

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS**

**AGENDA ITEM SUMMARY**

Meeting Date: July 22, 2014

Consent       Regular  
 Workshop       Public Hearing

Department:

Submitted By: Department of Airports

Submitted For:

**I. EXECUTIVE BRIEF**


**Motion and Title:** Staff recommends motion to approve: Amendment No. 5 to the General Consulting Agreement with CH2M Hill, Inc. for Consulting/Professional Services in the amount of \$1,342,596.14 and to exercise the second one (1) year renewal option for the continued performance of professional planning and design services related to the approved Palm Beach County Airports Capital Improvement Program.

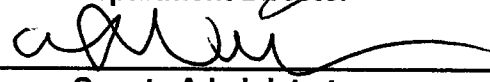
**Summary:** The Consulting Agreement (R-2011-1333) with CH2M Hill, Inc. for general airport planning and design was approved on September 13, 2011 in the amount of \$1,521,708 in order to carry out the approved Capital Improvement Programs for the County's Airports. The agreement is for 2 years with two, one (1) year renewal options. Approval of Amendment No. 5 in the amount of \$1,342,596.14 approves the second one (1) year renewal option for the continuation of services provided under this Agreement, revises the Schedule of Hourly Billing Rates, revises the Schedule of Subsistence and Reimbursable Expenses and will provide funds to complete the following tasks and services: Task I Services –North Palm Beach County General Aviation (F45), Palm Beach County Park (LNA) and Palm Beach County Glades (PHK) Airports Runway Signage and Marking Re-Designation Design and Bidding Services; Palm Beach International Airport (PBIA) Terminal and Concourse Interior Expansion Joint Replacement Design, Bidding and Construction Administration Services; PBIA, F45, and PHK Americans with Disabilities Act (ADA) Facility Compliance Assessment (Phase 2); PBIA Airfield Circuitry Master Plan Drawings Update; LNA Airport Redevelopment – Phase 2 Hangar, Apron, Taxilane and Access Driveway Design and Bidding Services; PBIA Concourse C Passenger Checkpoint Modification Bidding and Construction Administration Services; PBIA Construct Taxiway W Supplemental Design Services; PBIA Taxiway D & E Rehabilitation/Reconstruction Supplemental Design Services; PBIA Air Service Support – Task 7; 2014 Annual Environmental Compliance Monitoring, Inspection and Training Services; Task III Services – Miscellaneous Planning and Engineering Services; Miscellaneous Financial Consulting and Capital Programming Services; and Miscellaneous Environmental Consulting Services. CH2M Hill, Inc. is an Englewood, Colorado based firm, however, the majority of the work to be completed in this Agreement will be completed and/or managed through their Palm Beach Gardens, Florida office in conjunction with several Palm Beach County-based subconsultants and firms. Certain tasks performed during the term of this Amendment may be eligible for State and Federal grant participation. The Disadvantaged Business Enterprise (DBE) goal for the agreement was established at 25.00%. The DBE participation for this Amendment is 29.18%. The total anticipated DBE participation to date is 26.5%. **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, by exercising the second one (1) year renewal option.

**Attachments:**

1. Amendment No. 5 with CH2M Hill, Inc. – 3 Originals

Recommended By:       6/23/14  
Department Director      Date

Approved By:       7/9/14  
County Administrator      Date

**II. FISCAL IMPACT ANALYSIS**

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

| Fiscal Years                                   | 2014              | 2015  | 2016  | 2017  | 2018  |
|--|-------------------|-------|-------|-------|-------|
| Capital Expenditures                           | \$1,342,596       | _____ | _____ | _____ | _____ |
| Operating Costs                                | _____             | _____ | _____ | _____ | _____ |
| External Revenues (Grants)                     | \$(471,956)       | _____ | _____ | _____ | _____ |
| Program Income (County)                        | _____             | _____ | _____ | _____ | _____ |
| In-Kind Match (County)                         | _____             | _____ | _____ | _____ | _____ |
| <b>NET FISCAL IMPACT</b>                       | <b>\$ 870,640</b> | ===== | ===== | ===== | ===== |
| <b># ADDITIONAL FTE POSITIONS (Cumulative)</b> | _____             | _____ | _____ | _____ | _____ |

Is Item Included in Current Budget? Yes X No \_\_\_\_\_

Budget Account No: Fund 4111 Department 121 Unit A107/A301/A312/A283 Object 6505/6504/6504/6504  
Reporting Category \_\_\_\_\_

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

Budget is available for the above project in the referenced accounts. Approval of this item provides budget for the CH2M Hill, Inc. contract, Amendment No. 5, of \$1,342,596. Funding sources consist of FAA grant funds of \$46,533, FDOT grant funds of \$425,423, PFC revenues of \$43,334, and \$827,306 of Airport local funding.

C. Departmental Fiscal Review: CM Simms

**III. REVIEW COMMENTS**

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

Susan Neary 6/25/14  
OFMB  
6/25

Dr. J. Jacobson 6/27/14  
Contract Dev. and Control  
6-27-14

**B. Legal Sufficiency:**

James G. King 7/1/14  
Assistant County Attorney

**C. Other Department Review:**

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

**AMENDMENT NO. 5 TO CONTRACT  
BETWEEN  
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
AND  
CH2M HILL, INC.  
FOR  
GENERAL CONSULTING SERVICES FOR  
ARCHITECTURAL, ENGINEERING, CONSTRUCTION  
MANAGEMENT AND LAND DEVELOPMENT**

**AMENDMENT NO. 5 TO CONTRACT**  
**BETWEEN**  
**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS**  
**AND**  
**CH2M HILL, INC.**  
**FOR**

**GENERAL CONSULTING SERVICES FOR ARCHITECTURAL, ENGINEERING,  
CONSTRUCTION MANAGEMENT, AND LAND DEVELOPMENT**

This Amendment No. 5 to the Contract is made as of the \_\_\_\_\_ day of \_\_\_\_\_, 2014, by and between Palm Beach County, Florida (County) and CH2M HILL, 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 3001 PGA Boulevard, Suite 300, Palm Beach Gardens, Florida 33410 whose Federal Tax I.D. number is 59-0918189.

WITNESSETH

WHEREAS, on September 13, 2011, the County entered in to an Agreement (R2011 1333) with the CONSULTANT for the CONSULTANT to provide General Airport Consulting Services for the Palm Beach County Department of Airports, for a period of twenty-four (24) months with up to two (2) additional twelve (12) month renewals at the County's Option (the Contract); and

WHEREAS, on June 5, 2012 the County approved Amendment No. 1 (R2012 0826) to agreement (R2011 1333) with the CONSULTANT; and

WHEREAS, on May 7, 2013 the County approved Amendment No. 2 (R2013 0532) to agreement (R2011 1333) with the CONSULTANT; and

WHEREAS, on September 10, 2013 the County approved Amendment No. 3 (R2013 1151) to agreement (R2011 1333) with the CONSULTANT; and

WHEREAS, on November 19, 2013 the County approved Amendment No. 4 (R2013 1631) to agreement (R2011 1333) with the CONSULTANT; and

WHEREAS, Article 2 of the Contract defines the performance period of the contract as twenty-four (24) months, with up to two (2) additional twelve (12) month renewal options, the exercise of which are within County's sole control and discretion, and

WHEREAS, it is the County's desire to exercise the second twelve (12) month renewal option for the continuation of services provided by the CONSULTANT under this 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 outlined in Attachment "A". The total amount to be paid by the County to the CONSULTANT for professional services, including any out of pocket expenses shall not exceed \$1,342,596.14 (One Million Three Hundred Forty Two Thousand Five Hundred Ninety Six Dollars and Fourteen Cents) for services included in this Amendment No. 5 to the original Contract.
2. Reference Amendment No. 5 Index as attached hereto for the full and complete list of Task and Attachment documents which reflect and summarize all additions and revisions as incorporated hereto by this Amendment No. 5. All documents as included in the Amendment No. 5 Index are incorporated fully by reference into this Amendment.
3. **ARTICLE 21 - NONDISCRIMINATION** shall be revised as follows:

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

4. **EXHIBIT "B"**

**TABLE I SCHEDULE OF HOURLY LABOR BILLING RATES**

Hourly Billing Rates and Descriptions revised as indicated in EXHIBIT "B" Table I Schedule of Hourly Labor Billing Rates.

**TABLE II SCHEDULE OF SUBSISTENCE AND REIMBURSABLE EXPENSES**

Schedule of Subsistence and Reimbursable Expenses revised as indicated in Exhibit "B" Table II Schedule of Subsistence and Reimbursable Expenses in accordance with Palm Beach County Policies and Procedures Manual – Travel PPM # CW-F-009 dated January 1, 2014.

5. 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 Fifth Amendment to the Contract to be signed by the Chair 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, CH2M HILL, INC. has caused these present to be signed in its corporate name by its duly authorized officer Mark Callahan, 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 COMPROLLER

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

By: \_\_\_\_\_  
Mayor

WITNESS:

CONSULTANT:

[Signature]  
SIGNATURE

CH2M Hill, Inc  
COMPANY NAME

Cheryl Rimas  
Name (type or print)

[Signature]  
Signature

Mark Callahan, P.E.  
Name (type or print)

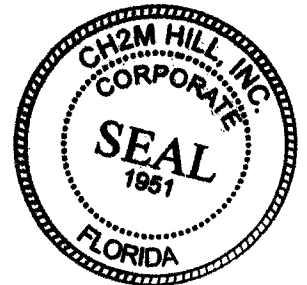
APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

Business Vice President  
Title

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

County Attorney

(Corporate Seal)



APPROVED AS TO TERMS  
AND CONDITIONS

By: [Signature]  
Department Director

# AMENDMENT NO. 5

## INDEX

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### CERTIFICATE OF INSURANCE

### ATTACHMENT "A" AMENDMENT NO. 5

### EXHIBIT "A" SCOPE OF WORK FOR TASK I SPECIFIC PROJECTS

|                |   |
|----------------|---|
| EXHIBIT A-I-23 | TASK I-14-DOA-C-023<br>North Palm Beach County General Aviation, Palm Beach County<br>Park, and Palm Beach County Glades Airports<br>Runway Signage and Marking Re-Designation Design and<br>Bidding Services ..... 1-14                                  |
| EXHIBIT A-I-24 | TASK I-14-PBI-C-024<br>Palm Beach International Airport<br>Terminal and Concourse Interior Expansion Joint Replacement<br>Design, Bidding, and Construction<br>Administration Services ..... 15-18  |
| EXHIBIT A-I-25 | TASK I-14-DOA-C-025<br>Palm Beach County Department of Airports<br>Palm Beach International Airport, North Palm Beach County<br>General Aviation Airport, and Palm Beach County Glades Airport<br>ADA Facility Compliance Assessment (Phase 2)..... 19-24 |
| EXHIBIT A-I-26 | TASK I-14-PBI-C-026<br>Palm Beach International Airport<br>Airfield Circuitry Master Plan Drawings Update ..... 25-26   |
| EXHIBIT A-I-27 | TASK I-14-LNA-C-027<br>Palm Beach County Park Airport<br>Airport Redevelopment - Phase 2<br>Hangar, Apron, Taxilane and Access Driveway Design and<br>Bidding Services ..... 27-56  |
| EXHIBIT A-I-28 | TASK I-14-PBI-C-028<br>Palm Beach International Airport<br>Concourse C Passenger Checkpoint Modification<br>Bidding and Construction Administration Services ..... 57-59  |
| EXHIBIT A-I-29 | TASK I-14-PBI-C-029<br>Palm Beach International Airport<br>Construct Taxiway W<br>Supplemental Design Services..... 60-62   |
| EXHIBIT A-I-30 | TASK I-14-PBI-C-030<br>Palm Beach International Airport<br>Taxiway D & E Rehabilitation / Reconstruction<br>Supplemental Design Services..... 63-65   |

|  |   |       |
|--|---|-------|
| EXHIBIT A-I-31   | TASK I-14-PBI-C-031<br>Palm Beach County Department of Airports<br>Palm Beach International Airport<br>Air Service Support - Task 7.....                      | 66-67 |
| EXHIBIT A-II-3   | TASK II-14-DOA-C-003<br>Palm Beach County Department of Airports<br>2014 Annual Environmental Compliance Monitoring, Inspection<br>and Training Services..... | 68-73 |
| EXHIBIT B - DETAILED FEES, EXPENSES, AND PAYMENTS              |   |       |
|  | EXHIBIT B Schedule of Hourly Billing Rates and Description.....   | 1-5   |
|  | EXHIBIT B Schedule of Subsistence and Reimbursable Expenses.....  | 1-1   |
|  | EXHIBIT B-I Summary of Fees .....   | 1-5   |
|  | EXHIBIT B-II Schedule of Payments.....  | 1-3   |
| EXHIBIT C - PROPOSED SCHEDULES.....                            |   | C-1   |
| EXHIBIT D - Disadvantaged Business Enterprise Compliance ..... |   | D-1   |



