

PALM BEACH COUNTY  
 BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY

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Meeting Date: March 9, 2010	<input checked="" type="checkbox"/>	Consent	<input type="checkbox"/>	Regular
Department:	<input type="checkbox"/>	Workshop	<input type="checkbox"/>	Public Hearing
Submitted By: Department of Airports				
Submitted For:				

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I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve:

- (A) Amendment No. 1 to the General Consulting Agreement with Ricondo & Associates, Inc. for Consulting/Professional Services in an amount not to exceed \$1,705,342 for the continued performance of professional planning and design services related to the approved Palm Beach County Airports Capital Improvement Program; and
- (B) A Budget Transfer of \$1,705,342 in the Airports Improvement and Development fund from Reserves to provide budget to fund the consulting contract.

**Summary:** The Consulting Agreement (R-2009-1643) with Ricondo & Associates, Inc. for general airport planning and design was approved on October 6, 2009 in the amount of \$1,723,324 in order to carry out the approved Capital Improvement Programs for the County's Airports. The agreement is for 2 years with 2 one (1) year renewal options. Approval of Amendment No. 1 in the amount of \$1,705,342 will provide funds to complete the following tasks and services: Task I Services – Palm Beach International Airport (PBI A)–Taxiway D Construction Field Services, PBI A–West Commercial Properties Appraisal, Acquisition & Phase I Environmental Site Assessments, PBI A-Concourse C Exit Improvements, PBI A–Miscellaneous Pavement Repairs Construction Field Services, Palm Beach County Park (LNA) Stormwater Master Plan & Conceptual Permit, LNA-Miscellaneous Airfield Pavement Rehabilitation, Miscellaneous General Aviation (GA) Airport Security Improvements-Phase I, and, PBI A-Parcel W-326 Appraisal, Acquisition & Phase I Environmental Site Assessment; Task III Services – Miscellaneous Architectural, Engineering and Planning Services. Certain tasks performed during the term of this Amendment may be eligible for State and Federal grant participation. The Disadvantaged Business Enterprise (DBE) participation for this Amendment is 31.19%. The total DBE contract goal including all amendments is 29.23%.  
Countywide (JCM)

**Background and Justification:** In order to carry out the approved Capital Improvement Program for the County, the Department of Airports requires professional planning and design engineering services. This agreement is for 2 years with 2 one (1) year renewal options. This amendment allows for the continuation of services necessary for the development and operation of the County's airport system.

- Attachments:**
1. Amendment No. 1 with Ricondo & Associates, Inc. – 3 Originals
  2. Budget Transfer

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Recommended By: <u><i>JM Ricondo</i></u>	<u>1/27/10</u>
Department Director	Date
Approved By: <u><i>J. [Signature]</i></u>	<u>2/18/10</u>
County Administrator	Date

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2010	2011	2012	2013	2014
Capital Expenditures	\$1,705,342	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
<b>NET FISCAL IMPACT</b>	<b>\$1,705,342</b>	=====	=====	=====	=====
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

Is Item Included in Current Budget? Yes \_\_\_\_\_ No X  
 Budget Account No: Fund \_\_\_\_\_ Department \_\_\_\_\_ Unit \_\_\_\_\_ Object \_\_\_\_\_  
 Reporting Category \_\_\_\_\_

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

Approval of this item will provide budget for the above referenced project in account 4111-121-A107-6505. A transfer from reserves in the amount of \$1,705,342 is included in this transfer.

C. Departmental Fiscal Review: CM Simon

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Development and Control Comments:**

The total contract amount has increased by \$1,705,342 for additional services required for level 1 and level 3 Tasks.

John Bink  
 OFMB  
 2/2/10

Jan J. Jacobson 2/11/10  
 Contract Dev. and Control  
 E. Jones 2/11/10

**B. Legal Sufficiency:**

This amendment complies with our review requirements.

James C. [Signature] 2/17/10  
 Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director

**AMENDMENT NO. 1 TO CONTRACT  
BETWEEN  
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
AND  
RICONDO & ASSOCIATES, INC.  
FOR  
GENERAL CONSULTING SERVICES FOR ARCHITECTURAL, ENGINEERING,  
CONSTRUCTION MANAGEMENT, AND LAND DEVELOPMENT**

This Amendment No. 1 to the Contract is made as of the \_\_\_\_\_ day of \_\_\_\_\_, 2010, by and between Palm Beach County, Florida (County) and Ricondo & Associates, Inc., a corporation authorized to do business in the State of Florida, hereinafter referred to as the CONSULTANT, having its office and principal place of business at 20 North Clark Street, Suite 1500, Chicago, IL 60602 whose Federal Tax I.D. number is 36-3663903.

WITNESSETH

WHEREAS, on October 6, 2009, the County entered in to an Agreement (R2009 1643) with the CONSULTANT for the CONSULTANT to provide General Airport Consulting Services for the Palm Beach County Department of Airports, for a period of 24 months with up to two (2) additional twelve (12) month renewals at the County's Option (the Contract); and

WHEREAS, Article 25 of the Contract requires an amendment when the parties are able to define additional services and the parties have now defined those services,

NOW THEREFORE, in considerations of the mutual covenants herein contained, and such other good and valuable consideration, the receipt of which the parties hereby acknowledge, the parties agree to the following terms and conditions.

1. The parties hereby agree to amend the Contract to include the Scope of Services and Fees as outlines in Exhibit I. The total amount to be paid by the COUNTY to the CONSULTANT for professional services, including any out of pocket expenses, shall not exceed One Million, Seven Hundred Five Thousand, Three Hundred Forty-Two (\$1,705,342) for the services in Amendment No. 1 to the original Contract.
2. Except as specifically amended herein, all other terms and conditions of the Contract shall remain in full force and effect.

**IN WITNESS WHEREOF**, the parties have caused the First Amendment to the Contract to be signed by the Chairperson of the Board of County Commissioners and the Seal of said Board to be fixed hereto and attested by the Clerk of said board, and the CONSULTANT, Ricondo & Associates, Inc., has caused these present to be signed in its corporate name by its duly authorized officer, Pete Ricondo, Vice President, acting on behalf of said CONSULTANT, and the Seal of said CONSULTANT to be affixed hereto and attested by the Secretary of said CONSULTANT, the day and year first written above.

ATTEST:

PALM BEACH COUNTY, FLORIDA  
BOARD OF COUNTY COMMISSIONERS

SHARON R. BOCK  
CLERK AND COMPTROLLER

By: \_\_\_\_\_  
Deputy Clerk

By: \_\_\_\_\_  
Burt Aaronson, Chair


WITNESS:

CONSULTANT:

  
SIGNATURE

RICONDO & ASSOCIATES, INC  
COMPANY NAME

David Ramacorti  
Name (type or print)

  
Signature

PETE RICONDO  
Name (type or print)

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY


SENIOR VICE PRESIDENT  
Title

BY: \_\_\_\_\_

County Attorney

(Corporate Seal)

APPROVED AS TO TERMS  
AND CONDITIONS

By:   
Department Director

**EXHIBIT "I"**

**SCOPE OF SERVICE AND FEES**

- A. The scope of services for this Amendment #1 includes Level 1 tasks, as described in the Agreement dated October 6, 2009. Specifically, these services will include:

**Level 1 Tasks:**

- I-09-PBI-R-008: PBI Construction Field Services – Taxiway D  
I-09-PBI-R-009: PBI West Commercial Properties Appraisal, Acquisition & Phase I Environmental Site Assessments  
I-09-PBI-R-010: PBI Concourse C Exit Improvements  
I-09-PBI-R-011: PBI Construction Field Services – Miscellaneous Pavement Repairs  
I-09-LNA-R-012: LNA Stormwater Master Plan & Conceptual Permit  
I-09-LNA-R-013: LNA Miscellaneous Airfield Pavement Rehabilitation  
I-09-DOA-R-014: Miscellaneous GA Airport Security Improvements  
I-09-PBI-R-0015: PBI Parcel W-326 Appraisal, Acquisition & Phase I Environmental Site Assessments  
III-09-DOA-R-005: Miscellaneous Architectural, Engineering, Planning & Construction Services

- B. Method of payment for services and expenses of consultant:

Level 1 Tasks – For labor and expenses expended by Consultant for Level 1 Tasks, County shall pay Consultant the amount contained in **Table 1**.

Level 2 Tasks – There are no Level 2 Tasks associated with this amendment

Level 3 Tasks – All Level 3 Tasks will be allocated on an individual task basis at the DOA's discretion. A separate proposal and written authorization from the Department of Airports is required in advance of any services funded through the Level 3 Tasks. The method of payment for services provided will be prescribed within the Consultant Services Authorizations issued by the Department of Airports.

**Attachments:**

- |            |  |
|------------|--|
| Schedule 1 | Participation for DBE Consultants – AMENDMENT #1 |
| Exhibit A  | General Scope of Services – AMENDMENT #1         |
| Exhibit B  | Fee Schedules – AMENDMENT #1                     |

**Table 1**  
Level 1 Task Fee Structure - Amendment #1 (R&A Work Program #2)

Task Description	Lump Sum Amount	T&M Amount	Lump Sum Expenses	Reimbursable Expenses	Total Cost
<b>Level 1 Tasks:</b>					
<b>PBI:</b>					
I-09-PBI-R-008 PBI Const. Field Svcs. & Insp. - Exit Taxiway D	\$ -	\$ 175,470	\$ -	\$ 24,900	\$ 200,370
I-09-PBI-R-009 West Comm. Properties Appraisal & Acquisition	\$ 89,660	\$ 19,810	\$ 23,835	\$ 890	\$ 134,195
I-09-PBI-R-010 PBI Concourse C Exit Improvements	\$ 40,115	\$ -	\$ 3,700	\$ -	\$ 43,815
I-00-PBI-R-011 PBI Const. Field Services - Misc. Pavement Repairs	\$ -	\$ 465,178	\$ -	\$ 92,802	\$ 557,980
I-09-PBI-R-015 PBI Parcel W326 Property Appraisal & Acquisition	\$ 29,273	\$ 7,080	\$ 500	\$ 300	\$ 37,153
<b>LNA:</b>					
I-09-LNA-R-012 LNA Stormwater MP - Conceptual Permit	\$ 197,002	\$ -	\$ 9,958	\$ -	\$ 206,960
I-09-LNA-R-013 LNA Miscellaneous Airfield Pavement Repair					
Sub-Consultant Management & Coordination	\$ 6,160	\$ -	\$ 200	\$ -	\$ 6,360
Site Survey	\$ 11,077	\$ -	\$ 800	\$ -	\$ 11,877
Geotech	\$ 3,202	\$ -	\$ 4,100	\$ -	\$ 7,302
30 % Design	\$ 49,990	\$ -	\$ 1,550	\$ -	\$ 51,540
60 % Design	\$ 50,262	\$ -	\$ 1,200	\$ -	\$ 51,462
90 % Design	\$ 52,036	\$ -	\$ 1,200	\$ -	\$ 53,236
100% Design + Bid Documents	\$ 51,384	\$ -	\$ 1,500	\$ -	\$ 52,884
Bid Services & Construction Admin.	\$ -	\$ 37,738	\$ -	\$ 27,600	\$ 65,338
<b>Subtotal:</b>	<b>\$ 224,111</b>	<b>\$ 37,738</b>	<b>\$ 10,550</b>	<b>\$ 27,600</b>	<b>\$ 299,999</b>
<b>Misc.:</b>					
I-09-DOA-R-015 Misc. GA Airport Security Upgrades (Phase 1)	\$ 66,570	\$ -	\$ 8,300	\$ -	\$ 74,870
<b>Subtotal - Level 1 Tasks</b>	<b>\$ 646,731</b>	<b>\$ 705,276</b>	<b>\$ 56,843</b>	<b>\$ 146,492</b>	<b>\$ 1,555,342</b>
<b>Grand Total - Level 1 and 2 Tasks</b>	<b>\$ 646,731</b>	<b>\$ 705,276</b>	<b>\$ 56,843</b>	<b>\$ 146,492</b>	<b>\$ 1,555,342</b>

Sources: R&A Team  
Prepared by: Ricondo & Associates, Inc.

**PROJECT NAME:**Amendment #1 to Contract Between Palm Beach  
County and Ricondo & Associates, Inc. for Airport  
Consulting Services**RESOLUTION** 2009-1643  
**NO:****CONSULTANT:**

Ricondo &amp; Associates, Inc.

**PHONE NO.:** (305) 677-0372**CONTACT:**

David Ramacorti

**FAX NO.:** (305) 260-2728**DATE:**

5-Jan-10

**DEPARTMENT:** Airports

Name, Address and Phone Number of DBE Subcontractor	Type of Work to be Performed	DBE Subcontractor Amount			
		Black	Hispanic	Women	Other (Please Specify)
Hillers Electrical Engineering, Inc. 23257 SR 7, Suite 100 Boca Raton, FL 33428  Office: (561) 457-3765	Electrical Design and Construction Services	\$ -	\$ 31,730.00	\$ -	\$ -
CECOS Environmental Consulting Services, Inc 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442  Office: 954.571.0290	Phase I Environmental Assessments & Stormwater Conceptual Permitting Assistance	\$ -	\$ -	\$ 68,409.20	\$ -
ADA Engineering, Inc. 8550 NW 33rd Street, Suite 101 Doral, FL 33122  Office: (305) 551-4608	Construction Services & Stormwater Master Plan.	\$ -	\$ 249,943.00	\$ -	\$ -
TKW Consulting Engineering 5621 Banner Drive Fort Meyers, FL 33912  Office: (239) 278-1992	Engineering Support for PBI Concourse C Exit Modifications	\$ -	\$ -	\$ 2,000.00	\$ -
Nodarse Associates, Inc. 2448 Metrocentre Boulevard West Palm Beach, FL 33407  Office: (561) 616-0870	Geotechnical/Testing Services	\$ -	\$ -	\$ 165,876.00	\$ -
Brown & Phillips, Inc. 901 Northpoint Parkway West Palm Beach, FL 33407  Office: (561) 615-3988	Surveying	\$ 13,859.00	\$ -	\$ -	\$ -
	<b>Total:</b>	<b>\$ 13,859.00</b>	<b>\$ 281,673.00</b>	<b>\$ 236,285.20</b>	<b>\$ -</b>

<b>Total Fee:</b>	<b>\$1,705,342</b>	<b>Total % of DBE Participation:</b>	<b>31.19%</b>
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**EXHIBIT A**  
**GENERAL SCOPE OF SERVICES**  
**CONTRACT AMENDMENT #1 (WORK PROGRAM #2)**



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**PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

**EXHIBIT A**

**GENERAL SCOPE OF SERVICES**

This contract amendment #1 is comprised of Work Program #2, as described herein, and consists of nine tasks. As summarized below, these initial efforts have an overall budget of \$1.7 million and are comprise of Level 1 and Level 3 tasks only.

<b><u>Task Level / No.</u></b>	<b><u>Description</u></b>	<b><u>Budget</u></b>
<b>Level 1 Tasks:</b>		
I-09-PBI-R-008	PBI Construction Field Services – Taxiway D	\$ 200,370
I-09-PBI-R-009	PBI West Comm. Properties Appraisal/Acquisition & Ph I ESA	\$ 134,195
I-09-PBI-R-010	PBI Concourse C Exit Improvements	\$ 43,815
I-09-PBI-R-011	PBI Const. Field Services & QA Testing – Misc. Pvmnt. Repairs	\$ 557,980
I-09-LNA-R-012	LNA Stormwater Master Plan & Conceptual Permit	\$ 206,960
I-09-LNA-R-013	LNA Miscellaneous Airfield Pavement Rehabilitation	\$ 299,999
I-09-DOA-R-014	Miscellaneous GA Airport Security Improvements	\$ 74,870
I-09-PBI-R-015	PBI W-326 Property Appraisal, Acquisition & Phase I Env.	\$ 37,153
<b>Sub-total (Level 1)</b>		<b>\$1,555,342</b>
<b>Level 3 Tasks:</b>		
III-09-DOA-R-005	Miscellaneous AEP	\$ 150,000
<b>Sub-total (Level 3)</b>		<b>\$ 150,000</b>

<b>Grand Total (Work Program #2)</b>	<b>\$1,705,342</b>
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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**

**R&A Work Program #2 - Level 1 Tasks**

Level 1 tasks include any work effort agreed to between the COUNTY and the CONSULTANT that has a fixed scope and fee. Work Program #2 includes eight tasks assigned to Level 1, as follows.

<b><u>Task No.</u></b>	<b><u>Description</u></b>
Task I-09- PBI-R-008	PBI Construction Field Services and Inspections – Taxiway D
Task I-09- PBI-R-009	PBI West Commercial Properties Appraisal, Acquisition, Relocation Services & Phase 1 Environmental Site Assessments
Task I-09- PBI-R-010	PBI Concourse C Exit Improvements
Task I-09- PBI-R-011	PBI Construction Field Services and Inspection – Miscellaneous Airfield Pavement Repairs
Task I-09-LNA-R-012	LNA Storm-water Master Plan – Conceptual Permit
Task I-09-LNA-R-013	LNA Miscellaneous Airfield Pavement Rehabilitation
Task I-09-DOA-R-014	Miscellaneous GA Airport Security Improvements
Task I-09- PBI-R-015	PBI Parcel W-326 Property Appraisal, Acquisition, Relocation Services & Phase 1 Environmental Site Assessments

# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT A-I-1**

### **Task Scope Sheet**

Task I-09-PBI-R-008

PBI Construction Field Services – Taxiway D

### **Scope**

The CONSULTANT shall provide Construction Management and Inspection Services for previously designed Palm Beach International Airport airfield project “Construction of High Speed Exit Taxiway D”. The project was previously designed by LPA Group (Engineer-of-Record).

The specific services to be performed by the CONSULTANT will include the following:

- Check samples, catalog data, shop and mill tests of equipment and materials, and other data which the Contractor is required to submit, for general conformance and compliance with the information given in the Contract Documents.
- Review the construction schedule prepared and updated by the Contractor for compliance with the contract and give written advice to the Engineer-of-Record and DOA concerning its acceptability.
- Attend the pre-construction conference with the DOA, Engineer-of-Record, Contractor, and representatives of the Florida Department of Transportation and FAA.
- Schedule weekly progress meetings and other job meetings as required for the project and notify those expected to attend in advance. Maintain and circulate copies of records of the meetings.
- Assist the DOA in coordination with various stakeholders for activities that will affect day to day airport operations.
- Cooperate with the Contractor on the DOA’s behalf in dealings with the various local agencies having jurisdiction over the Project in order to complete permits and service connections to public utilities and facilities.
- Obtain field samples of materials delivered to the site and submit to the Engineer-of-Record and DOA, as required.
- Receive, distribute and retain submittals between the Contractor and the Engineer-of-Record for construction observation purposes.
- Alert the Contractor’s field superintendent and the Engineer-of-Record when materials or equipment are being installed before approval of shop drawings or samples are submitted.
- Conduct full time, on-site observations of the work-in-progress as a basis for determining that the project is proceeding in accordance with the Contract Documents.
- Receive and retain Contractor’s Requests for Information (RFI’s) to the Engineer-of-Record and review the Engineer-of-Record’s responses for construction observation purposes.

