nd left of Centerline (400' width)	\$ 1,246.56 \$ 1,734.57 \$1,983.88	\$ 663.06 \$ 901.77 \$ 1,029.07

Exhibit B – Detailed Fee, Expenses and Payments (Work Program #1)

B-13

September 2011

/ per mile

28 each

\$ 2,917.48

\$ 1,485.26

Aerial Photography Scanning

Rectified and referenced serial image (TIFF) file/ per image	Black and White \$ 360.71	Color \$ 432.85
Mosaic digital aerial images into continuous (TIFF) file/ per shee	et \$63.66	\$ 76.38
Merging Vector (DGN) with rectified digital aerial imagery Output: single raster (TIFF) file/ per file. Mosaic digital images Into one continuous (TIFF) file/ per sheer	\$286.44	\$343.73
Raster (image) plot file/ per file	\$ 86.99	\$ 103.97
Compact Disc or DVD/ per DVD	\$74.26	\$ 74.26
Miscellaneous Items:		
Aerial analytical triangulation/ per exposure		\$ 90.18

Intermediate delivery of digital Planimetric mapping in final Intergraph IGDS format: includes data translation, formatting to 9 track magnetic tape and shipping charges to customer office/ per delivery

\$ 137.92

CAD services, editing, quality control to the photogrammetric digital files/ per hour

\$ 82.75

CONSULTANT: THE SUN GROUP

DESCRIPTION	HOURLY BILLING RATES
Principal Architect	\$ 165.00
Senior Architect	\$ 115.00
Associate	\$ 85.00
CADD Technician	\$ 65.00
Clerical	\$ 40.00

CONSULTANT: TIERRA SOUTH FLORIDA

DESCRIPTION	HOURLY BILLING RATES
Project Manager	\$165.00
Principal Engineering	\$150.00
Senior Geotechnical Engineer	\$125.00
Project Engineer	\$100.00
Senior Technician	\$75.00
Technician	\$65.00
CADD	\$75.00

DESCRIPTION		UNIT	RATE
SOILS	TESTS		
A.	Compaction and Stabilization		
	Moisture-Density Relationship		
¢	a. Standard or Modified Proctor on Soil	each	\$100.00
	(AASHTO T-99 or T-180, 4" Mold)		
	b. Modified Proctor on Limerock	each	\$125.00
	(AASHTO T-180, 6" Mold)		
В.	Field Density Test (five (5) Minimum	each	\$25.00
C.	Florida Bearing Value Test	each	\$45.00
D.	Limerock Bearing Ratio Test	each	\$275.00
E.	Atterberg Limit Test	each	\$75.00
	1. Liquid Limit Tests (only)	each	\$52.00
	2. Plastic Limit Tests (only)	each	\$33.50
F.	Carbonate Content Test	each	\$100.00
G.	Organic Content Test	each	\$35.00
Н.	D.O.T. Corrosivity	each	\$185.00
1.	Soil Observation (on Site)	hour	\$55.00
J.	Natural Sample Moisture Content	each	\$10.00
K.	Unit Weight and Moisture Content (Undisturbed Sample)	each	\$50.00
L.	Grain-Size Analysis – Full Gradation	test	\$65.00
M.	Grain-Size Analysis – Single Sieve	test	\$35.00

Exhibit B – Detailed Fee, Expenses and Payments (Work Program #1)

B-15

September 2011

***************************************		Palm Beach County D	epartment of Airports
N.	Laboratory CBR + Sampling	test	\$500.00
Ο.	Grain-Size with Hydrometer	test	\$115.00
CONC	RETE & MASONRY MATERIALS		
A.	Concrete Compression Test (Min four (4) cylinders per		
	Prepare cylinders & slump test on site & deliver to lab	set	\$140.00
В.	Additional Concrete Cylinders	each	\$18.00
C.	Concrete Compression test only (deliver to lab)	each	\$18.00
D.	Slump Test	each	\$10.00
E.	Air Content Test	each	\$15.00
F.	Stand-by	hour	\$55.00
G.	Grout Prism (Six (6) per set)		
	Includes preparation of Prism on site	set	\$80.00
Н.	2" x 2" Mortar Cubes (Six (6) per set)		
	Includes preparation of Cubes on site	set	\$80.00
1.	Additional Mortar Cubes	each	\$18.00
J.	Masonry Units		
	1. Compressive Strength	unit	\$80.00
	2. Absorption	unit	\$50.00
K.	Concrete Cores (Min 3)		
	1. Secure, Trim & Test	core	\$80.00
	2. Testing of Core (deliver to lab (incl. trim))	core	\$50.00
L.	Swiss Hammer Testing	hour	\$55.00
M.	Windsor Probe Test (Min 3 shots)	test	\$150.00
N.	Additional Windsor Probe Tests	test	\$100.00
AGGR	EGATE TESTING		
A.	Grain Size determination		
	1. Full grain size (8 sieves)	test	\$75.00
	2. Wash Through (#200)	test	\$45.00
B.	Sieve Analysis – Coarse Aggregate	test	\$45.00
C.	Specific Gravity & Absorption of Fine or Coarse Aggreg	ate test	\$70.00
ASPH	ALT TESTING		
A.	Asphalt Cores (Obtaining core samples)	each	\$225.00
В.	Asphalt Extraction & Gradation	test	\$150.00
C.	Asphalt Density & Thickness	test	\$25.00
D.	Marshall Stability (incl. density, flow & stability of 3 spec \$150.00	simens)(50 blows) test	
E.	Coring Machine plus Generator Rental	trip	\$400.00

Exhibit B – Detailed Fee, Expenses and Payments (Work Program #1)

B-16

September 2011

INSPECTION SERVICES A. Concrete Inspection (on job-site or plant) hour \$70.00 B. Pile Driving Inspection hour \$70.00 C. Pre-Stressed Yard Inspection hour \$70.00 D. Steel Inspection hour \$70.00 E. Threshold Inspection hour \$70.00 FIELD EXPLORATIONS A. Auger Borings feet \$9.00 B. Hand Augers hour \$110.00 C. Standard Penetration Tests - Truck 1. 0' - 50' \$12.00 (day) feet 0' - 50'feet \$18.00 (night) 2. 51' - 100' feet \$14.00 (day) 51' - 100' feet \$21.00 (night) D. Grout Bore Holes 1. 0' - 50' feet \$5.50 (day) 0' -- 50' feet \$6.75 (night) 2. 51' - 100' feet \$6.50 (day) 51' - 100' feet \$8.25 (night) E. Casing 1. 0' - 50' feet \$7.00 (day) 0' - 50'\$8.50 (night) feet 2. 51' - 100' feet \$9.00 (day) 51' - 100' feet \$10.50 (night) F. Percolation Test test \$275.00 G. Muck Probing (4 hour min) hour \$100.00 Mobilization of drilling equipment to project (Min. Charge) Lump Sum \$350.00 Support Vehicle day \$150.00 J. **Double Ring Infiltration Test** test \$500.00 Field Permeability Test test \$275.00 Field CBR (Kessler Method) each \$300.00

CONSULTANT: URBAN DESIGN KILDAY STUDIOS

DESCRIPTION	HOURLY BILLING RATES
Professional Testimony & Representation	\$260.00 / hour
Principal	\$145.00 / hour
Project Manager	\$120.00 / hour
Licensed Landscape Architect	\$110.00 / hour
Urban Planner	\$85.00 / hour
Landscape Designer	\$85.00 / hour
CADD Technician	\$60.00 / hour
Clerical	\$50.00 / hour

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT B-II

Schedule of Payments

The scope of work to be completed by CONSULTANT as defined in Exhibit "A" consists of specific completion phases which shall be clearly identified on a phase-by-phase basis upon submission to the COUNTY of certain "deliverables"* as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following schedule of payments.

PHASE 1

Tasks to be completed:

All Level 1 and Level 2 tasks prescribed herein as Work Program #1.

Completion Time:

13 Months from issuance of Notice to Proceed (NTP).

Compensation for Phase 1:

Total of \$1,271,708 (excludes Level 3 tasks) to be paid incrementally by the Palm Beach Department of Airports (DOA) on a monthly basis

to reflect the actual level of effort performed to date.

Deliverable(s) required:

In addition to the final and interim deliverables prescribed in Exhibit A-1, monthly progress reports will be submitted by the

CONSULTANT to the DOA.

* "Deliverables" shall be defined as progress reports, prepared maps, bid documents, completed drawings, specific reports, work plans, documentation of meetings attended, assessment study reports, analysis reports, summary reports, recommendation reports and related draft reports and verifiable deliverables.

Schedule of Subsistence and Reimbursable Expenses

The following unit prices are used in the Contract for Calendar year 2011. Adjustments for subsequent years will be based on Federal rates at the current time of the written task and authorization.

Air Travel^{1/}

At Coach/Economy Cost

Based on appropriate City-Pair

Per Diem

\$95/Day

Based on a quarter period (6 hours), no receipts.

OR:

Hotel Lodging

\$130.00 per person per day

Based on 2011 Federal Per Diem

Subsistence

\$40.00 per person per day

Breakfast:

\$6.00

Lunch:

\$12.00

Dinner:

\$22.00

Based on 2011 Palm Beach County Policies and Procedures Manual Travel – PPM# CW-F-009

Rental Car

\$48.75 per car per day

Based on 2011 Hertz Rental Rates

Personal Auto

\$0.51 per mile

Based on 2011 Palm Beach County Policies and Procedures Manual Travel – PPM# CW-F-009

(IRS Standard Rate Beginning 01/01/2011)

Overnight Delivery

Outside Reprographic Services

At Cost At Cost

Persons must specify the most economical method of travel. All travel must be by a usually traded route. If a person travels by an indirect route for personal convenience, any extra cost(s) will be at the traveler's expense. Commercial air travel by the most economical class. Other carrier rates paid only if a statement is attached certifying that tourist or coach was not available at a reasonable flight time.

Source: 2011 Palm Beach County Policies and Procedures Manual Travel – PPM # CW-F-009 Prepared by: CH2M HILL, Inc.

Prepared by: CH2M HILL, Inc

EXHIBIT "B"

DETAILED FEES & EXPENSES

TASK I-11-PBI-C-001

PBIA RUNWAY 10L-28R REHABILITATION

Exhibit B Labor/Fee Estimate Summary - Runway 10L-28R Rehabilitation

	_						La La	abor Estimate (Hour	s)						Fee Esti
Negoription		Program Manager / Principal / Senior Consultant	Senior Technologist / Senior Project Manager	Project Manager / Design Manager / Task Leader	Project Engineer / Planner / Associate Project Manager	Staff Engineer / Planner	Senior Technician	Design Technician	Graphics Support / Administrative Manager	Admin.	Threshold Inspector	Construction Manager	Project Estimator / Scheduler	Total Labor Hours	Total
sk No I-11-PBI-C-001 Program Planning and Preliminary Design Services (Phase 1)	Total		48	128	261	164	23	142	40	26				842	5 1
.01 Client Kick-off and Airline Station Managers Meeting PowerPoint Presentation		0	7	4	8	0		8	12			d	0	32	5
1.02 Client Kick-off Meeting, Agenda and Minutes (1)		ŏ	2	4	8	ă	ă	ñ	0	2	0	0	0	32 16	Š
.03 Team Chartering / Kick-off Meeting, Agenda and Minutes (1)		ā	2	,	ā	,	ă	2	0	-	ň	ŏ	ň	14	š
04 Field Services (Programming and Coordination)		ō	ō	- 4	a a	-	ř	16	č	7		•	č	40	Š
75 Field Coordination Meetings, Agenda and Minutes (2)		ň	č	Ž.	ě	ŏ	ň	10	•	7	2			16	
76 Airline Station Managers Meeting, Agenda and Minutes (1)		ň	š	Ž.	ě		ň	ů	č	*		•			5
7 FAA Salety Management Systems (SMS) Workshop at DOA Office (1)		ž	-	7	7	,	Š	ŭ	•			U	Ü	16	\$
		-	2	:	36		u .	Ů.	Ů.	0	0	Ü	0	12	\$
8 Perform a maximum of Ten (10) Project Site Investigation Visits		v		a	36	36	U	U	0	0	0	0	0	88	\$ 1
Preliminary Design Narrative Report and Exhibits:					_										
Design and Construction Schedule		· O	1	2	2	4	0	0	0	4	0	0	0	13	\$
Preliminary Design Studies		0	2	4	8	14	4	24	0	٥,	0	0	0	56	\$.
Grading, Paving, Drainage and Utility Concepts		0	8	2	10	16	2	16	0	0	. 0	0	0	54	\$
Maintenance of Traffic (MOT) and Safety Plans		0	1	4	12	8	4	12	0	0	0	0	0	41	\$
Work Staging Plan		0	1	4	8	4	0	8	C	0	0	0	0	25	Š
Preliminary Outline Specifications		0	1	2	4	6	0	0	0	ō	ó	ō	ō	13	š
Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget				-		-	•	-	-	•	•	•	•	15	•
Estimate (5 max.)		0	2	4	36	24	0	16	n	0	0	a		86	\$
Construction Phasing Alternatives Analysis		ŏ		Ř	24	8	ř	,,	č	ŏ	0	0	0	44	
Data Collection, Records Research, Review and Coordination:		٠	7	. •	4.4	•	·	·	v	U	U	U	U	44	\$
Data Conscious, Records Research, Review and Couronation.															
2011 Taxiway L Extension Construction Documents prepared by The LPA		•	•	•	4	•			•	_	_	_	_	_	_
Group		U	U	U	4	2	1	2	ប	0	0	0	0	9	\$.
2011 Taxiway C4 High-Speed Exit 100% Design Documents prepared by The		_	_	_	_										
LPA Group		0	0	0	. 2	1	1	2	0	0	0	0	0	6	\$
2010 Taxiway D High-Speed Exit Record Documents prepared by The LPA															
Group		0	0	G	2	1	1	2	0	0	0	0	0	6	\$
2011 Fiber Optic Transmission System (FOTS) Construction Documents											-			•	-
prepared by URS Corporation in association with the FAA		0	0	0	4	2	1	2	0	n	0	0	n	9	•
2011 Taxiway F Extension Record Documents prepared by CH2M HILL		ō	ā	ō	2	ī	i	2	ő	ň	Ö	,	o o	-	7
2011 Misc. Airfield Pavement Repairs and Rehabilitation Record Documents		•	•	•	-	•	•	•	•	٠	v	u	v	9	•
			n		,			4	•	•				_	_
prepared by CH2M HILL		U	U	u	2	1	1	1	U	0	0	0	0	5	\$
2001 Runway 9L-27R Improvements Record Documents prepared by CH2M															
HILL		U	0	U	4	2	1	4	0	0	0	0	0	11	\$
2011 Runway 14-32 Engineered Materials Arresting System (EMAS)															
Construction Documents prepared by The LPA Group		0	0	0	1	1	1	1	0	0	0	0	0	4	\$
2009/2010 Runway 14-32 Rehabilitation Record Documents prepared by The															*
LPA Group		0	0	0	4	2	1	2	0	a	a	0	0	q	•
2010 Airfield Lighting Controls Systems Upgrade Construction Documents		-				-		-	-	-	•	•	•	,	•
prepared by The LPA Group		0	n	0	2			,		•	•	•	•		
2010/2011 Signage and Marking Master Plan prepared by The LPA Group		0	ň	ŏ	•		:	2	0	Ü	Ü	U	0	5	ă .
		,		0	2	1	,	٤	U	Ü	O .	0	0	6	\$
2011 Fleet Mix and Airport Operational Data (Noise Abatement Report)		U	u	U	2	1	0	0	0	a	0	0	0	3	\$
2010 PBIA Annual Airports Pavement Evaluation prepared by Ricondo &		_	_	_		_									
Associates		0	0	C C	4	2	1	2	0	0	0	0	0	9	\$
Florida Department of Transportation (FDOT) Pavement Management System															
Documents		0	0	0	4	2	1	2	O	0	σ	o	0	9	\$
Client Submittal Review Meeting, Agenda and Minutes (1)		0	0	4	8	0	0	0	0	2	. 0	ŏ	ō	14	\$
Disadvantage Business Enterprise (OBE) Reporting		0	0	2	4	2	0	ò	à	2	ō	Ď.	ŏ	10	\$
Task Management		Ö	ó	36	0	ō	ō	ŏ	24	- -	ň	ň	ň	64	Š
Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Consultants, and other		-	-				•	•		-	٠	v	v	04	•
Interested project Stakeholders)		0	a	16	20	12	0	14		0	0	0	•	••	
Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control		2	12	~ B	20	0	0 .	0	4	Ů,			0	62	\$ (
Expenses (Travel, Mailings and Reprographics)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U 41/4	0	0	2	28	\$ 4
		4	48	128	261	164	23	142	N/A 40	N/A	N/A	N/A	N/A	N/A	\$ 4
			772	150				174		26	D	<u>v</u>		842	5 97
Phase 1 Total											6				\$ 6
	Total	Α΄	50	£1	125	110						0	A		\$ 61
gn Development (Phase 2 - 30% Design)	Total	4	50	61	125	118	0	133	22	22				543	
gn Development (Phase 2 - 30% Dealgn) 30% Cover	Total	4	50	61	125	118 0	0	133	0	0	0	ő	ő	1	\$
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21	30% Sheet Layout Plan			٥		2	0		•	_	_	_		
2.1	30% Demolition Plans	ň	n	ů	2	2	0	4	0	0	0	0	0 5	\$ 455.09
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2.1		ō	6	ō	8	12	ŏ	12	a	^	ň	0	0 38	\$ 1,387.89 \$ 4,083.70
2.1	30% Runway and Taxiway Profiles	0	2	0	8	10	Ō	6	0	ŏ	ň	ŏ	0 26	\$ 2,708.42
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2.2		0	0	0	1	4	0	4	0 .	0	0	0	0 9	\$ 793.13
	30% Engineer's Report	0	4	8	20	18	0	4	0	8	0	0	0 62	\$ 6,763.48
2.4	30% Project Schedule 30% Technical Specifications Outline	0	1	1	2	0	0	0 (9 :	2	0	0	2 6	\$ 943.09
	30% Project Construction Cost Budget Estimate	0	1	2	2	u .	0	0 (2	0	0	0 5	\$ 542.21
22	Project Team Coordination Meetings, Agenda and Minutes (2)	0	2	2	,	•	0	8 (3	0	0	4 25	\$ 2,657.85
2.2	Refined Construction Phasing Alternatives Analysis	0	4	2	8	6 .	n	0 (5	0	0	0 16	\$ 1.738.18
2.2		ò	0	2	Ä	6	0	0	,			0	0 20	\$ 2,551.48 \$ 1,947.92
2.2	Airline Statlon Managers Review Meeting, Agenda and Minutes (1)	0	2	4	8	ō	ō	0 1	· .	;	n	0	0 16	\$ 1,947.92 \$ 2.014.46
2.3	Client Review Submittal Meeting, Agenda and Minutes (1)	0	2	4	8	Ö	ō.	o d		2	n	ň	0 16	\$ 2,014.46
2.3	Task Management	0	0	20	0	0	0	0 1	6 4	1	Ō	ō	0 40	\$ 4,300.24
	Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Consultants, and other													• .,
2.3		0	2	8	14	6	0	6 (,)	0	0	0 36	\$ 4,192.72
	Task Independent Technical Review (ITR) – Quality Assurance / Quality Control Expenses (Travel, Mailings and Reprographics)	N/A	12 N/A	N/A	4 N/A	N/A P		0	• (0	2 34	\$ 5,322.54
CH2M HII	L Phase 2 Total	4	50	61				I/A N/					WA N/A	\$ 3.040.00
Citata in	- F. Mare & Total			<u> </u>	145	1 148	· · · · · · · · · · · · · · · · · · ·	<u> </u>	23	2	0	0	8 543	\$ 61,764.89
3.0 Co	tract Documents (Phase 3A - 60% Design) Total	4	54	81	161	162	0 1	71 6	5				7 595	\$ 78,108,56
	60% Cover	a	0	0	0	0	0	1				<u> </u>		
	60% Drawing Index	ō	ō	ō	å	1	ŏ	,	, ,			0	0 1	\$ 72.80
3.0	60% Summary of Quantities (Base Bid and Bid Alternate No. 1)	ō	Ö	ē.	ō	2	ō	4 6	i	í		0		\$ 241.82 \$ 483.64
3.0	60% General, Safety, and Security Notes	0	0	0	Ó	2	Ö	2 0			,	n	0 4	\$ 338.04
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		0	0	0	0	2	0	4 0		١) ()	0 6	\$ 483.64
3.11	60% Overall Phasing, Staging and Haut Route Plan	U	2	u	O .	4	0	8 0		' ') ()	0 14	\$ 1,340.30
3.1	60% Construction Phasing Plans, Details and Conceptual Construction Schedule	0	2		•							_		
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3.13		0	2	å	2	4	,	4 0		,			0 26	\$ 2,484.58 \$ 1.283.20
3.14	60% Sheet Layout Plan	0	0	0	ī	1	o .	2 1		,			0 12	
3.14 3.15	60% Sheet Layout Plan 60% Demolition Plans	0	0	0	1 2	1 2	0	2 0		(,)	0 4	\$ 358.87
3.15 3.10	60% Demolition Plans 60% Paving and Geometry Plans	0 0 0	0 0 2	0 0 0	1 2 2	1 2 10	0	2 0 4 0 8 0	0	()))	0 4 0 8	\$ 358.87 \$ 717.74
3.15 3.16 3.17	60% Demolition Plans 60% Paving and Geometry Plans 60% Grading and Drainage Plans	0 0 0	0 0 2 .8	0 0 0 0	1 2 2 18	1 2 10 24	0 : 0 : 0 :	2 0 4 0 8 0	0	6			0 4 0 8 0 22	\$ 358.87 \$ 717.74 \$ 2,151.72
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3.14 3.11 3.11 3.11 3.12 3.22 3.22 3.22 3.22	80% Demoition Plans 80% Caroling and Geometry Plans 80% Caroling and Geometry Plans 80% Caroling and Torkinage Plans 80% Caroling and Torkinage Plans 80% Airfield Marking and Sigrage Plans 80% Airfield Marking Details 80% Airfield Marking Details 80% Rouway Grooving Plan and Details 80% Rouway Grooving Plan and Details 80% Engineer's Report 80% Project Construction Costs 90% Project Construction Costs 90% Project Construction Costs 90% Project Construction Plansking Margares and Minutes (2) Referred Construction Phasking Margares ProverProject Team Coordination Meetings, Agenda and Minutes (1) Referred Construction Phasking Mineratives Analysis Upctated Client and Airfine Station Managers ProverProject and Minutes (1) Certification of Plansking Meeting, Agenda and Minutes (1) SPKMID Water Lab Permit Prophication Meeting, Agenda and Minutes (1) SPKMID Water Lab Permit Prophication Meeting, Agenda and Minutes (1) SPKMID Water Lab Permit Prophication Meeting, Agenda and Minutes (1) SIAM Management Task Coordination (FAA ATCT, DOA Operations, SPWMO, Consultants, and other Interested project Stakeholders) Task Management Task Coordination (FAA ATCT, DOA Operations, SPWMO, Consultants, and other Interested project Stakeholders) Task theopendent Technical Review (TR) - Oually Assurance / Quality Control Expenses (Travel, Mailings and Recrographics) Task theopendent Technical Review (TR) - Oually Assurance / Quality Control Expenses (Travel, Mailings and Recrographics) Phase 2 A Total 30% Covert 90% Dirawing Index 90% Summany Quantifies (8ase Bid and Bid Alternate No. 1) 90% General, Salety, and Security Notes 90% Summany Quantifies (8ase Bid and Bid Alternate No. 1) 90% General, Salety, and Security Notes 90% Summany Quantifies (8ase Bid and Bid Alternate No. 1) 90% General, Salety, and Security Notes 90% Summany Quantifies (8ase Bid and Bid Alternate No. 1) 90% General, Salety, and Security Notes 90% Summany Grooving Loza		0 12 N/A 54	32 4 8 N/A 61	15 2 2 1 1 8 20 2 2 2 2 4 6 4 8 8 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 4 4 2 2 4 4 16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6) (/A N	1 4 N/A 71 6	0 0 0 N// 52	0 0 0 0 0 0	Λ N/.	A N	0	\$ 358.87 \$ 717.74 \$ 2,151.72 \$ 8,820.06 \$ 5,820.04 \$ 1,201.38 \$ 600.69 \$ 1,756.00 \$ 615.52 \$ 2,247.25 \$ 2,247.25 \$ 2,214.46 \$ 2,014.46 \$ 3,004.00 \$ 3,004.
3.14 3.11 3.11 3.22 3.22 3.22 3.22 3.23 3.23	80% Demoiltion Plans 80% Caroling and Geometry Plans 80% Caroling and Geometry Plans 80% Caroling and Trailway Profiles 80% Airlied Marking and Tawlway Profiles 80% Airlied Marking Caroling 80% Airlied Marking Details 80% Airlied Marking Details 80% Cross Section Layout Plan 80% Engineer's Report 80% Engineer's Report 80% Engineer's Report 80% Engineer's Report 80% Project Construction Core Budget Estimate Project Team Coordination Meestings, Agenda and Minutes (2) Refined Construction Core Budget Estimate Project Team Coordination Meestings, Agenda and Minutes (2) Refined Construction Phasiby Ailstmatives Analysis Updated Client and Airlien Station Managers PowerPoint Presentation Airline Station Managers Review Meeting, Agenda and Minutes (1) SEWMD Water Schmitzlal Meeting, Agenda and Minutes (1) SEWMD Construction ERP Pre-Application Meeting, Agenda and Minutes (1) SEWMD Must Lus Permit to Dewatering Operations Pre-Application Meeting, Agenda and Minutes (1) Task Management Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Consultants, and other Interested project Stakeholders) Task Independent Technical Review (1TR) — Oualty Assurance / Quality Control Expenses (Toward Mailings and Frecognatives) Task Independent Technical Review (1TR) — Oualty Assurance / Quality Control Expenses (Toward Mailings and Frecognatives) Task Stopping Index 30% Survivey Control Plan 30% Boring/Coning Logs 30% Survivey Control Plan 30% Boring/Coning Logs 30% Survivey Control Plan 30% Boring/Coning Logs 30% Survivey Control Plan		0 12 N/A 54	32 4 8 N/A 61	15 2 2 1 1 8 20 2 2 2 2 4 6 4 8 8 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 4 4 2 2 4 4 16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6) (/A N	1 4 N/A 71 6	0 0 0 N// 52	0 0 0 0 0 0	Λ N/.	A N	0 4 8 0 2 2 8 0 0 8 6 0 14 0 7 0 18 0 0 16 0 16 0 16 0 16 0 16 0 16 0	\$ 358.87 \$ 717.74 \$ 2,151.72 \$ 8,829.06 \$ 5,853.64 \$ 1,201.38 \$ 600.69 \$ 600.69 \$ 600.69 \$ 6,971.04 \$ 815.58 \$ 6,942.72 \$ 2,657.85 \$ 1,756.08 \$ 1,756.08 \$ 6,942.72 \$ 2,657.85 \$ 1,756.18 \$ 3,128.80 \$ 1,755.49 \$ 2,014.46 \$ 201.72 \$ 291.72 \$ 291.72 \$ 291.72 \$ 5,883.52 \$ 2,242.76 \$ 5,322.54 \$ 3,950.00 \$ 75,108.68 \$ 1,200.00 \$ 5,750.86 \$ 3,150.86 \$