# **CERTIFICATE OF INSURANCE**



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
05/13/2014

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

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

|   |  |  |  |                |  |
|---|--|--|--|----------------|--|
| <b>PRODUCER</b><br>MARSH USA INC.<br>1225 17TH STREET, SUITE 1300<br>DENVER, CO 80202-5534  |  | <b>CONTACT NAME:</b><br>PHONE (A/C, No. Ext):<br>E-MAIL ADDRESS: |  | FAX (A/C, No): |  |
| 15114 -12345-5EX5P-14/15  |  | 034188   |  |                |  |
| <b>INSURED</b><br>CH2M HILL, INC.<br>4350 WEST CYPRESS STREET, SUITE 600<br>TAMPA, FL 33607 |  | <b>INSURER(S) AFFORDING COVERAGE</b>                             |  | <b>NAIC #</b>  |  |
|   |  | <b>INSURER A:</b> Greenwich Insurance Company                    |  | 22322          |  |
|   |  | <b>INSURER B:</b> National Union Fire Ins Co Pittsburgh PA       |  | 19445          |  |
|   |  | <b>INSURER C:</b> XL Insurance America, Inc.                     |  | 24554          |  |
|   |  | <b>INSURER D:</b> Zurich American Insurance Co                   |  | 16535          |  |
|   |  | <b>INSURER E:</b>  |  |                |  |
|   |  | <b>INSURER F:</b>  |  |                |  |

**COVERAGES**      **CERTIFICATE NUMBER:** SEA-002405041-28      **REVISION NUMBER:** 6

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

| INSR LTR | TYPE OF INSURANCE  | ADDL INSR | SUBR WVD | POLICY NUMBER                           | POLICY EFF (MM/DD/YYYY)  | POLICY EXP (MM/DD/YYYY)  | LIMITS   |
|----------|--|-----------|----------|---|--------------------------|--------------------------|--|
| A        | <b>GENERAL LIABILITY</b><br><input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY<br>CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR<br><input checked="" type="checkbox"/> \$500,000 SIR<br>GEN'L AGGREGATE LIMIT APPLIES PER:<br><input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC | X         | X        | RGE500025503                            | 05/01/2014               | 05/01/2015               | EACH OCCURRENCE \$ 1,500,000<br>DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,500,000<br>MED EXP (Any one person) \$<br>PERSONAL & ADV INJURY \$ 1,500,000<br>GENERAL AGGREGATE \$ 5,000,000<br>PRODUCTS - COMP/OP AGG \$ 5,000,000 |
| A        | <b>AUTOMOBILE LIABILITY</b><br><input checked="" type="checkbox"/> ANY AUTO<br><input type="checkbox"/> ALL OWNED AUTOS<br><input type="checkbox"/> HIRED AUTOS<br><input type="checkbox"/> SCHEDULED AUTOS<br><input type="checkbox"/> NON-OWNED AUTOS  | X         | X        | RAD500025403 (AOS)<br>RAD500025603 (MA) | 05/01/2014<br>05/01/2014 | 05/01/2015<br>05/01/2015 | COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000<br>BODILY INJURY (Per person) \$<br>BODILY INJURY (Per accident) \$<br>PROPERTY DAMAGE (Per accident) \$  |
| B        | <input checked="" type="checkbox"/> UMBRELLA LIAB<br><input checked="" type="checkbox"/> EXCESS LIAB<br>DED RETENTION \$   | X         |          | BE 31131547                             | 05/01/2014               | 05/01/2015               | EACH OCCURRENCE \$ 5,000,000<br>AGGREGATE \$ 5,000,000   |
| C        | <b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b><br>ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)<br>If yes, describe under DESCRIPTION OF OPERATIONS below  |           | N/A      | RWD500025203 (AOS)<br>RWR500025303 (WI) | 05/01/2014<br>05/01/2014 | 05/01/2015<br>05/01/2015 | <input checked="" type="checkbox"/> WC STATUTORY LIMITS<br><input type="checkbox"/> OTHER<br>E.L. EACH ACCIDENT \$ 1,000,000<br>E.L. DISEASE - EA EMPLOYEE \$ 1,000,000<br>E.L. DISEASE - POLICY LIMIT \$ 1,000,000                  |
| D        | PROFESSIONAL LIABILITY*  |           |          | EOC3829621-12                           | 05/01/2014               | 05/01/2015               | Each Claim & Aggregate \$5,000,000<br>Each Policy Period   |

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES** (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
 PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, ITS OFFICERS, EMPLOYEES AND AGENTS ARE INCLUDED AS AN ADDITIONAL INSURED ON THE GENERAL LIABILITY AND AUTOMOBILE LIABILITY POLICIES AS REQUIRED BY WRITTEN CONTRACT OR AGREEMENT. PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, ITS OFFICERS, EMPLOYEES AND AGENTS ARE INCLUDED AS ADDITIONAL INSURED ON THE UMBRELLA POLICY ABOVE. COVERAGE PROVIDED BY THE ABOVE GENERAL LIABILITY AND AUTO POLICIES SHALL BE PRIMARY AND NON-CONTRIBUTORY AND IS LIMITED TO THE LIABILITY RESULTING FROM THE NAMED INSURED'S OWNERSHIP AND/OR OPERATIONS. GENERAL LIABILITY AND AUTO LIABILITY INCLUDE SEPARATION OF INSUREDS AND NO CROSS SUITS EXCLUSION.

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

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AGENCY CUSTOMER ID: 15114

LOC #: Denver



### ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

|                          |           |  |  |
|--------------------------|-----------|--|--|
| AGENCY<br>MARSH USA INC. |           | NAMED INSURED<br>CH2M HILL, INC.<br>4350 WEST CYPRESS STREET, SUITE 600<br>TAMPA, FL 33607 |  |
| POLICY NUMBER            |           | EFFECTIVE DATE:  |  |
| CARRIER                  | NAIC CODE |  |  |

**ADDITIONAL REMARKS**

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,  
FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

GENERAL LIABILITY AND AUTOMOBILE LIABILITY POLICIES INCLUDE A WAIVER OF SUBROGATION. \*FOR PROFESSIONAL LIABILITY COVERAGE, THE AGGREGATE LIMIT IS THE TOTAL INSURANCE AVAILABLE FOR CLAIMS PRESENTED WITHIN THE POLICY PERIOD FOR ALL OPERATIONS OF THE INSURED. THE LIMIT WILL BE REDUCED BY PAYMENTS OF INDEMNITY AND EXPENSE.

**AMENDMENT NO. 5**  
**TO**  
**CONTRACT FOR CONSULTING/PROFESSIONAL**  
**SERVICES**  
**(CONTRACT R2011 1333)**

# ATTACHMENT "A"

## AMENDMENT NO. 5

This Amendment No. 5 is in accordance with the Contract for Consultant/Professional Services by and between Palm Beach County (COUNTY) and CH2M HILL (CONSULTANT) dated September 13, 2011. The fees to be paid CH2M HILL are as estimated by the CONSULTANT and shown on Exhibit 'B'.

The following Exhibits outline the Scope of Services included within this Amendment for the following Services:

|                |                     |  |
|----------------|---------------------|--|
| EXHIBIT A-I-23 | TASK I-14-DOA-C-023 | North Palm Beach County General Aviation, Palm Beach County Park, and Palm Beach County Glades Airports<br>Runway Signage and Marking Re-Designation Design and Bidding Services                                     |
| EXHIBIT A-I-24 | TASK I-14-PBI-C-024 | Palm Beach International Airport<br>Terminal and Concourse Interior Expansion<br>Joint Replacement Design, Bidding, and Construction Administration Services   |
| EXHIBIT A-I-25 | TASK I-14-DOA-C-025 | Palm Beach County Department of Airports<br>Palm Beach International Airport, North Palm Beach County General Aviation Airport, and Palm Beach County Glades Airport<br>ADA Facility Compliance Assessment (Phase 2) |
| EXHIBIT A-I-26 | TASK I-14-PBI-C-026 | Palm Beach International Airport<br>Airfield Circuitry Master Plan Drawings Update   |
| EXHIBIT A-I-27 | TASK I-14-LNA-C-027 | Palm Beach County Park Airport<br>Airport Redevelopment - Phase 2<br>Hangar, Apron, Taxiway and Access Driveway Design and Bidding Services  |
| EXHIBIT A-I-28 | TASK I-14-PBI-C-028 | Palm Beach International Airport<br>Concourse C Passenger Checkpoint Modification<br>Bidding and Construction Administration Services  |
| EXHIBIT A-I-29 | TASK I-14-PBI-C-029 | Palm Beach International Airport<br>Construct Taxiway W<br>Supplemental Design Services  |

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|                |                      |  |
|----------------|----------------------|--|
| EXHIBIT A-I-30 | TASK I-14-PBI-C-030  | Palm Beach International Airport<br>Taxiway D & E Rehabilitation /<br>Reconstruction<br>Supplemental Design Services             |
| EXHIBIT A-I-31 | TASK I-14-PBI-C-031  | Palm Beach County Department of Airports<br>Palm Beach International Airport<br>Air Service Support - Task 7                     |
| EXHIBIT A-II-3 | TASK II-14-DOA-C-003 | Palm Beach County Department of Airports<br>2014 Annual Environmental Compliance<br>Monitoring, Inspection and Training Services |

# PALM BEACH COUNTY GENERAL CONSULTING SERVICES

## EXHIBIT "A-I-23"

### Task Scope Sheet

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Task I-14-DOA-C-023

North Palm Beach County General Aviation, Palm Beach County Park, and Palm Beach County Glades Airports Runway Signage and Marking Re-Designation Design and Bidding Services

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### Overview

The Palm Beach County Department of Airports (DOA) has requested that CH2M HILL, INC. (CONSULTANT) provide professional engineering services associated with the re-numbering of the three General Aviation (GA) Airport runways: North Palm Beach County General Aviation (F45), Palm Beach County Park (LNA - Lantana), and Palm Beach County Glades (PHK - Pahokee) Airports. Based on information provided by the Federal Aviation Administration (FAA) Airports Division, all runway designations at the three GA Airports will be required to be revised effective June 25, 2015 based on the 2015 projections associated with the change (variance) in magnetic declination. A summary of the proposed changes to the runway designations are as follows:

#### ***North Palm Beach County General Aviation Airport (F45)***

- Runway 8R/26L revised to Runway 9R/27L
- Runway 8L/26R revised to Runway 9L/27R
- Runway 13/31 revised to Runway 14/32

#### ***Palm Beach County Park (Lantana) Airport (LNA)***

- Runway 3/21 revised to Runway 4/22
- Runway 9/27 revised to Runway 10/28
- Runway 15/33 revised to Runway 16/34

#### ***Palm Beach County Glades (Pahokee) Airport (PHK)***

- Runway 17/35 revised to Runway 18/36

The runway holding position signage legends and runway designation markings will be revised to address the re-numbering of the runways. The project will include mill and overlay and re-grooving within the location of the runway designation markings.