- Receive and retain copies of project bulletins, letters and project change orders submitted to the Engineer-of-Record. Evaluate the proposed scope of work and cost of said change orders and make recommendations to the DOA, if requested.
- Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, and record the outcome of these inspections.
- Maintain at the job site orderly files for correspondence, reports of job meetings, shop drawings and other submittals, reproductions of original Contract Documents including all addenda, change orders and additional drawings issued subsequent to the award of the contract, construction progress reports and other Project related documents.
- Keep a diary or log book, recording hours on the job site, weather conditions, list of visiting officials, daily activities, decisions made, observations in general, and specific observations in more detail as in the case of test procedures.
- Maintain daily reports with project photos and monitor quantities installed for each project.
- If required in the front-end documents, maintain a set of red-lined drawings for each project on which authorized changes are noted.
- Furnish the DOA daily reports and monthly summaries of progress of each project and the Contractor's compliance with the approved construction schedules.
- Advise the DOA in advance of scheduled major tests or start of important phases of each project.
- Review applications for payment and certified payrolls with the Contractor for compliance with the established procedure for their submission and forward them with recommendations to the DOA, noting particularly their relation to the work completed and materials and equipment delivered at the site.
- Participate in the final inspection for each project. Document all punch list items and provide follow-up coordination to help ensure that all punch list items are completed within 30 calendar days of the final inspection
- Coordinate and oversee all Quality Assurance Testing on behalf of the DOA as required by the design specifications. This work will be performed by the team's Geotechnical subconsultant and includes asphalt batch plant quality assurance testing and material inspection/testing during construction.
- Upon completion of the project, prepare and submit to the DOA for project closeout, supporting documentation for FAA and FDOT grant closure including copies of the following:
  1. Certified Payrolls
  2. Daily Reports and Monthly Summaries
  3. Final Inspection Meeting Minutes and Punch-List Items
  4. Project Summary Narrative
  5. Contract Completion Time Summary
  6. Engineers Certification of Construction
  7. Project Cost Summary showing all change orders
  8. Sponsor Certification of Plans and Specifications for DOA Signature
  9. Test Reports

**Items of Work Not Included in Scope**

Quality control (Responsibility of contractor for each project)  
FAA grant and payment services  
Review and approval of RFI's (Responsibility of Engineer-of-Record for each project)  
Construction Management Plan

**Supporting Sub-Consultants**

RW Armstrong-Construction Management  
ADA Engineering - Inspection  
Nodarse - Materials Testing  
Hillers Electrical Engineering - Inspections

**Data & Resources Required From Palm Beach DOA or Other Parties**

All Contract Documents for the projects listed above

**Deliverables**

Daily and Weekly Reports  
Final Inspection Meeting Minutes and Punch-List Items  
Project Summary Narrative  
Contract Completion Time Summary  
Engineers Certification of Construction  
Project Cost Summary showing all change orders  
Sponsor Certification of Plans and Specifications for DOA Signature  
Test Reports

**Estimated Duration / Completion Date**

155 calendar days from construction notice to proceed <sup>1/</sup>

<sup>1/</sup> As directed by Palm Beach County Department of Airports staff.

**Fee Type and Amount**

Time and Materials \$200,370

**PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

**EXHIBIT A-I-2**

**Task Scope Sheet**

Task I-09-PBI-R-009

PBI West Commercial Properties Appraisal, Acquisition Relocation Services and Phase 1 Environmental Site Assessment

**Scope**

This effort will provide appraisal, appraisal review, acquisition services and relocation services for three (3) commercial properties located on the above referenced project. Please note there may be four (4) non-residential relocations as a result of the purchase of the three fee parcels. All acquisition and relocation services provided by ORC and its designated sub consultants shall be performed in accordance with the FAA ORDER 5100.37B and the Uniform Relocation Act and its amendments, Federal Register, 49 CFR Part 24, Vol. 70, No. 2, dated January 4, 2005

Parcels to be acquired:

Parcel	Owner	Occupant	Address
W-314	Annie Holdings, LLC	Autocare of the Palm Beaches 1 unit for lease - potential displacee	325 N. Military Trail
W-316	Nikolaos Ikonomidis	Trail Auto Electric	365 N. Military Trail
W-321	Joy Auto Body	Collision 2000	481 N. Military Trail

A Phase I Environmental Site Assessment will also be performed for all three parcels to be acquired during this task. This effort will be conducted in accordance with American Society for Testing and Materials (ASTM) standards for performance of Phase I Environmental Site Assessments.

**Items of Work Not Included in Scope**

N/A

**Supporting Sub-Consultant**

O.R. Colan  
CECOS Environmental

**Data & Resources Required From Palm Beach DOA or Other Parties**

None

**Deliverables**

Appraisal report and appraisal review report  
Property titles and title commitments  
Closing documentation  
Offer letters  
Purchase agreements, applicable relocation notices and payment documentation  
Phase 1 Environmental Site Assessment Report

**Estimated Duration / Completion Date**

24 months from Issuance of Notice to Proceed

**Fee Type and Amount**

Appraisal, Acquisition & Relocation Services  
Phase I Environmental Site Assessment

Fixed Fee - \$113,495  
Time & Materials - \$ 20,700  

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**Total - \$134,195**



## PALM BEACH COUNTY GENERAL CONSULTING SERVICES

### EXHIBIT A-I-3

#### Task Scope Sheet

Task I-09-PBI-R-010

PBI Concourse C Exit Improvements

#### Scope

The Consultant shall review the existing conditions at the Concourse C exit lane adjacent to the TSA Passenger screening checkpoint, and the latest Concourse C Life Safety Analysis document, in order to determine a proposed solution for the current unsecured condition between the Landside Terminal and Concourse C gates. The proposed solution will need to allow the concourse to be secured overnight while still allowing for adequate egress per the Life Safety codes and occupant counts.

The Consultant shall prepare conceptual options for proposed solutions and review with the PBC DOA to determine the preferred alternative. The consultant will review the preferred alternative with the Fire Marshall to gain concept approval for life safety and code compliance. The consultant will prepare construction documents of the proposed solution to be used for permit, pricing and construction. The documents will include:

#### Architectural

- Cover Sheet
- Life Safety Plan and Code Summary Sheet
- Demolition Plan
- Floor Plan
- Reflected Ceiling Plan
- Elevations/Building Sections
- Construction Details

#### Structural

- Demolition Plan
- Framing Plan
- Framing Details

#### Electrical

- Demolition Plan
- Power Plan/Lighting Plan
- Fire Alarm Plan

#### Specifications

The Consultant shall respond to Permit Comments and assist the DOA to secure a permit.

The Consultant shall provide Construction Administration Services to include:

- Product submittal review
- Shop drawing review
- (4) site visits to review construction progress
- Review of contractor payment applications
- Final punchlist
- Close out documents

**Items of Work Not Included in Scope**

- Cost Analysis
- Non-destructive testing
- Identification or abatement design for hazardous materials
- Field verification of existing concealed conditions that would require demolition to expose
- Mechanical, plumbing, or fire protection engineering, design and/or documentation. If investigation of existing conditions indicates these services are required, the additional scope and fee will be identified and presented for approval.

**Supporting Sub-Consultant**

Schenkel Shultz, Inc.- Architectural  
TKW Eningeering, Inc- Structural  
Hillers Electrical Engineering- Electrical

**Data & Resources Required From Palm Beach DOA or Other Parties**

Existing as-built documents (paper or digital as available) of the area of study including floor plans, reflected ceiling plans, life safety plans, structural plans, electrical plans, security plans, fire protection plans and construction details.

**Deliverables**

Concept presentation for proposed solution  
Permit documents- plans and specifications

**Estimated Duration / Completion Date**

TBD

**Fee Type and Amount**

\$43,815

## **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

### **EXHIBIT A-I-4**

#### **Task Scope Sheet**

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Task I-09-PBI-R-011	PBI Construction Field Services, Inspection and Quality Assurance Testing – Miscellaneous Airfield Pavement Repairs
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#### **Scope**

The CONSULTANT shall provide Construction Management, Field Inspections/Resident Project Representative Services, and Quality Assurance Testing for a previously designed Palm Beach International Airport airfield project "Miscellaneous Airfield Pavement Repairs and Rehabilitation". The various areas/pavement sections being repaired or rehabilitated as part of this project includes the following:

- Taxiway A Mill and Overlay (Terminal Apron to Taxiway B – Pavement Section 120);
- Terminal Apron Taxiway B2 Mill and Overlay (Pavement Section 230);
- Concourse B to C Terminal Apron Mill and Overlay (Pavement Section 4120);
- Hardstand Apron Concrete Repairs (Pavement Section 4150);
- Taxiway M Patch Repairs and Crack Sealing (Pavement Sections 1352-1355);
- Taxiway A Crack Sealing;
- Taxiway B Crack Sealing;
- Taxiway F Crack Sealing;
- Terminal Apron Crack Sealing and Inlet Repairs;
- Taxiway R Patching and Crack Sealing;
- Runway 9L-27R Partial Depth Patch Repair;
- HMA/PCC Interface Repair;
- Concourse B Asphalt Apron/taxilane (portion of Pavement Section 4110) Mill and Overlay;
- Taxiway C5 Mill and Overlay.

The project was designed by CH2M Hill, Inc. (Engineer-of-Record). Bid documents comprise drawings, summary of quantities, and contract/technical specifications dated August 24, 2009.

The specific Construction Management and Resident Project Representative services to be performed by the CONSULTANT will include the following:

- Schedule and host pre-construction conference;
- Prepare and distribute meeting agenda and meeting minutes for pre-construction conference and weekly construction coordination meetings;
- Assist the DOA in coordination with various stakeholders for activities that will affect day to day airport operations;

- Receive, distribute, and retain submittals between the Contractor and the Engineer-of-Record (EOR);
- Review contractor's construction schedule;
- Schedule and host weekly construction progress and coordination meetings, and other meetings as required;
- Serve as the DOA's liaison with the Contractor;
- Cooperate with the Contractor on the DOA's behalf in dealings with agencies having jurisdiction for permitting;
- Obtain field samples of materials delivered to the site as required;
- Alert the Contractor and EOR when materials or equipment are installed prior to approval;
- Serve as the Resident Project Representative (RPR) and conduct on-site observation of the work in progress;
- Coordinate and oversee all Quality Assurance Testing on behalf of the DOA as required by the design specifications. This work will be performed by the team's Geotechnical subconsultant and includes asphalt batch plant quality assurance testing and material inspection/testing during construction (see more detailed description of Quality Assurance Testing Services provided within this Scope of Services);
- Receive, distribute, and retain Requests for Information (RFI's) and review EOR responses;
- Receive and retain copies of project bulletins, letters, and project change orders submitted to the EOR. Check samples, catalog data, shop and mill tests of equipment and materials, and other data, which the Contractor is required to submit, for general conformance and compliance with the information given in the Contract Documents;
- Accompany visiting inspectors representing other agencies and record outcome of inspections;
- Maintain orderly job-site files;
- Maintain daily reports with progress photos, relevant quantities, and other relevant information including but not limited to contractor hours on the job site, weather conditions, list of visiting officials, daily activities, decisions made, observations in general, and specific observations in more detail as in the case of test procedures;
- Furnish daily and monthly progress reports to the DOA;
- Review applications for payment and certified payrolls and forward recommendations to the DOA. CONSULTANT will coordinate quantities with the Contractor prior to the formal submission of the pay application and sign the pay application prior to submittal to the EOR for signature. Lead or assist in the collection of information that the EOR would need in order to sign the pay application;
- Coordinate, oversee, and provide initial review of Quality Assurance Testing;
- Lead and participate in scheduling the substantial completion and final inspections. Prepare and distribute the associated punch lists;
- Prepare and submit to the DOA project closeout documents. Supporting documentation anticipated for FAA and FDOT grant closure include copies of the following:

1. Certified Payrolls
2. Daily Reports and Monthly Summaries
3. Final Inspection Meeting Minutes and Punch-List Items
4. Project Summary Narrative
5. Contract Completion Time Summary
6. Engineers Certification of Construction (by EOR)
7. Construction Management (CM) certification confirming that the project was constructed in accordance with the design drawings and specifications
8. Project Cost Summary showing all change orders
9. Sponsor Certification of Plans and Specifications for DOA Signature
10. Test Reports

The specific Quality Assurance Testing services to be performed by the CONSULTANT will include the following:

- Site Subgrade Soils and/or Fill Soils
  - Perform laboratory moisture-density relationship test (proctors) on representative soils;
  - Perform soil in-place field density tests at subgrade and fill soil locations at the specified frequency to determine the percent compaction.
- Paving Subgrade and Base Materials
  - Perform soil in-place field density tests on the subbase to determine the percent compaction achieved by the contractor at the specified frequency;
  - Perform density and thickness tests on base materials to verify that they are properly compacted and of sufficient thickness;
  - Perform laboratory testing to determine the compaction characteristics, the maximum dry density, the optimum moisture content, and the California Bearing Ration (CBR).
- Asphaltic Concrete Paving
  - Observe the milling and resurfacing activities;
  - Obtain field density and thickness measurements of in-place asphaltic concrete;
  - Obtain asphaltic concrete cores for laboratory field testing;
  - Obtain asphaltic concrete sample for laboratory bitumen content, stability, and gradation.
- Concrete Testing
  - Slump: perform one test at point of discharge for each sample when test specimens are molded;
  - Concrete Temperature: measure temperature for each sample when test specimens are molded;
  - Concrete Test Specimens: mold one set of four (4" by 8") concrete test cylinders at the specified frequency of one set every 50 cubic yards, or fraction thereof;
  - Transport cast cylinders to laboratory for testing;

- Perform laboratory curing, and compressive strength testing of cylindrical concrete specimens. Tests will be performed as follows: one specimen at 7 days, two specimens at 28 days, and one cylinder will be placed on hold for additional testing, if required;
- Report compressive strength test results in writing. Failing tests will be reported within 24 hours of laboratory testing.

The project is being funded through a combination of Florida Department of Transportation (FDOT) grants and local funds. To assist in the management and administration of the project based on the various combinations of funds used to pay for different portions of the project, the budget breakdown for this scope of services is broken down into sub-tasks that correspond with the bid schedules and bid alternates included in the contract documents. The budget assumptions for CM, RPR, and Quality Assurance Testing corresponding to each bid schedule or bid alternate are outlined below.

**Sub-task PBI-011.1: Misc. Airfield Pavement Repairs (Schedule A):**

**Construction Scope:**

Phase 1 - Taxiway R Crack Sealing (estimated construction duration: 20 calendar days); work shift per bid drawings: 2200-0600

Phase 2 - Taxiway F Crack Sealing estimated construction duration: 20 calendar days); work shift per bid drawings: 2200-0600

Phase 3 - Taxiways A and B Crack Sealing estimated construction duration: 10 calendar days); work shift per bid drawings: 2300-0500

Phase 4a - Terminal Apron Crack Sealing; HMA/PCC Interface Mill and Overlay; and drainage inlet repairs (estimated construction duration: 25 calendar days); work shift per bid drawings: 2300-0500

Phase 5c - Concourse B Apron Mill and Overlay (estimated construction duration: 20 calendar days); work shift per bid drawings: 2300-0500

Phase 6a - Taxilane to Concourse C from Taxiway D Mill and Overlay (estimated construction duration: 10 calendar days); work shift per bid drawings: 2300-0500

Phases 7a and 7b - Taxiway C5 Mill and Overlay and Partial-Depth Patch Repairs (estimated construction duration: 10 calendar days); work shift per bid drawings: 2300-0500

Total Construction Duration: 115 calendar days

Other Time Allowances: 10 calendar days for mobilization; 10 calendar days or pre-construction preparation and coordination; 15 calendar days for punch lists/final completion; and 10 calendar days for close-out activities;

**Total CM/RPR/Quality Assurance Services duration: 160 calendar days**

Average Number of Field Inspectors Assumed for 160 day duration: 1.25 full time equivalent inspectors

Total CM/RPR Hours estimated (includes 1 hour of pre-construction set up per night, plus 1 hour for documentation per night/day shift): **1,360 hours per inspector (1,700 for 1.25 inspectors)**

Allowance for Project Manager Oversight: **70 hours (equates to 3 hours per week)**

**Allowance for Quality Assurance Testing: \$53,500 (Nodarse Only)**

**Sub-task PBI-011.2: Misc. Taxiway and Apron Pavement Repairs (Schedule B):**

Construction Scope:

Phase 4b – Concourses B/C Apron Mill and Overlay (estimated construction duration: 30 calendar days); work shift per bid drawings: 2300-0500

Phases 5a and 5b – Taxiway A and Taxiway B2 Mill and Overlay estimated construction duration: 10 calendar days); work shift per bid drawings: 2300-0500

Phases 6b and 6c – Hardstand Concrete Apron repairs and Taxiway M Crack Sealing (estimated construction duration: 120 calendar days); work shift per bid drawings: 2300-0500

Total Construction Duration: 130 calendar days (Phase 4b activities anticipated to occur while Phases 6b and 6c are occurring)

Other Time Allowances: 10 calendar days for mobilization; 10 calendar days or pre-construction preparation and coordination; 10 calendar days for punch lists/final completion; and 10 calendar days for close-out activities;

**Total CM/RPR/Quality Assurance Services duration: 170 calendar days**

Average Number of Field Inspectors Assumed for 170 day duration: 1.25 inspectors

Total CM/RPR Hours estimated (includes 1 hour of pre-construction set up per night, plus 1 hour for documentation per night/day shift): **1,040 hours per inspector (1,340 for 1.25 inspectors)**

Allowance for Project Manager Oversight: **70 hours (equates to approximately 3 hours per week)**

**Allowance for Quality Assurance Testing: \$59,800 (Nodarse Only)**

**Sub-task PBI-011.3: Concrete Apron Repairs (Bid Alternate 1):**

Construction Scope:

Work includes removal and replacement of existing concrete apron slabs on the remote overnight (hardstand) apron within the limits identified on bid drawings PG-45 and PG-46 (estimated construction duration is included within the Phase 6b estimated duration of 120 calendar days); work shift per bid drawings: 2300-0500

**CM/RPR/Quality Assurance Services are covered under Sub-task PBI-011.2**

**Allowance for Quality Assurance Testing: \$7,019 (Nodarse Only)**

**Sub-task PBI-011.4: Concourse B Apron (Bid Alternate 2):**

Construction Scope:

Work includes milling and overlay of existing bituminous surface course apron/taxilane adjacent to Concourse B. Work is similar to Concourse B apron mill and overlay. Work shift per bid drawings: 2300-0500

Total Construction Duration: 10 calendar days

Other Time Allowances: 2 calendar days for mobilization; 2 calendar days or pre-construction preparation and coordination; 2 calendar days for punch lists/final completion; and 2 calendar days for close-out activities;

**Total CM/RPR/Quality Assurance Services duration: 18 calendar days**

Average Number of Field Inspectors Assumed for 18 day duration: one (1) inspector  
Total CM/RPR Hours estimated (includes 1 hour of pre-construction set up per night, plus 1 hour for documentation per night/day shift): **144 hours**

**Allowance for Project Manager Oversight: 8 hours**

**Allowance for Quality Assurance Testing: \$3,876 (Nodarse Only)**

**Sub-task PBI-011.5: Concrete Apron Repairs (Bid Alternate 3):**

Construction Scope:

Work includes removal and replacement of existing pavement sections on Taxiway M within the limits identified on bid drawings PG-42 and PG-43 (estimated construction duration is included within the Phase 6c estimated duration of 60 calendar days); work shift per bid drawings: 2300-0500

**CM/RPR/Quality Assurance Services are covered under Sub-task PBI-011.2**

**Allowance for Quality Assurance Testing: \$4,181 (Nodarse Only)**

**Items of Work Not Included in Scope**

- Quality control (Responsibility of contractor for each project)
- FAA grant and payment services
- Review and approval of shop drawings and RFI's (Responsibility of Engineer-of-Record)
- Engineer of Record Certifications
- Construction Management Plan (CMP will be prepared under a separate CSA/task order)
- Professional land surveyor/surveying services
- Aerial photography
- Preparation of record/as-built drawings
- Permitting fees

**Supporting Sub-Consultants**

- RW Armstrong-Construction Management support
- Nodarse - Materials Testing

**Data & Resources Required From Palm Beach DOA or Other Parties**

All Contract Documents for the projects listed above

**Deliverables**

- Daily and Weekly Reports
- Final Inspection Meeting Minutes and Punch-List Items
- Project Summary Narrative
- Contract Completion Time Summary
- Engineers Certification of Construction
- Project Cost Summary showing all change orders
- Sponsor Certification of Plans and Specifications for DOA Signature
- Test Reports

**Estimated Duration / Completion Date**

In accordance with construction schedule



(Estimated to be 320 days from issuance of Notice to Proceed) <sup>1/</sup>

<sup>1/</sup> As directed by Palm Beach County Department of Airports staff.