4 12	90% Maintenance of Traffic Plans	•	2	٨		R	•	12	•	•			0	26	A 5710.00
	90% Typical Sections and Details		2	Ď	2	4	ŏ	4	ŏ	o o	0	0	0	28 12	\$ 2,718.68 \$ 1,283.20
	90% Sheet Layout Plan	ō	ō	ō	1	i	ŏ	2	ő	ŏ	ő	ň	ŏ	4	\$ 358.87
	90% Demolition Plans	ō	ō	ē	2	4	ō	4	ŏ	ō	ŏ	ň	ň	10	\$ 910.18
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4.17		0	4	0	28	36	0	40	0	ò	o ′	ō	ō	108	s 10,399,36
	90% Runway and Taxiway Profiles	a	4	0	16	20	0	14	0	0	٥	0	o	54	\$ 5,562.44
4.19	90% Airfield Marking and Signage Plans	a	0	0	2	4	0	8	0	0	0	0	0	14	\$ 1,201.38
4.20	90% Airfield Marking Details	0	0	0	1	2	0	4	0	0	0	0	0	7	\$ 600.69
4.21		0	0	0	1	2	0	4	0	0	0	0	0	7	\$ 600.69
4.22 4.23	90% Cross Section Layout Plan	0	0	0	2 24	4 42	0	4	0	0	o o	0	0	10	\$ 910.18
	90% Runway 10L-28R Cross Sections 90% Taxiway Connector Cross Sections	ų.	2	u o	24	42 32	10	66 48	0	0	0	0	0	144	\$ 13,048.26
4.24	90% Runway 14-32 Cross Sections	Ž.	-	ŭ	8	10		48 18	ů	0	0	Q	0	116 42	\$ 10,944.68
4.25	90% Engineer's Report	ž	7	ě .	20	16	*	4	0	Ů	v v	0	0		\$ 3,990.02
	90% Project Schedule	ž	•	1	20	0	,	. 0	0	9		0	0	60	\$ 6,571.04
4.28	90% Project Manual (Front Ends and FAA General Provisions)	ň	,	12	18	6	ŏ		, i	20	ŭ		,	8 62	\$ 1,002.09 \$ 6,308.52
4.29		ă	2	8	12	ŏ	ň	ň	ň	0	ň	ŏ	v	22	\$ 2,944.50
4.30	Develop Back-up/Emergency Equipment Bid Form and Contingency Plan	ō	1	2	8	4	ŏ	ō	ŏ	2	ă	ň	ň	17	\$ 1,921,11
4.31	90% Technical Specifications	0	4	6	24	14	Ó	ō	ō	16	ō	ō	Ď	64	\$ 6,750.28
4.32	90% Project Construction Cost Budget Estimate	a	1	2	8	4	C	8	0	0	0	ŏ	2	25	\$ 2,636,93
4.33	Project Team Coordination Meetings, Agenda and Minutes (2)	0	2	2	4	2	0	4	0	2	0	0	0	16	\$ 1,738.18
4.34	Updated Client and Airline Station Managers PowerPoint Presentation	0	0	2	8	4	0	0	2	0	0	0	σ	16	\$ 1,755.48
	Airline Station Managers Review Meeting, Agenda and Minutes (1)	0	2	4	8	0	0	0	0	2	0	0	0	16	\$ 2,014.46
4.36	Client Review Submittal Meeting, Agenda and Minutes (1)	0	2	4	8	0	0	0	0	2	0	0	0	16	\$ 2,014.46
	SFWMD Construction ERP Application Submittal Review Meeting, Agenda and	_	_		_	_									
4.37	Minutes (1)	0	0	1	0	0	0	0	0	0	0	0	0	1	\$ 145.86
	SFWMD Dewatering Permit Application Submittal Review Meeting, Agenda and		0	1	0	0				_	_				
4.38	Minutes (1) FWC Burrowing Owl Permit Application Submittal Review Meeting, Agenda and	U	U	1	U	U	o o	0	Q	0	a	0	0	1	\$ 145.86
4.39	Minutes (1)	0	0	1	0	0	0	0	0	0		_	_		
4.40	PBIA Signage and Marking Master Plan Drawing Updates	0	ŏ	'n	Ä	ž	4	20	ů	0		0	0		\$ 145.86
4.41	Task Management	ů	ŏ	40	ő	7	å	0	20	28	ů,	ů.	0	36	\$ 3,185.28
4.41	Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Consultants, and other	•	U	40	· ·	v	U	U	20	26	U	o	0	88	\$ 8,961.60
4.42		0	0	4	8	6	0	,	D	a	n	0	0	20	
4.43	Task Independent Technical Review (ITR) - Quality Assurance / Quality Control	Ă	12	8	4	å	ő	ō	4	å	ň	0	2	34	\$ 2,242.76 \$ 5,322.54
	Expenses (Travel, Mailings and Reprographics)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 4.130.00
CH2M HILL	Phase 3B Total	4	58	106	263	258	26	320	30	62	0		5	1,152	\$ 120,635,36
															<u> </u>
5.0 Cont	act Documents (Phase 3C - 100% Design)	Total 2	40	74	149	155	10	169	26	52	0	0	4	581	\$ 73,040.35
	100% Cover		0												
5.01		v	0	0	O O	0	0	1	0	0	0	0	0	1	\$ 72.80
5.02	100% Drawing Index	ő	0	0	0	0	0	;	0	0	0	0	0	1	\$ 72.80 \$ 72.80
5.02 5.03	100% Drawing Index 100% Summary of Quantitles (Base Bld and Bld Alternate No. 1)	0	0	0	0	0 0 1	-	1 1 2	0	0 0 0				1 1 3	\$ 72.80 \$ 241.82
5.02 5.03 5.04	100% Drawing Index 100% Summary of Quantitles (Base Bld and Bid Alternate No. 1) 100% General, Safety, and Security Notes	0			0	0 0 1 0	-	1 1 2 1	0	0 0 0		ō	ō	1 1 3 1	\$ 72.80 \$ 241.82 \$ 72.80
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5.02 5.03 5.04 5.05 5.06	100% Drawing Index 100% Summary of Cluantities (Base Bid and Bid Alternate No. 1) 100% General, Salety, and Security Notes 100% Survey Control Plan 100% Borling/Coing Location Plan	0 0 0	0 0 0 0	0 0 0 0	0	0 0 1 0	-	1 1 2 1 1	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	ō	0 0 0	1 1 3 1 1	\$ 72.80 \$ 241.82 \$ 72.80 \$ 72.80 \$ 72.80
5.02 5.03 5.04 5.05 5.06 5.07	100% Drawing Index 100% Summany O'Quantiles (Base Bid and Bid Alternate No. 1) 100% General, Selety, and Security Notes 100% Survey Control Plan 100% Boring/Coring Location Plan 100% Boring/Coring Logation Plan 100% Boring/Coring Logation Plan	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	-	1 1 2 1 1 1	0 0 0 0	0 0 0 0 0	0 0	0 0 0 0 0	0 0 0 0	1 3 1 1	\$ 72.80 \$ 241.82 \$ 72.80 \$ 72.80 \$ 72.80 \$ 72.80
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5.02 5.03 5.04 5.05 5.06 5.07 5.08 5.09	100% Drawing Index 100% Summany O'Quanifles (Base Bid and Bid Alternate No. 1) 100% General, Safety, and Security Notes 100% Survey Control Plan 100% Boring/Coring Location Plan 100% Boring/Coring Location Plan 100% Boring/Coring Location Plan 100% Boring/Own Management Plan	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0	0 0 0 0	0 1 0 0 0 0 0 1 2	-	1 2 1 1 1 1 2 2	0 0 0 0 0 0	0 0 0 0 0 0	0 0	0 0 0 0 0	0 0 0 0	1 3 1 1 1 1 4 3 7	\$ 72.80 \$ 241.82 \$ 72.80 \$ 72.80 \$ 72.80 \$ 72.80 \$ 72.80 \$ 72.70
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	Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Consultants, and other															
5.40		0	0	,	4	4		,	•	•	^	•	•	40		1,290,40
5.41		,	Ä	- R	4	7	ň			,	,	•	ŭ	28	•	4,121.82
	Expenses (Travel Mullings and Reprographics)	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A	N/A	AUA		2	N/A	,	3,130.00
CH2M HIL	. Phase 3C Total	2	40	74	149	155	10	169	26	52	0	0	4	681		73,040.35
	and Award of Contract (Phase 4)	Total 0		28	64	36	0	12	8	85	0			241	3	31,932.60
6.01	Assist DOA in advertisement and processing of Bid Documents Print and Distribute a maximum of thirty-five (35) sets of Bidding Documents to prospective Bidders and Plan Offices (McGraw-Hill Dodge, Construction Journal,	0	0	2	8	4	0	0	2	8	0	. 0	0	24	\$	2,241.88
6.02	Reed Construction Data, and iSqFt Plan Room)	0	0	0	8	8	0	0	0	15	0	0	0	31	\$	2,618.16
6.03	Processing of Bidders deposits (payment) associated with costs for 8id Documents	. 0	0	0	0	0	0	0	4	12	0		•	. 16		1,014,56
6.04	Maintain a record of Plan Holders	0	0	0	0	0	Ó	o	Ó	15	o o			15		912.00
6.05	Updated PowerPoint Presentation	0	. 0	2	8	4 .	a	0 .	2	Ô	ō	ō	ň	16	š	1,755.48
	Attend a maximum of one (1) Pre-Bid Conference and Site Visit (Prepare Agenda								_	_	-	_	•	,,,	•	1,, 00.10
6.06	and Meeting Minutes)	0	0	. 4	8	0	0	0	0	4	a	0	٥	16		1,763.04
6.07	Respond to Contractor Requests for Information (RFIs)	0	2	4	8	8	0	4	ō.	i i	ō	ŏ	ň	30	ï	3,197.02
6.08	Prepare and Issue a maximum of two (2) Addendum	0	2	4	8	4	0	8	Ö	8	ŏ	ŏ	ň	34	\$	3,346.54
6.09		O	0	2	2	O	0	0	ō	Ď	ō	ŏ		4	š	525.82
6.10	Review and Evaluate Bid Tabulation and Bid Forms	0	2	4	10	6	0	. 0	ō	15	ŏ		ň	37	š	3,616,28
6.11	Disadvantage Business Enterprise (DBE) Reporting	0	. 0	2	4	2	0	0	Ó	2	ō	ō	ň	10	š	1.073.96
6.12	Prepare a Recommendation of Award Letter	0	2	4	0	0	0	0	ō	2	ă	ŏ	ň	8	š	1,078.06
6.13	Expenses (Travel, Mailings and Reprographics)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ě	8.790.00
CH2M HILI	. Phase 4 Total	0		28	64	36	0	12	8	85		0		241	- ;	31,932.80
												· · · · · · · · · · · · · · · · · · ·				
CH2M HILI	Grand Total Lump Sum Fee	18	258	478	1,023	893	59	947	132	319			30	4,157		463,203,17

Subconsultant Fee:

Total Subconsultant Lump Sum Fee - Cyriacks Environmental Consulting Sen	rices LS	\$13,008.50
Total Subconsultant Time & Materials Fee - Brown & Phillips Surve	eying T&M	\$49,912.50
Total Subconsultant Lump Sum Fee - Southern Resource Mapping of M	tiami LS	\$172,873.57
Total Subconsultant Lump Sum Fee - ADA Engine	ering LS	\$146,800.00
Total Subconsultant Time & Materials Fee - F.R. Aleman & Associ	ates T&M	\$11,981.05
Total Subconsultant Time & Materials Fee - Tierra South Fig	orida T&M	\$40,745.00
Total Subconsultant Lump Sum Fee - Hitlers Electrical Enginee	ering LS	\$145,150.00
Total Subconsultant Lump Sum Fee - Applied Pavement Techno	logy LS	\$70,668,00

Subconsultant Grand Total	3651,139	
Total Fee - Basic Engineering Services	\$1,114,342	
LS	\$1,011,703	
Tam	\$102,639	
Total	\$1 114 342	

Prepared by: CH2M HILL, INC.



July 10, 2011 (Rev #2)

Dan C. Tompkins, P.E. Project Manager CH2M HILL, INC. 3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410

Re:

PBC DOA

Airports General Consulting Services Contract

Runway 10L-28R

Burrowing Owl Survey and Permit - Revised Rates

Dear Mr. Tompkins:

Cyriacks Environmental Consulting Services, Inc. (CECOS) is pleased to submit this proposal to provide environmental consulting services for the subject project. Our fee estimate is based on the scope of work you provided, with minor changes (see attachment).

Estimated Fee Summary

The lump sum fee (labor and expenses) to complete the identified scope of work is \$13,008.50. As per your request, we have revised the rates to 2011. No other changes have been made. The Table below summarizes the project tasks and associated fees.

TASK	FEE	COMMENTS
Administration	\$1,520.00	includes security clearance and training for 2 staff
Meetings & Coordination	\$1,844.00	includes 3 meetings and project coordination
Permit Review	\$262.00	
Burrowing Owl Survey	\$4,916.00	includes 3 nights/day survey (max)
Permit Application	\$2,393.00	preparation and 1 RAI response
LABOR FEE	\$10,935.00	
EXPENSES	\$2,073.50	Expenses include equipment rental (video scoping camera), GPS, and mileage
TOTAL	\$13,008.50	

Cyriacks Environmental Consulting Services, Inc 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442 954.571.0290 Fax: 954.571.7112

Mr. Dan Tompkins Airports General Consulting Services Contract Runway 10L-28R - Burrowing Owl Survey and Permit July 10, 2011 (Rev #2)

Schedule

Upon receipt of project authorization, preparation of work activities will begin. We understand that our work effort will be completed within a four month period.

We are very excited about continuing to work with you on this project and appreciate the opportunity to provide these services to you. Please contact me if you have any questions or need additional information.

Very truly yours,

Cyriacks Environmental Consulting Services, Inc.

Wendy Cyriacks
Wendy Cyriacks

Attachments:

Scope of Work Fee proposal

> Cyriacks Environmental Consulting Services, Inc 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442 954.571.0290 Fax: 954.571.7112

PBC DOA Runway 10L-28R Burrowing Owl Survey & Permit Prepared By CECOS (WC) Date Prepared: 07-10-11 (Rev #2)

	PBIA - Burrowing Owls	Survey & Permit		E	invironmen	tal - Hours				EXPENSES				
			Env	7.1					Sub-total					
Phas Task	Description	Comments	Manager	Sr Env	GIS	Env Anal	Adm	Sub Tota		Expenses	İ			
Phase 0000	00		354.0	6,240.0	1,840.0		65.0	114.0			Qty.	Amount	Davs	\$ 2,073.
		includes airport identification,									1		,-	7 2,0.0.
	Administration	badge, security training,	-	8,0	-	8.0	-	16.0		Scope-camera	1.0	\$525,00	3	\$ 1,575.0
	Hrs-Subtotal		-	8.0	-	8,0	-							
	Fee-Subtotal		\$0,00	\$944,00	\$0.00	\$576.00	\$0,00		\$1,520.00					
	Meetings & Coordination		1.00	1981 1981	3.377.599	Street of the party	 100 februaries 	a sittle of Carbon	199985°ES	GPS	1.0	\$50.00	3	\$ 150.0
		CH2M HILL will prepare agenda &								misc - stakes,				
	- Kickoff Mtg (Ph1)	meeting minutes		3.0		-	-	3.0		flagging, etc	1.0	\$50.00	1	\$ 50.0
		CH2M HILL will prepare agenda &		j										
	- Field mtg (ph 1)	meeting minutes	-	3.0	-	-		3.0		mileage	65.0	\$0.55	6	\$ 214.5
}		arrange, attend, mtg minutes - CH2M HILL will prepare agenda &								0		[]		
	- Pre-App Mtg	meeting minutes	_	3.0	_		_	3.0		Security (fingerprinting)	2.0	\$42.00		. 040
	- Project Coordination	Team coord, agency coord, PM	1.0	4.0	-	1.0	1.0	7.0		(migerprinting)	2.0	\$42.00		\$ 84.0
	Hrs-Subtotal	realif coold, agency coold, inter	1.0	13.0		1.0	1.0	7.0				\vdash		
	Fee-Subtotal		\$175.00	\$1,534.00	\$0.00	\$72.00			\$1,844.00		<u> </u>			** * ********
	Permit Review		-	1.0	-	2.0	-	3.0				\Box		
	Hrs-Subtotal		-	1.0		2.0	-							
	Fee-Subtotal		\$0.00	\$118.00	\$0.00	\$144.00	\$0,00		\$262.00					
	BO Survey				and the principle of the second secon		47 Sept.	1997	Allega interpretation			·		
	- Mobilization	includes scheduling, equipment		1.0	-	3.0	-	4.0						
		3- nights - 6hrs + travel (12am -												
		6am), scoping and videoing 10												
	- Conduct Survey Inspection	burrows	-	20.0	-	20.0	-	40.0						
	- field results doc	photo logging, notes	_	1.0	5.0	_		6.0						
		GIS shapefile (raw data) - Only		.,,										
	- Data for mapping	GPS points	-	1.0	2.0	-		3.0				.		
	Hrs-Subtotal		- 1	23.0	7.0	23,0	•							
	Fee-Subtotal		\$0.00	\$2,714.00	\$546.00	\$1,656.00	\$0.00		\$4,916.00					
	Damis Application		J 4 J.W.		in the production	- Charles	SPATZWATER	USALIBAR						
	Permit Application			Branch Carlo	41.790.74180	24 1 27 5	<u> </u>	PARTIES.	gleining delin					
		includes online application, bird management protection lan, QC.												
	- Prepare MBNR permit App	Map(s) provided by CH2MHILL	1.0	4.0	16.0		-	21.0			1			
	- RAI Response	1 RAI response		1,0								+		
		1 1/1 response				2.0		3,0						
	Specifications	<u> </u>		2.0	- 40	-		2.0						
	Hrs-Subtotal Fee-Subtotal		1.0	7.0	16.0 \$1,248.00	2.0								
	ree-Suptotal		\$175.00	⊅ 5∠5.00	Ф1,240.00	\$144.00	\$0.00		\$2,393.00					
	 													

 SUB_TOTAL FEE
 \$10,935.00

 EXPENSES
 \$2,073.50

Total \$13,008.50

ck \$13,008.50

Mr. Dan Tompkins CH2M Hill 3001 PGA Blvd., Suite 300 Palm Beach Gardens, FL 33410

Re: PBIA Runway 10L-28R Rehabilitation

Dear Mr. Tompkins:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the site and all found monumentation will be tied in. The survey will be oriented to Palm Beach County Airport horizontal control (NAD 83/90 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department. All work will be in conformance with Florida Minimum Technical Standards. Horizontal Accuracy per FGDC Standards will be, at a minimum, 3rd Order, Class 1.