As a part of a separate task authorization, CONSULTANT performed the GA Airports Runway Holding Position Compliance Review documented in a Technical Memorandum dated June 24, 2013 (Revised July 19, 2013). In addition to the re-numbering of the runways, associated re-marking of the runway designations and revisions to the signage legends, the DOA has requested that the CONSULTANT incorporate the recommendations of the Technical Memorandum into the contract documents as follows:

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**North Palm Beach County General Aviation Airport (F45)**

- *Runway 8R/26L (revised to Runway 9R/27L)*
  - Relocate Taxiway L Runway Holding Position Signage and Marking
  - Relocate Taxiway M Runway Holding Position Signage and Marking
  - Relocate Taxiway N Runway Holding Position Signage and Marking
  - Relocate Taxiway E Runway Holding Position Signage and Marking
  - Relocate Taxiway F (north) Runway Holding Position Signage and Marking
  - Relocate Taxiway F (south) Runway Holding Position Signage and Marking
- *Runway 8L/26R (revised to Runway 9L/27R)*
  - Relocate Taxiway F (north) Runway Holding Position Signage and Marking
  - Relocate Taxiway F (south) Runway Holding Position Signage and Marking
- *Runway 13/31 (revised to Runway 14/32)*
  - Remove / Revise Taxiway F1 Runway Holding Position Signage and Marking
  - Relocate Taxiway C Runway Holding Position Signage and Marking
  - Relocate Taxiway D Runway Holding Position Signage and Marking
  - Relocate Taxiway J Runway Holding Position Signage and Marking

**Palm Beach County Park (Lantana) Airport (LNA)**

- *Runway 3/21 (revised to Runway 4/22)*
  - Relocate Taxiway B (west) Runway Holding Position Signage and Marking
- *Runway 9/27 (revised to Runway 10/28)*
  - Relocate Taxiway B (south) Runway Holding Position Signage and Marking

In addition, as a part of the GA Airports Runway Holding Position Compliance Review, a review of the taxiway connectors determined that the nomenclature used to identify the taxiways at all three general aviation airports is not consistent with Engineering Brief (EB) 89, prompting at a minimum a compliance review with AC 150/5340-18F. For example, the use of designation of Taxiway O (as it is at North County) is expressly forbidden in AC 150/5340-18F. The DOA recently completed the design and has commenced construction to relocate the runway holding position signage and markings at PHK. In addition, the DOA is revising the nomenclature of the taxiways per current FAA standards and EB 89.

This task authorization will include a compliance review with AC 150/5340-18F at F45 and LNA. The taxiway nomenclature (signage legends) will be revised accordingly in accordance with current FAA standards. Approximately 60 signs at LNA and 80-90 signs at F45 (estimated at approx. 3 signs per taxiway connector including directional signs to/from runways and parallel taxiways and individual taxiway connector location signs) are anticipated to be revised. All of the existing signs at F45 are anticipated to be replaced with LED signs due to limited regulator capacity, age of the existing signs, and the need to include additional signage based on the hold bar relocations (i.e. supplemental signs for canting, etc.).

In addition, this task authorization includes a compliance review of the existing runway markings with respect to the FAA standards, relationship to existing runway end coordinates and lighting.

The total estimated construction cost for the signage and marking improvements at the three GA Airports is estimated at approximately \$800,000.

As part of this project, CONSULTANT will perform the following tasks 1 through 17:

1. One (1) Team Design Chartering / Kick-Off Meeting;



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2. One (1) DOA Design Kick-Off Meeting;
  3. One (1) Field Coordination Meeting;
  4. Three (3) Team Design Review Coordination Meetings;
  5. Three (3) DOA Design Submittal Review Meetings (30%, 75% and 100%);
  6. One (1) Project Site Investigation Visits during the performance of Field Services at each GA Airport;
  7. Disadvantage Business Enterprise (DBE) Reporting;
  8. Data Collection, Records Research, Review and Coordination;
  9. Field Services including Topographical Surveying and Geotechnical Investigations;
  10. 30%, 75%, and 100% Contract Documents including: Technical Specifications, Drawings, Project Schedule, and Engineer's Opinion of Probable Construction Cost Estimate;
  11. Bid Documents including: Project Manual, Technical Specifications, and Drawings;
  12. Assist the DOA in Advertisement and Bidding of the project;
  13. One (1) Pre-Bid Meeting;
  14. Evaluate Bid Tabs and Prepare Recommendation to Award Letter;
  15. Task Management;
  16. Task Coordination (FAA, DOA Operations, other Consultants, and other interested project Stakeholders);
  17. Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control.

CONSULTANT's Project Manager, Project Engineer and SUBCONSULTANT will attend the kick-off and design submittal review meetings. DOA kick-off and submittal review meetings will include preparation of meeting agenda and required material, meeting attendance and travel, and preparation of minutes documenting the items discussed during the meeting and summary of action items. Minutes will not be prepared for CONSULTANT team chartering or team design review coordination meetings.

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

DOA will provide CONSULTANT and its subconsultants access to hard copies of existing as-built information and electronic CAD files, where available. CONSULTANT will develop base plans in AutoCAD rel. 2013 format under data collection and records research task.

This document outlines the proposed approach to accomplish these tasks.

## **Scope of Services**

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

### Project Team

CONSULTANT's subcontractors include Hillers Electrical Engineering, Inc. (Airfield Electrical and Signage), Brown & Phillips, Inc. (Topographical Surveying), and Tierra South Florida, Inc. (Geotechnical Investigations).

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## Basic Services

Basic Services will follow four (4) distinct Phases 1-4. Phase 1 will consist of Preliminary Design (Approx. 15% Design Completion). Phase 2 is Design Development (Approx. 30% Design Completion). Phase 3 will consist of progress submittals of seventy-five percent (75%, Phase 3A), and final design completion (100%, Phase 3B) of the Contract Documents. Phase 4 will consist of Bidding and Award of the Contract Documents.

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

Phase 1 – CONSULTANT will perform site visits at each GA Airport to complete a signage and marking inventory. Exhibits will be prepared for each GA Airport identifying the proposed improvements including conceptual development of significant project elements and the preliminary engineer's opinion of probable construction cost estimate for the project. In addition, data gathering, records research and field services (topographical surveys and geotechnical investigations) will be performed during this phase.

Phase 2 – CONSULTANT will develop the approved preliminary design documents from Phase 1 to further define project elements and solidify major components prior to the start of the Contract Documents. CONSULTANT will update the engineer's opinion of probable construction cost estimate; develop preliminary construction schedules, phasing, sequencing and maintenance of traffic plans.

Phase 3A – CONSULTANT will develop the Contract Documents to a predetermined completion milestone (75% Completion) to allow the project to be reviewed by the appropriate agencies including the DOA and FAA, as required. CONSULTANT will update the engineer's opinion of probable construction cost estimate, schedule, and construction phasing, sequencing and maintenance of traffic plans.

Phase 3B – CONSULTANT will complete the Contract Documents to 100% to allow the project to be bid and constructed. CONSULTANT will prepare the final engineer's opinion of probable construction cost estimate, schedule, construction phasing, sequencing and maintenance of traffic plans.

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

During the Phase 1 Field Services, the DOA will provide CONSULTANT and subcontractors with airfield access and escorting services, as required. The field services are anticipated to occur during normal working hours (local hours of 7:00am - 5:00pm).

The following paragraphs summarize CONSULTANT's Basic Services:

### **1.0 PHASE 1 - PRELIMINARY DESIGN**

CONSULTANT will review preliminary Project concepts with the DOA representative, other DOA divisions, agencies and other approval authorities as appropriate with respect to the Project. Those changes and/or modifications that were jointly agreed upon will be addressed by CONSULTANT and the necessary inclusions made in subsequent phases to the Design Development Documents.

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CONSULTANT will prepare scaled planning stage preliminary signage and marking drawings that depict the proposed improvements to the airfield taxiway nomenclature, signage and marking. The preliminary design concepts will be presented in exhibit form to DOA and other interested Agencies and Authorities.

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

A) Design and Construction Schedule

A Project Schedule will be prepared in Microsoft Project format and will consist of preliminary milestones showing the proposed probable completion date of each Phase and Sub-Phase for the Project through Design Development, 75% and 100% Contract Documents, Bid Documents, Bidding of Work, performance of the Work by the Contractor and final acceptance of the Work by the DOA.

B) Preliminary Design Studies / Taxiway Nomenclature / Runway Marking Compliance Review

These Preliminary Design Studies will be conceptual in nature and scope, will be further defined, and amplifying details will be developed by CONSULTANT during subsequent phases of the Project design. CONSULTANT will prepare an Exhibit for F45 and LNA Airports identifying the existing versus proposed taxiway nomenclature and identify non-compliant runway markings per FAA criteria.

C) Preliminary Construction Phasing, Sequencing, Maintenance of Traffic and Safety Plans  
CONSULTANT will prepare conceptual construction phasing, sequencing, maintenance of traffic, and Airside Operations Area (AOA) Safety and Security Plan(s) in sufficient detail to show how the field work (topographic survey and geotechnical investigations) during the preliminary design phase and the construction phase can be accomplished while meeting DOA airside and landside operational constraints. The Safety and Security Plan(s) will delineate the nature, extent and location(s) of site access, haul routes and depict required barricading, signing, marking and safety lighting required for the Project. The Construction Phasing, Sequencing, Maintenance of Traffic, Safety and Security Plans will be developed in accordance with FAA Advisory Circular AC 150/5370-2F, "Operation Safety On Airports During Construction."

D) Preliminary Outline Specifications

CONSULTANT will prepare Preliminary Outline Specifications, which will describe the technical requirements of known construction work being proposed for the Project, all of which will be considerations in developing the Engineer's Opinion of Probable Construction Cost Estimate.

E) Phase Submittal Requirements

CONSULTANT will submit six (6) copies of the Preliminary Documents required under this Phase for review and approval by the DOA. CONSULTANT will not proceed with "Phase 2 - Design Development" until the Preliminary Design has been reviewed and approved by the DOA Representative, the interested DOA Divisions, the airport Users; and written approval with appropriate comments are received from the DOA and approval has been issued to CONSULTANT by the DOA Representative.

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**F) Small Business (SBE)/ Disadvantage Business Enterprise (DBE) Report**

CONSULTANT will prepare a SBE/DBE report for this project to be submitted at the end of this phase. The report will be in an approved format and will be based on the ROM Construction Cost Estimate prepared during this phase. The report will present the estimated project budget broken down into individual cost line items by North American Industry Classification System (NAICS) titles and codes, with the estimated budget as a percentage and in dollars.

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

### **1.1 Data Collection and Records Research**

CONSULTANT will review existing DOA design, as-built, record drawings and information regarding the proposed construction project components, and gather available information for use during subsequent design phases. CONSULTANT will develop base plans in AutoCAD 2013 format during this task.