**Fee Type and Amount**

Time and Materials \$557,980

## **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

### **EXHIBIT A-I-5**

#### **Task Scope Sheet**

Task I-09-LNA-R-012

LNA Stormwater Master Plan & Conceptual Permit

#### **Scope**

The CONSULTANT shall provide the support services to the Palm Beach County (PBC) Department of Airports (DOA) for a Stormwater Master and Conceptual Permit for the development plans at Palm Beach County Park Airport (LNA). The proposed developments at LNA are shown on the October 2006 Master Plan Update (MPU), which was prepared by CH2M HILL. The MPU shows several proposed projects including:

- Entrance Road and Drainage for the 19 acre parcel
- Westside Fixed Based Operator (FBO) Development
- South Apron Hangar Construction
- Expansion of the Center Dry Pond
- PBC Inter-Departmental Land Exchange
- Land Acquisition
- Air Traffic Control Tower construction (Long range project)

To assist the DOA through planning, design, permitting, bid and award, and construction of the proposed development projects, the CONSULTANT will perform the following tasks:

- Prepare a Conceptual Stormwater Management Master Plan (CSWMMP) Technical Memorandum in a format that will provide all necessary information for a, South Florida Water Management District (SFWMD) Conceptual Environmental Resource Permit (ERP) application, and possibly a Lake Worth Drainage District (LWDD) permit application (if required) for LNA. These tasks include siting and conceptual design of dry treatment or exfiltration trenches for the DOA's 2, 15 and 19 acre parcels, as well as the Westside FBO. The Westside FBO treatment may be accommodated by expanding the center dry pond or combining its runoff in the 2, 15 and 19 acre parcel treatment facilities. This task will also include permitting of wetland impacts related to the 19 acre parcel and Westside FBO developments.
- Coordinate with stakeholders and agencies. The LNA property includes two wetlands and a connection to Lake Osborne. The CONSULTANT anticipates coordination with DOA, SFWMD, LWDD (to verify jurisdiction), United States Army Corps of Engineers (USACOE), PBC Parks and Recreation (Parks), PBC Road and Bridge Department (Roadway) and PBC Environmental Resource Management (ERM).

These tasks are more specifically described below.

**PROJECT KICKOFF AND COORDINATION MEETINGS**

- The CONSULTANT’s Subconsultant, ADA Engineering (ADA), will conduct records research to confirm the jurisdiction of LWDD over LNA. Based on preliminary research, it appears that LNA is outside the jurisdiction of LWDD. ADA will research the initial conveyance deed of LNA to PBC and request boundary surveys for LNA from the PBC Survey Department. Based on this information, ADA will draft a letter for DOA to submit to LWDD asking for a review and determination if LNA is within LWDD jurisdictional boundaries. If LWDD determines that LNA is not within LWDD’s jurisdictional boundary, ADA will add the LWDD determination letter to the CSWMMP documentation and conduct no further coordination or permit application activities with LWDD. If it is found that LWDD does have jurisdiction, an additional Task Order will be necessary to coordinate with LWDD and make application for the associated permit.
- The CONSULTANT will provide project management and coordination for the preparation, modeling, development and submittal of the CSWMMP Technical Memorandum, and SFWMD ERP application for LNA. Coordination with SFWMD, DOA, Parks, ERM and USACOE is also provided in this Task Order. Coordination with DOA will include coordination with regard to uses of the DOA’s 2, 15 and 19 acre contiguous parcels and the integration of those parcels into the CSWMMP and the ERP. LNA’s out parcels, if any, are not included in this initial phase.
- Quality control reviews of the processes, investigations, modeling, contiguous property conditions, and the deliverables to the agencies is an integral component of the CONSULTANT’s project coordination efforts.
- Meetings are assumed to be 2 to 4 hours in length, generally to be held within the West Palm Beach vicinity, and to include conference calls, when possible, to facilitate the participation of the necessary professionals and agency personnel. Meeting Minutes will be prepared by ADA and distributed to the CONSULTANT team, DOA, and participants. The following meetings are central to the agency coordination/ review and the communication necessary to effectively complete the CSWMMP and ERP application.

**Table 1 Meeting Summary**

<b>Agency</b>	<b>Total Mtgs</b>	<b>Meeting Purpose &amp; No. of Meetings</b>
SFWMD	3	Stormwater and Wetland Mitigation Pre-application (2) meetings and Request for Additional Information (RAI) coordination meeting (1). The CONSULTANT will prepare meeting summaries for each of the three meetings. (CONSULTANT and ADA)
USACOE	3	CONSULTANT will attend Pre-application (1) and follow-up (1) meetings regarding the proposed project and potential permitting concerns including the Memorandum of Agreement regarding creating wildlife attractants on or near airport. In addition, the CONSULTANT will attend a Request for Additional Information (RAI) coordination meeting (1). The CONSULTANT will prepare meeting summaries for each of the three meetings. (CONSULTANT and ADA)
DOA	2	Pre-meetings for the application submittals [CSWMMP and USACOE/ ERP (1)] and the RAI coordination (1) for a total of two meetings. The CONSULTANT will prepare meeting summaries for each of the two meetings. (CONSULTANT and ADA)

DOA	1	The CONSULTANT Team and DOA will conduct a project kick-off meeting (1) to review the proposed or possible development within the LNA contiguous parcels, and to present stormwater modeling results for the evaluated contiguous parcel development alternatives in addition to wetland impacts and mitigation alternatives. The CONSULTANT assumes that DOA will choose a preferred alternative for stormwater treatment and wetland mitigation during this meeting. The CONSULTANT will prepare a meeting summary. (CONSULTANT and ADA).
CONSULTANT	3	CONSULTANT Team will meet once Notice to Proceed is received from DOA to coordinate its efforts with regard to data exchange, site visits, records search, etc and discussing alternatives to be evaluated (1). In addition, the CONSULTANT Team will have two in-person progress meetings (2). (CONSULTANT and ADA).
DOA	1	CONSULTANT will attend one (1) meeting with the DOA prior to final application submittal to review the application and obtain DOA signatures and application fee, etc. CONSULTANT will prepare meeting summaries. (CONSULTANT and ADA)

- The CONSULTANT will conduct two 1 hour conference calls with the DOA to provide progress reports which will summarize the activities accomplished, meetings attended, and an activities forecast for the upcoming months. In addition, the CONSULTANT will coordinate with other PBC Departments and LPA to obtain data that is pertinent to CSWMMP and ERP preparation. The CONSULTANT assumes that these coordination efforts will be minimal.
- The CONSULTANT Team will conduct four 1 hour conference calls at various stages of the project to coordinate its effort.

**DATA COLLECTION & EVALUATION**

- The CONSULTANT Team will conduct site investigations and collect data supporting the CSWMMP and ERP applications to SFWMD. The CONSULTANT Team will attend two site visits to observe the existing stormwater management facilities and wetlands on the airport. In addition, the CONSULTANT Team will also conduct two data gathering reviews at the DOA's offices to review as-built documentation of the airfield infrastructure and associated permits. This task includes the interaction and coordination with DOA Planning and Development, Operations and Maintenance, and management personnel; SFWMD Permitting Division and Roadway staff.
- Data collection will also consist of collecting readily available data from the SFWMD, DOA, Parks and Roadway. This data collection effort will be limited to that data necessary for the stormwater model development (ADA) and wetland investigations (CECOS). The CONSULTANT Team will review and document the available reports and information collected in Draft CSWMMP and ERP.
- CONSULTANT will utilize existing PBC aerial photography, Congress Avenue permitting data, previously conducted preliminary stormwater analyses, existing topographic survey and proposed grading from previous projects on the airport, and SFWMD Light Detection and Ranging (LIDAR) data to prepare the digital mapping of the airport property required for permit applications and wetland investigations. The proposed grading from the Runway 9-27 / Taxiway A and Westside FBO Entrance Road projects will be used.

- CONSULTANT will merge the existing survey, proposed grading and LIDAR data into a single existing Digital Terrain Model (DTM) data file. CONSULTANT will provide that combined DTM data file and conceptual proposed grading to ADA for their use in preparing CSWMMP model. In addition, Brown & Phillips (B&P) will supplement this combined DTM data with field collected data. This supplemental data will include ten Real Time Kinematic (RTK) points and Drainage Structures and Culverts including rim, invert, material, and direction of flow in culverts. Before submitting the final DTM and field data to ADA, the CONSULTANT will:
  - a. Graphically edit the existing LIDAR data to integrate the existing topographic survey, Runway 9-27 /Taxiway A project, the Westside FBO Entrance Road projects proposed grading and B&P field data into a complete graphic file.
  - b. Check polygons for accuracy and completeness. Lines will be extended, clipped, joined and spliced as necessary. Data will be labeled correctly.
  - c. CONSULTANT will coordinate with DOA to obtain access to their infrastructure facilities for a visual view of existing conditions. The DOA will provide CONSULTANT team members with airfield access and escorting services as needed.

**DEVELOP STORMWATER MANAGEMENT MASTER PLAN TECHNICAL MEMORANDUM**

- The CONSULTANT will prepare a preliminary conceptual layout and grading for the Westside FBO. In addition, the CONSULTANT will coordinate with the Engineer of Record for the Westside FBO Entrance Road project to incorporate their design. The CONSULTANT's Subconsultant ADA will evaluate no more than three alternatives for drainage treatment.
- ADA will develop an airport stormwater model representing the existing conditions and providing the capability for assessment of the proposed improvements to assist in the development of the CSWMMP. This model will be developed using the ICPR model Version 3.0. ADA will develop the proposed conditions model representing the future full LNA build out conditions proposed in the approved Airport Layout Plan (ALP). The model will include the LNA primary system and as many of the secondary drainage system components as required to support the proposed conditions model. It is assumed that the model will be limited to fifteen (15) drainage basins, some of which were identified in the 1985 Surface Water Management Report prepared by Hutcheon Engineers. This model will not include DOA out parcels, but will include the DOA's 2, 15 and 19 acre contiguous parcels (identified as Parcels 3, 4 and 5 respectively on the approved ALP). Out parcels, if any, will be identified for inventory purposes only. They will **not** be included in the modeling. The DOA may modify this Task Order in the future to update the models created in this task to evaluate out parcels. The models developed in this Task Order will not include detailed assessment of future development within the contiguous parcels. Because the model will be conceptual, the model will not be calibrated or verified.

The LNA future full build out model will be evaluated for the following design storm events:

- 5-year, 24-hour
- 10-year, 24-hour
- 25-year, 3-day

- 100-year, 3-day
- Water quality retention/detention requirements will be evaluated for only the full build-out condition. It is anticipated that dry treatment and/or exfiltration trenches will be utilized to avoid the creation of Wild Life Attractants. No open water bodies will be created or evaluated.
- ADA will prepare a CSWMMP Technical Memorandum for LNA documenting the work accomplished as part of this task for the existing model development and the proposed conditions model. The CSWMMP Technical Memorandum will include the following information:
  1. Executive Summary
  2. Introduction, Background and Scope
  3. Data Collection and Evaluation
  4. Regulatory Requirements
  5. Existing Conditions Hydrologic/Hydraulic Analysis
  6. Proposed Airport Layout Plan Improvements
  7. Hydrologic, Hydraulic and Water Quality Analysis of Proposed Storm-water Management System associated with Proposed Airport Layout Plan Improvements
  8. Hydrologic, Hydraulic and Water Quality Analysis of Proposed Storm-water Management System associated with DOA Contiguous Parcels
  9. Cost Opinion of Proposed Improvements
  10. Implementation Schedules
  11. Recommendations
- ADA will prepare all CSWMMP Technical Memorandum. The CONSULTANT will prepare a preliminary cost estimate and an implementation schedule for the recommended stormwater management facilities required to support the proposed full-build out ALP improvements. The format for these projects, incorporated into the CSWMMP, will be coordinated with DOA. The CONSULTANT will assemble the Draft and Final CSWMMP Technical Memorandum.
- In addition, the CONSULTANT will provide the following exhibits on an 11"x17" format to support the CSWMMP:
  1. Cover sheet
  2. Aerial map
  3. Summary of Quantities
  4. Typical Sections
  5. Geometry and Facilities Maps
  6. Grading and Drainage Maps

It is assumed that the base data required to prepare the plans described above will be made available to ADA in a CAD compatible format. ADA's existing conditions model will assess the existing hydrologic and hydraulic conditions of the contiguous parcels and the airport proper.

- CONSULTANT will provide the DOA three (3) copies of the Draft CSWMMP Technical Memorandum for review and comment. The DOA is assumed to complete the review in 14 calendar days and will within that time consolidate and provide to the CONSUTLANT all

internal and other applicable stakeholder comments for incorporation into the Final CSWMMP Technical Memorandum. CONSULTANT Team will incorporate applicable comments. CONSULTANT will provide three (3) hard copies and one (1) electronic copy of the Final CSWMMP Technical Memorandum to DOA. CONSULTANT will provide ADA with one hard copy of the Draft and one hard copy and one electronic copy of the Final CSWMMP Technical Memorandum.

#### **ENVIRONMENTAL RESOURCE PERMIT APPLICATION**

- CONSULTANT will use the information included in the Final CSWMMP Technical Memorandum to prepare the conceptual ERP application for the proposed improvements associated with the approved ALP, and proposed modifications to the DOA contiguous parcels and Parks Custard Apple Slough Natural Area (CASNA) wetland. The conceptual ERP will not include assessment and description of individual implementation phases.
- The wetland investigations will rely upon the existing data as presented in the Congress Avenue Roadway Widening projects permitting and the previous LNA Airport ERP and modifications thereto. The wetland investigations will include:
  1. Obtaining and reviewing existing wetland surveys prepared by others. Our effort assumes that the CASNA wetlands have been fully delineated and have agency approval. Electronic files of wetland delineations and FLUCCS maps will be provided in an acceptable format (i.e., CAD, GIS shape files). These electronic files will be used to prepare permit sketches.
  2. Attend one (1) pre-application meeting with the SFWMD and USACOE (2 meetings). In addition, a follow-up meeting will be conducted with USACOE (1) to address the use of existing and approved environmental wetland data and other concerns/ constraints that may arise during the review process.
  3. Coordination (two meetings) with Parks to discuss the development of recreation plans for the wetlands.
- CONSULTANT shall coordinate with the SFWMD Permitting staff to define the stormwater management options for LNA in discharging storm-water to Lake Osborne; pre-storm, during the storm, and after the storm.
- The existing onsite CASNA wetlands have been documented and delineated in PBC Roadway's Congress Avenue Roadway Widening Project (USACOE Permit No. SAJ-2006-4918 (GP/NW-JBH) and SFWMD Permit No. 50-06604-P). We assume that the SFWMD and USACOE will accept this delineation and that a new delineation is not needed. Other potential jurisdictional wetlands may occur on site. It is assumed that there will be approximately 5 to 8 acres of wetland impacts associated with LNAs future conditions full build-out project. It is further assumed that offsite mitigation will be used with the completion of ERP Section C - Items 2, 5 and 6, and Section E - Items II A-E. We should assume that offsite mitigation is preferred such that additional Wildlife Hazards will not be created near the airport.
- As part of this task, CONSULTANT will attend two (2) pre-application meetings with the SFWMD and USACOE (one meeting). In addition, a follow-up meeting will be conducted with USACOE to address the use of existing and approved environmental wetland data and other concerns/ constraints that may arise during the review process.

- The CONSULTANT will perform a Uniform Mitigation Assessment Method (UMAM) to evaluate the quality of impacted wetlands contiguous to the proposed ALP development areas. If SFWMD and USACOE concur, CECOS will use previously accepted UMAM scores for the current wetland quality conditions. If SFWMD and USACOE do not concur, CECOS will submit a supplement to this Task Order to perform delineation tasks and coordination. UMAM will not be conducted for any of the mitigation alternatives. A supplement will also be required to complete the UMAM for the preferred mitigation alternative.

The CONSULTANT will complete the following items in support of this task:

- Obtain copies of the existing agency approved USACOE data sheets (including Rapanos data sheets) for wetland for the submittal package.
- Electronic files of wetland delineations, onsite mitigation (from Congress Ave project) and FLUCCS maps will be available and provided to CECOS in an acceptable format (i.e., CAD, GIS shape files). These electronic files will be used to prepare permit sketches. If electronic files are not available and additional effort to map the wetlands and other habitats is required CECOS will submit a supplement to this Task Order to perform mapping tasks and coordination.
- A desk top/literature review to determine wildlife species potentially present on the property will be conducted. No detailed wildlife surveys will be conducted.
- Conduct site visit (anticipate one (1) day) to identify other potential jurisdictional wetlands if any and other surface waters that may be present on the subject property. If such areas are identified their approximate limits will be shown on the ERP application support documents. If extensive areas of other wetlands are identified during the site visit and additional field days are required to delineate them, then this effort will require supplemental services.
- Submit four (4) sets of completed sketches of these observations to the SFWMD and USACOE for information as part of the permit application, if required. These reviewed sketches will be incorporated as exhibits into the ERP as appropriate. The following exhibits may be provided on 8.5" x 11" format to support the ERP:
  1. Cover sheet (by others)
  2. Aerial map (by others)
  3. Location Map (USGS QUAD) (by others)
  4. Soils Map (by others)
  5. Property Identification Maps (by others)
  6. Florida Land Use, Land Cover Classification System (FLUCCS) (by others)
  7. Existing Conditions Map with Drainage Basin Delineation (by others)
  8. Proposed Improvements Map with Drainage Basin Delineation (by others)
  9. Wetland and other surface waters
  10. Proposed impervious/pervious maps (by others)
  11. Grading and drainage maps (by others)
  12. Summary of Quantities (by others)
  13. Typical Sections (by others)



- The CONSULTANT will coordinate with the DOA to discuss mitigation, if required, based on the site investigation. In addition, the CONSULTANT will show Avoidance and Minimization for wetland impacts to satisfy SFWMD and USACOE permit requirements.
- CECOS will prepare a conceptual mitigation plan and identify up to three (3) offsite mitigation alternatives that meet the SFWMD and USACOE criteria. The plan will consist of description of each mitigation site, location, type of mitigation credits available, agencies with jurisdiction and permit status, and cost. A preferred mitigation option will be recommended.
- The CONSULTANT will provide five (5) copies of the ERP application submitted to the SFWMD and USACOE. It is assumed that the DOA will pay all permitting fees. CONSULTANT will prepare one (1) Requests for Additional Information (RAI) response package to address comments from the SFWMD and USACOE staff (2 total). It is assumed the response package will not include additions or modification to conceptual build out design plans. The CONSULTANT will incorporate wetland impacts and mitigation comments, if applicable. As part of this task, the CONSULTANT will attend one (1) meeting with the SFWMD staff to coordinate responses to the ERP application RAI comments.
- The CONSULTANT will coordinate with USACOE and the Federal Aviation Administration (FAA) with regard to the Memorandum of Agreement from FAA's "Advisory Circular (AC) 150/ 5200-33B HAZARDOUS WILDLIFE ATTRACTANTS ON OR NEAR AIRPORTS". The purpose of the coordination will be to obtain USACOE and FAA concurrence that the development proposed at LNA will not create wildlife attractants issues at LNA. The CONSULTANT believes that this effort can be accomplished with minimal effort based on using dry treatment and or exfiltration trenches for storm-water management in conjunction with offsite mitigation for wetland impacts. However, the CONSULTANT has no control over the level of effort the USACOE and FAA will require to satisfy their interpretation of satisfaction of the MOA, and as such, a supplement to this TA may be necessary to complete this task.