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed onsite using the existing Palm Beach County Airport benchmarks (NAVD 1988). At least two benchmarks will be set onsite. Vertical Accuracy per FGDC Standards will be, at a minimum, 2nd Order, Class 1.

III. TOPOGRAPHIC SURVEY

We will perform a topographic survey that will include the following:

- Coordination with SRMM to determine the level of effort required (profile and cross section intervals
 and location) to obtain topographical survey data to produce a digital terrain model with a +0.02 foot
 vertical accuracy. Profile and cross section interval and location presented below and on the attached
 Figure 1 may be modified as necessary by B&P and SRMM to achieve the required vertical accuracy;
- Profiles on even stations at 100 foot intervals of Runway 10L-28R along the centerline (crown), the edge of full strength pavement on both sides (75 feet north and south of centerline), and the edge of shoulder pavement on both sides (35 feet north and south of runway edge of full strength pavement), as shown on Figure 1;
- Profiles on even stations at 100 foot intervals of Runway 14-32 along the centerline (crown), the edge of full strength pavement on both sides (75 feet east and west of centerline), and the edge of shoulder pavement, as shown on Figure 1;
- Cross Sections on even stations at 500 foot intervals along Runway 10L-28R extending 250 feet on both sides of the centerline as shown on Figure 1. Cross sections shall include shots at the centerline, edge of full strength pavement, pavement drop-offs (lips), pavement shots 35 feet from edge of full strength pavement within wide areas of shoulder pavement, edge of shoulder pavement (top of pavement and adjacent pavement drop-off), and ground shots on 50 foot intervals in non-paved areas extending to the 250 foot limit as shown on Figure 1;

901 Northpoint Parkway • Suite 119 • West Palm Beach, Florida 33407 (561) 615-3988 • Fax (561) 615-3986

Tompkins July 7, 2011 Page 2

- Cross Sections on even stations at 250 foot intervals along Runway 14-32 extending 250 feet on both sides of the centerline as shown on Figure 1. Cross sections shall include shots at the centerline, edge of full strength pavement, pavement drop-offs (lips), pavement shots 35 feet from edge of full strength pavement within wide areas of shoulder pavement, edge of shoulder pavement (top of pavement and adjacent pavement drop-off), and ground shots on 50 foot intervals in non-paved areas extending to the 250 foot limit as shown on Figure 1;
- Profiles on even stations at 50 foot intervals extending 400 feet from Runway 10L-28R centerline of Connector Taxiways C (10L end), L (10L end) C1, C2, S, C3, C4, L1, F (North and South), G (North), H (North and South), D (North and South), K, C5, C6, J, C7, C (28R end), and E (28R end) along the centerline (crown) and the edge of full strength pavement, as shown on Figure 1;
- Cross Sections of Connector Taxiway C (10L end), L (10L end) C1, C2, S, C3, C4, L1, F (North and South), G (North), H (North and South), D (North and South), K, C5, C6, J, C7, C (28R end), and E (28R end) at 200 feet and 300 feet from the centerline of Runway 10L-28R, as shown on Figure 1. The Cross Sections shall extend a minimum of 25 feet beyond the edge of pavement and shall include shots at the centerline, edge of full strength pavement, pavement drop-offs (lips), pavement shots 35 feet from edge of full strength pavement within wide areas of shoulder pavement, edge of shoulder pavement (top of pavement and adjacent pavement drop-off), and ground shots on 50 foot intervals in non-paved areas extending to the 250 foot limit as shown on Figure 1;
- Additional ground shots within the survey limits of proposed construction area as needed to define
 unique topographic features such as depressions and ditches, such that the final SRMM aerial survey
 will produce a digital terrain model with a vertical accuracy of +0.02 foot tolerance;
- Determination and layout of aerial targets (number of targets and location) shall be coordinated with SRMM
- Drainage Structures and Culverts including rim, invert, material, and direction of culverts between Taxiway C (10L end) and Taxiway C1 and west of Taxiway A as shown on Figure 1;
- Stakeout of ten (10) soil borings, forty (40) pavement cores, and six (6) field CBR test locations;
- Horizontal (x, y) and vertical (z) locations of 10 Utility Locations (locations to be provided prior to initiating field services);
- Prepare preliminary target plan for review;
- 2 contingency days for additional surveying as required.

In addition to requested information above, we will provide optional work as follows:

 Stakeout two (2) optional pond borings and infiltration/percolation tests (B&P shall coordinate with CH2M HILL's geotechnical subconsultant, Tierra South Florida);

The following areas will be included in the topographic survey, as shown on Figure 1:

- Runway 10L-28R (12,000 feet long by 800 feet wide);
- Runway 14-32 intersection with Runway 10L-28R;
- Taxiway Connectors to Runway 10L-28R;
- Optional Dry Retention Pond Area (Stormwater Improvements).

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor and Mapper. The final drawings will be provided to Consultant in AutoCAD format at minimum 1"=50' scale. The survey control established under Task 10, Implementation Planning of the System Wide Airport Master Planning Study (Phase I) will be the basis for the project survey control.

Tompkins July 7, 2011 Page 3

It is anticipated as soil information becomes available during the boring operations; boring locations may be adjusted based on the actual field conditions, so these stakeout assumptions and locations are subject to change. The DOA will provide Consultant and subcontractors with airfield access and escorting services. B&P shall assume hours of operation will be Monday through Friday, midnight to 6:00 am (5 days per week). B&P has included a schedule below for completing the field services necessary for scheduling runway closures and filing NOTAMs. An overall schedule is also provided below to complete the scope of work summarized in this request for proposal.

Schedule:

- 1. 32 field crew working days (not including weather delays or delays due to PBIA operations)
- 2. Drawing delivered 15 working days after completion of the field work

The final deliverable will included the following items:

- 1. Five (5) signed and sealed hard copy plans at minimum 1"=50"
- 2. One (1) electronic file in AutoCAD and ascii format
- 3. One (1) copy of survey field notes and calculations

IV. CLOSURE

This survey will require working closely with Palm Beach International Airport Operations and might be time consuming depending on airplane traffic. There might be some waiting time due to usual airport traffic on the taxiways and in the area of the concourses. Communication with the Airport Tower will be a necessity to access certain areas. A drawing will be produced (1"=50' scale) which will show all the features located. We propose to provide CH2M Hill with five (5) hard copies, an electronic file in ascii and AutoCAD in the version requested, and a copy of the survey filed notes and calculations. Any additional work will be done on an hourly basis as approved by you. The proposed cost for this project is \$49,912.50 (\$47,415.00 for Task 1 + \$2,372.50 for Task 2 + Reimbursable \$125.00) per Attachment 'A'. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

Brown & Phillips, Inc.

| E fluct |
| John E. Phillips, III, P.L.S. |
| Principal |
| Attachments |
| Accepted This _____ Day Of _____, 2011.
| CH2M Hill |
| By: ______ |
| Print Name: ______

ATTACHMENT 'A'

Runway 10L-28R Rehabilitation

Brown & Phillips, Inc. Project No: Description: Topographic Survey

Size:

Date of Proposal: July 7, 2011

TASK 1	2 MAN FIELD	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings & coordination				8	
Horizontal Project Network Control	24	-	10	4	Establish control and right-of-way
Vertical Project Network Control	40		8	1	Tie into control including 80+ targets
Baseline Layout	12		3		Set points at 100 foot intervals
10L-28R Runway cross sections & profile	46	20	20	5	Cross sections at 500' intervals Profile along 5 lines @ 100'
14-32 Runway cross section & profile	18	11	8	2	Cross sections at 250' intervals and profile along 5 lines @ 100'
Taxiway cross sections and centerline profile	30	12	10	2	Cross sections on taxiways at 200' and 300' from centerline 10L-28R. Profile to 400'
Target layout and painting	60	12	15	4	Layout targets at proposed positions and paint. Prepare target plan
Drainage Structures & Culverts	6	and the state of t	0.5		Asbuilt drainage structures including rim, invert, material, etc.
Stake soil borings, core & CBR	7.5	Marian and a state of the stat	2	0.5	54 soil borings, pav. Cores, CBR
Utility locations	2	**************************************	0.5		Stake 10 locations
Contingency Days	16		6	3	As needed
Total Hours	261.5	55	83	29.5	
Rate/Hour	\$125.00	\$80.00	\$80.00	\$125.00	
Sub-total	\$32,687,50	\$4,400.00	\$6,640.00	\$3,687.50	
Total Price			\$47,415.	00	II.

Reimbursable: White and black paint - \$125.00

YFSTUSers/MollyMy Documents/PROPOSALS-BY COMPANY/CH2M HILL/PBIA Runway 10L-28R Rehabilitation.doc

ATTACHMENT 'A' (CONT'D.) Runway 10L-28R Rehabilitation

Brown & Phillips, Inc. Project No: Description: Topographic Survey Size:

Date of Proposal: July 7, 2011

TASK 2 – Pond Area	2 MAN FIELD	CADD TECH	SURVEY TECH	PLS	COMMENTS
Stake Borings	I.				Stake borings for pond
Pond Area cross sections	12	4	3	1.5	Cross section 920' x 500' @ 50' grid & locations
Total Hours	13	4	3	1.5	
Rate/Hour	\$125.00	\$80.00	\$80.00	\$125.00	
Sub-total	\$1,625.00	\$320.00	\$240.00	\$187.50	
Total Price			\$2,372.5	0	



SOUTHERN RESOURCE MAPPING of MIAMI, INC.

20197 NE 16th Place, Miami, Florida 33179 Tel: (305) 655-2211 Fax: (305) 655-0690 Email: srmmiami @ aol.com

May 24, 2011

Dan C. Tompkins, PE CH2MHILL, Inc. 3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410

RE: Photogrammetric Services to for Palm Beach International Airport Runway 10L-28R Rehabilitation

Dear Dan,

Southern Resource Mapping of Miami, Inc. is pleased to submit its fee proposal for professional photogrammetric services for the above referenced project.

All services executed by SRMM will be in a professional manner by thoroughly qualified personnel.

SCOPE OF SERVICES:

AERIAL PHOTOGRAPHY AND DIGITAL MAPPING:

New B&W aerial photography at 1"=60' and 1"=400' negative scales for the 1"=50' scale planimetrics mapping, DTM, and raster imagery work. Flying hours from take-off to landing, materials: films, contact prints, and diapositives.

The Aerial Photography will be taken when the weather and light conditions are such that the negatives will be satisfactory for use in photogrammetric compilation by stereo plotting methods and for the production of the raster imagery.

AERIAL TRIANGULATION:

Analytical aerial triangulation for the creation of additional control points to support the topographic and the raster imagery work. SRMM will employ analytical aerial triangulation techniques creating control points for each of the stereoscopic models to be used in the stereo compilation phase and in the raster imagery work. Our aerial triangulation program will incorporate corrections for any deformation such as atmospheric refraction, earth curvature, and lens distortion.

TOPOGRAPHIC MAPPING:

The 1"=50' scale Planimetrics mapping will consist of all visible features from the aerial photography. The Planimetrics and the DTM will cover the entire study area (approximately 800' x 12,000') within the project limits.

The planimetric files will be delivered in AutoCAD format. SRMM will graphic edit the planimetric data: polygons will be hacked for accuracy and completeness, Lines will be extended, clipped, joined and spliced as necessary. Data will be labeled, and text will be moved and globally changed as needed to ensure clarity and readability.

Digital Terrain Models consisting of break-lines, mass of spot elevations, plus spot elevations in high and low areas (vertical reading accuracy: +/- 0.03' on hard surfaces).

For the Digital Terrain Modeling work, we will use 1st order analytical stereo plotters in order to assure accurate vertical readings. Some of the planimetric features, digitized in 3D, will be used as part of the DTM break lines. Features such as: edge-of-pavements, paint lines, retaining walls (at ground level), runways, taxiways, curves, gutters, and catch basins. In addition, we will digitize spot elevations at approximately 20' intervals that will show any terrain changes.

SRMM will generate contours at 0.2' intervals to be delivered in AutoCAD rel. 2008 format.

DIGITAL RASTER IMAGERY:

Computer-scan aerial photography, raster imagery, and mosaic: Computer-scan at 1,600 dpi of the original 1"=400' scale B&W photography for the 1"=50' scale imagery (pixel size 0.4'). The raster rectifications will be controlled by the aerial triangulation solutions. SRMM will mosaic the referenced, geocoded, raster files. Final mosaics (panels) will be delivered in TIF/TFW format on DVDs.

GROUND CONTROL REQUIERMENTS:

For satisfying the immediate need of controlled digital mapping, (2'X2') aerial targets along edge of pavement in the requested area and (4'X4') targets along the boundary of the study area (see dash line in the RFP) will be needed set by B&P prior to the aerial photography flights. Additional photo ID points may be needed. The state-plane coordinates shall be based on NGS monuments. SRMM will coordinate with B&P throughout the field services phase.

DELIVERABLES and FEES:

Task 1: Runway 10L-28R, Runway 14-32, and Taxiway Connectors to Runway 10L-28R

Item	Uni	t Rate	#Unit	Cost
 Flying hours – Helicopter Exposures B/W Diapositives B/W Aerial Triangulation Aerial scanning, rectification, and geocoding Mosaic the raster images into continuous TIF file 2D Planimetric Stereo Digitizing 3D DTM (break lines and spots) stereo digitizing CAD services: planimetrics and DTM editing, TIN, contour generation and editing. 	Hour Each Each Each Each Mile Mile	\$636.54x2* \$8.65 \$13.79 \$90.18 \$360.71 \$63.66 \$3,877.59X \$2,715.90X		
10. Quality Assurance/Quality Control	Hour	\$82.75	50	4,137.50
TOTAL			\$	169.829.54

Low altitude photography using helicopter

** 3 flight lines

Task 2: Dry Retention Pond Area

Item	Uni	t Rate	#Unit	Cost
 Exposures B/W Diapositives B/W Aerial Triangulation 2D Planimetric Stereo Digitizing 3D DTM (break lines and spots) stereo digitizing CAD services: planimetrics and DTM editing, TIN and 	Each Each Each Mile Mile	\$11.73 \$13.79 \$90.18 \$4,445.17 \$2,917.48	5 5 5 .2	58.65 68.95 450.90 889.03 583.50
Countour generation and editing. 7. Quality Assurance/Quality Control TOTAL	Hour Hour	\$82.75 \$82.75	10 2	827.50 165.50
IOIAL				\$3.044.03

DELIVERY:

Once the aerial photography and the ground control survey is completed, production is estimated to be completed within two months. Raster imagery may be delivered within 2 weeks. In order to expedite delivery we would like to receive the aerial targets values first. Profiles and cross sections may deliver to SRMM by complete areas.

SRMM appreciates the opportunity to submit this proposal and looks forward to work with you. If you have any questions or need additional information, please call us.

Sincerely,

Southern Resource Mapping of Miami Inc.

Joseph Bilu, PSM Vice President



July 11, 2011

Dan C. Tompkins, P.E. Project Manager CH2M HILL, INC. 3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410

REFERENCE:

Palm Beach International Airport Runway 10L-28R Rehabilitation Drainage Design and Permitting Proposal and Scope of Work

Dear Mr. Tompkins:

Per your request, A.D.A. Engineering, Inc. (ADA) is pleased to submit this scope of work and fee proposal to assist CH2M HILL with the associated drainage and permitting services for the Palm Beach International Airport (PBIA) Runway 10L-28R Rehabilitation Project. ADA's services shall include the coordination, analysis, permitting and plan preparation required to deliver the drainage portion of the Construction Plan Set and the associated Environmental Resources Permit (ERP) and Dewatering Permit from the South Florida Water Management District (SFWMD). The following sections describe the scope of work, key assumptions, and compensation associated with A.D.A. Engineering, Inc. (ADA) portion of the work. The attached Figure 1 illustrates the components of the proposed project.

I. Scope of Work:

ADA will provide basic services including preparation of construction documents and bid and award services (Phases 1-4). Construction Administration and Construction Management services are not included in this scope of services. This scope of services (Phases 1-4) includes the following meetings:

- > One (1) Design Kick-off Meeting (Phase 1);
- > One (1) Field Site Visit (Phase 1);
- ➤ Nine (9) Internal Team Design Coordination Meetings (Phase 1, 2, 3A, 3B, and 3C);
- Five (5) Client Review Submittal Meetings (Phase 1, 2, 3A, 3B, and 3C)
- > One (1) ERP Pre-application meeting with the South Florida Water Management District (SFWMD) (Phase 3A);
- > One (1) Dewatering Pre-application meeting with the South Florida Water Management District (SFWMD) (Phase 3A);
- > One (1) Construction ERP Application submittal meeting with SFWMD (Phase 3B);
- > One (1) Construction Dewatering Application submittal meeting with SFWMD (Phase 3B);
- One (1) Construction ERP Application RAI Coordination Meeting with SFWMD (Phase 3C);
- > One (1) Dewatering Permit Application RAI Coordination Meeting with SFWMD (Phase 3C);
- > One (1) Pre-bid meeting (Phase 4);
- One (1) Pre-bid Site Visit (Phase 4);
- > One (1) Bid Opening Meeting (Phase 4).

I-1 Phase 1 Preliminary Design

8850 NW 33RD STREET, SUITE 101, DORAL, FLORIDA 33122 OFFICE: (305) 551-4608 · FAX: (305) 551-8977 · WWW.ADAENGINEERING.COM

July 11, 2011 Runway 10L-28R Rehabilitation Project Drainage Design and Permitting Proposal Page 2 of 6

ADA will perform the necessary data collection, records research and review necessary to identify any potential conflicts or concerns with the development of the drainage infrastructure improvements necessary to construct the proposed dry retention facility directly north of the 10L End of Runway 10L-28R. Based on the data review and preliminary schematics, ADA will prepare a Rough Order of Magnitude Construction Cost Budget Estimate for the dry retention facility and all related infrastructure.

I-2 Phase 2 Design Development

The Design Development Documents will consist of and further define the following items 1-6:

- 1. Drainage systems;
- 2. Existing Drainage and Water Main Utility relocation and/or modification;
- 3. Connections with Existing Drainage and Water Main Utilities;
- 4. Proposed Drainage and Water Main Utilities;5. Typical grading, drainage and water main sec
- Typical grading, drainage and water main sections and details;
- 6. Other major engineering elements to the degree required providing a complete understanding of the elements of the design project and ADA's proposed drainage design treatment of these elements.

ADA will assist CH2M HILL in developing the plans for the Design Development Deliverable review submittal which will include the following items 1-8:

- 1. 30% Summary of Quantities (Bid Alternate No. 1)
- 2. 30% Grading and Drainage Plans 1 plan at 1" = 50' scale
- 3. 30% Stormwater Pollution Prevention Plans 2 plans at 1" = 50' scale
 4. 30% Stormwater Pollution Prevention Notes and Details 1 sheet
- 5. 30% Drainage and Water Main Details 3 detail sheets
- 6. 30% Engineer's Report (Includes effort to develop drainage calculations and model review/verification)
- 7. 30% Technical Specifications Outline
- 8. 30% Project Construction Cost Budget Estimate

Design Development Layout and Location Plans will be the same scale as intended for the Construction Documents set. Plans will be sufficiently detailed to convey ADA's drainage design intentions and to confirm the feasibility of space arrangements. Profiles, grading contours (initial only - spot elevations), precise dimensioning, and specific detailing will be omitted in this Phase.

As part of the Engineer's Report component of this task, ADA will develop the stage-area-storage calculations, storm sewer sizing calculations, half-inch dry pretreatment retention volume calculations, impervious/pervious area calculations, and ponding calculations. ADA will use the future conditions ICPR model developed as part of the Conceptual Stormwater Management Master Plan to evaluate the proposed interim drainage system.

I-3 Phase 3 Contract Documents

8850 NW 33rd Street, Suite 101, Doral, Florida 33122 OFFICE: (305) 551-4608 · FAX: (305) 551-8977 · WWW.ADAENGINEERING.COM July 11, 2011 Runway 10L-28R Rehabilitation Project Drainage Design and Permitting Proposal Page 3 of 6

Following Design Development approval and upon receipt from the DOA representative of written authorization to initiate Phase 3A, ADA will assist CH2M HILL in developing Complete Contract Documents from the approved Design Development Documents.