### **1.2 Field Services**

During execution of Field Service activities, CONSULTANT will perform a maximum of one (1) site visit at each GA Airport to become familiar with project site, complete the signage and marking inventory, and obtain digital photographs. CONSULTANT will develop an overall field services phasing, sequencing and maintenance of traffic (MOT) plan for each GA Airport to facilitate execution of the signage and marking inventory, topographic survey and geotechnical investigations. The phasing, sequencing and MOT plans will be submitted to DOA in exhibit format for review and coordination. DOA Operations and Maintenance will be responsible for establishing the MOT and filing NOTAMs during the field work.

#### **1.2.1 Geotechnical Investigation**

CONSULTANT's subcontractor Tierra South Florida, Inc. (TSF) will perform geotechnical investigation services for the Project.

TSF will determine the existing pavement sections within the limits of the existing runway designations to be used as the basis of design for the asphalt pavement mill and overlay. CONSULTANT will identify the proposed location of pavement cores during the field services site visit.

Geotechnical Investigation Services will include the following:

- A maximum of ten (10) pavement cores (4 cores at F45, 4 cores at LNA, and 2 cores at PHK);
- Photographs of each core denoting coring number, pavement thickness including surface and base course material in inches.

#### **1.2.2 Topographic Survey**

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CONSULTANT's subcontractor Brown and Phillips, Inc. (B&P) will perform topographic surveying services for the Project.

B&P's scope of work under this task includes:

- Horizontal (x, y) and vertical (z) locations of each Runway End (6 shots at F45, 6 shots at LNA, and 2 shots at PHK).

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor.

### **Meetings**

CONSULTANT will attend the following meetings during Phase 1 – Preliminary Design:

1. One (1) Team Chartering/ Kick-Off Meeting;
2. One (1) Kick-Off Meeting with the DOA;
3. One (1) Field Coordination Meeting;
4. One (1) Project Site Investigation Field Visit at each GA Airport;
5. One (1) Submittal Review Meeting with the DOA.

### **1.4 Deliverables**

The Phase 1 - Preliminary Design Deliverables will include the following items 1-7:

1. DOA Kick-off and Submittal Review Meeting Minutes;
2. Engineer's Opinion of Probable Construction Cost Estimate;
3. Topographic Survey Report;
4. Geotechnical Investigation Report;
5. DBE Report;
6. Taxiway Nomenclature / Runway Marking Compliance Review;
7. Preliminary Signage and Marking Drawing Concepts.

### **1.5 Schedule**

The anticipated duration of this phase is 20 calendar days.

## **2.0 PHASE 2 - DESIGN DEVELOPMENT**

Following Preliminary Design approval and upon receipt of the DOA representative's authorization to initiate Phase 2, CONSULTANT will prepare Design Development Documents from the approved Preliminary Design Documents, which clearly define the elements of the Project.

The Project elements to be provided by CONSULTANT for the Design Development review submittal will include the following items 1-22:

1. 30% Cover;
2. 30% Drawing Index and Summary of Quantities;
3. 30% General, Safety, and Security Notes;
4. 30% Safety Plans (F45, LNA and PHK);

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5. 30% Survey Control Plans (F45, LNA and PHK);
  6. 30% Overall Construction Staging, Storage and Haul Route Plans (F45, LNA and PHK);
  7. 30% Construction Phasing and Sequencing Plans (F45, LNA and PHK);
  8. 30% Maintenance of Traffic Plans (F45, LNA and PHK);
  9. 30% Maintenance of Traffic Notes and Details;
  10. 30% Sheet Layout Plan (F45, LNA and PHK);
  11. 30% Demolition, Paving and Geometry Plans (F45, LNA and PHK);
  12. 30% Typical Sections and Details;
  13. 30% Airfield Marking Plans (F45, LNA and PHK);
  14. 30% Airfield Marking Details;
  15. 30% Airfield Electrical General, Demolition and Installation Notes;
  16. 30% Airfield Electrical Demolition Plans (F45, LNA and PHK);
  17. 30% Airfield Electrical Circuitry and Signage Layout Plans (F45, LNA and PHK);
  18. 30% Airfield Electrical Signage Details;
  19. 30% Airfield Signage Schedules (F45, LNA and PHK);
  20. 30% Project Schedule;
  21. 30% Technical Specifications;
  22. 30% Engineer's Opinion of Probable Construction Cost Estimate.

Design Development Layout and Location Plans will be the same scale as intended for the Construction Documents. Plans will be sufficiently detailed to convey CONSULTANT's design intentions and to confirm the feasibility of space arrangements.

CONSULTANT jointly with the DOA representative, to the extent applicable based on changes and/or modifications affected during the Design Development Phase, will review pertinent documents with the agencies and authorities previously consulted in Phase 1 having permitting or other approval authority with respect to the Project, in order to obtain any changes in the comments and judgment of such agencies. Any changes and/or modifications that were jointly agreed upon will be addressed by CONSULTANT and the necessary inclusions made to the Contract Documents in Phase 3, as applicable.

CONSULTANT will submit six (6) copies of all Documents (11x17 Drawings) required under this Phase 2 for review and approval by the DOA. CONSULTANT will not proceed with the following Phase 3 - Contract Documents until the Design Development has been reviewed and approved by the DOA representative; the interested DOA divisions; the airport users; and written approval with appropriate comments is received from the DOA and approval has been issued to initiate the Contract Documents 75% Submittal Phase 3A.

## **2.1 Meetings**

CONSULTANT will attend the following meetings during Phase 2 – Design Development:

1. One (1) Team Design Review Coordination Meeting;
2. One (1) Submittal Review Meeting with the DOA.

## **2.2 Deliverables**

The Phase 2 - Design Development Deliverables will include the following items 1-6:

1. DOA Submittal Review Meeting Minutes;

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2. 30% Engineer's Opinion of Probable Construction Cost Estimate;
  3. 30% Project Schedule;
  4. 30% Technical Specifications;
  5. 30% Design Development Drawings.

### **2.3 Schedule**

The anticipated duration of this phase is 20 calendar days.

## **3.0 PHASE 3 - CONTRACT DOCUMENTS**

Following Design Development approval and upon receipt from the DOA representative of written authorization to initiate Phase 3A, CONSULTANT will develop 75% Complete Contract Documents from the approved Design Development Documents. The DOA and CONSULTANT will mutually agree upon the content to be provided in these documents.

### **3.1 PHASE 3A - 75% CONTRACT DOCUMENTS**

The 75% Complete Contract Documents will include the following items 1-23:

1. 75% Cover;
2. 75% Drawing Index and Summary of Quantities;
3. 75% General, Safety, and Security Notes;
4. 75% Safety Plans (F45, LNA and PHK);
5. 75% Survey Control Plans (F45, LNA and PHK);
6. 75% Overall Construction Staging, Storage and Haul Route Plans (F45, LNA and PHK);
7. 75% Construction Phasing and Sequencing Plans (F45, LNA and PHK);
8. 75% Maintenance of Traffic Plans (F45, LNA and PHK);
9. 75% Maintenance of Traffic Notes and Details;
10. 75% Sheet Layout Plan (F45, LNA and PHK);
11. 75% Demolition, Paving and Geometry Plans (F45, LNA and PHK);
12. 75% Typical Sections and Details;
13. 75% Airfield Marking Plans (F45, LNA and PHK);
14. 75% Airfield Marking Details;
15. 75% Airfield Electrical General, Demolition and Installation Notes;
16. 75% Airfield Electrical Demolition Plans (F45, LNA and PHK);
17. 75% Airfield Electrical Circuitry and Signage Layout Plans (F45, LNA and PHK);
18. 75% Airfield Electrical Signage Details;
19. 75% Airfield Signage Schedules (F45, LNA and PHK);
20. 75% Project Schedule;
21. 75% Technical Specifications;
22. 75% Engineer's Opinion of Probable Construction Cost Estimate;
23. 75% Front End Construction Contract Documents.

The 75% Submittal will include an updated Construction Schedule and Engineer's Opinion of Probable Construction Cost Estimate, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous schedule and cost estimate.

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CONSULTANT will submit six (6) copies of all Contract Documents (11x17 Drawings) required under this Phase 3A for review and approval by the DOA. CONSULTANT will not proceed with Phase 3B, 100% Contract Documents, until the 75% Complete Contract Documents have been reviewed and approved by the DOA representative, the interested DOA divisions, and approval has been issued to initiate the Contract Documents 100% Submittal Phase 3B.

### **3.1.2 Meetings**

CONSULTANT will attend the following meetings during Phase 3A – 75% Contract Documents:

1. One (1) Team Design Review Coordination Meeting;
2. One (1) Submittal Review Meeting with the DOA.

### **3.1.3 Deliverables**

The Phase 3A - 75% Contract Documents Deliverables will include the following items 1-6:

1. DOA Submittal Review Meeting Minutes;
2. 75% Contract Document Drawings;
3. 75% Project Schedule;
4. 75% Front End Contract Documents;
5. 75% Technical Specifications;
6. 75% Engineer's Opinion of Probable Construction Cost Estimate.

### **3.1.4 Schedule**

The anticipated duration of this phase is 30 calendar days.

## **3.2 PHASE 3B - 100% CONTRACT DOCUMENTS**

Following the 75% Complete Contract Documents approval CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 75% Complete Contract Documents. The 100% submittal will include information contained in the 75% documents, as well as incorporation of comments provided and by DOA or other authorized reviewers, as directed by DOA.

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

The 100% complete Contract Documents Deliverables will include the following items 1-23:

1. 100% Cover;
2. 100% Drawing Index and Summary of Quantities;
3. 100% General, Safety, and Security Notes;
4. 100% Safety Plans (F45, LNA and PHK);
5. 100% Survey Control Plans (F45, LNA and PHK);
6. 100% Overall Construction Staging, Storage and Haul Route Plans (F45, LNA and PHK);
7. 100% Construction Phasing and Sequencing Plans (F45, LNA and PHK);
8. 100% Maintenance of Traffic Plans (F45, LNA and PHK);



9. 100% Maintenance of Traffic Notes and Details;
10. 100% Sheet Layout Plan (F45, LNA and PHK);
11. 100% Demolition, Paving and Geometry Plans (F45, LNA and PHK);
12. 100% Typical Sections and Details;
13. 100% Airfield Marking Plans (F45, LNA and PHK);
14. 100% Airfield Marking Details;
15. 100% Airfield Electrical General, Demolition and Installation Notes;
16. 100% Airfield Electrical Demolition Plans (F45, LNA and PHK);
17. 100% Airfield Electrical Circuitry and Signage Layout Plans (F45, LNA and PHK);
18. 100% Airfield Electrical Signage Details;
19. 100% Airfield Signage Schedules (F45, LNA and PHK);
20. 100% Project Schedule;
21. 100% Technical Specifications;
22. 100% Engineer's Opinion of Probable Construction Cost Estimate;
23. 100% Front End Construction Contract Documents.

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

1. Palm Beach County and Funding Project Numbers, as applicable;
2. Advertisement, Pre-Bid, and Bid Opening Dates;
3. Required Bid Forms;
4. DBE Requirements including Goal Percentages;
5. Percent to be performed by Prime Contractor;
6. Liquidated Damages.

CONSULTANT will work with the DOA to establish the project substantial and final completion Liquidated Damages. CONSULTANT will incorporate all dates into the Advertisement and Instructions to Bidders, DBE requirements, FAA labor provisions (on AIP Projects), etc. filled in and Contract Documents ready to be printed and issued to prospective Bidders.

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

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

CONSULTANT will submit six (6) copies of all Contract Documents (11x17 Drawings) required under this Phase 3B for final review and approval by the DOA. CONSULTANT will not proceed with Phase 4 until the 100% Complete Contract Documents have been reviewed and approved by

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the DOA representative, the interested DOA divisions, and written approval is received from the DOA.