#### **KEY ASSUMPTIONS**

This scope of work was developed with the following key assumptions:

1. If it is determined that LNA is within LWDD jurisdiction, a supplement to this Task Order will be needed to coordinate with LWDD and prepare a LWDD permit application
2. Hydrologic/hydraulic models to be developed as part of this project will be conceptual to support the ERP application and future detailed design projects. The model will be limited to fifteen (15) drainage basins
3. Future conditions ICPR model will be prepared by ADA to define the ALP future conditions
4. SFWMD LIDAR mapping data supplemented with existing survey, RTK points obtained by Brown and Phillips, proposed design DTM data from the design of Runway 9-27 /Taxiway A construction and Westside FBO Entrance Road projects will be utilized in the development of an overall topographical model for defining water quality and floodplain storage. In development of the overall topographic model, any corrections to existing data due to conflicting survey data will be performed by vertically shifting the LIDAR based on the average discrepancy, no geostatistical methods such as kriging will be utilized. If this data is

not acceptable to the Agencies, an additional Task Order will be needed to obtain topographical survey of LNA or calibrate the LIDAR mapping to meet the Agencies' mapping requirements.

5. Congress Avenue Roadway Widening Project wetland delineation will be acceptable to SFWMD and USACOE for this project
6. Proposed airport improvements and phasing area as defined in the MPU/ALP
7. All permitting fees will be paid by DOA
8. Meetings are assumed to be 2 to 4 hours in length
9. RAI response packages will not include additions or modification to conceptual build out design plans
10. Water use permits/ permit modifications are not included in this Task Order, but may be authorized by the DOA in the future
11. The Cost Estimates as described herein will be developed following the industry standards of the American Association of Cost Engineers (Classification System 18R-97). A Class 4 or order-of-magnitude pre-design estimate will be developed. This is considered a conceptual or pre-design estimate and is typically based upon a design completion of approximately 15%. In providing opinions of probable construction costs, the DOA understands that the CONSULTANT has no control over costs of 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 and historical construction cost data in the South Florida market area. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions to bid or actual costs
12. Traffic and Aviation wetland impact justification, which have been completed as a part of Congress Avenue Coordination task, will be added to the ERP
13. USACOE and FAA will require disposition of MOA. Consultant will coordinate with FAA, USACOE and ESA with regard to MOA. DOA will authorize ESA under separate Task Order to revise Hazardous Wildlife Review. MOA coordination is assumed to be minimal
14. Property transfers between Parks and DOA will be completed by DOA without CONSULTANT involvement
15. Coordination efforts with other PBC Departments and CONSULTANT will be minimal
16. Out parcels, if any, will be identified for inventory purposes only, not included in modeling efforts

**Items of Work Not Included in Scope**

Storm-water analysis associated with out parcels associated with LNA.  
Preparation of a Lake Worth Drainage District (LWDD) permit application  
Topographical survey of LNA  
Permitting fees  
Water use permits/ permit modifications  
Property transfers between Parks and DOA

**Supporting Sub-Consultant**

ADA Engineering – SWMP – Conceptual Permit  
 Brown & Phillips – Surveying  
 CECOS Environmental – Wetlands Documentation

**Data & Resources Required From Palm Beach DOA or Other Parties**

LNA Airport Layout Plan  
 Existing available reports, data, site plans and as-built drawings  
 Wetland survey work,  
 Wildlife surveys and mapping (hard copy and electronic),  
 Agency coordination/correspondence all other permit related data and reports.

**Deliverables**

Draft and Final CSWMMP Technical Memorandum  
 Final SFWMD Conceptual ERP Application  
 1 RAI response each to SFWMD and USACOE

**Estimated Duration / Completion Date**

It is assumed that the preparation of the SFWMD Conceptual ERP Application will begin 30 calendar days after the start of the CSWMMP.

<b>Activity</b>	<b>Calendar Days</b>	<b>Cumulative Calendar Days</b>
Draft CSWMMP	120	120
Draft SFWMD Conceptual ERP Application	90	120
DOA Draft CSWMMP review	15	135
DOA review of Draft SFWMD Conceptual ERP Application	10	145
Final CSWMMP	20	165
Final Conceptual ERP Application	10	175
SFWMD Conceptual ERP review	30	205
RAI Responses	60	265
<b>Total Duration</b>		<b>265</b>

**Fee Type and Amount**

Fixed Fee - \$206,960

**PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

**EXHIBIT A-I-6**

**Task Scope Sheet**

Task I-09-LNA-R-013      LNA Miscellaneous Airfield Pavement Rehabilitation

**Scope**

**PROJECT DESCRIPTION**

The Palm Beach County Department of Airports (PBCDOA) intends to rehabilitate various portions of the existing asphalt pavement at Palm Beach County Park Airport (LNA). RICONDO & ASSOCIATES (CONSULTANT) in conjunction with subconsultants RW ARMSTRONG, BROWN & PHILLIPS, and NODARSE & ASSOCIATES shall provide design, permitting, bid, and construction phase services for the project.

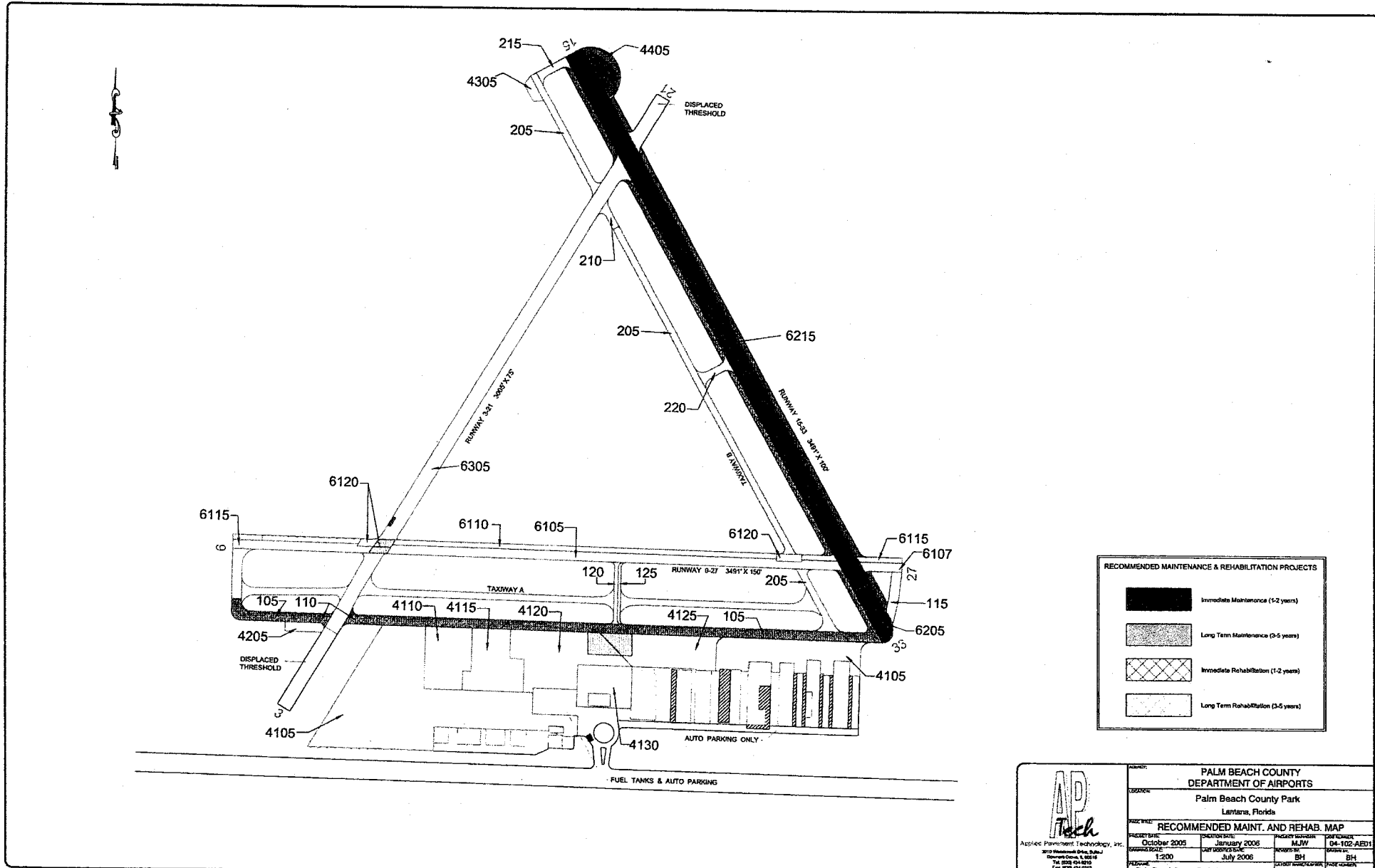
The scope of work will generally consist of the following items as described in the recent Pavement Evaluation Report conducted by FDOT and shown on the attached Exhibit:

1. Main Apron (portion)	Section 4120	Mill and Overlay
2. RW 15-33	Section 6215 (Runway) Section 6205 (Runway) Section 6215 (Shoulders) Section 4405 (Hold Pad)	Mill & Overlay or Crack Sealing Mill and Overlay Mill and Overlay Remove and Restore
3. Taxiway C	Section 105 Section 110	Mill and Overlay Mill and Overlay

**PHASE 1 – PROGRAM VERIFICATION/SCHEMATIC DESIGN**


The CONSULTANT shall perform the following tasks under Phase 1:

- Attend a project kick-off meeting with PBCDOA and relevant project team members.
- Perform a field check of the existing site conditions to verify accuracy of record data and any additional information provided by the PBCDOA.
- Review Pavement Evaluation Report prepared by FDOT.
- Develop a schematic design for the pavement rehabilitation of the following areas:
  - b. Portion of the Main Apron (Section 4120) – approximately 2,780 square yards of the Main Aircraft Parking apron as outlined in the Pavement Evaluation Report completed in July 2006. The rehabilitation will consist of milling; cleaning, repairing, and sealing existing cracks in the pavement surface; overlay of P-401 bituminous pavement; and painting aircraft parking markings to reflect their configuration prior to construction.



**RECOMMENDED MAINTENANCE & REHABILITATION PROJECTS**

	Immediate Maintenance (1-2 years)
	Long Term Maintenance (3-5 years)
	Immediate Rehabilitation (1-2 years)
	Long Term Rehabilitation (3-5 years)



Applied Pavement Technology, Inc.  
2810 Westwood Drive, Suite J  
Orlando, Florida 32835  
Tel: 407-854-8200  
Fax: 407-854-8200

**PALM BEACH COUNTY  
DEPARTMENT OF AIRPORTS**

Palm Beach County Park  
Lantana, Florida

**RECOMMENDED MAINT. AND REHAB. MAP**

PROJECT DATE: October 2005	DESIGNER: January 2006	PROJECT NUMBER: MJW	DWG NUMBER: 04-102-AED1
SCALE: 1:200	DATE: July 2006	REVISION: BH	DRAWN BY: BH
FILENAME: PalmBeachCountyPark.dwg		PROJECT MANAGER: M&R Map	PAGE NUMBER: 1

- c. RW 15-33 (Section 6215) – approximately 35,200 square yards of existing runway pavement. The rehabilitation will consist of milling; cleaning, repairing, and sealing existing cracks in the pavement surface; overlay of P-401 bituminous pavement; and painting runway markings. An alternate to the mill and overlay will be requested for approximately 15,000 lineal feet of cleaning, repairing, and sealing existing cracks in the pavement surface; and painting runway markings.
  - d. RW 15-33 (Section 6205) – approximately 3,400 square yards of existing runway pavement. The rehabilitation will consist of milling; cleaning, repairing, and sealing existing cracks in the pavement surface; overlay of P-401 bituminous pavement; and painting runway markings.
  - e. RW 15-33 (Sections 6215 and 4405) – approximately 21,950 square yards of existing runway shoulder pavement and the RW 15 turnaround. The shoulder rehabilitation will consist of milling; cleaning, repairing, and sealing existing cracks in the pavement surface; overlay of P-401 bituminous pavement; and painting runway markings. The RW 15 turnaround will be removed and the area restored.
  - f. TW C (Sections 105 and 110) - approximately 22,500 square yards of existing taxiway pavement. The rehabilitation will consist of milling; cleaning, repairing, and sealing existing cracks in the pavement surface; overlay of P-401 bituminous pavement; and painting taxiway markings.
- Review existing project construction cost estimate and update the estimate based on available information.
  - Design of the pavement grades will be based the design guidelines included in the most current edition of FAA Advisory Circular 150/5300-13. The design will not include geometric improvements or safety area grading improvements.

**PHASE 2 - DESIGN DEVELOPMENT (30% DESIGN)**

The CONSULTANT shall perform the following tasks under Phase 2:

- Provide administration and coordination for the design services including meetings attended by the project manager and engineers and general day to day project related administrative tasks. Coordination and exchange of project related information with PBCDOA staff and subconsultants who are a part of the design team is included in this task.
- Conduct topographic field surveys to obtain existing pavement grades which will be utilized to design the proposed pavement profile and cross sections. The topographic survey will establish/utilize survey control, locate significant existing physical features within the project limits, including pavement limits, taxiway alignments, pavement markings, drainage structures, edge lighting, signage, and other utilities, and assign spot elevations as part of the process. Spot elevations will be set on a 25-foot grid and existing contours will be generated at one-tenth per foot (0.1 ft) intervals for the base plans. In addition, the survey will establish the proposed pavement cores and geotechnical boring locations. Existing topographic surveys obtained during previous projects will also be utilized to obtain existing pavement geometrics.

- Conduct pavement coring and geotechnical boring and sampling to determine depth and condition of the existing asphalt concrete (AC) pavements in accordance with FAA procedures. The boring and coring depths will be determined based on the project's historical information of recent subsurface exploration in the same area. At a minimum, depths of boring extractions will be at least 10 feet below the final grade. California Bearing Ratio (CBR) samples will be taken to determine subgrade bearing characteristics. All subsurface investigation information and laboratory test results will be compiled and presented as part of the final engineer's report. The report will also contain recommendations on soil-related requirements and recommendations to determine the pavement design. The geotechnical report will provide the results of all field testing, boring logs, and laboratory results.
- Perform a field check of the existing site conditions to verify accuracy of data obtained through surveys, soil borings, and any additional information provided by the PBCDOA.
- Attend the pre-application meetings with SFWMD and the PBCDOA to initiate the permitting process.
- Prepare 30% Plans for this project that will generally include the following:
  - Cover Sheet
  - Project Quantity Sheet
  - Project Key Sheet
  - Project Layout Plan
  - Preliminary Demolition Plan(s)
  - Preliminary Pavement Geometry Plan(s)
  - Preliminary Profile Plan(s)
  - Typical Sections
  - Preliminary Grading and Drainage Plans
  - Preliminary Marking Plan(s)
- Prepare a 30% Engineer's Report including all design elements associated with the Airfield Rehabilitation Project for submittal to the PBCDOA, FDOT and FAA offices at the completion of the design.
- Prepare a 30% construction cost estimate
- Prepare an outline of the technical specifications in accordance with FAA Advisory Circular 150/5370-10C.
- Attend a design review meeting at the completion of the PBCDOA's review of the 30% submittal. CONSULTANT will prepare and submit minutes of this meeting as they pertain to the CONSULTANT scope of work. The PBCDOA's review comments will be incorporated into the construction plans and specifications.

*Deliverables: One (1) full-size set of the 30% Plans, five (5) half-size sets of the 30% Plans, six (6) copies of the 30% cost estimate, six (6) copies of the 30% Engineer's Report, six (6) copies of the outline of the technical specifications.*

**PHASE 3 – CONTRACT DOCUMENTS**

**PHASE 3A - CONTRACT DOCUMENTS (60% DESIGN)**

The CONSULTANT shall perform the following tasks under Phase 3A:

- Design and coordinate the Safety and Phasing plans with the PBCDOA and the FAA. These plans will also include all required 7460 information. CONSULTANT will also prepare and submit the 7460 filing information, in the FAA's electronic filing format, on behalf of the PBCDOA. The Safety and Phasing plans will be developed in accordance with FAA Advisory Circular 150/5370-2E. This task also includes revising the plans to include any comments provided by the FAA during their review process. The Safety and Phasing Plans will be submitted along with the required forms to the PBCDOA for approval and submittal to the FAA after the 60% Design Phase.
- Prepare, if necessary, the CATEX forms required for the FAA for compliance with NEPA regulations. If more than a CATEX form is required (e.g. environmental assessment, noise modeling, air quality analysis, or other targeted environmental analysis not typically included in a CATEX application), a supplemental scope of work, budget, and task order will be required.
- Prepare 60% Plans for this project that will generally include the following:
  - Cover Sheet
  - Project Quantity Sheet
  - General Notes
  - Project Key Sheet
  - Project Layout Plan
  - Safety and Phasing Plan(s)
  - Demolition Plan(s)
  - Pavement Geometry Plan(s)
  - Runway and Taxiway Profile Plan(s)
  - Typical Sections
  - Grading and Drainage Plans
  - Pavement Marking Plan(s)

Spot elevations will be provided when pavement grades are not covered by typical cross sections or additional detail is needed to ensure proper drainage. Known utilities will be shown on the drawings.

- Prepare 60% technical construction specifications. Additional supplemental Technical Specifications will be prepared as required to address special conditions.
- Prepare a 60% Engineer's Report including all design elements associated with the Airfield Rehabilitation Project for submittal to the PBCDOA, FDOT and FAA offices at the completion of the design.
- Prepare a 60% construction cost estimate



- Attend a design review meeting at the completion of the PBCDOA's review of the 60% submittal. CONSULTANT will prepare and submit minutes of this meeting as they pertain to the CONSULTANT scope of work. The PBCDOA's review comments will be incorporated into the construction plans and specifications.

*Deliverables: One (1) full-size set of the 60% Plans, five (5) half-size sets of the 60% Plans, six (6) copies of the 60% cost estimate, six (6) copies of the 60% Engineer's Report, six (6) copies of the outline of the 60% technical specifications.*

### **PHASE 3B - CONSTRUCTION DOCUMENTS (90% DESIGN)**

The CONSULTANT shall perform the following tasks under Phase 3B:

- Prepare 90% Plans for this project that will generally include the following:
  - Cover Sheet
  - Project Quantity Sheet
  - General Notes
  - Project Key Sheet
  - Project Layout Plan
  - Safety and Phasing Plan(s)
  - Demolition Plan(s)
  - Pavement Geometry Plan(s)
  - Runway and Taxiway Profile Plan(s)
  - Typical Sections
  - Grading and Drainage Plans
  - Pavement Marking Plan(s)

Spot elevations will be provided when pavement grades are not covered by typical cross sections or additional detail is needed to ensure proper drainage. Known utilities will be shown on the drawings.