I-3.1 Phase 3A 60% Submittal

The 60% Complete Contract Documents Deliverables will include the following Items 1-10. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

- 1. 60% Summary of Quantities (Bid Alternate No. 1)
- 2. 60% Grading and Drainage Plans 1 plan at 1" = 50' scale
- 3. 60% Stormwater Pollution Prevention Plans 2 plans at 1" = 50' scale
- 4. 60% Stormwater Pollution Prevention Notes and Details 1 sheet
- 5. 60% Drainage and Water Main Details 3 detail sheets
- 6. 60% Drainage and Water Main Profiles 3 sheets
- 7. 60% Cross-Section Layout Plan (1 sheet)
- 8. 60% Engineer's Report (Includes effort to simulation of interim/proposed condition)
- 9. 60% Technical Specifications
- 10. 60% Engineer's Opinion of Probable Construction Costs

During Phase 3A, ADA will initiate contact with the SFWMD regarding the ERP and dewatering applications. The computations presented in the 60% Engineer's Report will be presented to District staff for consideration with the permit application. ADA will prepare meeting agenda and minutes to document the discussions held during the SFWMD meetings.

I-3.2 Phase 3B 90% Submittal

The 90% complete Contract Documents Deliverables will include the following items 1-11. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

- 1. 90% Summary of Quantities (Bid Alternate No. 1)
- 2. 90% Grading and Drainage Plans 1 plan at 1" = 50' scale
- 90% Stormwater Pollution Prevention Plans 2 plans at 1" = 50' scale
 90% Stormwater Pollution Prevention Notes and Details 1 sheet
- 5. 90% Drainage and Water Main Details 3 detail sheets
- 6. 90% Drainage and Water Main Profiles 3 sheets
- 7. 90% Cross-Section Layout Plan (1 sheet)
- 8. 90% Drainage Cross Sections (1 sheet)
- 9. 90% Engineer's Report (Model updates to accommodate minor changes)
- 10. 90% Technical Specifications
- 11. 90% Engineer's Opinion of Probable Construction Costs

During Phase 3B, ADA will prepare and submit a SFWMD Construction ERP Application for the Stormwater Management System for the Runway 10L-28R Rehabilitation Project in accordance with the January 2008 Conceptual Stormwater Management Master Plan and SFWMD Conceptual

8850 NW 33RD STREET, SUITE 101, DORAL, FLORIDA 33122 OFFICE: (305) 551-4608 · FAX: (305) 551-8977 · WWW.ADAENGINEERING.COM July 11, 2011 Runway 10L-28R Rehabilitation Project Drainage Design and Permitting Proposal Page 4 of 6

Environmental Resource Permit (ERP). Existing surface waters and/or wetlands are not anticipated to be impacted by the Runway 10L-28R Rehabilitation project. Application fees will be provided and paid for by the DOA and are not included in this scope of work. ADA will prepare the following figures to be included in the SFWMD Construction ERP Application:

- 1. USGS Quadrangle Map with Project Boundaries;
- 2. Project Location Map with Project Boundaries;
- 3. SCS Soils Map with Project Boundaries;
- 4. Aerial Photograph with Project Boundaries:
- 5. Drainage Basin and Sub-basin Boundary Designations.

ADA will also prepare and submit a SFWMD Water Use permit for dewatering associated with construction activities of Runway 10L-28R. ADA will provide anticipated daily pumping rates during construction.

I-3.3 Phase 3C 100% Submittal

The 100% complete Contract Documents Deliverables will include the following items 1-8. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

- 1. 100% Summary of Quantities (Bid Alternate 1)
- 2. 100% Grading and Drainage Plans 1 plan at 1'' = 50' scale
- 3. 100% Stormwater Pollution Prevention Plans 2 plans at 1" = 50' scale
- 4. 100% Stormwater Pollution Prevention Notes and Details 1 sheet
- 5. 100% Drainage and Water Main Details 3 detail sheets
- 6. 100% Drainage and Water Main Profiles 3 sheets
- 7. 100% Cross-Section Layout Plan (1 sheet)
- 8. 100% Drainage Cross Sections (1 sheet)
- 9. 100% Engineer's Report
- 10. 100% Technical Specifications
- 11. 100% Engineer's Opinion of Probable Construction Costs

ADA will address a maximum of two (2) RAIs each associated with the SFWMD ERP and Dewatering Permit Applications.

I-4 Phase 4 Bidding And Award of Contract

Following the 100% Complete Contract Documents approval, CH2M HILL will print full size sets of the Contract Documents for bidding purposes, ready for advertising as required by the DOA. CH2M HILL will provide Prospective Bidders with Bid Documents and administer the process of the Bidding Phase. Prospective Bidders shall obtain Bid Documents from CH2M HILL's Palm Beach Gardens Office. ADA will attend one (1) Pre-Bid Conference and one (1) Pre-Bid Site Visit, if necessary, and will assist CH2M HILL in obtaining Bids and in the Award of a Contract for all or a portion of the work that was bid pursuant to the Contract Documents. ADA will respond to a maximum of four (4) Requests For Information (RFI) from the Bidders. ADA will review and evaluate drainage and utility portions of bid tabs, and assist CH2M HILL in recommending award of the contract. CH2M HILL will evaluate the low

July 11, 2011 Runway 10L-28R Rehabilitation Project Drainage Design and Permitting Proposal Page 5 of 6

bidders' insurance, licensing and qualifications and provide comments to the DOA for their consideration in awarding the project.

II. Key Assumptions

The scope of work outlined in Section I was developed with the following key assumptions:

- 1. CH2M HILL and the DOA will provide ADA with airfield access and escorting services.
- 2. Construction Administration and Construction Management services are not included in this scope of services.
- 3. CH2M HILL will provide to ADA copies of as-built plans, survey and geotechnical investigations.
- 4. CH2M HILL will provide electronic files with some of the standard sheets used by Palm Beach County DOA in AutoCADD format to be easily edited for this project including:
 - Title Block
 - Standard Details
 - Airport base map, topographic/aerial survey and utility locate information
- 5. CH2M HILL will coordinate with applicable surveying and geotechnical engineering firms.
- 6. Permits will not be obtained from the Lake Work Drainage District or the Palm Beach County Water Utilities Department.
- 7. Wetland permitting is not required as part of this project.
- 8. CH2M HILL will develop Division 0 and 1 specifications and all other specifications not associated with the drainage components of the project.
- 9. Reproduction of required sets for review and construction will be by CH2M HILL. ADA will provide electronic files for reproduction at each design phase submittal.

III. Compensation

ADA will be compensated in accordance with the terms and conditions outlined in the PBIA General Consultant Services Agreement between CH2M HILL and ADA dated .

Total compensation for the tasks included in the Scope of Work will be on a lump sum basis not to exceed \$146,800. Table 1 attached includes a detailed breakdown of man-hours associated with each task outlined in the Scope of Work.

July 11, 2011 Runway 10L-28R Rehabilitation Project Drainage Design and Permitting Proposal Page 6 of 6

We look forward to assisting you and the Palm Beach County Department of Airports on this assignment. If you have any questions or need additional information, please do not hesitate to contact me at your convenience.

A.D.A. ENGINEERING, INC.

BE WHI

Brent Whitfield, P.E. Project Manager

Alex Vazquez, P.E.

Attach:

Cc:

Figure 1 – Runway 10L-28R Rehabilitation Project

Exhibit A – Man-hour and Fee Estimate

TABLE 1 PALM BEACH COUNTY DEPARTMENT OF AIRPORTS GENERAL ENGINEERING SERVICES CONTRACT

Palm Beach International Airport Runway 10L - 28R Drainage Design and Permitting ADA ENGINEERING LABOR HOUR AND EXPENSE ESTIMATE

ACTIVITY BASIC SERVICES PHASE 1A - PRELIMINARY DESIGN Client Kick-Off Meeting Team Chartering / Kick-off Meeting (1 meeting) Data Collection and Records Research Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submittal Review Meeting (1 meeting) Phase 1A Hours Subtotal	Program Manager Principal Sr. Consultant 0 0 0 0 0	Project Manager Design Manager Task Leader 4 4 0	Project Engineer Planner	Staff Engineer Planner	Senior Technician	Design Technician	GIS Specialist	Administrative Assistant	TOTAL HOURS
PHASE 1A - PRELIMINARY DESIGN Client Kick-Off Meeting Team Chartering / Kick-off Meeting (1 meeting) Data Collection and Records Research Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submittal Review Meeting (1 meeting)	0 0 0	4 4		Figure		1			
Citent Kick-Off Meeting Team Chartering / Kick-Off Meeting (1 meeting) Data Collection and Records Research Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Citent Submittal Review Meeting (1 meeting)	0 0	4		 			 	 	noons
Team Chartering / Kick-off Meeting (1 meeting) Data Collection and Records Research Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submittal Review Meeting (1 meeting)	0 0	4	1				 		
Team Chartering / Kick-off Meeting (1 meeting) Data Collection and Records Research Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submittal Review Meeting (1 meeting)	0 0	4		4	0	0	-	0	
Data Collection and Records Research Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submittal Review Meeting (1 meeting)	0		0	1 4	0		0	0	F
Field site visit (1 site visit) Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submital Review Meeting (1 meeting)	00		,	12	0		0	0	12
Rough Order of Magnitude (ROM) Project Design and Construction Cost Budget Estimate Client Submittal Review Meeting (1 meeting)		4	i o	4	0			0	12
Client Submittal Review Meeting (1 meeting)			0	1	 	0	1 0	0	8
	0	4	0	4	- 0	 	0	0	5
	0	17	0	32		1 - 0	1 0	0	49
Phase 1A Labor Fee Subtotal	\$.	\$ 3,672.00		\$ 4,160,00		s	ls -	s ·	\$ 7.832.00
PHASE 2 - DESIGN DEVELOPMENT			·	4,100.00	 	 	ļ*	<u> </u>	\$ 7,032.00
30% Summary of Quantities (Bid Alternate No. 1)	0	1		2		4			
30% Grading and Drainage Plans - 1 plan at 1" = 50' scale	0	-		4	0		0	0	
30% Stormwater Pollution Prevention Plans - 2 plans at 1" = 50' scale	0		,	1 - 7	0		0		13
30% Stormwater Pollution Prevention Notes and Details - 1 sheet	0	1		4		- 8 	0	0	13
30% Drainage and Water Main Details - 3 detail sheets	0	<u>-</u>	0	12	0	16	0	0	13
30% Engineer's Report (Includes effort to develop drainage calculations and model review/verification)	0	4	0	40	0		12	0	29
30% Technical Specifications Outline	0	1	0	40	0	<u> </u>		2	58
30% Project Construction Cost Budget Estimate	0	1	0	4	0		0	0	5
Project Team Coordination Meetings (2 meetings)	0	8	0	8	0	0	0	0	5
Client Review Submittal Meeting (1 meeting)	0	4	0	4	0	0	0	0	16
Phase 2 Hours Subtotal	0	23	. 0	86	0	44	0	0	8
Phase 2 Labor Fee Subtotal		\$ 4,968.00		\$ 11,180,00		\$ 3,696,00	12 \$ 1.560,00	2	167
PHASE 3A - 60% SUBMITTAL		4,300,00	•	ψ 11,100.00	•	\$ 3,696.00	\$ 1,560,00	\$ 148.00	\$ 21,552.00
60% Summary of Quantities (Bid Alternate 1)	0	1	0	2	0	4	0	0	
60% Grading and Drainage Plans - 1 plan at 1" = 50' scale	0	1	0	8	0	12	0	0	21
60% Stormwater Pollution Prevention Plans - 2 plans at 1" = 50' scale	0	i i	0	4	0	A A	0	0	13
60% Stormwater Pollution Prevention Notes and Details - 1 sheet	0	1	0	4	0	- 8	0	0	13
60% Drainage and Water Main Details - 3 detail sheets	1	2	0	16	0	24	0	0	43
60% Drainage and Water Main Profiles - 3 sheets	1	1	0	12	0	32	0	0	43
60% Cross-Section Layout Plan (1 sheet)	0	1	0	8	0	16	0	·	25
60% Engineer's Report (Includes effort to simulation of Interim/proposed condition)	2	4	0	40	0	- 10	8	2	56
60% Technical Specifications	1	2	0	16	0	0	0	- 2	21
60% Engineer's Opinion of Probable Construction Costs	0	1	0	4	0	0	0	0	
Project Team Coordination Meetings (2 meetings)	0	8	0	8	0	- 0	0	- 0	- 5
Client Review Submittal Meeting (1 meeting)	0	4	0	4	0	0	0	0	
SFWMD Construction ERP Pre-Application Meeting (Agenda and Minutes) - 1 meeting	0	4	0	8	0	- 0	0	0	12
SFWMD Dewatering Pre-Application Meeting (Agenda and Minutes) - 1 meeting	0	4	0	8 .	0	0	0	0	
Phase 3A Hours Subtotal	5	35	0	142	8	104	8	4	298
Phase 3A Labor Fee Subtotal	\$ 1,175.00	\$ 7,560,00	\$.	\$ 18,460,00	\$ -	\$ 8,736,00	\$ 1,040.00		\$ 37,267,00
PHASE 3B - 90% SUBMITTAL				- 4,100.00		3,700,00	Ψ 1,040.00	230.00	37,207.00
90% Summary of Quantities (Bid Alternate 1)	0	1	0	2	0	4	0	0	
90% Grading and Drainage Plans - 1 plan at 1" = 50' scale	0	1	0	4	0	8	0	0	
90% Stormwater Pollution Prevention Plans - 2 plans at 1" = 50' scale	0	1	0	2	- 0	6 -	0	- 0	13
90% Stormwater Pollution Prevention Notes and Details - 1 sheet	0	1	0	2	0	- 6	0	0	- 9
90% Drainage and Water Main Details - 3 detail sheets	0	1	0	12	<u>, , , , , , , , , , , , , , , , , , , </u>	16	0		9
90% Drainage and Water Main Profiles - 3 sheets	0	1	0	12	<u>`</u>	16	0		29
90% Cross-Section Layout Plan (1 sheet)	0		0	4		8	0	- 0	13
90% Drainage Cross Sections (1 sheet)	1	1	0	- 8	-	12	0		22
90% Engineer's Report (Model updates to accommodate minor changes)	0	2	0	12		0	4	2	22
90% Technical Specifications	0	1	0	8			0	2 2	20

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS GENERAL ENGINEERING SERVICES CONTRACT

Palm Beach International Airport Runway 10L - 28R Drainage Design and Permitting ADA ENGINEERING LABOR HOUR AND EXPENSE ESTIMATE

Date: 7/11/2011		EERING LABOR HOU							
ACTIVITY	Program Manager Principal Sr. Consultant	Project Manager Design Manager Task Leader	Project Engineer Planner	Staff Engineer Planner	Senior Technician	Design Technician	GIS Specialist	Administrative Assistant	TOTAL HOURS
90% Engineer's Opinion of Probable Construction Costs	. 0	1		4	0	0	0	0	
Project Team Coordination Meetings (2 meetings)	. 0	4	0	40	0	12	8	0	
Client Review Submittal Meeting (1 meeting)	0	4	0	8	0	0	0	0	
Prepare SFWMD Construction ERP Application	2	4	0	40	0	12	8	8	
Prepare SFWMD Dewatering Permit Application	2	4	0	32	0	8	4	4	
SFWMD Construction ERP Application Meeting (Agenda and Minutes) - 1 meeting	0	4	0	8	0	0	0	0	1
SFWMD Dewatering Application Meeting (Agenda and Minutes) - 1 meeting	0	4	0	8	0	0	0	0	
Phase 3B Hours Subtotal	5	36	0	206	0	108	24	16	395
Phase 3B Labor Fee Subtotal	\$ 1,175.00	\$ 7,776.00	\$ -	\$ 26,780.00	\$	\$ 9,072.00	\$ 3,120.00	\$ 1,184.00	\$ 49,107.00
PHASE 3C - 100% SUBMITTAL									
100% Summary of Quantities (Bid Alternate 1)	0		0	2	. 0	1	0	0	
100% Grading and Drainage Plans - 1 plan at 1" = 50' scale (AutoCAD Master Files Only)	0	1	0	2	0	2	0	0	
100% Stormwater Pollution Prevention Plans - 2 plans at 1" ≈ 50' scale	0	1	0	2	0	4	0	0	
100% Stormwater Pollution Prevention Notes and Details - 1 sheet	0	1	0	2	0	2	0	0	
100% Drainage Water Main Details - 3 detail sheets	0	1	0	4	0	4	0	0	
100% Drainage Water Main Profiles - 3 sheets	. 0	1	0	4	0	6	0	0	
100% Cross-Section Layout Plan (1 sheet)	0	-	0	2	0	2	0	0	
100% Drainage Cross Sections (1 sheet)	0	1	0	4	0	8	0	0	1
100% Engineer's Report	1	. 1	0	8	0	0	2	2	. 1
100% Technical Specifications	1 .	1	0	4	0	0	0	1	
100% Engineer's Opinion of Probable Construction Costs	1	1	0	4	0	0	0	0	
Project Team Coordination Meetings (2 meetings)	0	8	0	8	0	0	0	1	1
Client Review Submittal Meeting (1 meeting)	0	4	0	4	0	0	0	0	
Signed and Sealed 100% Contract Documents	0	0	0	8	0	8	0	0	1
Address a maximum of two (2) RAIs for both the ERP application and Dewatering application to SFWMD	2	4	0,	16	0	8	0	0	, 3
Phase 3C Hours Subtotal	5	27	0	74	0	45	2	4	157
Phase 3C Labor Fee Subtotal	\$ 1,175.00	\$ 5,832.00	\$ -	\$ 9,620.00	\$ -	\$ 3,780.00	\$ 260.00	\$ 296.00	\$ 20,963,00
PHASE 4 - BID & AWARD OF CONTRACT				l					
Attend Pre-bid Conference and Site Visit (1 meeting)	0	4	0	4	0	0	0	0	
Respond to RFIs (Assume 4)	0	4	0	8	0	0	0	0	
Attend Bid Opening Meeting (1 meeting)	0	0	0	4	0	0	0	0	
Review and Evaluate Bid Tabulation and Bid Forms	0	2	. 0	8	0	0	0	0	1
Prepare a Recommendation of Award Letter	0	1	0	2	0	0	0	1	
Phase 4 Hours Subtotal	0	11	0	26	0	0	0	1	38
Phase 4 Labor Fee Subtotal	\$ -	\$ 2,376.00	\$ -	\$ 3,380.00	\$	\$ -	\$	\$ 74.00	\$ 5,830.00
Total Labor Hours by Class	15	149	0	566	0	301	46	27	1104
Contracted Rate				\$ 130.00		\$ 84.00	\$ 130.00		
Labor Fee (Hours x Contract Rate)	\$ 3,525.00	\$ 32,184.00	\$ -	\$ 73,580.00	\$ -	\$ 25,284.00	\$ 5,980.00	\$ 1,998.00	\$ 142,551.00
Total ADA Engineering Labor Fee for Basic Engineering Services									
Total Expenses for Basic Engineering Services (3% of Labor)	\$4,280.00								
LUMP SUM FEE - BASIC ENGINEERING SERVICES (Rounded)									



CONSULTING ENGINEERS & SURVEYORS 10305 N.W. 41ST Street, Suite 200 Miami, Florida 33178

TEL: (305) 591-8777 FAX: (305) 599-8749

Email: dstanton@fr-aleman.com

July 7, 2011

CH2MHILL, INC.

Attn: Mr. Dan C. Tompkins, PE. 3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410

RE:

Project No: 401852

Project Title: Runway 10L-28R Rehabilitation Utility Locations Facility Name: Palm Beach International Airport

SUBJECT: **Price Proposal for SUE Services**

Dear Mr. Tompkins.

In accordance with your request, F.R. Aleman & Associates, Inc., (FRA) is pleased to submit our proposal to provide SUE SERVICES to your company.

CONSULTING ENGINEERS & SURVEYORS

Email: dennis.stanton@FR-Aleman.com

www.FR-Aleman.com

F.R. Aleman & Associates. Inc., (FRA) is pleased to provide this proposal for utility locating services at the above referenced project. A subsurface Ground Penetrating Radar (GPR) unit will be used in addition to electromagnetic induction (EM). Based on the information provided FRA will attempt to provide horizontal locations of public and privately owned utilities prior to excavation. The provided site plan depicting the limits of survey shall be considered part of this proposal.

DESCRIPTION OF SERVICES

FRA will provide two (2) technicians, equipment and special tools to designate utilities at locations authorized and directed by your representative.

Electromagnetic induction is a method in which a transmitter signal is applied by directly coupling to a target. As long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz. Signal. Additionally, passive VLF signals can be detected on other metallic utilities that are typically long in length and are well grounded electrically. Some utility systems contain portions of non-metallic material and therefore may be un-locatable using EM techniques.

A GPR unit can assist in identifying non-metallic utilities and other structures that are unidentifiable using traditional electromagnetic techniques. The GPR method transmits electromagnetic waves, which are pulsed at discrete distance / time intervals. The transmitted pulse radiates through the earth whereby a portion of energy is reflected from interfaces of contrasting electrical properties (e.g. pavement and soil interface, soil stratigraphic changes and buried metallic objects) while the remaining energy continues until reaching additional reflectors where the process is repeated. Reflected energy is received by the antennae and recorded for later processing and interpretation. Factors such as soil moisture, clay content and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet conductive soils severely attenuate GPR signals and thus effective the depth of exploration. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. In order to accurately conduct a energy cannot transmit through ferrous objects since metal acts as a pure reflector. In order to accurately conduct a radar survey, orthogonal scans must be made across the target area. Confined or obstructed areas that restrict the scanning pattern can impede the data collected and reduce the accuracy of the desired results.

Vacuum excavation is a technique used to safely expose utilities by using a combination of compressed and vacuum air. Once the utility has been exposed, vertical elevation, diameter and material type can be obtained.

Page 1 of 3

Miami - West Palm - Orlando - Tampa - Jacksonville

Electromagnetic & GPR Field Survey

Conduct appropriate records research

Program and calibrate electromagnetic utility locating equipment
Perform horizontal locations of existing conductive utilities using electromagnetic techniques
Mark selected targets on the ground surface as necessary
Interpret field data and perform on-site designating field sketches
Coordinate survey of utility targets with client/ Brown & Phillips, Inc..
Review Utility survey for client.