### **3.2.2 Meetings**

CONSULTANT will attend the following meetings during Phase 3B – 100% Contract Documents:

1. One (1) Team Design Review Coordination Meeting;
2. One (1) Client Review Submittal Meeting.

### **3.2.3 Deliverables**

The Phase 3B 100% Contract Documents Deliverables will include the following items 1-6:

1. DOA Submittal Review Meeting Minutes;
2. 100% Contract Document Drawings;
3. 100% Project Schedule;
4. 100% Front End Contract Documents;
5. 100% Technical Specifications;
6. 100% Engineer's Opinion of Probable Construction Cost Estimate.

### **3.2.4 Schedule**

The anticipated duration of this phase is 15 calendar days.

## **4.0 PHASE 4 - BID & AWARD**

After authorization to proceed with the bid and award phase, CONSULTANT will assist the DOA in advertising for and obtaining bids for the Project, materials, equipment and services; and maintain a record of prospective bidders to whom Bidding Documents have been issued, and receive and process deposits (payment) for Bidding Documents; assist the DOA in conducting one (1) pre-bid conference for the Project to share pertinent bidding, technical information, and requirements with prospective bidders; issue addenda (two [2] maximum) as appropriate to interpret, clarify or expand the Bidding Documents; print and distribute a maximum of twenty (20) sets of Bidding Documents to Prospective Bidders and plan offices (Central Florida Builders Exchange, McGraw-Hill Construction, Construction Journal, Reed Construction, and iSqFt / Construction Software Technology, Inc. Plan Rooms) during the bidding phase; and attend one (1) bid opening, prepare one (1) bid tabulation sheet and assist DOA in evaluating bids (evaluate the low bidders' insurance, licensing and qualifications ) and in assembling and awarding contracts for construction, materials, equipment and services. Bid Documents will be distributed from CH2M HILL's Palm Beach Gardens Office.

### **4.1 Meetings**

CONSULTANT will attend the following meetings during Phase 4 – Bid & Award:

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

CONSULTANT will prepare Pre-Bid Agenda and Meeting Minutes.

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## 4.2 Deliverables

The Phase 4 - Bid & Award Deliverables will include the following items 1-6:

1. A maximum of twenty (20) sets of Bidding Documents;
2. One (1) Plan Holders List;
3. Pre-Bid Meeting Agenda, Attendee Roster and Minutes;
4. A maximum of two (2) Addenda;
5. One (1) Bid Tabulation Sheet;
6. Letter of Recommendation to Award.

## 4.3 Schedule

The anticipated duration of this phase is 90 calendar days.

## Project Schedule

CONSULTANT will complete the design and bidding services for the Project within 175 Calendar Days following receipt of the Notice to Proceed (NTP).

## Project Deliverables

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

## Project Assumptions

1. DOA will provide airfield access and escorting services during performance of the field services, as required;
2. DOA will process and file NOTAMs;
3. DOA will provide current Federal Front End Construction Contract Documents. Project information will be added to the standard front ends as summarized in this scope of services. Updates to the front ends will be completed by DOA and as such, are not included in the scope of work.
4. Does not include developing signage and marking master plans for the GA Airports.
5. Does not include evaluating airfield geometry or improvements related to the AC 150/5300-13A, Change 1.
6. Does not include special meetings, presentations, brochures, or mailers associated with notifications required to airport users and/or FAA to address changes to the runway designations.
7. CONSULTANT will perform Bid Documents Processing and Sales from our Palm Beach Gardens Office;
8. DOA will prepare and submit the FAA Airspace Study Checklist and as such, is not included in the scope of work.
9. Construction administration, management, inspection, and quality acceptance materials testing services are not included in this scope of work. A separate task authorization will be prepared and negotiated for construction services, as requested.

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## Special Services

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

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

1. Perform or obtain the services of a subconsultant to perform subsurface investigations, including performance of test borings, soil samples, foundation investigations, laboratory analyses of the samples, and engineering analyses not anticipated as Basic Services. CONSULTANT or the subconsultant will prepare a draft final and final report of all findings and CONSULTANT will deliver to the DOA representative two (2) copies of the draft final and final report.
2. Perform or obtain the services of a registered professional land surveyor subconsultant to perform field surveys and investigations in order to establish or verify boundaries and monuments, perform topographic surveys, perform route surveys, prepare property or easement descriptions, perform associated office work under the direction of a registered professional surveyor, and deliver to the DOA representative a Mylar of all final plats with field notes in bound standard size field books and electronic format of said information, or in such other form as approved by the DOA not anticipated as Basic Services.
3. Make revisions to drawings, specifications, or other documents when such revisions are inconsistent with approvals or instructions previously given by the DOA representative.
4. Perform or obtain the services of a specialized subconsultant to perform aerial photography and computer mapping.
5. Travel to points outside the DOA if such travel is reasonably necessary to accomplish the task.
6. Prepare special studies and reports, such as environmental documents including representation and testimony at hearings and community meetings, grant applications, etc.
7. Provide the services of an independent cost estimator, as a subconsultant, to make a comprehensive cost estimate for the project in a form satisfactory to the DOA, which independent cost estimate will be in addition to the cost estimate prepared by CONSULTANT.
8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner, including the making of record prints of drawings, etc.
9. Assist the DOA representative in securing any special licenses or permits, South Florida Water Management District, DER, etc., which may be required for the completion of the project, it being understood by the parties that the fees for said special licenses and permits will be paid by the DOA.
10. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproduction for the office use of CONSULTANT and CONSULTANT'S subconsultants.
11. Provide a scale model or renderings of the project when requested by the DOA.
12. Provide any other additional services related to the project not otherwise included in the Basic Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

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# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-24"**

### **Task Scope Sheet**

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**Task I-14-PBI-C-024**

**Palm Beach International Airport  
Terminal and Concourse Interior Expansion Joint  
Replacement Design, Bidding and Construction  
Administration Services**

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### **Overview**

Palm Beach County Department of Airports (DOA) has requested that CH2M HILL, Inc. (CONSULTANT) provide professional design services for the proposed replacement of interior expansion joints at Palm Beach International Airport (PBIA) Terminal. The proposed work is in response to the declining condition of several expansion joints found throughout the Terminal.

The purpose of this task authorization is to provide design services, prepare construction documents to be implemented by the DOA's CM at Risk, develop a preliminary engineer's opinion of probable construction cost estimate, assist with bidding and permitting, and conduct general administration activities during the construction phase.

The objective of the renovation is to replace interior expansion joints in order to provide a smooth, stable walking surface for passengers at structurally necessary joints that are failing or showing signs of deterioration.

The CONSULTANT will manage the task and perform the activities associated with the design and production of construction documents, consisting of drawings and associated specifications, cost estimating, bidding and permitting assistance, and construction administration services.

### **Project Background & Description**

Under a continuing service contract, CH2MHILL was requested to evaluate the condition of several expansion joints located throughout the PBIA Main Terminal and Concourse areas. Site visits conducted January 30, and February 19, 2014 resulted in the identification of seven locations at which existing expansion joints are exhibiting signs of wear, generally seen as portions of the assembly buckling upward, sloping perpendicular to the length of the joint, or receding. In order to restore the expansion joints to optimal condition, they will be replaced with new assemblies capable of withstanding significant pedestrian traffic and frequent hard-wheeled cart traffic.

For this project, the CONSULTANT will perform the following tasks, 1 through 7:

1. Task Management
2. Analysis, Research, Data Collection

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Exhibit A – Task I-14-PBI-C-024

A-15

June 18, 2014

Palm Beach International Airport

Interior Expansion Joint Replacement Design, Bidding and Construction Administration Services

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3. Cost Estimating
  4. Drawings & Specifications, with Quality Assurance Review
  5. Bidding Assistance
  6. Permitting Assistance
  7. Construction Administration

## Scope of Services

The scope of work presented herein outlines the CONSULTANT's approach in performing the work of this project.

1. Task Management: The CONSULTANT's Project Manager will oversee the work, manage project staff and resources, develop project instructions, provide schedule and budget control, process invoicing, develop and implement a Health and Safety program for field staff, and provide oversight of the overall project delivery and quality control program for the project.
  - a. Meetings:
    - i. Conduct one Kick-Off Meeting
    - ii. Conduct one Design Review Meeting at 60% Submittal
2. Analysis, Research, Data Collection: Evaluate and document existing conditions, research suitability of available replacement products
3. Cost Estimating:
  - a. Provide a preliminary engineer's opinion of probable construction cost estimate (rough order of magnitude).
  - b. Develop a Class 2 construction cost estimate for 60% review submittal. Class 2 estimates are typically prepared for the purpose of budget control or bid, for projects with a level of definition of less than 70%, for example, the conceptual design and design development being undertaken for this project's 60% submittal. Accuracy ranges for Class 2 estimates are generally -15% to +30% depending on the technological complexity of the project and various market factors.
4. Drawings & Specifications, with Quality Assurance Review: At minimum, partial floor plans, partial building sections, and details, including demolition and phasing plans where required.
  - a. Two submittals will be provided, one at 60% and one at 100% completion.
5. Bidding Assistance
  - a. Bid Documents in electronic format (PDF); Bidding Phase will be administered by the CM at Risk Contractor;
  - b. Respond to Bidder Request for Information (RFIs); Addendum will be prepared by CM at Risk Contractor;
  - c. Review and evaluate contractor proposal including unit pricing and total estimated construction value.
6. Permitting Assistance
  - a. Respond to Agency Requests for Information (RFIs);
  - b. Provide signed and sealed plans for DOA use to submit for permits;
  - c. Application fees associated with permits are not included in this scope of work.
7. Construction Administration, to include:
  - a. One Pre-Construction Conference, attended by Project Architect;

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- b. Perform a maximum of two periodic site inspections throughout construction, estimated at four hours per visit including preparation, travel time, and documentation;
  - c. Process, review and approve/respond to shop drawings and submittals, to determine if the shop drawings and submittals generally conform to the design concept of the project and the requirements of the Contract Documents. For budgeting purposes, CH2M HILL assumes a maximum of eight (8) shop drawings and/or submittals will be reviewed and estimated at an average of 2 hours each for processing, review, and approval. CH2M HILL will process shop drawings and maintain a log of contractor shop drawings and submittals. The submittal log will include the submittal date, the action taken, and the date returned.
  - d. Provide design clarifications (RFIs) and recommendations, to assist the DOA representative in resolving field issues relating to the construction. For budgeting purposes, a maximum of four (4) RFIs are estimated at 2 hours per each for processing, review, and response.
  - e. Perform, together with DOA representative, observations of the construction site to assist in the determination by the DOA if the project is substantially complete and a final inspection to determine if the project has been generally completed in accordance with the Contract Documents. A maximum of one substantial completion site visit and one final completion site visit is assumed for budgeting purposes at four hours per visit including preparation, travel, documentation, and review of punch list generated by the Construction Manager. The CONSULTANT will prepare and submit to DOA a "Certification of Substantial Completion" following the substantial completion site inspection.
  - f. Provide one (1) set of reproducible drawings and CAD file "record drawings," which will become the property of the DOA, corrected to show changes made in the work during construction of the project. Such corrections will be based upon "as-built" prints, drawings, field sketches, and other data furnished to CH2M HILL by the Contractor, upon change orders issued during construction. CH2M HILL will not verify the as-built information provided by the Contractor. Record drawings will be prepared in part on the basis of information compiled and furnished by others, and may not always represent the exact location, type of various components, or exact manner in which the project was finally constructed. CH2M HILL is not responsible for any errors and omissions in the information from others which are incorporated into the record drawings.