- Prepare 90% Contract Specification including technical construction specifications. Additional supplemental Technical Specifications will be prepared as required to address special conditions. The administrative, commercial (e.g. insurance, bonds, etc.) and regulatory requirements are typically summarized in the front-end contract documents (i.e., Instruction to Bidders, Bid Forms, General Conditions, Special Conditions, etc.). It is assumed that these documents will be provided by the PBCDOA. The CONSULTANT will review the COUNTY'S contract documents and make the appropriate revisions to each of the sections based on the scope and performance requirements unique to this project, including specific project requirements, schedule information, and liquidated damages and terms for non-performance.
- Prepare a 90% Engineer's Report including all design elements associated with the Airfield Rehabilitation Project for submittal to the PBCDOA, FDOT and FAA offices at the completion of the design.
- Prepare a 90% construction cost estimate

- Prepare and submit to the SFWMD the ERP application for the removal of the Runway 15-33 hold pad.
- Attend a design review meeting at the completion of the PBCDOA's review of the 90% submittal. CONSULTANT will prepare and submit minutes of this meeting as they pertain to the CONSULTANT scope of work. The PBCDOA's review comments will be incorporated into the construction plans and specifications.

*Deliverables: One (1) full-size set of the 90% Plans, five (5) half-size sets of the 90% Plans, six (6) copies of the 90% cost estimate, six (6) copies of the 90% Engineer's Report, six (6) copies of the outline of the 90% Contract Specifications.*

#### **PHASE 3C-CONSTRUCTION DOCUMENTS (100% DESIGN)**

The CONSULTANT will perform the following tasks under Phase 3C:

- Address changes requested by PBCDOA at the 90% review meeting.
- Prepare the 100% complete Construction Documents for bidding. The plans and specifications will be provided in .pdf format to the PBCDOA on a CD before the advertisement of bidding. The Engineer's Report will also accompany this 100% complete document's submittal.
- Advise the DOA of any adjustments to the final statement of probable construction costs for the project caused by changes in scope, design requirements, or construction costs; and furnish a revised final itemized statement of probable construction costs for the project based on 100% complete drawings and specifications.

*Deliverables: One (1) full-size set of the 100% Plans, nine (9) half-size sets of the 100% Plans, ten (10) copies of the 100% cost estimate, ten (10) copies of the 100% Engineer's Report, ten (10) copies of the outline of the 100% Contract Specifications.*

#### **PHASE 4 - BIDDING AND AWARD OF CONTRACT**

The CONSULTANT will perform the following tasks under Phase 4:

1. Assist the PBCDOA in advertising for and obtaining bids for construction.
2. Print and distribute sets of Bidding Documents to Prospective Bidders and plan offices. The CONSULTANT shall maintain a record of prospective bidders to whom Bidding Documents have been issued, and receive and process fees for the Bidding Documents.
3. Respond to bidder's written questions and provide assistance to the DOA during the bid phase of the project designed by CONSULTANT.
4. Attend the pre-bid meeting to address issues related to the work designed by CONSULTANT. The CONSULTANT shall prepare pre-bid meeting minutes for distribution to the attending parties.
5. Prepare necessary addenda for CONSULTANT prepared plans and specifications and distribute addenda to the registered plan holders.
6. Review the bids associated with the CONSULTANT designed work for errors in addition and/or extensions of unit prices prepare bid tabulations and make recommendations for awarding the contract within 48 hours of the bid opening.

Deliverables: Bid Tabulation and Engineer's Review of Bids, Recommendation of Award

**PHASE 5 - CONSTRUCTION ADMINISTRATION**

The CONSULTANT shall perform the following tasks under Phase 5:

1. Prepare One (1) CD and 20 sets of "Conformed" plans and specifications which include all modifications resulting from bid phase addenda.
2. Attend the pre-construction meeting to address issues related to the project.
3. Review contractor's shop drawings, certifications, and test results for compliance with the construction documents.
4. Review and approve the contractor's monthly application for payment.
5. Respond to contractor's Requests for Information (RFI's).
6. Provide design consultation for changes in site conditions.
7. Prepare Project Bulletins to address design changes, RFI's and project change orders as may be required.
8. Prepare an ongoing log for RFI's and an ongoing submittal log.
9. Provide up to four (4) periodic site inspection visits as needed to address issues related to the designs if issues cannot be addressed via telephone calls and/or emails.
10. Participate in the substantial completion inspection and the final inspection.
11. Prepare record of final quantities and provide "Record" drawings on AutoCAD Release 2008 based on redline drawings supplied by the Contractor(s). The "Record" drawings will be provided to the DOA within 30 calendar days of receipt of the redline drawings. The "Record" drawings will be provided in .pdf format on two CD's and one (1) full-size set of drawings.

Deliverables: One (1) CD with Conformed Contract Documents, twenty (20) Sets of Conformed Plans, two (2) CDs with "Record" Drawings, one (1) full size set of "Record" Drawings

**Special Services:**

- Completion/submission of Airspace Checklists to FAA
- Limited Allowance for Quality Assurance Testing during construction (supplemental funds for these services may be required once the extent of construction – in terms of scope and schedule duration – is better defined).

**Items of Work Not Included in Scope**

Additional Geotechnical Services or Non-destructive testing  
Edge lighting and electrical improvements  
Costs associated with the publishing of public advertisements for construction bids  
Construction Management and Inspection Services

**Supporting Sub-Consultants**

RW Armstrong – Civil Engineering  
Nodarse – Geotechnical Investigation (Allowance)  
Brown & Phillips – Topographic Survey

**Data & Resources Required From PBCDOA or Other Parties**

As-built drawings for the project area  
Base Maps (ideally, photogrammetric files) for use in design  
COUNTY'S approved front-end contract documents  
Copies of bids received in order to evaluate prices

**Estimated Duration / Completion Date from Notice to Proceed (NTP)**

Phase 1	30 days
Phase 2	100 days
Phase 3A	60 days
Phase 3B	90 days
Phase 3 C	20 days
Phase 4	TBD
Phase 5	TBD

**Fee Type and Amount \***

Phases 1-3 (Design): Fixed Fee:	\$234,661
<u>Phase 4-5 (Bidding &amp; CA): Time and Materials</u>	<u>\$ 65,338</u>
Total Bidding & CA	\$299,999

\* These fees assume that all three design efforts will be consolidated into one bid package and constructed concurrently.

# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT A-I-7**

### **Task Scope Sheet**

Task I-09-DOA-R-014

Miscellaneous GA Airport Security Improvements

### **Scope**

This project comprises various security enhancements at the three general aviation airports: Palm Beach County Park Airport (LNA), North Palm Beach County general Aviation Airport (F45), and Palm Beach County Glades Airport (PHK). Specifically, these security enhancements including the following:

- Making provisions for video surveillance and recording at perimeter gates and ramps at LNA, F45 & PHK (quantities per Airport as summarized below).
- Making provisions for card readers and cipher locks at LNA and cipher locks at F45 (quantities per Airport as summarized below).
- Making provisions for miscellaneous fencing at LNA and F45.
- Making provisions for automated vehicle gate and pedestrian gate at LNA and pedestrian gate at F45 (quantities per Airport as summarized below).
- Providing the necessary electrical infrastructure to support the security enhancements outlined above, comprising electrical systems to support:

#### **LNA- Electrical Systems for:**

(2) New camera systems for 2-existing gates, new apron camera coverage system, wireless / repeater poles and (2) new complete electrical & lighting systems for main entrance vehicle gates and (2) pedestrian gates.

#### **F45- Electrical Systems for:**

(4) New camera systems for 4-existing gates, new apron camera coverage system units, wireless / repeater poles, airfield electrical vault electrical system modifications and (1) pedestrian gate.

#### **PHK- Electrical Systems for:**

(1) New camera systems for 1-existing gate, new apron & T-hangar building camera coverage units system, wireless / repeater poles.

The design services associated with this project is further described in the following pages.

**PHASE 1 – PROGRAM VERIFICATION/SCHEMATIC DESIGN**

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

1. Participate in an on-site meeting with the General Aviation Airports' Manager to discuss and review the scope of the security enhancements as transmitted via email on May 19, 2009
2. Examine 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.
3. Examine available site utilities information and verify 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.
4. Evaluate survey information provided (if any) and verify probable accuracy and adequacy for the project.
5. Examine available soils data provided (if any) and prepare soil boring location plan and specify other required soil tests and investigations.
6. Identify any apparent deficiencies in the available information and prepare specific requirements in writing depicting any further investigations required to develop that additional information.
7. Identify and verify Federal and State funding for the project, if applicable.

**PHASE 2 - DESIGN DEVELOPMENT (30% DESIGN)**

The CONSULTANT shall prepare Design Development Documents once the Program Verification phase is complete and a clear understanding of the engineering and/or architectural elements of the Project is confirmed. Design Development may proceed concurrently with exploratory subsurface investigations and an engineering survey, if required. A set of Design Development Documents and Plans will be prepared and reviewed with DOA staff.

Drawings will be produced on white bond, 11" by 17" in size. No Engineer's Report will be included. However, updates to the estimates of probable construction costs will be provided.

The CONSULTANT will submit eight (8) copies of the Design Development Documents for review comments and approval by the COUNTY. The CONSULTANT shall not proceed with the following Phase - Contract Documents until the Design Development has been reviewed and approved by the COUNTY Representative; the interested Department of Airports Divisions; the affected Airport Users; and written approval with appropriate comments is received from the COUNTY and approval has been issued to initiate the Contract Documents Phase.

In the event that the COUNTY and the CONSULTANT deem it advisable to proceed with the preparation of contract documents, a Consultant Services Authorization which specifies the services will be negotiated and approved.

**Special Services:**

- Limited surveying allowance for site surveys in the areas where new gates and pedestals will be constructed

**Items of Work Not Included in Scope**

Engineer's Report during the 30% design phases

**Supporting Sub-Consultant**

Big Sky Incorporated – Security Systems

Hillers Electrical Engineering, Inc. – Electrical Engineering and Power Distribution

**Data & Resources Required From Palm Beach DOA or Other Parties**

AutoCAD files of each airport's utility drawings

**Deliverables**

30% submittal drawings and cost estimate

**Estimated Duration / Completion Date**

Phase 1 - Program Verification:

60 days from Notice to Proceed

Phase 2 - Design Development:

60 days from DOA acceptance of  
Program Verification

**Fee Type and Amount**

Lump Sum: \$74,870

**PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

**EXHIBIT A-I-8**

**Task Scope Sheet**

Task I-09-PBI-R-015

PBI Parcel W-326 Property Appraisal, Acquisition, Relocation Services and Phase I Environmental Site Assessment

**Scope**

O.R. Colan Associates (ORC) has been requested by the Palm Beach County Department of Airports to provide appraisal, appraisal review, acquisition services and relocation services for one (1) commercial property located on the above referenced project. Please note that there is one (1) non-residential relocation as a result of the purchase of the fee parcel. All acquisition and relocation services provided by ORC and its designated sub consultants shall be performed in accordance with the FAA ORDER 5100.37B and the Uniform Relocation Act and its amendments, Federal Register, 49 CFR Part 24, Vol. 70, No. 2, dated January 4, 2005.

Parcel to be acquired:

Parcel	Owner	Occupant	Address
W-326	Star Property XVIII, LLC	The Check Cashing Store	616 N. Military Trail

A Phase I Environmental Site Assessment will also be performed for all three parcels to be acquired during this task. This effort will be conducted in accordance with American Society for Testing and Materials (ASTM) standards for performance of Phase I Environmental Site Assessments.

**Items of Work Not Included in Scope**

N/A

**Supporting Sub-Consultant**

O.R. Colan  
CECOS Environmental

**Data & Resources Required From Palm Beach DOA or Other Parties**

None

**Deliverables**

Appraisal report and appraisal review report  
Property titles and title commitments  
Closing documentation  
Offer letters  
Purchase agreements, applicable relocation notices and payment documentation  
Phase I Environmental Site Assessment Report



**Estimated Duration / Completion Date**

24 months from Issuance of Notice to Proceed

**Fee Type and Amount**

Appraisal, Acquisition & Relocation Services  
Phase I Environmental Site Assessment

Fixed Fee - \$ 29,773  
Time & Materials - \$ 7,380  

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**Total - \$ 37,153**

**PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

**EXHIBIT A-II**

**R&A Work Program #2 - Level 2 Tasks**

There are no Level 2 tasks associated with Work Program #2 of Amendment 1.

**PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

**EXHIBIT A-III**

**R&A Work Program #2 - Level 3 Tasks**

Level 3 tasks include dedicated allowance accounts that the COUNTY establishes for miscellaneous consulting services that may be required on an as needed basis. This initial work effort prescribed for Work Program #2 includes one account assigned to Level 3.

<u>Task No.</u>	<u>Description</u>
Task III-09- DOA-R-005	Miscellaneous Architectural, Engineering, Planning and Construction Services

A not-to-exceed labor and expense allowance of One Hundred Fifty Thousand Dollars (\$150,000) is provided for additional services performed under Task III-09-DOA-R-005. A separate proposal or authorization is to be required for services provided during this task. This is to serve as a record keeping arrangement for the performance of miscellaneous architectural, 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-09-DOA-R-005 as established in this contract.

**EXHIBIT B**  
**DETAILED FEES, EXPENSES & PAYMENTS**  
**CONTRACT AMENDMENT #1 (WORK PROGRAM #2)**

## **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

### **EXHIBIT B**

#### **Detailed Fees, Expenses, and Payments**

A detailed labor and fee estimate for R&A and each of its primary team members are also provided in **Tables B-1 through B-11**.

**Table B-1**  
 Labor/Fee Estimate Summary (Ricordo & Associates) - Work Program #2

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)			
	Officer	Director / Project Manager	Managing Consultant	Senior Consultant	Admin.	Construction Field Engineer	Total	Labor	Expenses	Sub-consultant Expense	Total
	<b>Level 1 Tasks (I-00-DOA-):</b>										
<b>PBI:</b>											
I-00-PBI-R-008 PBI Const. Field Svcs. & Insp. - Exit Taxiway D	8	116			16		140	\$ 29,260	\$ 4,000	\$ 167,110	\$ 200,370
I-00-PBI-R-009 West Comm. Properties Appraisal & Acquisition	8	40			16		64	\$ 12,160	\$ 750	\$ 121,285	\$ 134,195
I-00-PBI-R-010 PBI Concourse C Exit Improvements	4	16		2	8		30	\$ 5,490	\$ 500	\$ 37,825	\$ 43,815
I-00-PBI-R-011 PBI Const. Field Services - Misc. Pavement Repairs	2	106	0	2	8	2,544	2,662	\$ 330,530	\$ 17,050	\$ 210,400	\$ 557,980
I-00-PBI-R-015 PBI Parcel W326 Property Appraisal & Acquisition	2	12			4		18	\$ 3,490	\$ -	\$ 33,663	\$ 37,153
<b>LNA:</b>											
I-09-LNA-R-012 LNA Stormwater MP - Conceptual Permit	8	80	12	8	4		92	\$ 19,100	\$ 600	\$ 187,260	\$ 206,960
I-09-LNA-R-013 LNA Miscellaneous Airfield Pavement Rehabilitation											
Sub-Consultant Management & Coordination	8	16			8		32	\$ 6,160	\$ 200	\$ -	\$ 6,360
Site Survey							0	\$ -	\$ -	\$ 11,877	\$ 11,877
Geotech							0	\$ -	\$ -	\$ 7,302	\$ 7,302
30 % Design		12					12	\$ 2,700	\$ 50	\$ 48,790	\$ 51,540
60 % Design		8					8	\$ 1,800	\$ -	\$ 49,662	\$ 51,462
90 % Design		8			40		48	\$ 4,800	\$ -	\$ 48,436	\$ 53,236
100% Design + Bid Documents	16	40			64		120	\$ 17,720	\$ 1,200	\$ 33,964	\$ 52,884
Bid Services & Construction Admin.	4	20			24		48	\$ 7,280	\$ 2,000	\$ 56,058	\$ 65,338
<b>Subtotal:</b>	<b>28</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>136</b>	<b>0</b>	<b>268</b>	<b>\$ 40,460</b>	<b>\$ 3,450</b>	<b>\$ 258,089</b>	<b>\$ 299,999</b>
<b>Misc.:</b>											
I-09-DOA-R-014 Misc. GA Airport Security Improvements	4	28	0	2	0	0	34	\$ 7,590	\$ 200	\$ 67,080	\$ 74,870
<b>Subtotal - Level 1 Tasks</b>	<b>64</b>	<b>482</b>	<b>12</b>	<b>14</b>	<b>192</b>	<b>2,044</b>	<b>3,308</b>	<b>\$ 448,080</b>	<b>\$ 26,650</b>	<b>\$ 1,080,712</b>	<b>\$ 1,555,342</b>
<b>Level 2 Tasks (II-00-DOA-):</b>											
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,544</b>	<b>60</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>											
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total - Level 1, 2 and 3 Tasks (with Defined Scopes)</b>	<b>64</b>	<b>482</b>	<b>12</b>	<b>14</b>	<b>192</b>	<b>7,632</b>	<b>3,440</b>	<b>\$ 448,080</b>	<b>\$ 26,650</b>	<b>\$ 1,080,712</b>	<b>\$ 1,555,342</b>
								Allowance Account: II-09-DOA-R-001 Miscellaneous AEP Services \$ 150,000 Subtotal Allowances: \$ 150,000 Grand Total: \$ 1,705,342			

Source: Ricordo & Associates, Inc.  
 Prepared by: Ricordo & Associates, Inc.