LOCATE SUBSURFACE UTILITIES USING TEST HOLES

This service will include but not be limited to the following:

- Coordinate with utility agencies / owners/ CH2MHILL,Inc.
- Neatly cut and remove existing pavements (not to exceed 225-sq. In. Per cut).
- Excavate the cut in such a manner as to prevent any damage to wrappings, coatings or other protective coverings (i.e. vacuum / pressure excavations, hand digging).

 Furnish and install color-coded permanent above ground markers (i.e. p.k. nails, steel rods), directly above
- the centerline of the utility structure and record the elevation of the marker.
- Provide a restoration of the pavement, within the limits of the cuts, at the time of the backfill.
- Provide complete clean up of work sites to equal or better condition than before excavation.

CONDITIONS - Locating of underground utilities for pre-excavation

- Utility Locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation.
- Areas to be surveyed with GPR must be level and free of obstructions.
- Results are dependent upon field conditions at the time of locating services.
- If underground facilities are damaged, whether marked by FRA or not, it is your obligation to notify a representative of FRA within 48 hours of the damage.
- Prior to excavation, the contractor is responsible for securing locations of public utilities through Sunshine State One Call of Florida (800-432-4770).
- Airside Access or Badges provided by the client (5 FRA personnel currently have Airport Badges).

F.R. ALEMAN & ASSOCIATES, INC. S.U.E. SERVICES PRICE PROPOSAL										
ITEM DESCRIPTION RATE QUANTITY ITEM PRICE										
2 PERSON CREW LOCATING AND DESIGNATING CREW HOURLY	\$1,468.15	5 Days	\$ 7,340.75							
CADD	\$ 55.09	20 Hours	\$ 1,101.80							
Project Manager	\$1 59.85	10 Hours	\$ 1,598.50							
Utility Coordinator	\$97.00	20 Hours	\$ 1,940.00							
TOTAL COST \$11,981.05										

F.R. Aleman & Associates, Inc. appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through December 31, 2011, after which it shall be subject to reconfirmation by **FRA**. If this proposal is accepted prior to the above date, this pricing will be in effect for the next 30 days, after which time shall be subject to review and adjustment by **FRA**.

FRA based this estimate on a plans review with your company.

If you find this proposal acceptable, please sign the original of this Agreement in spaces provided below and return one (1) fully executed copy for our files which will serve as your formal authorization for our services.

We are prepared to commence work upon your notification and finalization of this Agreement. If you have any questions please do not hesitate to call me at my office (305) 591-8777.

ACCEPTED AND AGREED:
Client: CH2MHILL, INC.

By: _____

Name: ____

Title: ____

Date: ____

Very truly yours.

D.M. Stanton S.U.E. Director

M

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Revised May 31, 2011 May 11, 2011

CH2MHill 3001 PGA Blvd, Suite 300 Palm Beach Garden, Florida 33410

Attention:

Mr. Dan C. Tompkins, P.E.

Re:

Proposal for Geotechnical Services
Proposed Runway 10L-28R rehabilitation
Palm Beach international Airport

West Palm Beach, Florida TSF Proposal No.: 1105-169

Dear Dan:

As requested, **Tierra South Florida**, **Inc.** (**TSF**) is pleased to submit this proposal for the above-referenced project. The proposal is based on e-mail from Mr. Dan Tompkins of CH2MHill, P.E. dated May 6, 2011.

We understand that the improvement will consist of Milling and Overlay full length of Runway 10L-28R and 14-32 Intersection. Milling and overlay taxiway connectors and shoulders (as necessary), Fillet widening and shoulder pavement at Taxiway C5. Drainage improvement associated with the Stormwater Management Master Plan.

This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

PROPOSED SCOPE OF WORK

All work performed by TSF will be in general accordance with Advisory Circular AC 150/5320-6D. As requested, our scope of work will be performed under two tasks. Task 1 will be for the runway area and Task 2 will be for the dry pond area.

CH2MHill

TSF Proposal: 1105-169

Page 2

Task 1

For the runway, we propose to obtain 40 pavement cores and drill a total of six (6) Standard Penetration Test (SPT) borings to a depth of 10 feet below existing grade. Additionally, we propose to perform 6 field CBR tests (Kessler Method).

Task 2

Under Task 2, we propose to perform two (2) Double Ring Infiltration tests within proposed dry retention pond, Two (2) SPT borings to a depth of 10 feet, and two (2) Bore Hole Permeability (BHP) tests per South Florida Water Management District (SFWMD) standards.

The following laboratory testing will be performed on selected samples:

Moisture Content test (ASTM D2216) – 6 tests
Grain size analysis (ASTM D422) – 6 tests
Organic Content tests (AASHTO T-194) – 6 tests
Atterberg limit tests (ASTM D2487) – 4 tests
CBR on Subgrade, subbase and Limerock (ASTM D1883) – 9 tests

Borings and test locations will be located in the field by CH2M Hill's subconsultant, Brown & Phillips, Inc. It is our understanding that elevations at boring locations will also be provided by Brown & Phillips, Inc.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. We believe that significant coordination will likely be required to perform the field operations and the work will be conducted at night time to avoid disturbance to patrons. As we understand, the all work will be conducted within the hours of 12 midnight to 6 am. Our filed work will be performed by TSF personnel with a security badge. It is our understanding that Palm Beach County or the Department of Aviation will provide an escort to the test locations.

Upon completion of the field exploration, laboratory testing will be performed on selected samples. A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report will be issued that contains the Quadrangle Map, existing soil survey map, exploration data, laboratory data, depth to ground water and estimated depth and elevation (NAVD 88) to seasonal high ground

CH2MHill

TSF Proposal: 1105-169

Page 3

water and a discussion of the site and subsurface conditions and the results of the geotechnical findings.

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to Tierra's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, a breakdown of fee for each task will be as follows:

• Task 1 \$37,775

• Task 2 \$ 2,970

The total fee for both tasks combined will be approximately \$40,745.

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report. The above estimate is also based on the assumption that the entire field work (Task 1 and Task 2) will be completed in one mobilization.

Boring, sampling, and testing requirements are a function of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice.

SCHEDULE AND AUTHORIZATION

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 10 nights to complete. The written report can be submitted within three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

CH2MHill TSF Proposal: 1105-169 Page 4

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.

Raj Krishnasamy, P.E.

President Principal Geotechnical Engineer

Attachments: 1. Fee Estimate

	AUTHORIZED BY:		INVOICE TO:
Name:		Fire	m:
Title:		Nar	me:
Date:			dress:

TIERRA SOUTH FLORIDA, INC 2009/2010 STARDARD UNIT FEE SCHEDULE (TASK 1)

NIGHT RATES

		NIGI	HT RATES					
i.	FIELD INVESTIGATION	Unit	# of Unit	ls	Unit Price		Total	
	Mobilization of Men and Equipment							
	Truck-Mounted Equipment	Trip	1	\$	350.00	\$	350.00	
	Specialized ATV/Mudbug Support Vehicle	Trip	0	\$	720.00	\$	0,00	
	Standard Penetration Test Borings	Тлір	7	\$	150.00	\$	1,050.00	
	(By Truck-Mounted Equipment) Land: 0 - 50 ft depth							
	50 - 100 ft depth	L.F.	60	\$	18.00	\$	1,080,00	
	oo yoo kaapur	Ł.F.	0	\$	21.00	\$	0.00	
	Grout-Seal Boreholes (By Truck-Mounted Equipment)							
	Land: 0 - 50 ft depth	L.F.	60	\$	6,75	\$	405.00	
	50 - 100 ft depth	L.F.	D	\$	8.25	\$	0.00	
	Double Ring Infiltration Test	Test	0	\$	500,00	\$	0.00	
	Field Permeability Tests	Test	0	\$	275.00	\$	0.00	
	Pavernent Cores, Asphalt	Each	40	\$	225.00	\$	9,000.00	
	Field CBR	Each	6	\$	300.00	\$	1,800.00	
D.	LABORATORY TESTING							
	Visual Examination/Stratify	Per Hour	6	\$	100.00	\$	600.00	
	Natural Moisture Content Tests	Test	6	\$	10.00	\$	60.00	
	Grain-Size Analysis - Full Gradation	Test	6	\$	65.00	\$	390.00	
	Grain-Size Analysis - Single Sleve	Test	0.	\$	35.00	\$	0,00	
	Organic Content Tests	Test	6	\$	35.00	\$	210,00	
	Atterberg Limit Tests	Test	4	\$	75.00	\$	300,00	
	Liquid Limit Tests (Only)	Test	o	\$	52.00	\$	0.00	
	Plastic Limit Tests (Only)	Test	0	\$	33.50	\$	0.00	
	Laboratory CBR + Sampling	Test	9	\$	500,00	\$	4,500.00	
	Grain-Size with Hydrometer	Test	0	\$	115,00	\$	0,00	
	Proctor Test a) Modified	T		_				
	b) Standard	Test Test	0	\$	108.00	\$	0.00	
	b) Sundalu	rest	0	\$	102.00	\$	0.00	
	Bilumen Extraction	Test	0	\$	150.00	\$	0.00	
	Bitumen Gradation	Test	0	\$	150.00	\$	0.00	
JN	ENGINEERING/COORDINATION/MANAGE	MENT						
	Project Manager	Hour	4	\$	165.00	\$	660,00	
	Principal Engineer	Hour	0	\$	150.00	\$	0.00	
	Sentor Engineer	Hour	24	\$	125.00	\$	3,000.00	
	Project Engineer	, Hour	45	\$	100.00	\$	4,500.00	
,	Senior Technician	Hour	80	\$	75.00	\$	6,000.00	
	CADD	Hour	10	\$	75.00	\$	750.00	
	Badging/training	Hour	48	\$	85,00	\$	3,120.00	
				-	* *	\$	37,775.00	
The u	nit rates provided are those for both public and p	private sectors.				Ψ	01,110.00	

The unit rates provided are those for both public and private sectors.

Raj Krishnasamy, P.E Principal Seotechnical Engineer

TIERRA SOUTH FLORIDA, INC. UNIT RATE FEE SCHEDULE

NIGHT RATES

		Mot	II IOM IEG				
L	FIELD INVESTIGATION Mobilization of Men and Equipment	Unit	# of Units	5	Unit Price		Total
	Truck-Mounted Equipment	Trip	0	5	050.00		
	Specialized ATV/Mudbug	Trip	ő	\$	350.00 720,00	\$ \$	0.00 0.00
	Support Vehicle	Trip	1	\$	150.00	\$	150.00
	Standard Penetration Test Borings (By Truck-Mounted Equipment) Land: 0 - 50 ft depth 50 - 100 ft depth	LF. LF.	20 0	\$ \$	18.00 21.00	\$	360.00 0.00
	·	•	•	•	21.00	•	0.00
	Grout-Seal Boreholes (By Truck-Mounted Equipment) Land: 0 - 50 ft depth	LF.	20	5	6.75	\$	135.00
	50 - 100 ft depth	L.F.	0	\$	8.25	\$	0.00
	Double Ring Infiltration Test	Test	2	\$	500.00	\$	1,000.00
	Field Permeability Tests	Test	2	\$	400.00	\$	800.00
	Pavemeni Cores, Asphali	Each	0	\$	225,00	\$	0,00
	Field CBR	Each	0	\$	300.00	\$	0.00
IJ.	LABORATORY TESTING						
	Visual Examination/Stratify	Per Hour	1	\$	100.00	\$	100,00
	Natural Moisture Content Tests	Test	0	\$	10.00	\$	0.00
	Grain-Size Analysis - Full Gradation	Test	0	\$	65,00	\$	0.00
	Grain-Size Analysis - Single Sieve	Test	0	\$	35.00	\$	0.00
	Organic Content Tests	Test	0	\$	35.00	\$	0.00
	Alterberg Limit Tests	Test	0	\$	75.00	\$	0.00
	Liquid Limit Tests (Only)	Test	0	\$	52.00	5	0.00
	Plastic Limit Tests (Only)	Test	D	\$	33.50	\$	0.00
	Laboratory CBR + Sampling	Test	0	\$	500.00	\$	0.00
	Grain-Size with Hydrometer	Test	0	\$	115.00	\$	0.00
	Proctor Test a) Modified	Test	0 ·	\$	108,00	\$	0.00
	b) Slandard	Test	0	\$	102.00	\$	0.00
	Bitumen Extraction	Test	0	\$	150.00	\$	0.00
	Bitumen Gradation	Test	0		450.00		
m	ENGINEERING/COORDINATION/MANAGE		U	\$	150.00	\$	0.00
	Project Manager	Hour	D	\$	165.00	\$	0.00
	Principal Engineer	Hour	0	\$	150.00	\$	0.00
	Senior Engineer	Hour	1	\$	125.00	\$	125.00
	Project Engineer	Hour	3	\$	100.00	\$	300.00
	Senior Technician	Hour	0	\$	75.00	\$	0.00
	CADD	Hour	0	\$	75.00	\$	0.00
	Badging/iraining	Hour	0	\$	65.00	\$	0.00
The ur	nit rates provided are those for both public and	private sectors.				\$	2,970.00

Raj Krishnasamy, P.E Principal Beotechnical Engineer



HILLERS ELECTRICAL ENGINEERING, INC.

May 31, 2011

Mr. Daniel Tompkins, P.E., P.M. CH2M HILL, Inc. 3001 PGA Blvd., Suite 300 Palm Beach Gardens, FL. 33410

Subject:

Electrical Design Services Fee Proposal for the Palm Beach County

Department of Airports (DOA) - TASK PBI-XXX (RUNWAY 10L-28R

REHABILITATION PROJECT).

Dear Dan:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2M HILL (CH) an electrical design services fee proposal for the DOA PBIA Runway 10L-28R Rehabilitation Project.

The following tasks are included in our scope of services:

Basic Services will follow four (4) distinct Phases 1-4. Phase 1 will consist of Preliminary Design (Approx. 15% Design Completion). Phase 2 is Design Development (Approx. 30% Design Completion). Phase 3 will consist of progress submittals of sixty percent (60%, Phase 3A), ninety percent (90%, Phase 3B), and one hundred percent (100%, Phase 3C) of the Contract Documents. Phase 4 will consist of Bidding and Award of the Contract Documents.

- Includes site visits & coordination meetings with DOA, FAA, County Departments and Design Team Meetings.
- Includes on-site verifications, review of existing maintenance records and testing with the assistance of DOA Electrical Maintenance Department.
- Includes on-site verifications, review of existing FAA maintenance records and interviews with the FAA Technical Group.
- Includes Engineers Electrical Report per submittal.
- Includes all electrical calculations and regulator load testing.
- Includes airfield vault modifications for new runway regulators.
- Includes airfield control panel system modifications for new regulators.
- Includes modifications to the existing Runway edge & centerline lighting systems (lighting fixtures & circuit conductor systems).
- Includes modifications to the FAA MALSR in-pavement lighting system (lighting fixtures & circuit conductor systems).
- Includes (9) new Runway In-Pavement Guard Lighting Systems (new lighting fixtures, circuit conductors, lighting control system modifications and airfield vault modifications).

Page 2 Mr. Dan Tompkins, P.E., P.M. Scope & Fee for PBIA Runway 10L – 28R Rehabilitation Project (DOA & FAA Electrical & Lighting Systems).

- Includes modifications to existing taxiway's edge lighting systems (lighting fixtures & circuit conductors systems.
- Includes modifications to existing airfield electrical duct bank and FAA duct bank modifications.
- Includes airfield signage layouts, installation details and signage schedules.
- Includes airfield lighting electrical plans reflecting all cable & conduit systems, edge lighting installations, electrical for signage, airfield vault modification, duct bank systems and installation details for all electrical & lighting equipment installations.
- CH shall provide all base drawings to HEE on AutoCAD 2008.
- HEE shall provide electrical design to CH 1-set reproducible for 30, 60%, 90%, 100% reviews, permits and bid phases.
- Includes Engineers Electrical Report per submittal.
- HEE shall provide all FAA specifications electrical bid line items and cost estimates.
- CH shall provide all printing of Plans & Specifications for reviews, bid phases, permits to the DOA.
- Provide bid & award services Bid Package
- Does not include Construction services.

Our proposed Lump-Sum for Design & Bid & Award is: \$145,150.00

(See attachment breakdown)

Sincerely,

Thomas Doran, Vice-President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBIA Runway "10L-28R" Rehabilitation DOA & FAA Electrical & Lighting Design. HILLERS ELECTRICAL ENGINEERING, INC.

SCOPE FEE SUMMARY

FEE PROPOSAL ELECTRICAL DESIGN to Ch 5/31/11

Rate		\$100.00	\$95.00	\$75.00		\$45.00	Γ.		
nate	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	 	Clerical	Total		TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST
DESIGN	110013	710013	710073	riouis	Tiours	710013	110013	LAPENSES	\$0.00
Design Mtgs FAA, DOA, CH	8	48	48			8	112	 	\$10,600,00
On site verifications\Discovery Ph(DOA & FAA)	4	16	16	8		4	48		\$4,340.00
Programming / Engineering Report	8	32	24	16		16	96		\$8,280.00
Electrical Calculations	4	40	16	1		4	64		\$6,140.00
Airfield Elec. Vault Modifications	8	48	56	40		4	156		\$14,180.00
Airfield Lighting Control System	4	12	24	16		2	58		\$5,210.00
Runway Edge & Centerline Lighting Systems	16	72	96	88		4	276		\$24,860.00
Taxiway's Connector Edge Lighting Systems	8	24	40	32		8	112		\$9,840.00
Relocate R/W's Land & Hold Short Systems	2	8	24	16		2	52		\$4,590.00
(9) New R/W Guard Lighting Bar Systems	8	20	48	40		4	120		\$10,620.00
Airfield Signage & Schedules	4	16	24	24		4	72		\$6,300.00
DOA Installation Details & Layouts	2	8	16	24		2	52		\$4,430.00
FAA NAVAIDS / MALSR Systems	8	24	48	32		8	120		\$10,600.00
FAA Installation Details & Layouts	4	16	24	24		4	72		\$6,300.00
DOA Specifications & Cost Estimates & Bid Items	8	48	24			16	96		\$8,680.00
FAA Specifications & Cost Estimates & Bid Items	8	32	16			12	68		\$6,140.00
Bid & Award	4	16	16	4		4	44		\$4,040.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
Subtotal	108	480	560	364	0	106	1618		\$145,150.00
									\$0.00
Construction Services									\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
Subtotal	0	0	0	0	0	0	0		\$0.00
Grand Total Hours	108	480	560	364	0	106	1618		
Grand Total Labor Cost	\$11,880,00	\$48,000.00	\$53,200.00	\$27,300.00	\$0.00	\$4,770.00			\$145,150.00

RUNWAY 10L-28R PAVEMENT EVALUATION AT PALM BEACH INTERNATIONAL AIRPORT

OVERVIEW

Runway 10L-28R at Palm Beach International Airport has been identified for rehabilitation. The runway is approximately 10,000 feet long by 150 feet wide and has a hot-mix asphalt (HMA) surface. Applied Pavement Technology, Inc. (APTech) has teamed with CH2M HILL to provide a comprehensive pavement investigation and to develop design recommendations for this rehabilitation project. The scope of work presented herein outlines APTech's approach for conducting this comprehensive, project-level evaluation and analysis.

PROJECT APPROACH

The proposed investigation includes a review of available records, a detailed visual condition survey, nondestructive testing (NDT) using a heavy-weight model falling weight deflectometer (FWD), and assistance with coring and boring activities. Subsequent activities include an analysis of the condition survey and deflection data, a determination of the condition of the pavement layers, and the development of rehabilitation alternatives. This level of work is required to fully document the in-place condition of this runway and to evaluate its ability to be rehabilitated to meet future needs.

The scope of work presented herein outlines APTech's approach for conducting this comprehensive, project-level evaluation and analysis. The tasks to complete the required work include the following:

- Task 1. Records Review.
- Task 2. Pavement Investigation.
- Task 3. Pavement Data Analysis and Development of Rehabilitation Alternatives.
- Task 4. Pavement Design Reports.

A detailed description of the proposed tasks to accomplish this evaluation is presented below.

Task 1. Records Review

Prior to beginning field work, APTech will review all pertinent records concerning the included runway and taxiway pavement areas. This includes a review of previous network-level PCI surveys or other condition evaluations, construction records, traffic histories, traffic projections, and traffic patterns.

The information collected during this task will be used to efficiently plan the field work conducted in subsequent tasks, as well as to conduct the pavement analysis and to develop rehabilitation designs. APTech will work with CH2M HILL to obtain this information from the Airport.

Task 2. Pavement Investigation

APTech's field investigation for this project will include a detailed visual inspection and deflection testing of the pavement. APTech will also provide assistance with the geotechnical investigation.

Visual Condition Survey

For this detailed, project-level investigation, the project team proposes to visually inspect 100 percent of the pavement area. This level of detail provides the project team with the information necessary to accurately characterize the pavement condition, to identify localized areas with severe distress, and to determine any areas that require structural testing outside of the normal testing pattern. Additionally, the project-level survey provides the project team with distress quantities and locations that may be necessary if any repair activities are required prior to the application of rehabilitation treatments.

For this visual investigation, the project team will follow the PCI survey procedures documented in FAA Advisory Circular 150/5380-6B, *Guidelines and Procedures for Maintenance of Airport Pavements*, and ASTM Standard D5340-10, *Pavement Condition Survey Procedure for Airfield Pavements*. In addition to the PCI surveys, all severe distresses that may require repair in conjunction with the selected rehabilitation option or prior to the start of construction will be mapped so they can easily be identified for repair.

Digital photographs of the pavement will also be obtained to record the condition at the time of inspection. The survey work will be coordinated with CH2M HILL and the Airport to minimize the impact to airport operations. It is assumed that the pavement inspections will need to be performed during nighttime closures under artificial lighting.