## Assumptions

1. DOA will provide an airport escort as needed during the performance of on-site investigations and access to the site will be made available to CONSULTANT during normal business hours.
2. DOA shall have the responsibility for the general administration of the construction contract. Accordingly, the CONSULTANT shall not have the authority or responsibility to issue direct instructions to the contractor, to reject the work done by the contractor, or to require special inspections and/or tests. CH2M HILL and CH2M HILL's personnel

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have no authority to exercise any control over any construction contractor or other entity or their employees in connection with their work or any health or safety precautions and have no duty for inspecting, noting, observing, correcting, or reporting on health or safety deficiencies of the construction contractor(s) or other entity or any other persons at the site except CH2M HILL's own personnel. CH2M HILL, however, will provide continuing counsel to the DOA representative throughout the construction of the project.

3. CONSULTANT shall sign/seal final design documents for permitting.
4. Items specifically excluded from this task authorization include the following:
  - a. Destructive or nondestructive testing or analysis
  - b. Front End Contract Documents for Construction

## **Project Deliverables**

1. Six (6) paper copies ROM Cost Estimate and one (1) electronic copy (PDF and Excel Format)
2. Six (6) paper copies (11"x17") and One (1) paper copy (22"x34") 60% construction drawings with specifications and one (1) electronic copy (PDF and CADD Format)
3. Six (6) paper copies Class 2 Cost Estimate and one (1) electronic copy (PDF and Excel Format)
4. Six (6) paper copies (11"x17") and One (1) paper copy (22"x34") 100% construction drawings with specifications and one (1) electronic copy (PDF and CADD Format)

## **Project Schedule**

CONSULTANT will complete the project within 180 Calendar Days of issuance of Notice to Proceed (NTP). The 60% submittal will be provided within 45 calendar days following issuance of NTP. The final submittal will be due 20 calendar days following receipt of 60% comments.



# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-25"**

### **Task Scope Sheet**

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**Task I-14-DOA-C-025**

**Palm Beach County Department of Airports  
Palm Beach International Airport, North Palm Beach County  
General Aviation Airport, and Palm Beach County Glades  
Airport  
ADA Facility Compliance Assessment (Phase 2)**

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### **Overview**

The Palm Beach County Department of Airports (DOA) (the COUNTY) has requested that CH2M HILL (the CONSULTANT) provide professional services for an accessibility compliance assessment of selected airport facilities based on a pre-scoping meeting held on April 4, 2014 at COUNTY offices.

The assessment will evaluate designated areas pertaining to structural accessibility at Palm Beach International Airport (PBIA) Long-Term Parking Garage and Economy Parking Lot, including Roadway Signage and Transportation Services, as well as North Palm Beach County (F45) General Aviation Airport Terminal and Parking Lot, and Palm Beach County Glades (Pahokee) (PAH) Airport Terminal and Parking Lot. Determination of compliance will be based on the criteria as set forth in the Florida Accessibility Code for Building Construction 2012 and/or Department of Justice 2010 ADA Standards for Accessible Design, and applicable requirements of Title II and/or Title III of the Americans with Disabilities Act, Public Law 101-336, 28 CFR Parts 35 and/or 36 – Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities.

The purpose of this task authorization is to prepare a report documenting the findings of the assessment, identifying components which in the opinion of the CONSULTANT deviate from the ADA standards, including remediation recommendations for non-compliant components along with an opinion of probable costs.

The objective of the assessment and any subsequent remediation is to provide an accessible route for all passengers traversing the facility, including access to services, programs and activities, provided in the most integrated setting possible.

CH2M HILL will manage the task and perform the activities associated with the compliance assessment and COUNTY's Compliance Plan review. CH2M HILL's sub-consultant, Larry M. Schneider, AIA (LMS) will provide general accessibility oversight consulting services.

## Scope of Services

Prior to project start up, the COUNTY will provide the CONSULTANT with all available construction and/or record drawings for each facility being inspected. This will assist the CONSULTANT in proposal preparation and the physical walk-through process.

The assessment will begin with an on-site survey, a physical walk-through of designated areas in each of the facilities for the purpose of evaluating and documenting the existing conditions of components utilized by the public and governed by the applicable ADA standards. The survey will include measuring for compliance or non-compliance with the standards, and photographs of the non-compliant features will be documented and incorporated into the report.

The CONSULTANT will prepare and submit a draft summary report of the survey and evaluation, for each facility, to the COUNTY for review and comment. The reports will include a list of deficiencies and documentary photographs, along with recommendations for remediation as required and an opinion of probable cost in the form of a Class 4 cost estimate.

Based upon acceptance of the draft reports, CH2M HILL will develop a final summary report for each facility which will organize all of the data and analyses performed into a comprehensive document that will depict the future direction of the project development required to support the vision and goals of the COUNTY.

A Class 4 cost estimate will be provided and included in each summary report. Class 4 estimates are typically prepared for determining feasibility and budgeting for projects with a level of definition of less than 15%, for example, the recommendations for remediation that will be outlined in these reports. Accuracy ranges for Class 4 estimates are generally -25% to +50% depending on the technological complexity of the project and various market factors.

## **Task A: General**

The CONSULTANT's Project Manager will oversee the work, manage project staff, develop project instructions, provide schedule and budget control, provide invoicing, develop and implement a Health and Safety program for field staff, and provide oversight of the quality control program for the project.

As part of this task order, CH2MHILL will perform the following Sub-tasks 1, 2, and 3 as a part of the Project Initiation Phase:

1. Collection of data that is readily accessible and development of the needs list for the data that is required; review and analysis will also begin immediately as the existing data is collected and the critical constraints identified, key facility issues addressed, and potential opportunities identified.
2. Conduct one (1) introductory meeting at the COUNTY to present the purpose and methodology of the initial planning effort.
3. Task Management and Subconsultant Coordination.

## **Task B: Palm Beach International Airport**

Task B will address the PBIA Long Term Parking Garage and Economy Parking Lot. Additional PBIA facilities are not included in this scope (see Assumptions).

The CONSULTANT will perform field ADA Surveys of publicly accessible areas, from point of arrival into and through the parking areas, and up to the Terminal entrance:

- PBIA "Long-Term" Parking Garage
- PBIA "Economy" Parking Lot

The features to be reviewed in this survey include:

- Signage, including Roadway Signage from the point of arrival onto PBIA property to the Terminal and Parking facilities
- Parking Areas
- Parking Pay Stations
- Curbside Loading/Unloading Zones
- Circulation Path (Exterior, designated passageway provided for pedestrian travel)
- Public Elevators and Stairways
- Communications and Life-Safety/Emergency Evacuation Notification Systems
- Public and Passenger Transportation Services provided by the DOA
- Public Transportation Stops On-Site.

The CONSULTANT will prepare and submit one draft and one final summary report, including cost estimate, as described above in Scope of Services.

### **Task C: North Palm Beach County General Aviation Airport**

The CONSULTANT will perform field ADA Surveys for the public areas of the facility, from the public point of arrival, into and through the facility, and out to the grade-level of the aircraft boarding apron.

The features to be reviewed in this survey include:

- Signage, Exterior and Interior
- Parking Areas
- Curbside Loading/Unloading Zones
- Public Entrances/Exits and Interior Doors
- Circulation Path (Interior and Exterior)
- Ticketing/Check-in Areas
- Tenant (Leased) Spaces
- Public Restrooms
- Public Drinking Fountains
- Public (Courtesy) Telephones/TTY
- Public Elevators and Stairways
- Vending areas
- Lobby, lounges and waiting areas
- Communications and Life-Safety/Emergency Evacuation Notification Systems
- Service Animal Relief Areas

The CONSULTANT will prepare and submit one draft and one final summary report, including cost estimate, as described above in Scope of Services.

### **Task D: Palm Beach County Glades Airport (Pahokee)**

The CONSULTANT will perform field ADA Surveys for the public areas of the facility, from the public point of arrival into and through the facility, and out to the grade-level of the aircraft boarding apron.

The features to be reviewed in this survey will include, but are not limited to:

- Signage, Exterior and Interior
- Parking Areas
- Curbside Loading/Unloading Zones
- Public Entrances/Exits and Interior Doors
- Circulation Path (Interior and Exterior)
- Ticketing/Check-in Areas
- Public Restrooms
- Public Drinking Fountains
- Public (Courtesy) Telephones/TTY
- Vending areas
- Lobby, lounges and waiting areas
- Communications and Life-Safety/Emergency Evacuation Notification Systems
- Service Animal Relief Areas

The CONSULTANT will prepare and submit one draft and one final summary report, including cost estimate, as described above in Scope of Services.

## Project Deliverables

The deliverables to the COUNTY for each of the surveyed facilities will include the following:

- One paper copy (8 ½' x 11" size) Compliance Assessment Draft Report (summary of deficiencies, documenting photographs, and recommended modifications) and one electronic copy (PDF Format), three total (PBIA Parking, F45, PHK).
- One paper copy (8 ½' x 11" size) Compliance Assessment Final Report (summary of deficiencies, documenting photographs, and recommended modifications) and one electronic copy (PDF Format), three total (PBIA Parking, F45, PHK).

## Assumptions

1. COUNTY will provide an airport escort as needed during the performance of the site field investigations and access to the site(s) will be made available to CONSULTANT during normal business hours.
2. COUNTY will provide a golf cart for CONSULTANT's use while conducting surveys at PBIA parking facilities.
3. This scope includes an ADA Conformance Report based on visual inspection and physical measurements, with recommendation for repairs for non-conforming features. The visual inspection and measurements will be sufficient to document compliance and to develop Class 4 cost estimates for remediation. However, certain instances may arise which may warrant further evaluation from a Structural, Electrical, HVAC Engineer etc. These services will be considered additional services and will be negotiated on a case by case basis.
4. Items specifically excluded from this task authorization include the following:
  - a. Destructive or nondestructive testing or analysis
  - b. Assistance in developing a program implementation plan
  - c. Providing design services for improvements and/or modifications required to comply with ADA
  - d. Providing services during construction for implementing recommended improvements
  - e. ADA Compliance Survey and Report for the US Customs and Border Patrol (USCBP) and Federal Transportation Services Administration (TSA) secure (no passenger access) areas
  - f. Boarding and Deplaning Access and Services, from the aircraft door to the grade-level of the aircraft apron
  - g. ADA Compliance Survey and Report for spaces designated for employees only

(including tenant's employees only areas)

- h. ADA Compliance Survey and Report for Pahokee Airport Maintenance Hangar
- i. ADA Compliance Survey and Report for spaces which are under renovation (at any phase of design through construction) at the time of the assessment or planned for FY 2014
- j. Review of plans for ADA compliance for renovations underway (at any phase of design through construction) at the time of the assessment or planned for FY 2014
- k. Future Phase: Accessibility Compliance Assessment for additional PBIA Parking Facilities, including Roadway Signage from point of arrival onto PBIA property to Terminal and parking facilities, and PBIA Administrative Complex
- l. Future Phase: Accessibility Compliance Assessment for Palm Beach County Park (Lantana) Airport
- m. Accessibility Compliance Assessment for PBIA and General Aviation properties' Commercial and Tenant spaces

## Project Schedule

CH2M HILL will complete this project within 120 calendar days of receipt of Notice to Proceed (NTP) from the COUNTY. The draft report will be submitted within 100 calendar days following issuance of NTP. The final technical memorandum will be submitted 20 calendar days upon receipt of COUNTY comments on draft report.

# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-26"**

### **Task Scope Sheet**

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**Task I-14-PBI-C-026**

**Palm Beach International Airport  
Airfield Circuitry Master Plan Drawings Update**

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### **Overview**

Palm Beach County Department of Airports (DOA) has requested that CH2M HILL (CONSULTANT) and Hillers Electrical Engineering, Inc. (SUBCONSULTANT) provide professional services associated with updating the Palm Beach International Airport (PBI) Airfield Circuitry Master Plan Drawings.

The PBI Airfield Circuitry Master Plan was last updated around 2001 by others. Since that time, several airfield projects and related improvements have been completed including:

- Taxiway A Extension Project (West of Taxiway A1)
- Taxiway L Design and Construction Project (West of Taxiway F)
- Taxiway L Extension Project (East of Taxiway F)
- Taxiway F Extension Project (North of Taxiway C)
- Taxiway T Design and Construction Project
- Apron A Expansion Project
- Taxiway D High-Speed Exit Project
- Taxiway C4 High-Speed Exit Project
- Air Cargo Apron Expansion Project
- FAA Fiber Optic Transmission System (FOTS) Project
- Runway 10L-28R Rehabilitation Project
- Taxiway C5 Fillet Widening Project
- Emergency Crash Phone System Project
- Airfield Lighting Control and Monitoring System Project
- Airfield Signage Replacement Project
- Runway 9R-27L REIL Project
- Runway Re-Designation Airfield Marking and Signage Project
- Building 846 Design and Construction Project
- Relocated ATCT Design and Construction Project
- Net Jets Apron and Taxiway
- Galaxy Hangars F, G, H and Apron and Taxiway Connector Project
- Galaxy Apron Expansion Project
- Galaxy Parcel S5 Hangar, Apron and Taxiway Connector Project

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The purpose of this scope of work is to update the 2001 Airfield Circuitry Master Plan based on the improvements that have been completed as noted above.

## Scope of Services

CONSULTANT and SUBCONSULTANT will perform the following tasks:

1. Task Management (CONSULTANT);
2. Subconsultant Coordination (CONSULTANT);
3. A maximum of 3 review / coordination meetings with DOA and FAA (CONSULTANT AND SUBCONSULTANT);
4. Records Research / Data Collection / Field Verification (CONSULTANT AND SUBCONSULTANT);
5. Airfield Base Map Drawing Updates (CONSULTANT);
6. Airfield Circuitry and Ductbank Master Plan Drawing Updates (SUBCONSULTANT);
7. QA/QC (CONSULTANT).

## Assumptions

1. The updates to the Airfield Circuitry Master Plan Drawings exclude projects not listed in this scope of services that are either currently under design or planned to be designed and/or constructed in 2014 / 2015 or later.
2. The updates to the Airfield Circuitry Master Plan Drawings will be used by DOA Electrical Maintenance Dept. and FAA technicians for trouble shooting purposes and shall serve as a record of the existing systems for future planning and programming purposes.
3. The updates to the ductbank and circuitry drawings shall not be used for construction and must be verified by others prior to use in design and construction projects.
4. The existing Airfield Master Electrical Circuitry Plan electronic documents were created in AutoCAD 2001 format and the current DOA electronic as-built documents cannot be incorporated in the existing base files. This scope of services includes creating new updated drawing base files to simplify future updates in AutoCAD 2013 format.

## Project Deliverables

1. Draft Airfield Circuitry Master Plan Drawings (CAD and PDF);
  - a. 6 hard copies (11"x17" drawings)
2. Final Airfield Circuitry Master Plan Drawings (CAD and PDF).
  - a. 6 hard copies (11"x17" drawings)
  - b. 2 hard copies (22"x34" drawings)

## Project Schedule

CONSULTANT will complete the Airfield Circuitry Master Plan Drawing update services for the Project within 90 Calendar Days following receipt of the Notice to Proceed (NTP).



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# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-27"**

### **Task Scope Sheet**

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**Task I-14-LNA-C-027**

**Palm Beach County Park (Lantana) Airport  
Airport Redevelopment – Phase 2  
Hangar, Apron, Taxilane and Access Driveway Design and  
Bidding Services**

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### **Overview**

The Palm Beach County (PBC) Department of Airports (DOA) has requested that CH2M HILL, INC. (CONSULTANT) provide Professional Engineering Services including design and bidding services for Program Phase 2 of the overall Southside Airport Redevelopment Program at Palm Beach County Park (Lantana) Airport (LNA).

The purpose of the Airport Redevelopment Program is to support existing and future planned development associated with general aviation facilities located on the Southside of the Airport; consisting of existing storage and maintenance hangars, a new Fixed Base Operator (FBO) terminal building, relocated fuel farm, new aircraft storage and maintenance hangars, T-hangars, aprons and taxilanes.

The Airport Redevelopment Program is separated into four (4) major Program Phases and is generally described as follows:

- Program Phase 1 – Design and construction of access road and vehicle parking, drainage, electrical and utility modifications and improvements, security fence and access control gate improvements between hangar rows 100-800, and primary access controls;
- Program Phase 2 – Design and construction of Box and T-Hangars in rows 600-700, totaling approx. 45,000 sqft, including office space in (2) approx. 9,000 sqft box hangars, storage space, and a restroom at the northern end of the T-Hangar row 600, associated aprons and taxilanes, drainage, electrical, and utility modifications and improvements, security fence and access control gate modifications between hangar rows 600-700, and a new access driveway from Lantana Road at the west end of the airport property;
- Program Phase 3 – Design and construction of central access road and vehicle parking, drainage, electrical and utility modifications and improvements, security fence and access control gate modifications and improvements between hangar rows 800-1100;
- Program Phase 4 – Design and construction of access road and vehicle parking, drainage, electrical, and utility modifications, improvements, and extensions, security fence and

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gate modifications and improvements west of hangar row 1100, excluding the new driveway entrance and access control gate at the west end of the airport property.

This scope of services will include design and bidding services for Program Phase 2. Services provided and documents to be prepared as a part of this scope of services will be developed from planning, programming and conceptual design services performed during Program Phase 1, and will only include Program Phase 2; therefore design and bidding services and documents for Program Phases 1, 3 and 4 are excluded from this scope of services.

The design and bidding services tasks associated with Program Phase 2 to be performed as a part of this scope of services are generally described as follows:

- General, pertaining to all work within the project limits for Program Phase 2:
  - Geotechnical Investigation;
  - Topographic Survey;
  - Contract Documents;
  - Permitting;
  - Bidding services;
  - Electrical and utility modifications and improvements;
  - Security fence and access control gate modifications and improvements.
- Part A – Hangar Rows 600-700:
  - Construction documents for new Box/T-Hangars and Restroom structures at Rows 600 and 700;
  - Drainage improvements including an oil-water separator;
  - Associated aprons and taxilanes modifications and improvements.
- Part B – New Access Driveway:
  - Construction documents associated with new access driveway from Lantana Road to the existing apron at the west end of the airport property.

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The proposed facilities and site improvements included in the Program Phase 2 Construction Documents portion of this scope of services is generally described as follows and pertains to the defined project limits as presented in the Facility Program Report and Conceptual Drawings prepared as a part of a separate task authorization (Task I-13-LNA-C-014; Airport Redevelopment – Phase 1):

- General:
  - Permitting (FPL, AT&T, PBC, and City of Lake Worth).
  - Power and communication lines, poles, duct banks and manholes;
  - Drainage system modifications and improvements including a new oil-water separator at Hangar Rows 600 and 700;
  - Landscape and irrigation modifications and improvements;
  - Airport Operations Area (AOA) security fencing modifications, improvements and access control gates.
- Part A - Box & T-Hangars with Restroom:
  - Building plans and specifications for Box/T-Hangars, Office Space (Box Hangars), Storage and Restroom spaces, to include:
    - Demolition Plan,
    - Site Plan,
    - Floor Plans,
    - Building Sections,
    - Building Elevations,
    - Associated Mechanical, Fire Protection, Plumbing and Electrical Drawings,
    - Details and Schedules.
  - Waste water collection system modifications to accommodate new restroom;
  - Potable and fire suppression water distribution line modifications, hydrants and appurtenances;
  - Apron and taxiway signage and markings;
- Part B - New Access Driveway:
  - Plans and specifications, to include:
    - Site Plans,
    - Power (overhead) and communication (AT&T and Comcast) modifications plans and details,
    - Access control and gates plans and details,
    - Paving and Geometry Plans,
    - Grading and Drainage Plans,
    - Access Driveway signage and markings.

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The construction cost for the Airport Redevelopment Program Phase 2 is estimated at \$7 million.

The design will be in accordance with Florida Department of Transportation (FDOT) Roadway Design Standards, Florida Power & Light (FPL), AT&T, PBC DOA, South Florida Water Management District (SFWMD), PBC Traffic Engineering, PBC Planning, Zoning and Building (PZB), and City of Lake Worth Utilities Standards for Construction of Water and Waste Water including PBC Health Department and PBC Fire Department.

CONSULTANT will provide professional services including; preliminary and design development through construction documents; topographic survey, geotechnical and subsurface (utility locates) investigation; permitting activities including: PBC Traffic Engineering, PBC Health Department, City of Lake Worth Utilities, PBC Planning, Zoning and Building (PZB), assistance with FPL power and AT&T communication agreements, and stormwater management; preparation of construction documents; and bid and award services. Construction Administration, Management, Inspection and Quality Acceptance Materials Testing Services are not included in this scope of services and may be proposed at a later date.

As part of this scope of services, CONSULTANT will perform the following tasks 1 through 27:

1. Attend One (1) Team Design Chartering / Kick-Off Meeting;
2. Attend One (1) DOA Design Kick-Off Meeting;
3. Attend Five (5) DOA Design Submittal Review Meetings (Preliminary, 30%, 60%, 90%, and 100%);
4. Attend One (1) FPL Design Coordination Meeting, Pre-Agreement and Agreement Negotiation Review Meetings;
5. Attend One (1) AT&T Design Coordination Meeting, Pre-Agreement and Agreement Negotiation Review Meetings;
6. Attend One (1) PBC Traffic Engineering Design Coordination Meeting, Pre-Application and Application Submittal Review Meetings;
7. Attend One (1) City of Lake Worth Utilities Design Coordination Meeting, Pre-Application and Application Submittal Review Meetings;
8. Attend One (1) PBC Land Development Design Coordination Meeting, Pre-Application and Application Submittal Review Meetings;
9. Attend One (1) PBC Planning, Zoning and Building Design Coordination Meeting, Pre-Application and Application Submittal Review Meetings;
10. Perform Two (2) Project Site Investigation Visits during the performance of Field Services;
11. Disadvantage Business Enterprise (DBE) Reporting;
12. Data Collection, Records Research, Review and Coordination;
13. Perform Field Services including Topographic Land Surveying, Geotechnical Investigations, and Utility Locates;
14. Prepare 30%, 60%, 90%, and 100% Contract Documents including: Project Manual (Front End Documents, Division 0 and 1), Technical Specifications, Drawings, Project Schedule and Engineer's Opinion of Probable Construction Cost Estimate;
15. Prepare and Submit City of Lake Worth Utilities Department Water Distribution and Waste Water Collection System Modification Permit Applications;

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16. Prepare and Submit PBC Health Department Water Distribution and Waste Water Collection System Modification Permit Applications;
  17. Prepare and Submit PBC Traffic Engineering Permit Application;
  18. Prepare and Submit PBC Planning, Zoning and Building Permit Application;
  19. Prepare and Submit PBC Land Development Permit Application;
  20. Assist DOA in development and negotiations of FPL and AT&T Utility Agreements;
  21. Prepare and Assemble Bid Documents including Project Manual, Technical Specifications, and Drawings;
  22. Assist the DOA in Advertisement and Bidding of the project;
  23. Attend One (1) Pre-Bid Meeting and One (1) Bid Opening Meeting;
  24. Evaluate Bid Tabs and Prepare Recommendation to Award Letter;
  25. Task Management;
  26. Task Coordination (DOA Planning and Development, DOA Operations and Maintenance, Galaxy Aviation, SFWMD, PBC Departments, City of Lake Worth, other Consultants, and other interested project Stakeholders);
  27. Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control.