Table B-1a

Labor/Fee Estimate Summary (Ricordo & Associates) - Misc. Pavement Repair Construction Field Services, Inspection & QA Testing

Billing Rate: \$ 245 \$ 225 \$ 155 \$ 75 \$ 120

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)			
	Officer	Director / Project Manager	Senior Consultant	Admin.	Construction Field Engineer	Total	Labor	Expenses	Sub-consultant Expense	Total
<b>PBI Task No I-09-PBI-R-011 PBI Miscellaneous Pavement Repair Construction Field Services, Inspection &amp; QA Testing</b>										
<b>1.0 Contract Management &amp; Admin. Total</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>\$ 2,300</b>	<b>\$ 250</b>	<b>\$ -</b>	<b>\$ 2,550</b>
1.1 Contract Management	2	4	2	8		16	\$ 2,300	\$ 250	\$ -	\$ 2,550
<b>2.0 Schedule A Total</b>	<b>0</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>1,360</b>	<b>1,406</b>	<b>\$ 173,550</b>	<b>\$ 8,500</b>	<b>\$ 94,512</b>	<b>\$ 276,562</b>
2.1 Task Management		46				46	\$ 10,350	\$ 500	\$ -	\$ 10,850
2.2 Construction Field Services & Inspection					1,324	1,324	\$ 158,880	\$ 8,000	\$ 41,012	\$ 207,892
2.3 QA Testing					36	36	\$ 4,320	\$ -	\$ 53,500	\$ 57,820
<b>3.0 Schedule B Total</b>	<b>0</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>1,040</b>	<b>1,088</b>	<b>\$ 135,600</b>	<b>\$ 6,500</b>	<b>\$ 100,812</b>	<b>\$ 242,912</b>
3.1 Task Management		48				48	\$ 10,800	\$ 500	\$ -	\$ 11,300
3.2 Construction Field Services & Inspection					1,020	1,020	\$ 122,400	\$ 6,000	\$ 41,012	\$ 169,412
3.3 QA Testing					20	20	\$ 2,400	\$ -	\$ 59,800	\$ 62,200
<b>4.0 Bid Alternate #1 (RON Apron) Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,019</b>	<b>\$ 7,019</b>
4.1 Task Management										
4.2 Construction Field Services & Inspection										
4.3 QA Testing						0	\$ -	\$ -	\$ 7,019	\$ 7,019
<b>5.0 Bid Alternate #2 (Concourse B Apron) Total</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>144</b>	<b>152</b>	<b>\$ 19,080</b>	<b>\$ 1,800</b>	<b>\$ 3,876</b>	<b>\$ 24,756</b>
5.1 Task Management		8				8	\$ 1,800	\$ 100	\$ -	\$ 1,900
5.2 Construction Field Services & Inspection					134	134	\$ 16,080	\$ 1,700	\$ -	\$ 17,780
5.3 QA Testing					10	10	\$ 1,200	\$ -	\$ 3,876	\$ 5,076
<b>6.0 Bid Alternate #3 Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,181</b>	<b>\$ 4,181</b>
6.1 Task Management										
6.2 Construction Field Services & Inspection										
6.3 QA Testing						0	\$ -	\$ -	\$ 4,181	\$ 4,181
<b>Grand Total</b>	<b>2</b>	<b>106</b>	<b>2</b>	<b>8</b>	<b>2,544</b>	<b>2,662</b>	<b>\$ 330,530</b>	<b>\$ 17,050</b>	<b>\$ 210,400</b>	<b>\$ 557,980</b>

Source: Ricordo & Associates, Inc.  
Prepared by: Ricordo & Associates, Inc.

**Table B-1b**

**Labor/Fee Estimate Summary (Ricondo & Associates) - Miscellaneous GA Airport Security Improvements**

**Billing Rate:** \$ 245 \$ 225 \$ 155

Task Description	Labor Estimate (Hours)				Fee Estimate (\$)				
	Officer	Director / Project Manager	Senior Consultant	Total	Labor	Expenses	Sub -consultant Expense	Total	
	PBI Task No I-09-DOA-R-015 - Miscellaneous GA Airport Security Upgrades (Phase 1)								
<b>1.0 Task Mgmt &amp; Meetings</b>	<b>Total</b>	<b>2</b>	<b>28</b>	<b>2</b>	<b>32</b>	<b>\$ 7,100</b>	<b>\$ 200</b>	<b>\$ 15,442</b>	<b>\$ 22,742</b>
1.1 Subconsultant Coordination	2	16	2	20	\$ 4,400	\$ -	\$ -	\$ 4,400	
1.2 Kickoff Meeting		4		4	\$ 900	\$ 75	\$ 5,701	\$ 6,676	
1.3 Coordination Meetings (2 Max.)		8		8	\$ 1,800	\$ 125	\$ 9,741	\$ 11,666	
<b>2.0 Prog. Definition/Verification</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>\$ 490</b>	<b>\$ -</b>	<b>\$ 15,770</b>	<b>\$ 16,260</b>
2.1 Program Cost Analysis								4,110	4,110
2.2 Airport Site Assessment								657	657
2.3 Site Safety Review								6,676	6,676
2.4 Data Dependence Review								2,330	2,330
2.5 State/Federal Funding Options	2			2	\$ 490	\$ -	\$ 1,988	\$ 2,478	
<b>3.0 Schematic Design/Design Dev (30%)</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 35,868</b>	<b>\$ 35,868</b>
3.1 Design Development Document								19,038	19,038
3.2 Design Development Plan								16,830	16,830
<b>Grand Total</b>	<b>4</b>	<b>28</b>	<b>2</b>	<b>34</b>	<b>\$ 7,590</b>	<b>\$ 200</b>	<b>\$ 67,080</b>	<b>\$ 74,870</b>	

Source: Ricondo & Associates, Inc.  
Prepared by: Ricondo & Associates, Inc.



**Table B-2**  
**Labor/Fee Estimate Summary (R.W. Armstrong) - Work Program #2**

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)		
	Director	Sr. Project Manager	Senior Engineer	Design Manager	Sr. Cadd Tech.	Total	Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>									
<b>PBI:</b>									
I-00-PBI-R-008 PBI Const. Field Svcs. & Insp. - Exit Taxiways D <small>(I-00-PBI-R-008: 2000 Const. Engineer's Contract &amp; Agreement I-00-PBI-R-010: PBI Construction &amp; Management)</small>	30	90	150			270	\$ 45,270	\$ 5,000	\$ 50,270
I-00-PBI-R-011 PBI Const. Field Services - Misc. Pavement Repairs <small>(I-00-PBI-R-011: 2000 Const. Engineer's Contract &amp; Agreement)</small>	0	48	0	0	0	648	\$ 73,824	\$ 8,200	\$ 82,024
<b>LNA:</b>									
<b>I-09-LNA-R-013 LNA Miscellaneous Airfield Pavement Rehabilitation</b>									
Sub-Consultant Management & Coordination						0	\$ -	\$ -	\$ -
Site Survey		4		6	16	26	\$ 3,006	\$ -	\$ 3,006
Geotech		4		6	12	22	\$ 2,642	\$ -	\$ 2,642
30 % Design	12	60	#	120	190	410	\$ 47,290	\$ 1,500	\$ 48,790
60 % Design	12	64		130	180	386	\$ 48,462	\$ 1,200	\$ 49,662
90 % Design	12	58		132	176	378	\$ 47,236	\$ 1,200	\$ 48,436
100% Design + Bid Documents	10	38		100	120	268	\$ 33,664	\$ 300	\$ 33,964
Bid Services & Construction Admin.	12	64		74	64	214	\$ 30,458	\$ 1,600	\$ 32,058
<b>Subtotal:</b>	<b>58</b>	<b>292</b>	<b>0</b>	<b>568</b>	<b>758</b>	<b>1,704</b>	<b>\$ 212,758</b>	<b>\$ 5,800</b>	<b>\$ 218,558</b>
<b>Misc.:</b>									
<b>Subtotal - Level 1 Tasks</b>	<b>88</b>	<b>430</b>	<b>150</b>	<b>568</b>	<b>758</b>	<b>2,622</b>	<b>\$ 331,852</b>	<b>\$ 19,000</b>	<b>\$ 350,852</b>
<b>Level 2 Tasks (II-00-DOA-):</b>									
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>									
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>88</b>	<b>430</b>	<b>150</b>	<b>568</b>	<b>758</b>	<b>2,622</b>	<b>\$ 331,852</b>	<b>\$ 19,000</b>	<b>\$ 350,852</b>

Source: R.W. Armstrong & Associates, Inc.  
 Prepared by: Ricondo & Associates, Inc.

**Table B-2a**

Labor/Fee Estimate Summary (R.W. Armstrong) - LNA Miscellaneous Pavement Rehabilitation

**FEE ESTIMATE SHEET**

**PROJECT DESCRIPTION:**  
Rehabilitate RW 15/33, TW "C", Apron Pavement - LNA



**CLIENT/LOCATION:**  
Ricondo & Associates  
Palm Beach County

**DATE:** 10/29/2009

**DESIGN and BIDDING SERVICES FEE**

		Director \$230	Senior Project Mgr \$188	Project Mgr \$165	Senior Engineer \$143	Design Manager \$133	Engineer/ Designer \$122	Senior CAD Tech \$91	CAD Tech \$81	Senior Inspector \$108	Subs Expenses/ travel	TOTAL
<b>SURVEY AND CIVIL DESIGN</b>												
Site visit and Kickoff meeting	hrs	0	4			4	0	8				
Travel / Per Diems	\$	\$0	\$752	\$0	\$0	\$532	\$0	\$728	\$0	\$0	\$600	\$2,612
Field Survey	hrs		4			6	0	16				
SUBCONTRACT TO BROWN & PHILLIPS	\$	\$0	\$752	\$0	\$0	\$798	\$0	\$1,456	\$0	\$0	\$0	\$3,006
Soil Investigation	hrs		4			6	0	12				
SUBCONTRACT TO NODARSE	\$	\$0	\$752	\$0	\$0	\$798	\$0	\$1,092	\$0	\$0	0	\$2,642
Design (0-30%)	hrs	12	48			108	0	182	0			
	\$	\$2,760	\$9,024	\$0	\$0	\$14,364	\$0	\$16,562	\$0	\$0	\$300	\$43,010
Design Review meeting w/DOA	hrs	0	8			8	0	0				
Travel / Per Diems	\$	\$0	\$1,504	\$0	\$0	\$1,064	\$0	\$0	\$0	\$0	\$600	\$3,168
Design (30-60%)	hrs	12	60			126	0	176				
	\$	\$2,760	\$11,280	\$0	\$0	\$16,758	\$0	\$16,016	\$0	\$0	\$600	\$47,414
Design Review meeting w/DOA	hrs	0	4			4		4				
Travel / Per Diems	\$	\$0	\$752	\$0	\$0	\$532	\$0	\$364	\$0	\$0	\$600	\$2,248
Design (60-90%)	hrs	12	54			128		172				
	\$	\$2,760	\$10,152	\$0	\$0	\$17,024	\$0	\$15,652	\$0	\$0	\$600	\$46,188
Design Review meeting w/DOA	hrs	0	4			4		4				
Travel / Per Diems	\$	\$0	\$752	\$0	\$0	\$532	\$0	\$364	\$0	\$0	\$600	\$2,248
Final Design (90-100%)	hrs	4	22			60		80				
Reproduction	\$	\$920	\$4,136	\$0	\$0	\$7,980	\$0	\$7,280	\$0	\$0	\$100	\$20,416
Engineer's Report, SFWMD coordination	hrs	6	16			40	0	40	0			
Reproduction	\$	\$1,380	\$3,008	\$0	\$0	\$5,320	\$0	\$3,640	\$0	\$0	\$200	\$13,548
Bidding Services	hrs	4	24			24	0	24	0			
Travel / Per Diems	\$	\$920	\$4,512	\$0	\$0	\$3,192	\$0	\$2,184	\$0	\$0	\$600	\$11,408
Construction Admin.	hrs	8	40			50	0	40	0			
Travel / Per Diems	\$	\$1,840	\$7,520	\$0	\$0	\$6,650	\$0	\$3,640	\$0	\$0	\$1,000	\$20,650
<b>TOTAL</b>	hrs	<b>58</b>	<b>292</b>	<b>0</b>	<b>0</b>	<b>568</b>	<b>0</b>	<b>758</b>	<b>0</b>	<b>0</b>	<b>\$4,800</b>	<b>\$218,558</b>
	\$	<b>\$13,340</b>	<b>\$54,896</b>	<b>\$0</b>	<b>\$0</b>	<b>\$75,544</b>	<b>\$0</b>	<b>\$68,978</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,800</b>	<b>\$218,558</b>

Source: R.W. Armstrong & Associates, Inc.  
Prepared by: R.W. Armstrong & Associates, Inc.

**Table B-2b**

Labor/Fee Estimate Summary (R.W. Armstrong) - Misc. Pavement Repair Construction Field Services, Inspection & QA Testing

**Billing Rate:** \$ 188 \$ 108

Task Description	Labor Estimate (Hours)			Fee Estimate (\$)		
	Sr. Project Manager	Senior Inspector	Total	Labor	Expenses	Total
<b>PBI Task No I-09-PBI-R-011 PBI Miscellaneous Pavement Repair Construction Field Services, Inspection &amp; QA Testing</b>						
<b>1.0 Task Management &amp; Admin.</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
1.1 Contract Management						
<b>2.0 Schedule A</b>	<b>Total</b>	<b>24</b>	<b>300</b>	<b>\$ 36,912</b>	<b>\$ 4,100</b>	<b>\$ 41,012</b>
2.1 Task Management						
2.2 Construction Field Services & Inspection	24	300	324	\$ 36,912	\$ 4,100	\$ 41,012
2.3 QA Testing						
<b>3.0 Schedule B</b>	<b>Total</b>	<b>24</b>	<b>300</b>	<b>\$ 36,912</b>	<b>\$ 4,100</b>	<b>\$ 41,012</b>
3.1 Task Management						
3.2 Construction Field Services & Inspection	24	300	324	\$ 36,912	\$ 4,100	\$ 41,012
3.3 QA Testing						
<b>4.0 Bid Alternate #1 (RON Apron)</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
4.1 Task Management						
4.2 Construction Field Services & Inspection						
4.3 QA Testing						
<b>5.0 Bid Alternate #2 (Concourse B Apron)</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
5.1 Task Management						
5.2 Construction Field Services & Inspection						
5.3 QA Testing						
<b>6.0 Bid Alternate #3</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
6.1 Task Management						
6.2 Construction Field Services & Inspection						
6.3 QA Testing						
<b>Grand Total</b>		<b>48</b>	<b>600</b>	<b>\$ 73,824</b>	<b>\$ 8,200</b>	<b>\$ 82,024</b>

Source: RW Armstrong, Inc.

Prepared by: Ricondo & Associates, Inc.

**Table B-3**  
**Labor/Fee Estimate Summary (Schenkel-Shultz) - Work Program #2**

**Billing Rate:** \$ 220 \$ 200 \$ 120 \$ 120 \$ 55

Task Description	Labor Estimate (Hours)					Fee Estimate (\$)			
	Program Director I	Program Director II	Project Architect	Job Site Inspector	Clerical	Total	Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>									
<b>PBI:</b>									
I-00-PBI-R-010 PBI Concourse C Exit Improvements	2	33	72	40	8	155	\$ 20,920	\$ 3,200	\$ 24,120
<b>LNA:</b>									
Subtotal	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>Misc.:</b>									
Subtotal - Level 1 Tasks	2	33	72	40	8	155	\$ 20,920	\$ 3,200	\$ 24,120
<b>Level 2 Tasks (II-00-DOA-):</b>									
Subtotal - Level 2 Tasks	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>Level 3 Tasks (III-00-DOA-):</b>									
Subtotal - Level 3 Tasks	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>Grand Total</b>	<b>2</b>	<b>33</b>	<b>72</b>	<b>40</b>	<b>8</b>	<b>155</b>	<b>\$ 20,920</b>	<b>\$ 3,200</b>	<b>\$ 24,120</b>

Source: Schenkel-Shultz Architecture  
 Prepared by: Ricondo & Associates, Inc.

Table B-3a									
Labor/Fee Estimate Summary (Schenkel-Shultz) - PBI Concourse C Exit Improvements									
Billing Rate: 220 200 120 120 55									
	Program Director I	Program Director II	Project Architect	Job Site Inspector	Clerical				
TASKS	Krueger	Hanson	Thomas	Waterman		Total	Labor	Expenses	Total
Site Review with Jerry Allen		4				4	\$ 800	\$ 175	
Review Life Safety Analysis and Prepare initial solution powerpoint/graphics		8				8	\$ 1,600		
Concept Presentation to PBC DOA		4				4	\$ 800	\$ 175	
Field Review Existing conditions		1	1			2	\$ 320		
Review approach with Fire Marshall						0	\$ -		
Collect existing cad files/ drawing as-builts		1	2			3	\$ 440		
Prepare construction docs						0	\$ -	\$ 2,000 <sup>1/1</sup>	
Cover Sheet			4			4	\$ 480		
Life Safety plan			8			8	\$ 960		
Demo Plan			4			4	\$ 480		
Floor Plan/ Door Schedule			4			4	\$ 480		
Reflected Ceiling Plan			4			4	\$ 480		
Specifications (grilles, glass drs, panic bars)				8		8	\$ 960		
Elevations and Building Sections			8			8	\$ 960		
Details- headers, jamb tracks, ceilings, etc			16			16	\$ 1,920		
Consultant coordination- struct, elec fp		4	4			8	\$ 1,280		
Quality Control Review drawings and specs	2	4				6	\$ 1,240		
Collect Documents from consultants/print			4			4	\$ 480	\$ 150	
Sign and seal permit sets		1	1			2	\$ 320		
Permit Comments Review and Response		4	4			8	\$ 1,280		
Review Contractor pricing		2				2	\$ 400		
Construction Admin						0	\$ -		
Review submittals and shop drawings				8		8	\$ 960		
4 site visits @ 2 hrs				16		16	\$ 1,920	\$ 700	
Final punchlist/CO				8	8	16	\$ 1,400		
Prepare close-out documents			8			8	\$ 960		
<b>TOTAL HOURS</b>	<b>2</b>	<b>33</b>	<b>72</b>	<b>40</b>	<b>8</b>	<b>147</b>	<b>\$ 20,920</b>	<b>\$ 3,200</b>	<b>\$ 24,120</b>
<b>TOTAL FEES by Category</b>	<b>\$ 440</b>	<b>\$ 6,600</b>	<b>\$ 8,640</b>	<b>\$ 4,800</b>	<b>\$ 440</b>		<b>\$ 20,920</b>		
<sup>1/1</sup> Specialty consultant fee of \$2,000 for TKW to provide structural design services.									
Source: Schenkel-Shultz Architecture									
Prepared by: Schenkel-Shultz Architecture									

**Table B-4**  
**Labor/Fee Estimate Summary (ADA Engineering Std. Office) - Work Program #2**

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)			
	Project / Design Manager	Project Engineer	Staff Engineer / Mid-level Scheduler	Senior / Design Technician / Scheduler	GIS Specialist / Scheduler	Estimator / Admin.	Total	Labor	Expenses	Total
<b>Billing Rate:</b>	\$ 200	\$ 175	\$ 142	\$ 85	\$ 110	\$ 74				
<b>Level 1 Tasks (I-00-DOA-):</b>										
<b>PBI:</b>										
<b>LNA:</b>										
-09-LNA-R-012 LNA Stormwater MP - Conceptual Permit	58.5	260	428	104	68	12	931	\$ 135,184	\$ 6,759	\$ 141,943
<b>Misc.:</b>										
<b>Subtotal - Level 1 Tasks</b>	<b>59</b>	<b>260</b>	<b>428</b>	<b>104</b>	<b>68</b>	<b>12</b>	<b>931</b>	<b>\$ 135,184</b>	<b>\$ 6,759</b>	<b>\$ 141,943</b>
<b>Level 2 Tasks (II-00-DOA-):</b>										
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>										
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>59</b>	<b>260</b>	<b>428</b>	<b>104</b>	<b>68</b>	<b>12</b>	<b>931</b>	<b>\$ 135,184</b>	<b>\$ 6,759</b>	<b>\$ 141,943</b>

Source: A.D.A. Engineering, Inc.  
 Prepared by: Ricondo & Associates, Inc.