Falling Weight Deflectometer Testing

Nondestructive deflection testing with an FWD provides a wealth of information about the load-carrying capabilities of the pavement and the uniformity of support conditions. The results of a properly conducted testing program can be used to determine the structural integrity and load-carrying capacity of the existing pavement sections. The results also supplement the condition inspections and coring data in areas where structural distresses are apparent, and provide inputs for determining the extent of any strengthening that may be needed beyond a standard overlay.

Deflection testing will be performed using APTech's Dynatest Model 8082 heavy-weight model FWD, which is capable of simulating in magnitude and duration the loads imparted to an airfield pavement by a moving aircraft tire. FWD testing will be conducted following the guidance in FAA Advisory Circular 150/5370-11A, *Use of Nondestructive Testing in the Evaluation of Airport Pavements*. It is anticipated that FWD testing can be performed during nighttime closures and will be coordinated with CH2M HILL and the Airport.

With the FWD, a dynamic load is applied to the pavement by dropping a set of masses onto a circular load plate resting on the pavement surface, as illustrated in figure 1. A range of load magnitudes is achieved by varying the number of masses used and the heights from which they are dropped. The actual load magnitude is measured using a load cell within the load plate, and the resulting deflections are measured by transducers located at the center of the load plate and at preset distances away from the load plate, as illustrated.

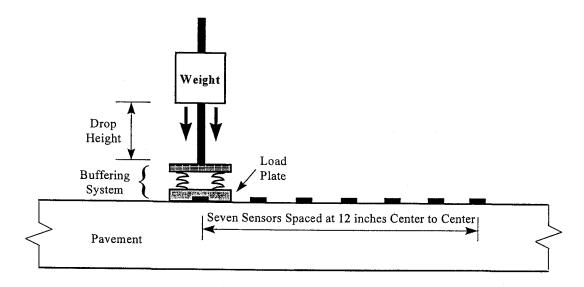


Figure 1. Schematic diagram of FWD testing equipment.

The FWD equipment is configured to address local conditions. The purpose of the customized configuration is to simulate the actual loading conditions in the field. Given the variety of aircraft operating at Palm Beach International Airport, the following configuration is envisioned:

- Three-drop test sequence of approximately 25,000, 35,000, and 45,000 lbs.
- Large load plate with an 8.9-inch radius.
- Sensors spaced at 0, 12, 24, 36, 48, 60, and 72 inches.

However, the final testing configuration may be modified based on a review of the traffic information and discussions with CH2M HILL and the Airport.

For this project-level evaluation, APTech proposes to perform testing in six lanes—three on either side of the runway centerline. Testing will be performed at 100-feet intervals in the two lanes nearest the centerline, at 200-feet intervals in the two middle lanes, and 200-feet intervals in the outer two lanes to provide an assessment of the pavement condition. Testing between lanes will be staggered to provide adequate lateral coverage of the facility. Additional testing may be performed as needed, such as areas of greater deterioration. FWD testing can be performed in 3 nights (based on anticipated 6-hour testing window) assuming minimal disruptions.

The proposed testing pattern provides a thorough distribution of test locations throughout the pavement sections and provides sufficient data to accurately evaluate the material properties and to analyze the load-carrying capacity and materials properties of each section. Specific results that will be generated from this testing program include: normalized deflections, elastic modulus (E) of individual pavement layers, and subgrade support (elastic modulus for flexible pavement). The results will also be used as inputs in subsequent analyses to assess the pavement structural capacity and feasible rehabilitation alternatives.

Geotechnical Investigation Assistance

Based on preliminary results of the visual survey and deflection testing, APTech will provide input for coring and boring locations for sampling. The objective of the geotechnical investigation is to obtain samples and perform materials testing to determine the pavement cross sections, to assess the underlying conditions of the pavement structure, and to determine properties of the in-place materials. APTech will coordinate this activity with CH2M HILL and Tierra South Florida, Inc. (TSF), the geotechnical consultant on the project team.

It is anticipated that at each core location, TSF will visually examine and document the condition of the bound pavement layers, as well as measure the core thickness. The visual inspection will evaluate the relative quality of bond between pavement layers and identify signs of stripping or other subsurface abnormalities. Digital photographs of the cores are also requested. The base/subbase aggregates and soils will also be measured for thickness and field-classified, and samples will be obtained for laboratory testing from 8 boring locations.

The map in Exhibit A shows the general location of the coring and boring samples. APTech will pinpoint the location of the samples following visual inspection of the runway; the locations will be marked in the field and revised on the map. The locations will be selected to ensure that materials are collected at locations of interest for the overall analysis, including intact pavement areas and areas where the materials or pavement conditions indicate a need for additional examination below the pavement surface.

Task 3. Pavement Data Analysis and Development of Rehabilitation Alternatives

The results of the records review, condition surveys, FWD testing, and geotechnical investigation will be analyzed to determine the overall structural condition of the pavement. The results of the condition surveys will be used to calculate PCIs for each pavement section. Additionally, the distress information will be analyzed to determine the types of distress present in each pavement section and the primary cause of deterioration (structural, climatic, or other). The PCI will also be compared to the previous network-level PCI to evaluate the rate at which each pavement section is deteriorating. This assessment will be used to determine what rehabilitation alternatives will provide acceptable performance over time and what areas might need to be repaired prior to any rehabilitation.

The FWD data will be used to evaluate the structural capacity of each pavement section included in the study. Deflection profiles will be plotted to illustrate the maximum deflections (correlated to a standard load). Areas with changes in pavement structural capacity or current condition will be evident from the longitudinal deflection profiles. Deflection testing data will also be used to backcalculate material properties of the subgrade and pavement layers using layered elastic analysis for the HMA pavements. These results will also be illustrated using graphical plots. The results will further be used as inputs for the development of pavement rehabilitation designs.

Based on the results of the analysis and the project and design criteria identified in discussions with CH2M HILL and the Airport, various repair and rehabilitation design alternatives (including milling and HMA overlay, HMA reconstruction, and PCC reconstruction) will be developed to address existing deficiencies and meet the project design requirements. Rehabilitation strategies will be designed in accordance with FAA Advisory Circular (AC) 150/5320-6E, Airport Pavement Design and Evaluation. The need for additional measures, such

as pre-overlay repairs and reflective crack control treatments, will also be evaluated and recommended if deemed to be beneficial.

Task 4. Pavement Design Report

The results of all field and laboratory investigations, analyses, and recommendations will be presented in a detailed design report. This report will present the comprehensive testing and evaluation conducted during the project, describe the development of alternative rehabilitation strategies, and provide the final rehabilitation recommendations.

A draft of the report will be delivered electronically to CH2M HILL for review and comment. Three hard copies, as well as an electronic file, of the final report will be submitted to CH2M HILL and will incorporate comments from the review of the draft report.

PROJECT TEAM AND EXPERIENCE

APTech's proposed project team includes Monty Wade as Program Director, James Bruinsma as Project Manager, Prashant Ram and Matthew Brynick as Engineering Associates, Dusty Pulleyblank as FWD Operator, and Gen Long as QA/QC Administrator. Mr. Wade will assume overall responsibility for this project and will oversee the project's progress and deliverables. Mr. Bruinsma will be responsible for the conduct of the day-to-day project activities and will serve as the primary contact with CH2M HILL. Mr. Ram and Mr. Brynick will play a key role in the data collection, analysis of the data, and determining pavement designs. Finally, Ms. Long will provide technical review and quality assurance throughout the project. Additional engineers and technicians may be used to assist with the drafting and analysis tasks, as needed.

APTech's key personnel are able to complete this project to the level of quality and responsiveness that is required. This team has worked together on many previous airfield design and evaluation projects, including projects at O'Hare International Airport, Orlando International Airport, Burlington International Airport, and Phoenix-Mesa Gateway Airport, to name only a few. APTech has also conducted previous pavement management and evaluation projects at Palm Beach International Airport.

SCHEDULE

APTech can initiate the work immediately upon notice to proceed (NTP). An initial trip will occur within 2 weeks of NTP to collect the pavement records and to start the badging process. Once the fingerprinting results are cleared, APTech will initiate its field work within 2 weeks, which is planned to be completed within 1 week assuming there are no significant weather delays or access issues. APTech's deliverables are dependent on the availability of other work and information. APTech can submit the draft Pavement Design Report within 4 weeks of completing the field work and receiving all requested information (geotechnical report, plan sets, past reports, traffic data, etc.). Upon receipt of comments on the draft report, APTech will submit the final Pavement Design Report within 2 weeks.

PROJECT COSTS

APTech's proposed costs for the scope as described herein are summarized in table 1. The total proposed cost is \$70,668, which includes labor and overhead, plus expenses for reproducing the final report, consumable materials, FWD testing, travel, and badging/security issues.

Table 1. Proposed project costs.

Task Description	Cost
1. Records Review	\$1,660
2. Pavement Investigation	\$44,528
Pavement Data Analysis and Development of Rehabilitation Alternatives	\$15,040
4. Pavement Design Reports	\$9,440
Total Cost	\$70,668

		Estimat	Estimated Labor Hours					%	
Name Name	Title	Task 1	Task 2a	Task 2b	Task 2c	Task 3	Task 4	Total	Time
Monty Wade	Program Director	2		2	2	4	8	18	2
Gen Long	QA/QC Administrator	2		2	_	4	2	10	1
Jim Bruinsma	Project Manager	2	2	24	2	24	24	78	8
Prashant Ram	Engineering Associate	4	_	72	2	40	24	142	14
Matthew Brynick	Engineering Associate			48	- 1	24		72	7
Dustin Pulleyblank	Technician		12	28		40	8	88	8
Total Staffing Hours		10	14	176	6	136	66	408	<u> </u>

	.]	Estimat	ed Labor (Costs]	Loaded
Name	Title	Task 1	Task 2a	Task 2b	Task 2c	Task 3	Task 4	Total	Rate
Monty Wade	Program Director	\$400		\$400	\$400	\$800	\$1,600	\$3,600	\$200.00
Gen Long	QA/QC Administrator	\$320		\$320		\$640	\$320	\$1,600	
Jim Bruinsma	Project Manager	\$340	\$340	\$4,080	\$340	\$4,080	,	\$13,260	
Prashant Ram	Engineering Associate	\$420		\$7,560	, , , , , ,	\$4,200			
Matthew Brynick	Engineering Associate			\$5,040		\$2,520	7,	\$7,560	
Dustin Pulleyblank	Technician		\$840	,		\$2,800		\$6,160	
Total APTech Direct L	abor (TADL)	\$1,480	\$1,180			\$15,040		\$47,090	

		Estimat	ed Other I	Direct Cos	ts				Unit
Other Direct Costs		Task 1	Task 2a	Task 2b	Task 2c	Task 3	Task 4	Total	Rate
Materials and Services		\$150					\$300	\$450	
Communications and Ship	ping	\$30	\$60	\$60			\$60	\$210	
Travel				\$6,561	i		111	\$6.561	(Circumitation)
FWD Mob and Testing	3 nights; approx 1225 mi each way		\$12,689					\$12,689	
FWD Travel		H	\$1,268					\$1,268	
Subcontractor	Lighting - 4 nights at \$600/night		41,200	\$2,400				\$2,400	
Total Other Direct Costs	(TODC)	\$180	\$14,017	\$9,021		·	\$360	\$23,578	

	Estimat	ed Overall	Cost				1
Overall Cost Summary	Task 1	Task 2a	Task 2b	Task 2c	Task 3	Task 4	Total
Total APTech Direct Labor (TADL)	\$1,480	\$1,180	\$19,360	\$950	\$15,040	\$9,080	\$47,090
Total Other Direct Costs (TODC)	\$180	\$14,017	\$9,021			\$360	\$23,578
TOTAL ESTIMATED COST AND ODC FEE	\$1,660	\$15,197	\$28.381	\$950	\$15,040	\$9 440	\$70,668

EXHIBIT "B"

DETAILED FEES & EXPENSES

TASK I-11-PBI-C-002

PBIA GOLFVIEW IMPLEMENTATION PLANNING

SIGNATURE FLIGHT SUPPORT DEVELOPMENT REVIEW

Table B-1
Labor/Fee Estimate Summary (CH2M Hill) - Palm Beach International Airport - Golfview Implementation Planning - Signature Flight Support Development Review

				Labor Estima	ate (Hours)				Fe	e Estimate	∍ (\$)	
Description -11-PBI-C-002 - Golfview Implementation Planning Support -Signature Flight Development Review	·	Senior Technologist / Senior Project Manager	Project Manager / Design Manager / Task Leader	Project Engineer / Plannner / Associate Project Manager	Staff Engineer / Planner	Design Technician	Total	Labor	E:	xpenses		Total
Signature Flight Support CSP Review	Total	0	21	4		6	31	\$ 3,968	S		s	3
1.1 Review Signature's Conceptual Site Plan		0	2	δ	0		3	\$ 365	Š		~===	
1.2 Provide summary of key considerations for Signature Development		0	3	0	õ	4	7	\$ 729	\$		š	
1.3 Review Signature's Revised Conceptual Site Plans		0	8	4	0	1	13	\$ 1,708	\$	_	Š	1
1.4 Coordination with Signature Flight Support Consultants		0	2	0	0	0	2	\$ 292	Š	-	Š	
1.5 Three (3) Coordination Meetings - Conf Call (Preparation, Attendance, and Follow-up)		0	6	0	0	0	6	\$ 875	\$	•	\$	
Belvedere Roadway Traffic Signal Airspace Analysis	Total	0	0	6	0	22	28	\$ 2,304			<u> </u>	
2.1 Coordination with Southern Resource Mapping of Miami		0	0		0	2	3	\$ 2,304	- \$		_	
2.2 Evaluate Existing and Future Part 77 Approach/Transitional Surfaces		0 .	ŏ	5	0	4	9	\$ 263 \$ 876	\$	-	\$	
2.3 Develop Existing and Future Airspace Analysis Graphics		Ō ·	ō	ō	ő	16	16	\$ 1,165	\$	-	\$	
Belvedere Roadway Perpendicular Geometric Analysis	Total	0	1	5	0	6						
3.1 Review Intersection Deflection Criteria	. I Otal	0		2		,	12	\$ 1,168	<u> </u>		\$	
3.2 Evaluate Country Club Road and Belvedere Road Existing Conditions		0	,	. 3	0	1	4	\$ 453	\$	•	\$	
Update Preliminary Geometry Graphic (Figure 6)		0	0	0	0 0	2 3	5 3	\$ 497 \$ 218	\$ \$		\$ \$	
Develop Roadway ROW and Canal Maintenance Access Alternatives	Total	4		19	Ö	20						
4.1 Review SFWMD and LWDD Criteria / Coordination	1014	0		4	0	0	49	\$ 5,301	\$	-		
4.2 Canal ROW / Maintenance Access Alternatives Analysis		2	2	3	ň	2	6	\$ 760	\$	•	\$	
4.3 Roadway Right-of-Way Alternatives Analysis		2	2	. 8	0		9	\$ 1,161	\$	-	\$	
4.4 Roadway Right-of-Way Alternatives Concept Typical Sections		Ō	ő	4	0	2 16	14 20	\$ 1,747 \$ 1,633	\$ \$	•	\$ \$	
Signature Feasibility Study/Site Plans and Construction Documents Review	.Total	26	76	46	12	2	162	\$ 22,619				
5.1 Review Signature's Site Investigation Report prepared by Kimley-Horn and Associates, Inc.		6	10	0	<u>'</u>				<u> </u>	100	<u> </u>	2
5.2 Evaluate Minimum Dry Detention Req'ts. Associaated with Signature's 7.5 acre Development Area		ñ	2	8	4	U	16	\$ 2,578	\$	-	\$	
5.3 Review Construction Documents for Signature's Development at 30% Milestone		4	12	10	4 A	2	16	\$ 1,759	\$	-	\$	
5.4 Review Construction Documents for Signature's Development at 60% Milestone		4	12	10	4	0	30 30	\$ 4,052 \$ 4,052	\$	•	Ş	
5.5 Review Construction Documents for Signature's Development at 90% Milestone		2	8	4	,	0	14		Þ	•	\$	
5.6 Review Construction Documents for Signature's Development at 100% Milestone		2	6	4	ň	n	12	\$ 2,008 \$ 1,716	\$	-	Þ	
5.7 Assist DOA with Evaluation of Signature Site Plan Reg'ts vs. Ultimate Development Needs		4	16	10	ő	n	30	\$ 4,250	\$	-	Þ	
5.8 Five (5) Coordination Meetings		4	10	0	ő	Ö	14	\$ 2,205	\$	100	\$:
HILL LUMP SUM TOTAL		30	104	80	12	56	282	\$35,360		\$100		\$3
RS ELECTRICAL ENGINEERING, INC. LUMP SUM TOTAL								\$00,000		410U		\$1



HILLERS ELECTRICAL ENGINEERING, INC.

July 28, 2011

Mr. Daniel Tompkins, P.E., P.M. CH2M HILL, Inc. 3001 PGA Blvd., Suite 300 Palm Beach Gardens, FL. 33410

Subject:

Electrical Engineering Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TASK PBI-XXX. Site Electrical & Lighting Third Party Design Review for the proposed – PBI Signature Site Development Project- Includes FPL, AT&T, Cable Companies Main Site Distribution Systems, Main Entrance Road, Parking Lot, Apron Flood Lighting Systems, New Taxiway Edge Lighting & Signage and Airfield FAA & DOA Systems Modifications. Scope & Fee is based on Proposed PBI Site Plan dated 5-31-2011.

Dear Dan:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2M HILL (CH) an electrical engineering services fee proposal for the DOA PBIA Third Party Design Review for the proposed Site Signature Development Project.

The scope consists of the following items:

- All design review meetings with DOA, FPL, ATT, PB County P&Z and CH Design Team.
- Review all electrical and lighting calculations and design shall meet all NEC, Palm Beach County and FAA Codes & Standards.
- Review design for new site main FPL, ATT, Cable communications distribution systems entering from Belvedere Rd.
- Review design for entrance road, parking lot, apron lighting system utilizing the Palm Beach County lighting code. Includes review of all point by point lighting calculations and installation details and plan layouts for lighting poles and underground electrical systems.
- Review proposed and existing electrical demands on existing taxiway edge lighting circuit accordingly.
- Review design for new Taxiway Signature lighting & signage systems per the FAA & DOA standards.
- Review design for modifications for existing Taxiway "F" lighting & signage for connection of the new Signature Taxiway. Includes installation details and plan layouts for lighting poles and underground electrical systems.
- CH shall provide all design plans to HEE for 30%, 60%, 90%, and 100% for reviews.
- Does not include new buildings, fuel systems, fire protection, and security systems.

Page 2
Mr. Dan Tompkins, P.E., PM
Scope & Fee Proposal for Signature Site Development Project – Electrical & Lighting Third Party Review.

Does not include Construction Services.

Our proposed lump-sum fee for electrical & lighting design reviews is: \$10,915.

Sincerely,

Thomas Doran, Vice-President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- Third Party Review for PBIA Signature Development Electrical & Lighting Design. HILLERS ELECTRICAL ENGINEERING, INC. SCOPE FEE SUMMARY

FEE PROPOSAL ELECTRICAL DESIGN to CH 7/28/11

Rate	\$110.00	\$100.00	\$95.00	\$75.00		\$45.00			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech		Clerical	Total		TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST
DESIGN									\$0.00
Design Mtgs FAA, DOA, CH, FPL, ATT, Signature	1	8	8			1	18		\$1,715.00
30% Review & Comments	1	12	12			1	26		\$2,495.00
60% Review & Comments	1	16	16			1	34		\$3,275.00
90% Review & Comments	1	12	12			1	26		\$2,495.00
100% Review & Comments	1	4	4			1	10		\$935.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
	·						0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
Subtotal	5	52	52	0	0	5	114		\$10,915.00
									\$0.00
Construction Services									\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
							0		\$0.00
Subtotal	0	0	0	0	0	0	0		\$0.00
Grand Total Hours	5	52	52	0	0	5	114		
Grand Total Labor Cost	\$550.00	\$5,200.00	\$4,940.00	\$0.00	\$0.00	\$225.00			\$10,915.00

EXHIBIT "B"

DETAILED FEES & EXPENSES

TASK II-11-DOA-C-001

2012 ENVIRONMENTAL COMPLIANCE MONITORING, INSPECTION & TRAINING SERVICES

Exhibit F

r/Fee Estimate Summary - 2011 Environmental Compliance Monitoring, Inspection & Training Services

							Labor Estim	nate (Hours)						Fee Estim
sk Description		Program Manager / Principal / Senior Consultant	Senior Technologist / Senior Project Manager	Project Manager / Design Manager / Task Leader	Project Engineer / Plannner / Associate Project Manager	Staff Engineer / Planner	Design Technician	Graphics Support / Adminstrative Manager	Admin.	Threshold inspector	Construction Manager	Project Estimator / Scheduler	Total Labor Hours	Total
Task No II-11-BOA-C-001														
I.O Basic Services	Total		16	32	52	42	70	<u></u>	12		<u> </u>	<u></u>	232	\$ 25,05
1.01 Task Kick-off and Coordination Meetings/Conf Calls		0	0	4	4	0	0	0	0	0	0	0	8	\$ 1,05
1.02 Subconsultant Coordination		0	0	8	12	0	0	8	4	0	0	0	32 48	\$ 3,385
1.03 DOA, Tenant and Consultant Coordination		. 0	0	8	16	10	10	U	4	O .	0	0	48	\$ 4,973
1.04 Drainage and Basin Map Update		_					_				_			
Taxiway F Extension		0	Ů.	o .	!	2	5	0	0	0	0	0	8	\$ 67
Taxiway D High-Speed Exit		Ü	0		!	3	2	0	0	0	0	0	6	\$ 55
Galaxy Southside Improvements		. 0	0	0	1	3	5	0	0	0	0	0	9	\$ 770
Taxilane T		0	0	Ü		3	.	ů,	0	Ů.	0	0	8	\$ 69
DOA Administration Building 846		0	0	0	1	2	4	Ů.	U	0	0	0		\$ 60
Apron A Expansion		0	U	Ů.		3		Ů.	0	Ů.	. 0	Ü	10	\$ 84
Taxiway C4 High-Speed Exit		0	Ü	0	1	3	3	0	U .	0	0	0		\$ 62
Taxiway L Extension		Ü	0	0	2	•	12	ŭ	0	0	0	0	18	\$ 1,49
Air Traffic Control Tower		Ü	0	u .		3		. 0	u .		0	0	10	\$ 84
Golfview Development - Signature Flight Support (7.5 Acres)		0	0	0	!	3	,	0	0	0	0	0	!!	\$ 91
Rurway 10L-28R Rehabilitation		. 0	0	U	1	3	6		o .	0	Ü	Ü	10	\$ 84
1.05 Monthly Progress Reporting		0	0	4	8	0	0	0	4	0	0	0	16	\$ 1,76
1.06 Quality Control/Quality Assurance			16 N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	0		24	\$ 4,15
1.07 Expenses (Mileage, Mailings and Reprographics)		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	\$ 879
2M HILL Grand Total		0	16	32	62	42	70	6	12		. 0	0	232	25,054
oconsultant Fees														
Total Subconsultant Lump Sum Fee - Cyriacks Environmental Consulting Services (CECOS)		\$85,938												
oconsultant Grand Total		\$85,938												
at Lump Sum Fee- Basic Engineering Services		\$110,991												

Prepared by: CH2M HILL, INC.



July 11, 2011

Dan C. Tompkins, P.E. Project Manager CH2M HILL, INC. 3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410

Re:

Task II-11-PBI-C-001

Palm Beach County Department of Airports (PBCDOA)

2011 Environmental Compliance Monitoring, Inspection & Training Services (Rev. 4)

Revised Rates (2011) Palm Beach County, Florida

Dear Mr. Tompkins:

Cyriacks Environmental Consulting Services, Inc. (CECOS) is pleased to submit the revised proposal to provide environmental consulting services for the subject project. Our fee estimate is based on the scope of services identified as Exhibit A-II-1 of Task II-11-PBI-C-001 and information provided by CH2M HILL.

Estimated Fee Summary

The lump sum fee (labor and expenses) to complete the identified scope of work is \$85,937.77. Please refer to Attachment I, for a revised Fee Estimate Table detailing the cost for these environmental services. As per your request, this fee proposal has been revised to reflect 2011 rates; no other changes have been made. The cost presented in this document take into consideration the information provided in the Exhibit A-II-1 (Scope of Services - Task II-11-PBI-C-001). Also, our fee estimate takes into consideration the following assumptions:

- No special graphics or technical meeting material is anticipated to be prepared.
- Preparation of a new drainage map is not anticipated. Comments (mark-ups) to drainage map (based on field observation during SWPPP inspections) will be provided to CH2M HILL by CECOS. Copy of the drainage maps must be provided in PDF and AutoCAD format.
- Copies of all previous documents, reports, files, inspections forms, SWPPP brochure, SPCC pamphlet and training material (e.g. Power Point Presentation) will be provided to CECOS.
- It is assumed that SWPPP brochure and SPCC pamphlet will require minor revisions.
- Our cost and scope is limited to the update of previous SWPPP documents, inspections, SWPPP brochure, SPCC pamphlet and training (i.e. Power Point Presentation).
- Permit renewal, or NPDES Individual Permit is not included.
- No as-built and land survey plans preparation anticipated.
- Development of numeric effluent limitations is not included.
- Environmental Site Assessment Investigations (Phase I / II) are not included as part of this scope and cost estimate.

Cyriacks Environmental Consulting Services, Inc 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442 954.571.0290 Fax: 954.571.7112

Mr. Dan Tompkins Airports General Consulting Services Contract Task II-11-PBI-C-001 July 11, 2011 Page 2 of 2

- The cost of the proposal does not include any activity related to permit application preparation, renewal
 or modification, amendments, mitigation, restoration, groundwater modeling, analytical testing and
 laboratory analysis, among others. Also does not include services described in Section 2 of Exhibit A-II1 (Special Services).
- Only one SWPPP general site inspection is anticipated per airport (PBI, F45, Lantana, and Pahokee).
- Documents will be subject to one round of revisions by the Client.
- The Client will be responsible to provide all necessary information for the implementation of this scope.
- The Client shall pay additional compensation associated with efforts not specified in this proposal, if required. CECOS will notify in advance to the Client if this situation arise. Any additional effort shall be negotiated between the Client and CECOS, and must be approved before the required action.
- Agency permit application/processing fees are not included.
- SWPPP's update due to a new facility construction and/or stormwater system or a change to the stormwater system at the airports, this shall be conducted and compensated under a separate agreement.

Schedule

Upon receipt of project authorization, preparation of work activities will begin. We will perform our scope of work within the thirteen (13) months duration indicated on Page A-7 of the Scope of Services provided and attached.

We are very excited about continuing to work with you on this project and appreciate the opportunity to provide these services to you. Please contact me if you have any questions or need additional information.

Very truly yours,

Cyriacks Environmental Consulting Services, Inc.

Wendy Cyriacks
Wendy Cyriacks

Attachments:

CECOS Fee Estimate – SWPPP Services CH2M HILL Scope of Services

> Cyriacks Environmental Consulting Services, Inc 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442 954.571.0290 Fax: 954.571.7112

Fee Estimate - CECOS - Revised Rates
Task II-11-PBI-C-001
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS
2011 Environmental Compliance Monitoring, Inspection & Training Services
Prepared: 05-24-11 (DR)
Revised: 07-11-11

Hourly Billing Rate (2011)	\$175.00	\$118.00	\$85.00	\$78.00	\$63.00	
			Classi	fication		
Task Description	Principle	Sr. Environmental Scientist	Environmental Scientist	GIS Analyst	Administrative Assistant	Total
1.0 SWPPP Editorial Revisions, Inspections & Training						
Palm Beach International Airport > Total Hours	16	106	61	0	29	21
1.1 In-House Data Collection	3	18	2	0	11	34
1.2 Annual Compliance Inspections (44 Tenants)	6	30	16	0	0 ,	52
1.3 Report Preparation	5	41	42	0	12	100
1.4 Training Workshop	2	17	1	0	6	26
North County General Aviation Airport (F45) > Total Hours	15	77	53	0	17	16
1.1 In-House Data Collection	3	10	4	0	4	21
1.2 Annual Compliance Inspections (9 Tenants)	6	18	8	0	0	32
1.3 Report Preparation	5	33	40	0	11	89
1.4 Training Workshop	1	16	1	0	2	20
Palm Beach County Park Airport (Lantana) > Total Hours	11	91	52	0	21	17
1.1 In-House Data Collection	3	10	4	0	4	21
1.2 Annual Compliance Inspections (20 Tenants)	2	26	9	0	0	37
1.3 Report Preparation	5	39	38	0	15	97
1.4 Training Workshop	1	16	1	0	2	20
Palm Beach County Glades Airport > Total Hours	9	55	17	4	11	g
1.1 In-House Data Collection	2	2	8	0	3	15
1.2 Annual Compliance Inspections (1 Tenant)	0	11	3	0	0	14
1.3 Report Preparation	4	28	6	4	6	48
1.4 Training Workshop	3	14	0	0	2	19
1.0 SWPPP Editorial Revisions, Inspections & Training Fee	\$8,925.00	\$38,822.00	\$15,555.00	\$312.00	\$4,914.00	\$68,528.0
2.0 Special Services	N/A	N/A ′	N/A	N/A	. N/A	N/A
3.0 Client Coordination, Meetings and Management		British (Fig.	Fere sea			运搬通报 的
3.1 - 3.2 Coordination & Meetings with PBCDOA > Hours	10	55	14	0	2	8
3.3 Project status reports > Hours	13	13	0	0	13	3
3.0 Client Coordination, Meetings and Management Fee	\$4,025.00	\$8,024.00	\$1,190.00	\$0.00	\$945.00	\$14,184.0
Labor Totals					BRANCH	
Total Estimated Hours:	74	397	197	4	93	76
Sub-Total Estimated Labor Costs:	\$12,950	\$46,846	\$16,745	\$312	\$5,859	\$82,712.0
Sub-consultants	N/A	N/A-	N/A	N/A	N/A	. NA
Expenses Expenses (3,9%)	\$505,05	\$1,826.99	\$653.06	\$12.17	\$228,50	\$3,225.7
Agency Permit Fee (NPDES - NOI) - N/A	Ψ000.00	ψ1,U2U.33	ф000.00	912.17	\$220,00	\$3,223.7
					TOTAL	\$85,937

EXHIBIT "C" PROPOSED SCHEDULES

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT C

Proposed Schedules

Task I-11- PBI-C-001: Runway 10L-28R Rehabilitation

9 Months (275 Calendar Days) from the NTP

Task I-11- PBI-C-002: Golfview Implementation Planning- Signature Flight Support Development Review

6 Months (180 Calendar Days) from the NTP

Task II-11-DOA-C-001: 2012 Annual Environmental Compliance Monitoring, Inspection, and Training Services

13 Months (390 Calendar Days) from the NTP

EXHBIT "D"

DBESCHEDULE 1 – PARTICIPATION BY DBE SCHEDULE 2 – LETTERS OF INTENT

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT D

Disadvantaged Business Enterprise Compliance

Table D-1 summarizes the estimated fees for each of our team members that are a certified DBE, MBE and/or WBE firm, demonstrating that we will exceed the DBE goal of 25 percent during Work Program #1.

EXHIBIT "D" SCHEDULE FOR PARTICIPATION BY DISADVANTAGE BUSINESS ENTERPRISE CONSULTANTS (FORM DBE SCHEDULE 1)

PROJECT NAME:	vices		PROJECT NO:	424394	
NAME OF PRIME:	CH2M HILL, INC.				
CONTACT PERSON:	Daniel C. Tompkins			PHONE NO:	561-904-7510
SUBMITTAL DATE:	Septemebr 2011	···		_	
THIS FORM MUST ACCO	MPANY "LETTER OF INTENT T	O PERF	ORM BY D	BE SUBCONSU	LTANTS"
*					
Name, Address and Telephone Number of Minority Contractor	Type and Description of Work To Be Performed	Black	Hispanic	Women	Other (Please Specify)
1. A.D.A. Engineering 1800 Old Okeechobee Rd., Suite 102 West Palm Beach, FL 33409 (561) 615-8880	Stormwater Monitoring/ Permitting		11.54%		
2. Brown & Phillips 901 Northpoint Parkway, Suite 119 West Palm Beach, FL 33407 (561) 615-3988	Surveying Services	3.92%			
3. Cyriacks Environmental Consulting Services 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442 (954) 571-0290	Environmental Monitoring/ Phase I ESAs			7.78%	
4. F.R. Aleman & Associates 10305 NW 41Street, Suite 200 Miami, FL 33178 (305) 591-8777	Utility Locates			0.94%	
5. Hillers Electrical Engineering, Inc. 23257 State Road 7, Suite 100 Boca Raton, FL 33428 (561) 451-9165	Airfield Lighting/ Electrical Engineering		12.27%		
6.Tierra South Florida 2765 Vista Parkway, Suite 9 West Palm Beach, Fl 33411 (561) 687-8536	Geotechnical Engineering/ Material Testing / Inspection Services		3.20%		
	TOTAL	3.92%	27.01%	8.72%	0.00%
PRIME CONSULTANT TO COMPLETE: Total % Participation	3	9.65%			-

Exhibit D – Disadvantaged Business Enterprise Compliance (Work Program #1)

LETTER OF INTENT TO PERFORM AS A DBE SUBCONSULTANT

TO:	CH2M HILL	
	(NAME OF PRIME CONSULTANT)	1000
	3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410	
	(ADDRESS)	
	CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE - Pr	roject Manager
FROM:		
	(NAME OF SUBCONSULTANT)	
	1800 Old Okeechobee Road, Suite 202, West Palm Beach, F	1 33409
	(ADDRESS)	
	CONTACT PERSON & TITLE: Alex Vazquez, PE, Vice Pres	ident
The u	ndersigned intend to perform work in connecti ct as (check one):	on with the above
brole	·	a corporation
	a partnership	-
The u	ndersigned is certified by Palm Beach Cour	
Airpo	rt as a DBE.	
Attac	n proof of DBE certification.	
The 1	undersigned is prepared to perform the follo	wing described work
in co	onnection with the above project (specify in items or parts thereof to be performed:):	n detail particular
Stormy	vater Monitoring /Permitting	
which	is a 11.54 % of the total estimated dolla	r value of work to
be pe	rformed on the named project.	ir varao or work oo
The u	ndersigned will enter into a formal ac	greement for the
descr	ibed work with the above-named prime conted contract with Palm Beach County.	sultant upon an
		س است مدار آبات کا اگر سور مور مور مور سور پس پس به راه راه در ۱۹۵ کا ۱۹۵ کا ۱۹۵ کی وور دور دور در
PBC 1	DEPARTMENT OF AIRPORTS PROJECT: General Consulting	Services
	A.D.A. Engineering, Inc	561-615-8880
	(NAME OF DBE SUBCONSULTANT FIRM)	(TELEPHONE #)
F	Ex: Sutte O. Chardy	8/10/11
	(SIGNATURE OF REPRESENTATIVE)	(DATE)
	Ivette O. Argudin – Vice President	
	(NAME & TITLE OF SIGNATURE REPRESED PRINT/TYPE	NTATIVE)
	A A SA A A A A A A A A A A A A A A A A	

Revised 10/01/96



CHARLE CRIST

005 Sewanner Street Tottahasser FL 32399-0450 STEPHANE C. KOPETAN SON SECRETARS

March 31, 2008

Certified Mail - Return Receipt Requested

Ivette O. Argudin, Vice President A.D.A. Engineering, Inc 11401 SW 40th Street, Suite 470 Miami, FL 33146

ANNIVERSARY DATE - Annually on August 17

Dear Ms. Argudin:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the Florida Unified Certification Program [UCP] as a Disadvantaged Business Enterprise [DBE] in accordance with Part 49 Section 26. Code of Federal Regulations.

DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the Anniversary Date. You must submit the annual AFFIDAVIT FOR CONTINUING ELIGIBILITY no later than the Anniversary Date. Failure to do so will result in immediate action to decertify the firm

Only those firms listed in the UCP DBE Directory are certified by Florida UCP Members. Prime contractors and consultants are urged to verify your firm's current certification status of the firm through this Directory.

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet at http://www.bipincwebapps.com/biznetflorida/ or through The Department website at http://www.bipincwebapps.com/biznetflorida/ or through The Department website at https://www.bipincwebapps.com/biznetflorida/ or through The Department website at https://www.bipincwebapps.com/biznetflorida/ or through The Department website at https://www.bipincwebapps.com/biznetflorida/ or through The DBE, Directory."

DBE certification is **NOT** a guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (EAA, FTA and FHWA) projects in Florida's a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier



If at any time, there is a material change in the firm, including, but not limited to, ownership, officers, Directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of the firm, you must notify this office, in writing, within (30) days. Notification should include supporting documentation. You will receive timely instruction from this office as to how you should proceed, if necessary.

Your firm is eligible to compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, and may earn DBE credit for work performed in the following areas:

NAICS:	FDOT Specialty Code & Description
541340	947-CADD Services
541620	950-Environmental Consulting Services
541690	963-Economic Consultant Services

Questions and concerns should be directed to this office by mail or telephone Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879.

Sincerely,

John Goodeman

DBE Certification Manger



State of Florida Minority, Women & Service-Disabled Veteran

Business Certification

A.D.A. Engineering, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes for a period from:

05/10/2010 to 05/10/2012

Linda H. South, Secretary

Florida Department of Management Services
Office of Supplier Diversity

BizNet Profile: A D A ENGINEERING INC

Name: A D A ENGINEERING INC

Business Description: ENGINEERING FIRMS

Street: 8550 NW 33RD ST STE 101

City: DORAL State: FL Zip: 33122

County: DADE District: DISTRICT SIX

Phone: (305) 551-4608 **Fax:** (305) 551-8977

E-mail: aargudinjr@adaengineering.com

Work Location:

County: CNTY/ST-WIDE

District: DIST/ST WIDE

Contact: IVETTE O ARGUDIN

UCP Cert. DBE State Cert.: MBE UCP Certifying Member: FDOT

First SC: 950 First NAICS: 54162

2nd SC: 963 3rd SC: 947 4th SC: 5th SC: 6th SC: 7th SC: 8th SC: 9th SC: 10th SC:

2nd NAICS: 54169 3rd NAICS: 54134 4th NAICS: 5th NAICS: 6th NAICS: 7th NAICS: 8th

NAICS: 9th NAICS: 10th NAICS:

NOTE:

OBE stands for Other Business Enterprise indicating that the firm is not certified.

Florida Department of Transportation 2008.

LETTER OF INTENT TO PERFORM AS A DBE SUBCONSULTANT

TO:	CH2M HILL	
	(NAME OF PRIME CONSULTANT)	
	3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410 (ADDRESS)	
	CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE - Pro	oject Manager
FROM:	Brown & Phillips, Inc.	
	(NAME OF SUBCONSULTANT)	
	901 Northpoint Parkway, Suite 119, West Palm Beach, Fl 334 (ADDRESS)	107
	CONTACT PERSON & TITLE: John E. Phillips, III, President	
The u	ndersigned intend to perform work in connection ct as (check one):	on with the above
	an individual X	a corporation
	a partnership	a joint venture
The u	ndersigned is certified by Palm Beach Countrt as a DBE.	y Department of
Attacl	n proof of DBE certification.	
work :	indersigned is prepared to perform the follow connection with the above project (specify in items or parts thereof to be performed:): ing Services	ing described work detail particular
which be per	is a 3.92 % of the total estimated dollar formed on the named project.	value of work to
descr	ndersigned will enter into a formal agribed work with the above-named prime consted contract with Palm Beach County.	reement for the sultant upon an
PBC I	DEPARTMENT OF AIRPORTS PROJECT: General Consulting	Services
В	Brown & Phillips, Inc. (NAME OF DBE SUBCONSULTANT FIRM) W:	561-615-3988 (TELEPHONE #)
	(SIGNATURE OF REPRESENTATIVE)	(DATE)
	John E Phillips, III, President	
	(NAME & TITLE OF SIGNATURE REPRESENT	PATIVE)
- 1	PRINT/TYPE	

Revised 10/01/96



CHARLIF CRIST GOVERNOR

605 Suwarnee Street Tollahassee, FL 32399-0450

STEPHANIE C. KOPELOUNOS SECRETARY

January 19, 2010

Anthony Brown, CEO BROWN & PHILLIPS, INC. 901 Northpoint Parkway, Suite 119 West Palm Beach, Florida 33407

Dear Mr. Brown:

The Florida Department of Transportation has reviewed your application for qualification package and determined that the data submitted is adequate to qualify your firm for the following types of work:

Group 8 - Survey and Mapping

8.1 - Control Surveying

8.2 - Design, Right of Way & Construction Surveying

8.4 - Right of Way Mapping

Your firm is now qualified to do work for the Department for minor projects only. This level of qualification allows consultants to compete for minor projects with fees estimated at below \$250,000.00.

Your Notice of Qualification shall be valid for one year from the date of this letter. We will automatically notify your firm 45 to 60 days prior to your update deadline.

Should you have any questions, please feel free to contact me at 850/414-4485.

Sincerely,

Lorraine E. Odom Professional Services

Qualification Administrator

Rossaine & Oxlom

LEO/smr

www.dot.state.fl.us

(♦) 1.5 mm = 1.50 mm.



State of Florida

Business Certification

Brown & Phillips, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes for a period from:

January 28, 2010

to

January 28, 2012

Torey Alston, Executive Director

Florida Department of Management Services
Office of Supplier Diversity

PALM BEACH COUNTY OFFICE OF SMALL BUSINESS ASSISTANCE

CERTIFIES THAT

BROWN AND PHILLIPS, INC.

VENDOR # BROW0082

is a Small /Minority Business Enterprise as prescribed by Section 2-80.21 - 2-80.35 of the Palm Beach County Code for a three year period from January 25, 2010 to January 24, 2013.

The following Services and/or Products are covered under this certification:

Surveying and Mapping Services

Palm Beach County Board of County Commissioners

Burt Aaronson, Chairman Karen T. Marcus, Vice Chairperson Jeff Koons Shelley Vana Steven L. Abrams Jess R. Santamaria Priscilla Taylor

County Administrator

Robert Weisman

Deputy County Administrator
Verdenia C. Baker

Hazel Oxendine, Director

1.25.2010



BizNet Profile: BROWN & PHILLIPS INC

Name: BROWN & PHILLIPS INC

Business Description: LAND SURVEYING

Street: 901 NORTHPOINT PARKWAY SUITE #119

City: WEST PALM BEACH State: FL Zip: 33407

County: PALM BEACH District: DISTRICT FOUR

Phone: (561) 615-3988 **Fax:** (561) 615-3986

E-mail: TONY@BROWN-PHILLIPS.COM

Work Location:

County: ST. LUCIE BROWARD MARTIN PALM BEACH HENDRY

District: DISTRICT FOUR DISTRICT ONE

Contact: ANTHONY BROWN

UCP Cert. DBE State Cert.: MBE UCP Certifying Member: FDOT

First SC: 946 First NAICS: 54137

2nd SC: 3rd SC: 4th SC: 5th SC: 6th SC: 7th SC: 8th SC: 9th SC: 10th SC:

2nd NAICS: 3rd NAICS: 4th NAICS: 5th NAICS: 6th NAICS: 7th NAICS: 8th NAICS: 9th

NAICS: 10th NAICS:

NOTE:

OBE stands for Other Business Enterprise indicating that the firm is not certified.

Florida Department of Transportation 2008.