Table B-4a  
Detailed Labor/Fee Estimate Summary (ADA Engineering Std. Office) - LNA Stormwater Master Plan/ERP Application

Palm Beach Park Airport (Lantana)  
Development Support - Part I  
Conceptual Stormwater Management Analyses

Labor & Fee Estimate

Task /Subtask	SFWMD Category (Contract No. CN040912)	Project Manager	Project Engineer	Staff Engineer	GIS Specialist	Design Technician	Admin	Total Labor Hours	Total Labor Costs	Other Direct Expenses**	Total	Comments/Assumptions
		Rate	\$200.00	\$175.00	\$142.00	\$110.00	\$85.00					
<b>1</b>	<b>Project Kick-off and Coordination Meetings</b>	<b>31</b>	<b>60</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95</b>	<b>\$17,285.00</b>	<b>\$863.40</b>	<b>\$18,131.40</b>	<b>TOTALS</b>
1.1	Attend Kick-off meeting	4	4					8	\$1,500.00	\$75.00	\$1,575.00	1 meeting
1.2	Prepare kick off meeting notes	1	2				0	3	\$550.00	\$27.50	\$577.50	
1.3	Attend Meetings with South Florida Water Management District	6	12					18	\$3,300.00	\$165.00	\$3,465.00	3 meetings
1.4	Attend meetings with Department of Airports for review of airport development and presentation of alternatives	4	8					12	\$2,200.00	\$110.00	\$2,310.00	2 meetings
1.5	Internal Team Coordination Meetings	6	12					18	\$3,300.00	\$165.00	\$3,465.00	3 meetings
1.6	Attend Meetings with USACOE	6	12					18	\$3,300.00	\$165.00	\$3,465.00	3 meetings
1.7	Airport Site Visits	4	8					12	\$2,200.00	\$110.00	\$2,310.00	2 visits
1.8	Visits to Department of Airports for Document Review	0	2	4				6	\$918.00	\$45.90	\$963.90	2 visits
<b>2</b>	<b>Data Collection and Evaluation</b>	<b>2</b>	<b>30</b>	<b>72</b>	<b>24</b>	<b>16</b>	<b>0</b>	<b>144</b>	<b>\$19,874.00</b>	<b>\$993.70</b>	<b>\$20,867.70</b>	<b>TOTALS</b>
2.1	Review available data		20	48		16		84	\$11,676.00	\$583.80	\$12,259.80	Includes coordination with LWDD
2.2	Validate LIDAR topography / Merge all topographic source data	1	2	8	24			35	\$4,326.00	\$216.30	\$4,542.30	
2.3	Coordination with Brown & Phillips to perform site survey	1	8	16				25	\$3,872.00	\$193.60	\$4,065.60	
<b>3</b>	<b>Develop Existing Conditions Model</b>	<b>2</b>	<b>29</b>	<b>60</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>\$14,875.00</b>	<b>\$743.75</b>	<b>\$15,618.75</b>	<b>TOTALS</b>
3.1	Develop ICPR hydrologic model parameters	1	8	16	4			29	\$4,312.00	\$215.60	\$4,527.60	
3.2	Develop ICPR hydraulic model parameters	1	16	32	4			53	\$7,984.00	\$399.20	\$8,383.20	
3.3	Debug existing conditions model		4	8				12	\$1,836.00	\$91.80	\$1,927.80	
3.4	Perform existing conditions model runs		1	4				5	\$743.00	\$37.15	\$780.15	
<b>4</b>	<b>Develop Build-Out Conditions Model</b>	<b>2</b>	<b>37</b>	<b>84</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>131</b>	<b>\$19,683.00</b>	<b>\$984.15</b>	<b>\$20,667.15</b>	<b>TOTALS</b>
4.1	Develop ICPR hydrologic model parameters	1	8	24	4			37	\$5,448.00	\$272.40	\$5,720.40	
4.2	Develop ICPR hydraulic model parameters for Alternatives	1	24	48	4			77	\$11,658.00	\$582.80	\$12,238.80	No more than three alternatives
4.3	Debug build-out conditions model for all Alternatives		4	8				12	\$1,836.00	\$91.80	\$1,927.80	
4.4	Perform build-out conditions model runs		1	4				5	\$743.00	\$37.15	\$780.15	
<b>5</b>	<b>Master Plan Study Technical Memorandum</b>	<b>13.5</b>	<b>56</b>	<b>124</b>	<b>16</b>	<b>80</b>	<b>7</b>	<b>296.5</b>	<b>\$39,186.00</b>	<b>\$1,959.30</b>	<b>\$41,145.30</b>	<b>TOTALS</b>
5.1	Prepare Node-Link Schematics	0.5	4	8	16			26.5	\$3,696.00	\$184.80	\$3,880.80	
5.2	Prepare Cost Opinion and Implementation Schedules	2	16	32			2	52	\$7,892.00	\$394.60	\$8,286.60	
5.3	Prepare Draft Stormwater Management Master Technical Memo	8	20	40			4	72	\$11,076.00	\$553.80	\$11,629.80	
5.4	Prepare Final Stormwater Management Master Technical Memo	1	4	16			1	22	\$3,246.00	\$162.30	\$3,408.30	
5.5	Prepare Conceptual Plans (Grading-Drainage, Typical Sections & Details)	2	12	28		80		122	\$13,276.00	\$663.80	\$13,939.80	Typical Sections, Geometry and Facilities(2), Grading and Drainage (2)
<b>6</b>	<b>Prepare Permit Applications</b>	<b>6</b>	<b>48</b>	<b>84</b>	<b>12</b>	<b>8</b>	<b>5</b>	<b>165</b>	<b>\$24,298.00</b>	<b>\$1,214.90</b>	<b>\$25,512.90</b>	<b>TOTALS</b>
6.1	Coordinate USACE Application	2	12	8			2	24	\$3,784.00	\$189.20	\$3,973.20	
6.2	Prepare SFWMD ERP Application	4	24	60	8	4	2	102	\$14,888.00	\$744.40	\$15,632.40	
6.3	Prepare Applicable RAIs	2	12	16	4	4	1	39	\$5,626.00	\$281.30	\$5,907.30	1 RAI for SFWMD and 1 RAI for USACE
<b>Total Hours</b>		<b>58.5</b>	<b>260</b>	<b>428</b>	<b>68</b>	<b>104</b>	<b>12</b>	<b>0</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b>Total \$ Per Individuals</b>		<b>\$11,700</b>	<b>\$45,500</b>	<b>\$60,776</b>	<b>\$7,480</b>	<b>\$8,840</b>	<b>\$888</b>					
<b>TASK ORDER TOTAL</b>								<b>931</b>	<b>\$ 135,184.00</b>	<b>\$ 6,759.20</b>	<b>\$141,943.20</b>	

\*\* Other direct expenses assumed at 5% of labor cost.

Table B-5  
 Labor/Fee Estimate Summary (ADA Engineering Std. Field) - Work Program #2

Task Description	Billing Rate:						Labor Estimate (Hours)			Fee Estimate (\$)		
	Sr. Constr. Manager	Constr. Manager	Sr. Inspector	Threshold Inspector	Estimator	Total	Labor	Expenses	Total			
	\$ 173	\$ 114	\$ 72	\$ 151	\$ 56							
<b>Level 1 Tasks (I-00-DOA-):</b>												
<b>PBI:</b>												
I-00-PBI-R-008 PBI Const. Field Svcs. & Insp. - Exit Taxiways D			1,300			1,300	\$ 93,600	\$ 14,400	\$ 108,000			
I-00-PBI-R-009 PBI Const. Field Svcs. & Insp. - Taxiway A, Runway 3, & Taxiway C												
I-00-PBI-R-010 PBI Const. Field Svcs. & Insp. - Taxiway D												
I-00-PBI-R-011 PBI Const. Field Svcs. & Insp. - Taxiway E												
I-00-PBI-R-012 PBI Const. Field Svcs. & Insp. - Taxiway F												
I-00-PBI-R-013 PBI Const. Field Svcs. & Insp. - Taxiway G												
I-00-PBI-R-014 PBI Const. Field Svcs. & Insp. - Taxiway H												
I-00-PBI-R-015 PBI Const. Field Svcs. & Insp. - Taxiway I												
<b>LNA:</b>												
LNA-PBI-R-016 PBI Const. Field Svcs. & Insp. - Taxiway J												
LNA-PBI-R-017 PBI Const. Field Svcs. & Insp. - Taxiway K												
LNA-PBI-R-018 PBI Const. Field Svcs. & Insp. - Taxiway L												
LNA-PBI-R-019 PBI Const. Field Svcs. & Insp. - Taxiway M												
LNA-PBI-R-020 PBI Const. Field Svcs. & Insp. - Taxiway N												
LNA-PBI-R-021 PBI Const. Field Svcs. & Insp. - Taxiway O												
LNA-PBI-R-022 PBI Const. Field Svcs. & Insp. - Taxiway P												
LNA-PBI-R-023 PBI Const. Field Svcs. & Insp. - Taxiway Q												
LNA-PBI-R-024 PBI Const. Field Svcs. & Insp. - Taxiway R												
LNA-PBI-R-025 PBI Const. Field Svcs. & Insp. - Taxiway S												
LNA-PBI-R-026 PBI Const. Field Svcs. & Insp. - Taxiway T												
LNA-PBI-R-027 PBI Const. Field Svcs. & Insp. - Taxiway U												
LNA-PBI-R-028 PBI Const. Field Svcs. & Insp. - Taxiway V												
LNA-PBI-R-029 PBI Const. Field Svcs. & Insp. - Taxiway W												
LNA-PBI-R-030 PBI Const. Field Svcs. & Insp. - Taxiway X												
LNA-PBI-R-031 PBI Const. Field Svcs. & Insp. - Taxiway Y												
LNA-PBI-R-032 PBI Const. Field Svcs. & Insp. - Taxiway Z												
Subtotal	0	0	0	0	0	0	\$ -	\$ -	\$ -			
<b>Misc.:</b>												
Misc-PBI-R-033 Misc. PBI Const. Field Svcs. & Insp. - Taxiway A												
Misc-PBI-R-034 Misc. PBI Const. Field Svcs. & Insp. - Taxiway B												
Misc-PBI-R-035 Misc. PBI Const. Field Svcs. & Insp. - Taxiway C												
Misc-PBI-R-036 Misc. PBI Const. Field Svcs. & Insp. - Taxiway D												
Misc-PBI-R-037 Misc. PBI Const. Field Svcs. & Insp. - Taxiway E												
Misc-PBI-R-038 Misc. PBI Const. Field Svcs. & Insp. - Taxiway F												
Misc-PBI-R-039 Misc. PBI Const. Field Svcs. & Insp. - Taxiway G												
Misc-PBI-R-040 Misc. PBI Const. Field Svcs. & Insp. - Taxiway H												
Misc-PBI-R-041 Misc. PBI Const. Field Svcs. & Insp. - Taxiway I												
Misc-PBI-R-042 Misc. PBI Const. Field Svcs. & Insp. - Taxiway J												
Misc-PBI-R-043 Misc. PBI Const. Field Svcs. & Insp. - Taxiway K												
Misc-PBI-R-044 Misc. PBI Const. Field Svcs. & Insp. - Taxiway L												
Misc-PBI-R-045 Misc. PBI Const. Field Svcs. & Insp. - Taxiway M												
Misc-PBI-R-046 Misc. PBI Const. Field Svcs. & Insp. - Taxiway N												
Misc-PBI-R-047 Misc. PBI Const. Field Svcs. & Insp. - Taxiway O												
Misc-PBI-R-048 Misc. PBI Const. Field Svcs. & Insp. - Taxiway P												
Misc-PBI-R-049 Misc. PBI Const. Field Svcs. & Insp. - Taxiway Q												
Misc-PBI-R-050 Misc. PBI Const. Field Svcs. & Insp. - Taxiway R												
Misc-PBI-R-051 Misc. PBI Const. Field Svcs. & Insp. - Taxiway S												
Misc-PBI-R-052 Misc. PBI Const. Field Svcs. & Insp. - Taxiway T												
Misc-PBI-R-053 Misc. PBI Const. Field Svcs. & Insp. - Taxiway U												
Misc-PBI-R-054 Misc. PBI Const. Field Svcs. & Insp. - Taxiway V												
Misc-PBI-R-055 Misc. PBI Const. Field Svcs. & Insp. - Taxiway W												
Misc-PBI-R-056 Misc. PBI Const. Field Svcs. & Insp. - Taxiway X												
Misc-PBI-R-057 Misc. PBI Const. Field Svcs. & Insp. - Taxiway Y												
Misc-PBI-R-058 Misc. PBI Const. Field Svcs. & Insp. - Taxiway Z												
<b>Subtotal - Level 1 Tasks</b>	<b>0</b>	<b>0</b>	<b>1,300</b>	<b>0</b>	<b>0</b>	<b>1,300</b>	<b>\$ 93,600</b>	<b>\$ 14,400</b>	<b>\$ 108,000</b>			
<b>Level 2 Tasks (II-00-DOA-):</b>												
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>			
<b>Level 3 Tasks (III-00-DOA-):</b>												
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>			
<b>Grand Total</b>	<b>0</b>	<b>0</b>	<b>1,300</b>	<b>0</b>	<b>0</b>	<b>1,300</b>	<b>\$ 93,600</b>	<b>\$ 14,400</b>	<b>\$ 108,000</b>			

Source: A.D.A. Engineering, Inc.  
 Prepared by: Ricondo & Associates, Inc.



**Table B-6**

**Labor/Fee Estimate Summary (Brown & Phillips) - Work Program #2**

**Billing Rate:** \$ 85 \$ 80 \$ 132

Task Description	Labor Estimate (Hours)				Fee Estimate (\$)		
	Survey Tech.	Cadd Tech	3-Man Field Crew	Total	Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>							
<b>PBI:</b>							
I-00-PBI-R-008 PBI Const. Field Serv. & Insp. - Bid Takeaway							
I-00-PBI-R-009 West Creek Properties Approval & Acquisition							
I-00-PBI-R-010 PBI Coursework C-524 Improvements							
I-00-PBI-R-011 PBI Const. Bid Services - Man. Position Repair							
I-00-PBI-R-012 PBI Const. Bid Services - Man. Position Repair							
I-00-PBI-R-013 PBI Const. Bid Services - Man. Position Repair							
<b>LNA:</b>							
I-09-LNA-R-012 LNA Stormwater MP - Conceptual Permit	8	8	24	40	\$ 4,488	\$ 500.00	\$ 4,988
I-09-LNA-R-013 LNA Miscellaneous Airfield Pavement Rehabilitation							
Sub-Consultant Management & Coordination							
Site Survey	11	10	48	69	\$ 8,071	\$ 800.00	\$ 8,871
Concept							
20 % Design							
60 % Design							
90 % Design							
100% Design - Bid Documents							
Bid Services & Construction Admin.							
<b>Subtotal:</b>	<b>11</b>	<b>10</b>	<b>48</b>	<b>69</b>	<b>\$ 8,071.00</b>	<b>\$ 800.00</b>	<b>\$ 8,871.00</b>
<b>Misc.:</b>							
I-09-LNA-R-014 Misc. Airfield Repairs, Bid Placement							
<b>Subtotal - Level 1 Tasks</b>	<b>19</b>	<b>18</b>	<b>72</b>	<b>109</b>	<b>\$ 12,559</b>	<b>\$ 1,300</b>	<b>\$ 13,859</b>
<b>Level 2 Tasks (II-00-DOA-):</b>							
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>							
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>19</b>	<b>18</b>	<b>72</b>	<b>109</b>	<b>\$ 12,559</b>	<b>\$ 1,300</b>	<b>\$ 13,859</b>

Source: Brown and Phillips, Inc.  
Prepared by: Ricondo & Associates, Inc.

Table B-7  
 Labor/Fee Estimate Summary (Nodarse) - Work Program #2

Billing Rate:										
	\$ 150	\$ 120	\$ 90	\$ 65	\$ 50	\$ 48				
Task Description	Labor Estimate (Hours)						Fee Estimate (\$)			
	Principal Engineer / Scientist	Sr. Project Engineer / Manager	Project Engineer	Sr. Eng. Tech. / Threshold Insp. Rep.	Engineering Tech. / Cadd Tech.	Admin.	Total	Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>										
<b>PBI:</b>										
I-00-PBI-R-008 PBI Const. Field Svcs. & Insp. - Exit Taxiways D		8		80	12	12	112	\$ 7,340	\$ 1,500	\$ 8,840
I-00-PBI-R-011 PBI Const. Field Services - Misc. Pavement Repairs	70	481	94	220	62	205	1,132	\$ 60,824	\$ 67,552	\$ 128,376
<b>LNA:</b>										
I-09-LNA-R-013 LNA Miscellaneous Airfield Pavement Rehabilitation										
Geotech		2	3		1		6	\$ 560	\$ 4,100	\$ 4,660
Bid Services & Construction Admin.							0	\$ -	\$ 24,000	\$ 24,000
<b>Subtotal:</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>\$ 560</b>	<b>\$ 28,100</b>	<b>\$ 28,660</b>
<b>Misc.:</b>										
<b>Subtotal - Level 1 Tasks</b>	<b>70</b>	<b>481</b>	<b>97</b>	<b>300</b>	<b>75</b>	<b>217</b>	<b>1,250</b>	<b>\$ 68,724</b>	<b>\$ 97,152</b>	<b>\$ 165,876</b>
<b>Level 2 Tasks (II-00-DOA-):</b>										
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>										
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>70</b>	<b>481</b>	<b>97</b>	<b>300</b>	<b>75</b>	<b>217</b>	<b>1,250</b>	<b>\$ 68,724</b>	<b>\$ 97,152</b>	<b>\$ 165,876</b>

Source: Nodarse & Associates, Inc.  
 Prepared by: Ricondo & Associates, Inc.

Table B-7a

Labor/Fee Estimate Summary (Nodarse) - Misc. Pavement Repair Construction Field Services, Inspection & QA Testing

Billing Rate: \$ 150 \$ 120 \$ 90 \$ 65 \$ 50 \$ 48

Task Description	Principal Engineer / Scientist	Sr. Project Engineer / Manager	Labor Estimate (Hours)				Admin.	Total	Fee Estimate (\$)		
			Project Engineer	Sr. Eng. Tech. / Threshold Insp. Rep.	Engineering Tech. / Cadd Tech.	Labor			Expenses	Total	
<b>PBI Task No I-09-PBI-R-011 PBI Miscellaneous Pavement Repair Construction Field Services, Inspection &amp; QA Testing</b>											
1.0 Task Management & Admin.	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	
2.0 Schedule A	9	60	24	0	0	16	109	\$ 11,478	\$ 42,022	\$ 53,500	
2.1 Task Management											
2.2 Construction Field Services & Inspection											
2.3 QA Testing	9	60	24	0	0	16	109	\$ 11,478	\$ 42,022	\$ 53,500	
3.0 Schedule B	25	194	30	120	32	80	481	\$ 46,220	\$ 13,580	\$ 59,800	
3.1 Task Management											
3.2 Construction Field Services & Inspection											
3.3 QA Testing	25	194	30	120	32	80	481	\$ 46,220	\$ 13,580	\$ 59,800	
4.0 Bid Alternate #1 (RON Apron)	3	6	0	0	0	9	18	\$ 1,602	\$ 5,417	\$ 7,019	
4.1 Task Management											
4.2 Construction Field Services & Inspection											
4.3 QA Testing	3	6	0	0	0	9	18	\$ 1,602	\$ 5,417	\$ 7,019	
5.0 Bid Alternate #2 (Concourse B Apron)	1	3	0	0	0	2	6	\$ 606	\$ 3,270	\$ 3,876	
5.1 Task Management											
5.2 Construction Field Services & Inspection											
5.3 QA Testing	1	3	0	0	0	2	6	\$ 606	\$ 3,270	\$ 3,876	
6.0 Bid Alternate #3	1	4	0	0	0	6	11	\$ 918	\$ 3,263	\$ 4,181	
6.1 Task Management											
6.2 Construction Field Services & Inspection											
6.3 QA Testing	1	4	0	0	0	6	11	\$ 918	\$ 3,263	\$ 4,181	
<b>Grand Total</b>	<b>70</b>	<b>481</b>	<b>94</b>	<b>220</b>	<b>62</b>	<b>205</b>	<b>1,132</b>	<b>\$ 60,824</b>	<b>\$ 67,552</b>	<b>\$ 128,376</b>	

Source: Nodarse & Associates, Inc.  
Prepared by: Ricondo & Associates, Inc.