LETTER OF INTENT TO PERFORM AS A DBE SUBCONSULTANT

TO:	CH2M HILL
	(NAME OF PRIME CONSULTANT)
	3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410
	(ADDRESS)
	CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE - Project Manager
FROM:	- 7) - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
	(NAME OF SUBCONSULTANT)
	3001 SW 15th Street, Suite B, Deerfield Beach, Fl 33442 (ADDRESS)
	CONTACT PERSON & TITLE: Wendy Cyriacks, President
The u	ndersigned intend to perform work in connection with the above ct as (check one):
	an individual X a corporation
	a partnership a joint venture
The u	ndersigned is certified by Palm Beach County Department of ct as a DBE.
Attacl	proof of DBE certification.
THE CC	indersigned is prepared to perform the following described work innection with the above project (specify in detail particular
WOLK :	tems or parts thereof to be performed:).
EHVIIOI	nmental Monitoring / Phase 1 ESAs
which be per	is a $\frac{7.78}{}$ % of the total estimated dollar value of work to formed on the named project.
descr	ndersigned will enter into a formal agreement for the ibed work with the above-named prime consultant upon an ted contract with Palm Beach County.
PBC I	DEPARTMENT OF AIRPORTS PROJECT: General Consulting Services
	Cyriacks Environmental Consulting Services, Inc. (CECOS) 954-571-0290
	(NAME OF DBE SUBCONSULTANT FIRM) (TELEPHONE #)
E	Ex: Milman Wards 8/11/11
	(SIGNATURE OF REPRESENTATIVE) (DATE)
	Wendy Cyriacks, President
	(NAME & TITLE OF SIGNATURE REPRESENTATIVE)
m!	PRINT/TYPE

Revised 10/01/96

<u>BizNet</u> Profile: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES INC

Name: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES INC

Business Description: ENVIRONMENTAL CONSULTING SERVICES; MITIGATION

SERVICES

Street: 3001 SW 15TH STREET SUITE B

City: DEERFIELD BEACH State: FL Zip: 33442

County: BROWARD District: DISTRICT FOUR

Phone: (954) 571-0290 **Fax:** (954) 480-9962

E-mail: wc@cecosenvironmental.com

Work Location:

County:

District: DIST/ST WIDE

Contact: WENDY CYNACKS

UCP Cert. DBE State Cert.: MBE UCP Certifying Member: FDOT

First SC: 950 First NAICS: 54162

2nd SC: 954 3rd SC: 4th SC: 5th SC: 6th SC: 7th SC: 8th SC: 9th SC: 10th SC:

2nd NAICS: 56291 3rd NAICS: 4th NAICS: 5th NAICS: 6th NAICS: 7th NAICS: 8th NAICS:

9th NAICS: 10th NAICS:

NOTE:

OBE stands for Other Business Enterprise indicating that the firm is not certified.

Florida Department of Transportation 2008.

LETTER OF INTENT TO PERFORM AS A DBE SUBCONSULTANT

TO:	CH2M HILL
	(NAME OF PRIME CONSULTANT)
	3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410 (ADDRESS)
	CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE - Project Manager
FROM:	F.R. Aleman & Associates, Inc.
	(NAME OF SUBCONSULTANT)
	10305 NW 41Street, Suite 200, Miami, FL 33178 (ADDRESS)
	CONTACT PERSON & TITLE: Dennis Stanton, Director of Subsurface Utility Engineering
The u	ndersigned intend to perform work in connection with the above ct as (check one):
	an individual a corporation
	a partnership a joint venture
Attack	ndersigned is certified by Palm Beach County Department of rt as a DBE. n proof of DBE certification.
work:	indersigned is prepared to perform the following described work onnection with the above project (specify in detail particular items or parts thereof to be performed:): Locates
be per The u descr	is a 0.94 % of the total estimated dollar value of work to rformed on the named project. Indersigned will enter into a formal agreement for the ibed work with the above-named prime consultant upon an
execu	ted contract with Palm Beach County.
PBC I	DEPARTMENT OF AIRPORTS PROJECT: General Consulting Services
	F.R. Aleman & Associates, Inc. 301-591-8777
	(NAME OF DBE SUBCONSULTANT FIRM) (TELEPHONE #)
E	84: 8/10/1/
	(SIĞNATURE OF REPRESENTATIVE) (DATE)
	Dennis Stanton, Director of Subsurface Utility Engineering
	(NAME & TITLE OF SIGNATURE REPRESENTATIVE) PRINT/TYPE

Revised 10/01/96



Florida Department of Transportation

RICK SCOTT GOVERNOR

605 Suwannee Street Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E. SECRETARY

April 29, 2011

Certified Mail - Return Receipt Requested

FRANK R ALEMAN F R ALEMAN & ASSOCIATES INC 10305 NW 41 STREET SUITE 200 MIAMI FL 33178

ANNIVERSARY DATE - Annually on April 14

Dear Mr. Aleman:

The Florida Department of Transportation (FDOT) is pleased to announce that your firm has been certified under **Florida's Unified Certification Program (UCP)** as a **Disadvantaged Business Enterprise (DBE)** in accordance with 49 Code of Federal Regulation Part 26.

DBE Certification is continuing, but it is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the **Anniversary Date**. You must submit the annual **AFFIDAVIT FOR CONTINUING ELIGIBILITY** no later than the **Anniversary Date**.

Only firms listed in the UCP DBE Directory are certified by Florida UCP Members.

Prime contractors and consultants should verify your firm's DBE certification status, and identify the work area(s) for which the firm is DBE eligible, through this Directory.

Your firm will be listed in Florida's UCP DBE Directory which can be accessed through the Department's website: www.dot.state.fl.us/equalopportunityoffice and then selecting "DBE Directory".

DBE certification is **NOT** a guarantee of work. It allows your firm to compete for and perform contract work on ALL USDOT Federal Aid (FAA, FTA, and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If, at any time there is a material change you must advise this office, by sworn affidavit and supporting documents, within thirty (30) days. Changes include, but are not limited to, ownership, officers, directors, management, key personnel, scope of work performed, daily operations, ongoing business relationships with other firms or individuals, or the physical location of your firm. After our review, you will

www.dot.state.fl.us

receive instructions as to how you should proceed, if necessary. Failure to do so will be deemed a failure, on your part, to cooperate, and will result in immediate action to remove DBE certification.

Your firm is eligible to compete for and perform work on all USDOT Federal Aid projects throughout Florida and may earn DBE credit for work performed in the following areas:

NAICS 23821 -Electrical Contractors 54134 -Drafting Services 541512 -Computer Systems Design Services 54169 -Other Scientific and Technical Consulting Services 54169 -Other Scientific and Technical Consulting Services 54182 -Public Relations Agencies

FDOT Specialty Codes

300 -Consultants 947 -Cadd Services 949 -Traffic Data Services 962 -Data Processing Consultant 968 -Public Relations Services 986 -Fiber Optics

Questions and concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our fax number is (850) 414-4879.

Sincerely,

Michael Klumb Interim DBE Certification Manager

LETTER OF INTENT TO PERFORM AS A DBE SUBCONSULTANT

(NAME OF PRIME CONSULTANT) 3001 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410 (ADDRESS) CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE – Project Manager FROM: Hillers Electrical Engineering, Inc.
(ADDRESS) CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE – Project Manager
CONTACT PERSON & TITLE: Mr. Dan Tompkins, PE - Project Manager
FROM: Hillers Electrical Engineering Inc.
(NAME OF SUBCONSULTANT)
23257 State Road 7, Suite 100 Boca Raton, FL 33428 (ADDRESS)
CONTACT PERSON & TITLE: Tom Doran, Vice President
The undersigned intend to perform work in connection with the above project as (check one):
an individual X a corporation
a partnership a joint venture
The undersigned is certified by Palm Beach County Department of Airport as a DBE. Attach proof of DBE certification.
The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed:):
Airfield lighting/electrical engineering
which is a 1007 % of the test of the second
which is a 12.27 % of the total estimated dollar value of work to be performed on the named project.
The undersigned will enter into a formal agreement for the described work with the above-named prime consultant upon an executed contract with Palm Beach County.
PBC DEPARTMENT OF AIRPORTS PROJECT: General Consulting Services
Hillers Electrical Engineering, Inc. 561-451-9165
(NAME OF DEE SUBCONSULTANT FIRM) (TELEPHONE #)
BY: 8/10/2011
(SIGNATURE OF REPRESENTATIVE) (DATE)

Revised 10/01/96



CHARLIE CRIST GOVERNOR

605 Suwannee Street Tallahassee, FL 32399-0450

STEPHANIE C. KOPELOUSOS SECRETARY

January 7, 2008

Certified Mail - Return Receipt Requested

Hillers Electrical Engineering, Inc. Mr. Paul Hillers 23257 State Road 7, Suite 100 Boca Raton FL 33428

ANIVERSARY DATE- Annually on September 14

Dear Mr. Hillers:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the Florida Unified Certification Program [UCP] as a Disadvantaged Business Enterprise [DBE] in accordance with Part 49 Section 26, Code of Federal Regulations.

DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the **Anniversary Date**. You must submit the annual **AFFIDAVIT FOR CONTINUING ELIGIBILITY** no later than the **Anniversary Date**. Failure to do so will result in immediate action to decertify the firm.

Only those firms listed in the UCP DBE Directory, are certified by Florida UCP Members. Prime contractors and consultants should verify your firms DBE certification status, and identify the only work area(s) for which the firm is DBE eligible, through this Directory.

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at http://www.bipincwebapps.com/biznetflorida/ or through The Department' website at www.dot.state.fl.us/equalopportunityoffice, then select "DBE Directory."

DBE certification is **NOT** a guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If, at any time, there is a material change in the firm, including, but not limited to, ownership, officers, Directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of the firm, you must notify this office, in writing, within (30) days. Notification should include supporting documentation. You will receive timely instruction from this office as to how you should proceed, if necessary.

Your firm is eligible to compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, and may earn DBE credit for work performed in the following areas:

NAICS: FDOT Specialty Code & Description
541330 942-Electrical Engineering Services

All questions or concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879.

Sincerely,

John Goodeman

DBE Certification Manager



State of Florida Minority, Women & Service-Disabled Veteran

Business Certification

Hillers Electrical Engineering, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes for a period from:

January 29, 2010

to

January 29, 2012

Torey Alston, Executive Director

Florida Department of Management Services
Office of Supplier Diversity

PALM BEACH COUNTY OFFICE OF SMALL BUSINESS ASSISTANCE

CERTIFIES THAT

HILLERS ELECTRICAL ENGINEERS, INC.

VENDOR # HILL0026

is a Small Business Enterprise as prescribed by Section 2-80.21 – 2-80.35 of the Palm Beach County Code for a three year period from September 28, 2009 to September 27, 2012.

The following Services and/or Products are covered under this certification:

Electrical Engineering Services

Palm Beach County Board of County Commissioners

Jeff Koons, Chairman
Burt Aaronson, Vice Chairman
Karen T. Marcus
Shelley Vana
Steven L. Abrams
Jess R. Santamaria

Priscilla A. Taylor

County Administrator

Robert Weisman

Deputy County Administrator

Verdenia C. Baker

Hazel Øxendine, Director

9.28.2009

BizNet Profile: HILLERS ELECTRICAL ENGINEERING INC

Name: HILLERS ELECTRICAL ENGINEERING INC

Business Description: ENGINEERING SERVICES

Street: 23257 STATE RD 7 STE 100

City: BOCA RATON State: FL Zip: 33433

County: PALM BEACH District: DISTRICT FOUR

Phone: (561) 451-9165 **Fax:** (561) 451-4886

E-mail: PHILLERS@HILLERSEE.COM

Work Location:

County: ST. LUCIE BROWARD INDIAN RIVER MARTIN PALM BEACH

District: DISTRICT FOUR

Contact: PAUL HILLERS

UCP Cert. DBE State Cert.: MBE UCP Certifying Member: FDOT

First SC: 942 First NAICS: 54133

2nd SC: 3rd SC: 4th SC: 5th SC: 6th SC: 7th SC: 8th SC: 9th SC: 10th SC:

2nd NAICS: 3rd NAICS: 4th NAICS: 5th NAICS: 6th NAICS: 7th NAICS: 8th NAICS: 9th

NAICS: 10th NAICS:

NOTE:

OBE stands for Other Business Enterprise indicating that the firm is not certified.

Florida Department of Transportation 2008.

LETTER OF INTENT TO PERFORM AS A DBE SUBCONSULTANT

TO: Cl	12M HILL	
	(NAME OF PRIME CONSULTANT)	**************************************
30	01 PGA Blvd, Suite 300 Palm Beach Gardens, FL 33410	
	(ADDRESS)	
cc	NTACT PERSON & TITLE: Mr. Dan Tompkins, PE - Proj	ect Manager
FROM:	Tierra South Florida, Inc.	
	(NAME OF SUBCONSULTANT)	
<u>27</u>	55 Vista Parkway, Suite 10, West Palm Beach, Fl 33411 (ADDRESS)	
C	ONTACT PERSON & TITLE: Raj Krishnasamy, P.E., Preside	ent
The unde	rsigned intend to perform work in connection as (check one):	n with the above
	as (check one): an individual X	a corporation
	a partnership	a joint venture
The unde	ersigned is certified by Palm Beach Count	y Department of
7	wood of ppm 1101 11	
Attaen p	roof of DBE certification. September 30,	2011
The und	ersigned is prepared to perform the following	ing described work
in conn	ection with the above project (specify in	detail particular
Geotechnic	ms or parts thereof to be performed:): al Engineering, Material Testing and Inspection Services	
	Section Berviee	
which is	a 3.20 % of the total estimated dollar	value of work to
be perfo	rmed on the named project.	
The und	ersigned will enter into a formal agr	eement for the
describ	ed work with the above-named prime const	ultant upon an
executed	contract with Palm Beach County.	
PBC DEP	ARTMENT OF AIRPORTS PROJECT: General Consulting S	ervices
	Tierra South Florida, Inc.	561-687-8536
	(NAME OF DBE SUBCONSULTANT FIRM)	(TELEPHONE #)
BY:	The state of the s	8/12/11
	(SIGNATURE OF REPRESENTATIVE)	(DATE)
	Raj Krishnasamy, P.E. , President	
	(NAME & TITLE OF SIGNATURE REPRESENT	ATIVE)
Povi cod	10/01/96 PRINT/TYPE	
VCATREO	10/01/96	



CHARLIE CRIST GOVERNOR

605 Suwannee Street Tallahassee, FL 32399-0450 STEPHANIE C. KOPELOUSOS SECRETARY

October 1, 2009

Certified Mail - Return Receipt Requested

Tierra South of Florida, Inc. Mr. Raj Krishnasamy, P.E. 2765 Vista Parkway, Suite 9 West Palm Beach FL 33411

ANNIVERSARY DATE - Annually on September 30

Dear Mr. Krishnasamy:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the Florida Unified Certification Program [UCP] as a Disadvantaged Business Enterprise [DBE] in accordance with Part 49 Section 26, Code of Federal Regulations.

DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the Anniversary Date. You must submit the annual AFFIDAVIT FOR CONTINUING ELIGIBILITY no later than the Anniversary Date. Failure to do so will result in immediate action to remove certification.

Only those firms listed in the UCP DBE Directory, are certified by Florida UCP Members. Prime contractors and consultants should verify your firm's DBE certification status, and identify the work area(s) for which the firm is DBE eligible, through this Directory.

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at http://www.bipincwebapps.com/biznetflorida/ or through The Department's website at www.dot.state.fl.us/equalopportunityoffice, then select "DBE Directory."

DBE certification is **NOT** a guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-lf, at any time, there is a material change, you <u>must advise this office</u>, by sworn affidavit and supporting documents, within thirty [30] days. Changes

include, but are not limited to, ownership, officers, Directors, management, key personnel, scope of work performed, daily operations, on-going business relationships with other firms or individuals, or the physical location of your firm. After our review you should receive instructions as to how you should proceed, if necessary. Failure to do so will be deemed a failure, on your part, to cooperate, and will result in immediate action to Remove DBE certification.

Your firm is eligible to compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, and may earn DBE credit for work performed in the following areas:

NAICS:	FDOT Specialty Code & Description		
541330	943-Geotechnical Engineering Services		
541380	944-Laboratory Testing Services		

All other concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879

Sincerely,

ohn Goodeman

DBE Certification Manager



State of Florida Minority, Women & Service-Disabled Veteran

Business Certification

Tierra South Florida, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes for a period from:

April 8, 2010

to

April 8, 2012

Torey Alston, Executive Director

Florida Department of Management Services
Office of Supplier Diversity

PALM BEACH COUNTY OFFICE OF SMALL BUSINESS ASSISTANCE

CERTIFIES THAT

TIERRA SOUTH FLORIDA, INC.

VENDOR # VC0000118568

is a Small /Minority Business Enterprise as prescribed by section 2-80.21 – 2-80.35 of the Palm Beach County Code for a three year period from February 4, 2009 to February 3, 2012.

The following Services and/or Products are covered under this certification:

Geological Engineering Services Laboratory Testing Services

Palm Beach County Board of County Commissioners

Jeff Koons, Chairperson
Burt Aaronson, Vice Chair
Karen T. Marcus
Shelley Vana
District 4
Jess R. Santamaria
Addie L. Greene

County Administrator
Robert Weisman
Deputy County Administrator
Verdenia C. Baker

Hazel Oxendine, Director



BizNet Profile: TIERRA SOUTH FLORIDA INC

Name: TIERRA SOUTH FLORIDA INC

Business Description: GEOTECHNICAL ENGINEERING CONSTRUCTION

MATERIAL TESTING THRESHOLD/SPECIAL

Street: 2765 VISTA PARKWAY SUITE 9

City: WEST PALM BEACH State: FL Zip: 33411

County: PALM BEACH District: DISTRICT FOUR

Phone: (561) 687-8539 **Fax:** (561) 687-8570

E-mail: RAJ@TIERRASF.COM

Work Location:

County:

District:

Contact: RAJ KRISHNASAMY PE

UCP Cert. DBE State Cert.: MBE UCP Certifying Member: FDOT

First SC: 943 First NAICS: 54133

2nd SC: 944 3rd SC: 4th SC: 5th SC: 6th SC: 7th SC: 8th SC: 9th SC: 10th SC:

2nd NAICS: 54138 3rd NAICS: 4th NAICS: 5th NAICS: 6th NAICS: 7th NAICS: 8th NAICS:

9th NAICS: 10th NAICS:

NOTE:

OBE stands for Other Business Enterprise indicating that the firm is not certified.

Florida Department of Transportation 2008.

EXHIBIT "E"

ADDITIONAL CONTRACT REQUIREMENTS FOR FEDERALLY FUNDED PROJECTS

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT E

Additional Contract Requirements for Federally Funded Projects

The following terms and conditions are applicable to all contracts funded in whole or part by Federal funds including, but not limited to, AIP funds.

Access to Records and Reports

The Contractor shall maintain an acceptable cost accounting system. The Contractor agrees to provide the Sponsor, the Federal Aviation Administration and the Comptroller General of the United States or any of their duly authorized representatives access to any books, documents, papers, and records of the contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period not less than three years after final payment is made and all pending matters are closed.

Airports and Airway Improvement Act of 1982, section 520 - General Civil Rights Provisions

The contractor assures that it will comply with pertinent statutes, Executive orders and such rules as are promulgated to assure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or handicap be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision obligates the tenant/concessionaire/lessee or its transferee for the period during which Federal assistance is extended to the airport a program, except where Federal assistance is to provide, or is in the form of personal property or real property or interest therein or structures or improvements thereon. In these cases the provision obligates the party or any transferee for the longer of the following periods: (a) the period during which the property is used by the airport sponsor or any transferee for a purpose for which Federal assistance is extended, or for another purpose involving the provision of similar services or benefits or (b) the period during which the airport sponsor or any transferee retains ownership or possession of the property. In the case of contractors, this provision binds the contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

Breach of Contract Terms

Any violation or breach of terms of this contract on the part of the contractor or their subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement. The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion

The bidder/offeror certifies, by submission of this proposal or acceptance of this contract, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the

Exhibit E – Additional Contract Requirements For Federally Funded Projects (Work Program #1) bidder/offeror/contractor or any lower tier participant is unable to certify to this statement, it shall attach an explanation to this solicitation/proposal.

Civil Rights Act of 1964, Title VI – Contractor Contractual Requirements

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

- 1.1 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.
- 1.2 Nondiscrimination. The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds 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 employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- 1.3 Solicitations for Subcontracts, Including Procurements of Materials and Equipment. In all solicitations either by competitive bidding or negotiation 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.
- 1.4 Information and Reports. The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Sponsor or the Federal Aviation Administration (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 so certify to the sponsor or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.
- 1.5 Sanctions for Noncompliance. In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the sponsor shall impose such contract sanctions as it or the FAA may determine to be appropriate, including, but not limited to:
 - a. 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.
- 1.6 Incorporation of Provisions. The contractor shall include the provisions of paragraphs 1 through 5 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 sponsor or the 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 a subcontractor or supplier as a result of such direction, the contractor may request the Sponsor to enter into such litigation to protect the interests of the sponsor and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

Disadvantaged Business Enterprises

Contract Assurance (§26.13) – The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate.

Lobbying and Influencing Federal Employees

- (1) No Federal appropriated funds shall be paid, by or on behalf of the contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the making of any Federal grant and the amendment or modification of any Federal grant.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any Federal grant, the contractor shall complete and submit Standard Form-LLL, "Disclosure of Lobby Activities," in accordance with its instructions.

Rights to Inventions

All rights to inventions and materials generated under this contract are subject to regulations issues by the FAA and the Sponsor of the Federal grant under which this contract is executed.

Trade Restriction Clause

The contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for the use on the project, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract at no cost to the Government

Further, the contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.

The contractor shall provide immediate written notice to the sponsor if the contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide written notice to the contractor if at any time it learns that its certification was erroneous by reason of changed circumstances

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct though the Sponsor cancellation of the contract or subcontract for default at no cost to the Government.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

Termination of Contract

- a. The Sponsor may, by written notice, terminate this contract in whole or in part at any time, either for the Sponsor's convenience or because of failure to fulfill the contract obligations. Upon receipt of such notice services shall be immediately discontinued (unless the notice directs otherwise) and all materials as may have been accumulated in performing this contract, whether accomplished or in progress, delivered to the Sponsor.
- b. If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
- c. If the termination is due to failure to fulfill the contractor's obligations, the Sponsor may take over the work and prosecute the same to completion by contract or otherwise. In such case, the contractor shall be liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.

- d. If, after notice of termination for failure to fulfill contract obligations, it is determined that the contractor had not so failed, the termination shall be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price shall be made as provided in paragraph 2 of this clause.
- e. The rights and remedies of the sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