**Table B-8**  
**Labor/Fee Estimate Summary (Hillers Electrical) - Work Program #2**

**Billing Rate:** \$ 105 \$ 95 \$ 90 \$ 70 \$ 40

Task Description	Labor Estimate (Hours)					Total	Fee Estimate (\$)		
	Project Manager	Professional Engineer	Project Engineer	Cadd Tech.	Clerical		Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>									
<b>PBI:</b>									
I-00-PBI-R-010 PBI Concourse C Exit Improvements	9	48	64	24	19	164	\$ 13,705	\$ -	\$ 13,705
<b>LNA:</b>									
Subtotal	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>Misc.:</b>									
I-09-DOA-R-014 Misc. GA Airport Security Improvements	9	66	86	29	26	216	\$ 18,025	\$ -	\$ 18,025
<b>Subtotal - Level 1 Tasks</b>	<b>18</b>	<b>114</b>	<b>150</b>	<b>53</b>	<b>45</b>	<b>380</b>	<b>\$ 31,730</b>	<b>\$ -</b>	<b>\$ 31,730</b>
<b>Level 2 Tasks (II-00-DOA-):</b>									
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>									
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>18</b>	<b>114</b>	<b>150</b>	<b>53</b>	<b>45</b>	<b>380</b>	<b>\$ 31,730</b>	<b>\$ -</b>	<b>\$ 31,730</b>

Source: Hillers Electrical Engineering, Inc.  
 Prepared by: Ricondo & Associates, Inc.

Table B-8a										
Labor/Fee Estimate Summary (Hillers Electrical) - PBI Concourse C Exit Improvements										
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBI Terminal "C" New Coiling Grille, Power, Access Security & Fire Alarm Design & Const.										
HILLERS ELECTRICAL ENGINEERING, INC.										
SCOPE FEE SUMMARY										
FEE PROPOSAL ELECTRICAL DESIGN to RI 10-12-09										
	Rate	\$105.00	\$95.00	\$90.00	\$70.00	\$85.00	\$40.00			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total			TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST
<b>DESIGN</b>										\$0.00
Dsgn Mtgs DOA, County P&Z & Fire Departments, RI	1	8	8			2	19			\$1,665.00
On site verifications\Discovery Phase	1	1	2	2		1	7			\$560.00
Power & Lighting Systems	1	8	10	10		1	30			\$2,505.00
New Security, Access and Fire Alarm Systems	1	8	18	10		1	38			\$3,225.00
Specifications & Cost Estimates & Bid Items	1	8	8			8	25			\$1,905.00
							0			\$0.00
							0			\$0.00
							0			\$0.00
							0			\$0.00
<b>Subtotal</b>	<b>5</b>	<b>33</b>	<b>46</b>	<b>22</b>	<b>0</b>	<b>13</b>	<b>119</b>			<b>\$9,860.00</b>
<b>Construction Services</b>										
Shop Drawings	1	8				1	10			\$905.00
Mtgs & Periodic Site Visits 2 Hrs per week (2 Months)	1	2	14			2	19			\$1,635.00
Testing, Preliminary & Final Inspections	1	4	4			2				\$925.00
Record Drawings	1	1		2		1	5			\$380.00
<b>Subtotal</b>	<b>4</b>	<b>15</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>45</b>			<b>\$3,845.00</b>
<b>Grand Total Hours</b>	<b>9</b>	<b>48</b>	<b>64</b>	<b>24</b>	<b>0</b>	<b>19</b>	<b>164</b>			
<b>Grand Total Labor Cost</b>	<b>\$945.00</b>	<b>\$4,560.00</b>	<b>\$5,760.00</b>	<b>\$1,680.00</b>	<b>\$0.00</b>	<b>\$760.00</b>				<b>\$13,705.00</b>
Source: Hillers Electrical Engineering, Inc.										
Prepared by: Hillers Electrical Engineering, Inc.										

**Table B-8b**

Labor/Fee Estimate Summary (Hillers Electrical) - Miscellaneous GA Airport Security Improvements

**Billing Rate:** \$ 105 \$ 95 \$ 90 \$ 70 \$ 40

Task Description	Project Manager	Labor Estimate (Hours)					Fee Estimate (\$)			
		Professional Engineer	Project Engineer	Cadd Tech.	Clerical	Total	Labor	Expenses	Total	
<b>PBI Task No I-09-DOA-R-015 - Miscellaneous GA Airport Security Upgrades (Phase 1)</b>										
<b>1.0 Task Mgmt. &amp; Meetings</b>	<b>Total</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>11</b>	<b>\$ 990</b>	<b>\$ -</b>	<b>\$ 990</b>
1.1 Sub-consultant Coordinator										
1.2 Kickoff Meeting	1					1	\$ 105	\$ -	\$ 105	
1.3 Coordination Meetings (2 Max.)	1	4	4		1	10	\$ 885	\$ -	\$ 885	
<b>2.0 Prog. Definition/Verification</b>	<b>Total</b>	<b>3</b>	<b>22</b>	<b>22</b>	<b>11</b>	<b>7</b>	<b>65</b>	<b>\$ 5,435</b>	<b>\$ -</b>	<b>\$ 5,435</b>
2.1 Program Cost Analysis			4	4		2	\$ 820	\$ -	\$ 820	
2.2 Utilities Site Assessment	1	2	2	2	2	1	\$ 655	\$ -	\$ 655	
2.3 Site Survey Review	1	16	16	9	4	46	\$ 3,855	\$ -	\$ 3,855	
2.4 Data Deficiencies Review	1					1	\$ 105	\$ -	\$ 105	
2.5 State/Federal Funding Options										
<b>3.0 Schematic Design/Design Dev. (30%)</b>	<b>Total</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>18</b>	<b>18</b>	<b>140</b>	<b>\$ 11,600</b>	<b>\$ -</b>	<b>\$ 11,600</b>
3.1 Design Development Docs	2	16	20	16	16	54	\$ 4,170	\$ -	\$ 4,170	
3.2 Design Development Plans	2	24	40	18	2	86	\$ 7,430	\$ -	\$ 7,430	
<b>Grand Total</b>	<b>9</b>	<b>66</b>	<b>86</b>	<b>29</b>	<b>26</b>	<b>216</b>	<b>\$ 18,025</b>	<b>\$ -</b>	<b>\$ 18,025</b>	

**Table B-9**

Labor/Fee Estimate Summary (O.R. Colan) - Work Program #2

**Billing Rate:** \$ 151 \$ 104 \$ 94

Task Description	Labor Estimate (Hours)			Total	Fee Estimate (\$)		
	Principal	Agent	Agent		Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>							
<b>PBI:</b>							
I-00-PBI-R-009 West Comm. Properties Appraisal & Acquisition	100	600		700	\$ 77,500	\$ 23,085	\$ 100,585
I-00-PBI-R-015 PBI Parcel W326 Property Appraisal & Acquisition	33	200		233	\$ 25,783	\$ 500	\$ 26,283
<b>LNA:</b>							
LNA Stormwater MP - Conceptual - prep				0			
LNA Massachusetts Airport Pavement Rehabilitation				0			
Sub-Consultant Management & Coordination				0			
Site Survey				0			
Concept				0			
Site Design				0			
Site Design				0			
Site Design				0			
Site Design - Bid Doc inserts				0			
Site Services & Construction Admin.				0			
Subtotal	0	0	0	0			
<b>Misc.:</b>							
Misc. - SA Airport Security improvements				0			
<b>Subtotal - Level 1 Tasks</b>	<b>133</b>	<b>800</b>	<b>0</b>	<b>933</b>	<b>\$ 103,283</b>	<b>\$ 23,585</b>	<b>\$ 126,868</b>
<b>Level 2 Tasks (II-00-DOA-):</b>							
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Level 3 Tasks (III-00-DOA-):</b>							
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>133</b>	<b>800</b>	<b>0</b>	<b>933</b>	<b>\$ 103,283</b>	<b>\$ 23,585</b>	<b>\$ 126,868</b>

Source: O.R. Colan Associates, LLC.  
Prepared by: Ricondo & Associates, Inc.

**Table B-10**  
**Labor/Fee Estimate Summary (CECOS Environmental) - Work Program #2**

Task Description	Billing Rate:						Total	Fee Estimate (\$)					
	\$	165	\$	165	\$	110		\$	85	\$	75	\$	60
	Labor Estimate (Hours)												
	Project Manager	Senior Environmental Scientist VI	Senior Environmental Scientist II	Environmental Scientist	Environmental Analyst	Admin.		Labor	Expenses	Total			
<b>Level 1 Tasks (I-00-DOA-):</b>													
<b>PBI:</b>													
I-00-PBI-R-009 West Comm. Properties Appraisal & Acquisition	12		80		118	3	213	\$ 19,810	\$ 890	\$ 20,700			
I-00-PBI-R-015 PBI Parcel W326 Property Appraisal & Acquisition	4		30		40	2	76	\$ 7,080	\$ 300	\$ 7,380			
<b>LNA:</b>													
I-09-LNA-R-012 LNA Stormwater MP - Conceptual Permit	94		140	24	64	8	330	\$ 38,230	\$ 2,099	\$ 40,329			
<b>Misc.:</b>													
<b>Subtotal - Level 1 Tasks</b>	<b>110</b>	<b>0</b>	<b>250</b>	<b>24</b>	<b>222</b>	<b>13</b>	<b>619</b>	<b>\$ 65,120</b>	<b>\$ 3,289</b>	<b>\$ 68,409</b>			
<b>Level 2 Tasks (II-00-DOA-):</b>													
<b>Subtotal - Level 2 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>			
<b>Level 3 Tasks (III-00-DOA-):</b>													
<b>Subtotal - Level 3 Tasks</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>			
<b>Grand Total</b>	<b>110</b>	<b>0</b>	<b>250</b>	<b>24</b>	<b>222</b>	<b>13</b>	<b>619</b>	<b>\$ 65,120</b>	<b>\$ 3,289</b>	<b>\$ 68,409</b>			

Source: CECOS Environmental  
 Prepared by: Ricondo & Associates, Inc.



**Table B-10a**

Labor/Fee Estimate Summary (CECOS Environmental) - LNA Stormwater Master Plan/ERP Application

**Palm Beach County Department of Aviation  
Lantana Airport - Stormwater Master Plan - Environmental Services**

Prepared For: Ricondo & Associates, Inc.

Prepared By: Wendy Cyriacks, CECOS

Date Prepared: July 7, 2009 (Revision 1)

**Hourly Billing Rate**      \$      165      \$      110      \$      85      \$      75      \$      60

Task No.	DESCRIPTION	Project Manager	Senior Env. Scientist II	Env. Scientist	Env Analyst	Admin.	Total	Labor Fee / Task	Direct Exp	Office Exp	Fee (Labor + Exp)
1	Review existing data/ reports	4	8	0	8	0	20	\$2,140	\$0	\$86	\$2,226
2	Conduct site visit for other wetlands	8	8	0	8	0	24	\$2,800	\$270	\$112	\$3,182
3	SFWM Pre-app mtg (1)	6	0	0	2	0	8	\$1,140	\$50	\$46	\$1,236
4	USACE (3)	8	6	0	4	2	20	\$2,400	\$110	\$96	\$2,606
5	Parks meetings (2)	8	0	0	4	2	14	\$1,740	\$70	\$70	\$1,880
6	Permit App Assistance										\$10,681
	<del>Permit App Prep</del>	<del>10</del>	<del>42</del>	<del>16</del>	<del>10</del>	<del>0</del>	<del>78</del>	<del>\$8,380</del>	<del>\$0</del>	<del>\$334</del>	<del>\$8,714</del>
	<del>Sketches &amp; mapping</del>	<del>2</del>	<del>6</del>	<del>0</del>	<del>12</del>	<del>0</del>	<del>20</del>	<del>\$1,800</del>	<del>\$0</del>	<del>\$76</del>	<del>\$1,876</del>
7	UMAM impact (review UMAM sheets prepared by others)	4	8	0	0	0	12	\$1,540	\$0	\$62	\$1,602
8	Coordination w/ DOA (3)	8	8	0	0	0	16	\$2,200	\$0	\$88	\$2,288
9	Conceptual Mitigation Plan	12	32	8	8	0	60	\$6,780	\$0	\$271	\$7,051
10	RAI Response and agency mtg (1)	12	18	0	8	0	38	\$4,560	\$70	\$182	\$4,812
11	Project Coordination/ Management/Adm	12	4	0	0	4	20	\$2,660	\$0	\$106	\$2,766
	Hours	94	140	24	64	8	330				
	<b>Total</b>							<b>\$38,230</b>	<b>\$570</b>	<b>\$1,529</b>	<b>\$40,329</b>

Source: CECOS Environmental  
Prepared by: CECOS Environmental

**Table B-11**  
**Labor/Fee Estimate Summary (Big Sky) - Work Program #2**

Billing Rate:									
	\$ 265	\$ 232	\$ 119	\$ 102	\$ 64				
Task Description	Labor Estimate (Hours)					Total	Fee Estimate (\$)		
	Principal / Sr. Constr. Manager	Program Manager / Sr. Project Manager	Junior Architect - Technician	CADD Designer	Technician I - Contract Administrator		Labor	Expenses	Total
<b>Level 1 Tasks (I-00-DOA-):</b>									
<b>PBI:</b>									
I-00-DOA-R-001 West Canyon Streets - Improvements									
I-00-DOA-R-002 West Canyon Streets - Improvements									
I-00-DOA-R-003 West Canyon Streets - Improvements									
I-00-DOA-R-004 West Canyon Streets - Improvements									
I-00-DOA-R-005 West Canyon Streets - Improvements									
I-00-DOA-R-006 West Canyon Streets - Improvements									
I-00-DOA-R-007 West Canyon Streets - Improvements									
<b>LNA:</b>									
I-00-DOA-R-008 West Canyon Streets - Improvements									
I-00-DOA-R-009 West Canyon Streets - Improvements									
I-00-DOA-R-010 West Canyon Streets - Improvements									
I-00-DOA-R-011 West Canyon Streets - Improvements									
I-00-DOA-R-012 West Canyon Streets - Improvements									
I-00-DOA-R-013 West Canyon Streets - Improvements									
I-00-DOA-R-014 West Canyon Streets - Improvements									
<b>Subtotal</b>	0	0	0	0	0	0	0	0	0
<b>Misc.:</b>									
I-09-DOA-R-014 Misc. GA Airport Security Improvements	24	81	109	24	6	244	\$ 40,955	\$ 8,100	\$ 49,055
<b>Subtotal - Level 1 Tasks</b>	24	81	109	24	6	244	\$ 40,955	\$ 8,100	\$ 49,055
<b>Level 2 Tasks (II-00-DOA-):</b>									
<b>Subtotal - Level 2 Tasks</b>	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>Level 3 Tasks (III-00-DOA-):</b>									
<b>Subtotal - Level 3 Tasks</b>	0	0	0	0	0	0	\$ -	\$ -	\$ -
<b>Grand Total</b>	24	81	109	24	6	244	\$ 40,955	\$ 8,100	\$ 49,055

Source: Big Sky, Inc.  
Prepared by: Ricondo & Associates, Inc.

**Table B-11a**

Labor/Fee Estimate Summary (Big Sky) - Miscellaneous GA Airport Security Improvements

**Billing Rate:** \$ 265 \$ 232 \$ 119 \$ 102 \$ 64

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)			
	Principal / Sr. Constr. Manager	Program Manager / Sr. Project Manager	Junior Architect - Technician	CADD Designer	Technician I - Contract Administrator	Total	Labor	Expenses	Total	
	<b>PBI Task No I-09-DOA-R-015 - Miscellaneous GA Airport Security Upgrades (Phase 1)</b>									
<b>1.0 Task Mgmt &amp; Meetings</b>	<b>Total</b>	<b>8</b>	<b>24</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>\$ 9,592</b>	<b>\$ 4,860</b>	<b>\$ 14,452</b>
1.1 Subconsultant Coordinator										
1.2 Kickoff Meeting		8	8				16	\$ 3,976	\$ 1,620	\$ 5,596
1.3 Coordination Meetings (2 Max.)			16	16			32	\$ 5,616	\$ 3,240	\$ 8,856
<b>2.0 Prog. Definition/Verification</b>	<b>Total</b>	<b>4</b>	<b>21</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>62</b>	<b>\$ 10,335</b>	<b>\$ -</b>	<b>\$ 10,335</b>
2.1 Program Cost Analysis			6	16			22	\$ 3,296	\$ -	\$ 3,296
2.2 Utilize Site Assessment										
2.3 Site Survey Review			6	12			18	\$ 2,820	\$ -	\$ 2,820
2.4 Data Deficiencies Review			5	9			14	\$ 2,231	\$ -	\$ 2,231
2.5 State/Federal Funding Options		4	4				8	\$ 1,988	\$ -	\$ 1,988
<b>3.0 Schematic Design/Design Dev (30%)</b>	<b>Total</b>	<b>12</b>	<b>36</b>	<b>56</b>	<b>24</b>	<b>6</b>	<b>134</b>	<b>\$ 21,028</b>	<b>\$ 3,240</b>	<b>\$ 24,268</b>
3.1 Design Development Documents		12	20	32			64	\$ 11,628	\$ 3,240	\$ 14,868
3.2 Design Development Plans			16	24	24	6	70	\$ 9,400	\$ -	\$ 9,400
<b>Grand Total</b>		<b>24</b>	<b>81</b>	<b>109</b>	<b>24</b>	<b>6</b>	<b>244</b>	<b>\$ 40,955</b>	<b>\$ 8,100</b>	<b>\$ 49,055</b>

Source: Big Sky, Inc.  
Prepared by: Big Sky, Inc.

10-

**BUDGET TRANSFER**  
**BOARD OF COUNTY COMMISSIONERS**  
**PALM BEACH COUNTY, FLORIDA**

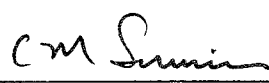
Page 1 of 1 pages

Fund 4111      Airport Improvement & Development Fund

Advantage Document Numbers:  
 BGEX  
 BGRV

Use this form to provide budget for items not anticipated in the budget.

ACCT.NUMBER	ACCOUNT NAME	ADOPTED BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED AS OF 1/21/10	REMAINING BALANCE
<u>Expenditures</u>								
121-A107-6505	P-Design/Engineering Services	500,000	5,449,079	1,705,342	0	7,154,421	4,606,792	2,547,629
121-A900-9909	Reserves Improvement Program	13,251,902	10,666,193		1,705,342	8,960,851	0	8,960,851
<b>Total Appropriations &amp; Expenditures</b>		<u>81,091,993</u>	<u>95,304,140</u>	<u>1,705,342</u>	<u>1,705,342</u>	<u>95,304,140</u>		

	<b>Signatures</b>	<b>Date</b>	<b>By Board of County Commissioners</b>
OFMB		<u>1/27/10</u>	<b>At Meeting of</b>
INITIATING DEPARTMENT/DIVISION	_____	_____	<u>March 9, 2010</u>
Administration/Budget Department Approval	_____	_____	<b>Deputy Clerk to the</b>
OFMB Department - Posted	_____	_____	<b>Board of County Commissioners</b>