CONSULTANT's Project Manager and Project Architect/Engineer will attend the Kick-Off, coordination and design review submittal meetings. Supporting Sub-consultants will attend the Kick-Off, coordination and design review submittal meetings, as required.

CONSULTANT will coordinate field services with DOA Planning and Development and PBC personnel under Task Coordination. CONSULTANT does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA, as required.

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

The DOA will provide CONSULTANT and its sub-consultants access to hard copies of existing as-built information and electronic CAD files, where available. Drawings will be prepared in AutoCAD Release 2013, 22" x 34" sheet size using CONSULTANT's standard border and specifications in CSI 49 Division format. Front-end Division One requirements are assumed to be provided by the DOA.

This document outlines the proposed approach to accomplish these tasks.

## **Scope of Services**

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

### Project Team

CONSULTANT's subcontractors include Hillers Electrical Engineering, Inc. (Electrical, Power and Communications), Big Sky Incorporated (Access Controls), ADA Engineering, Inc. (Storm

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Water Management and SFWMD Permitting), Brown & Philips, Inc. (Surveying), Tierra South Florida, Inc. (Geotechnical), and F.R. Aleman & Associates, Inc. (Utility Locates).

#### Basic Services

Basic Services associated with the Airport Redevelopment Program Phase 2 will follow four (4) distinct Design Submittal Phases, 1-4. Design Submittal Phase 1 will consist of Preliminary Design (Approx. 15% Design Completion); Design Submittal Phase 2 is Design Development (Approx. 30% Design Completion); Design Submittal Phase 3 will consist of progress submittals of sixty percent (60%, Phase 3A), ninety percent (90%, Phase 3B), and final design completion (100%, Phase 3C) of the Contract Documents; Design Submittal Phase 4 will consist of assisting with the Bidding and Award of the Project. Airport Redevelopment Program Phases 1, 3, and 4 are excluded from the Design Submittal Phases outlined below.

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

Design Submittal Phase 1 – The Facility Program Report and Conceptual Drawings prepared as a part of Program Phase 1 Scope of Services (Task I-13-LNA-C-014) will serve as the Basis of Design (BOD) for the Program Phase 2 design project. CONSULTANT will review Program Phase 1 preliminary design documents and supplement as required to further define Program Phase 2 work and to update and refine a Rough Order of Magnitude Cost Estimate. In addition, data gathering and field services associated with Program Phase 2 (topographic surveys, geotechnical investigation, and utility locates) will be performed during this design submittal phase. During the Design Submittal Phase 1 Field Services, the DOA will provide CONSULTANT and subcontractors with airfield access and escorting services, as required. The DOA will be responsible for communicating and coordinating field service activities with their tenants.

CONSULTANT will prepare a preliminary (15%) site plan and floor plans for Box/T-Hangars and Restroom at Rows 600 and 700 based on the conceptual site and floor plans developed as a part of Facility Program Report and Conceptual Drawings completed under Program Phase 1 (Task I-13-LNA-C-014). CONSULTANT will review existing and future facility demands necessary for evaluating existing, identifying modifications, and sizing the extensions of the waste water collection system (gravity sanitary sewer), water distribution system (potable and fire protection), drainage system, power and communication systems associated with Program Phase 2. Evaluation and review of primary systems are excluded from this scope of services. Should it be determined that the existing primary systems will be required to be upsized and/or modified, a separate Task Authorization will be required.

Design Submittal Phase 2 – CONSULTANT will develop the approved Program Phase 2 preliminary design documents from Design Submittal Phase 1 to define project elements and solidify major project components (30% Completion) prior to the start of the Contract Documents. CONSULTANT will prepare an Engineer's Opinion of Probable Construction Cost Estimate and update the schedule and construction phasing plans. The construction phasing plans will be developed in consideration for maintaining public access and utility service to the existing airport tenant businesses and limit impacts to airport operations to the greatest extent practical.

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Design Submittal Phase 3A – CONSULTANT will develop the Program Phase 2 Contract Documents to a predetermined completion milestone (60% Completion). CONSULTANT will update the Engineer’s Opinion of Probable Construction Cost Estimate, schedule, and construction phasing plans.

Design Submittal Phase 3B – CONSULTANT will develop the Program Phase 2 Contract Documents to a predetermined completion milestone (90% Completion) to be sufficiently complete to allow for the submission of permit applications to be reviewed by the appropriate agencies including the DOA, FPL, AT&T, City of Lake Worth, and PBC Departments listed in this scope of services. CONSULTANT will update the Engineer’s Opinion of Probable Construction Cost Estimate, schedule, and construction phasing plans.

Design Submittal Phase 3C – CONSULTANT will finalize the Program Phase 2 Contract Documents to be sufficiently complete (100%) to allow the project to be bid and constructed. CONSULTANT will prepare the final Engineer’s Opinion of Probable Construction Cost Estimate, schedule, and construction phasing plans.

Design Submittal Phase 4 – CONSULTANT will assist the DOA in obtaining Bids and in the Award of the Program Phase 2 Construction Contract.

The following paragraphs summarize CONSULTANT’s Basic Services:

## **1.0 DESIGN SUBMITTAL PHASE 1 - PRELIMINARY DESIGN**

CONSULTANT will prepare preliminary design drawings that depict the limits of construction for Program Phase 2, and a rough order of magnitude estimate of probable construction costs associated with Program Phase 2. CONSULTANT will review preliminary program concepts developed as a part of the Facility Program Report and Conceptual Drawings prepared as a part of the Program Phase 1 Scope of Services with the DOA Representative, other DOA Divisions, Agencies and other approval authorities as appropriate with respect to the Project. Those changes and/or modifications associated with Program Phase 2 that were jointly agreed upon will be addressed by CONSULTANT and the necessary inclusions made in subsequent design submittal phases of the Program Phase 2 Contract Documents. The purpose of the review and comment solicitation is to endeavor to verify that the Contract Documents and all facilities constructed in accordance therewith will meet applicable requirements for later obtaining the necessary permits and approvals for the project. The Preliminary Design Drawings will be presented in exhibit form to DOA and other interested Agencies and Authorities. The preliminary design drawings associated with Program Phase 2 to be prepared as a part of this scope of services are generally described as follows:

- Project Limits Plan & Phasing Plan
- Demolition Plans (Pavement, Drainage, Utilities, Electrical, Security Fence and Gate(s), Foundations and other existing structures)
- Access Driveway Geometry Plan
- Utility Modification and Extension Plans
- Drainage Plans

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- Security Fence and Access Control Gate Plans
  - Site Electrical and Communication Ductbank Plans
  - Site and Floor Plans for Box/T-Hangars, Office Space (Box Hangars), Storage and Restrooms at Rows 600 and 700

For budgeting purposes, it is assumed that the preliminary demolition plans will depict removal of existing pavements and building foundations, drainage structures and culverts, water and waste water utility structures and lines, security fence and gates, electrical and communication ductbanks. Preliminary geometry plans will depict proposed access driveway, proposed water and waste water utility modifications and extensions, drainage improvements, relocated security fence and proposed access control gate locations, and electrical and communication ductbanks. A total of one (1) drawing at 1:100 scale has been estimated for the project phasing plan. A total of two (2) drawings each at 1:20 scale have been estimate for the demolition and geometry plans associated with the new driveway access and hangar development. A total of two (2) drawings have been estimated for the Box/T-Hangars and Restroom at Rows 600 and 700 site and floor plans. A total of ten (10) drawings have been estimated for the preliminary design drawings including a cover sheet.

As a part of this Design Submittal Phase, CONSULTANT will prepare the following:

A) Project Schedule

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

B) Preliminary Design Drawings

Preliminary Design Drawings, as outlined above, will be preliminary in nature and scope, and will be defined to approximately 15%, with amplifying details developed by CONSULTANT, during subsequent phases of the Project design. This will include confirmation of utility, drainage design and permitting criteria/requirements, preparation of graphics, definition of project boundaries including quantity takeoffs, rough order of magnitude project construction cost budget estimates and coordination with sub-consultants, DOA and other Agencies as necessary.

C) Grading, Paving, Drainage, and Utilities

CONSULTANT will prepare preliminary plans showing pavement and drainage layouts with direction of storm water flows to each ponding area and/or inlet. The BOD will provide paving, grading, drainage, and utility calculations in sufficient detail to verify that the Project can be implemented under the existing and approved facility demands, vehicle loadings and design storm conditions.

The utility modifications and extensions (water, waste water, drainage, electrical, communications and access controls) will be sized to facilitate both existing and future development plans.



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The existing primary water distribution (potable and fire protection) and waste water collection systems (force main) are assumed to be appropriately and adequately sized to accommodate existing and future conditions. No modification to the existing primary waste water collection system force main is anticipated.

D) Construction Phasing and Safety Plans

CONSULTANT will prepare preliminary construction phasing Landside and Airside Operations Area (AOA) Security and Safety Plan(s) in sufficient detail to show how the Program Phase 2 construction can be accomplished while meeting DOA, FBO, and PBC Airside and Landside Operational Constraints. The Security and Safety Plan(s) will delineate the nature, extent and location(s) of site access, security fencing and gates, haul routes and depict required barricading, signing, marking and lighting required for the Project. The Security and Safety Plans will meet FAA Advisory Circular AC 150/5370-2F, "Operation Safety On Airports During Construction" and Florida Highway and FDOT design manuals, current editions.

E) Work Staging

CONSULTANT will develop a preliminary Work Staging Plan, which limits, to the greatest extent practical, adverse impacts to existing Airside and Landside Operations during construction of Program Phase 2. CONSULTANT will advise the DOA Representative, in writing, of any potential adverse impacts and any estimated increase in Project costs and/or any time extension effect that would result from such a Work Staging Plan. The decision as to which Work Staging Plan to issue will be made by the DOA, and CONSULTANT will be informed of such decision in writing by the DOA Representative.

F) Preliminary Outline Specifications

CONSULTANT will prepare preliminary Outline Specifications, which will describe the technical requirements of known construction work being proposed for the Program Phase 2 Project, all of which will be considerations in developing the Engineer's Opinion of Probable Construction Costs during the subsequent Design Development Submittal Phase.

G) Design Phase Submittal Requirements

CONSULTANT will submit six (6) copies of the Basis of Design and Preliminary Design Drawings required under this Design Submittal Phase for review and approval by the DOA. CONSULTANT will not proceed with "Design Submittal Phase 2 - Design Development" until the Preliminary Design Submittal has been reviewed and approved by the DOA Representative, the interested DOA Divisions, the affected tenants and other airport users; and written approval with appropriate comments are received from the DOA and approval has been issued to CONSULTANT by the DOA Representative.

H) Small Business (SBE)/ Disadvantage Business Enterprise (DBE) Report

CONSULTANT will prepare a SBE/DBE report for Program Phase 2 to be submitted at the end of this phase. The report will be in an approved format and will be based on the Rough Order of Magnitude Project Construction Cost Budget Estimate prepared during this design submittal phase. The report will present the estimated project budget broken down into individual cost line items by North American Industry Classification System (NAICS) titles and codes, with the estimated budget as a percentage and in dollars.

NAICS is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S.

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business economy. The standard was developed under the auspices of the Office of Management and Budget (OMB), and adopted in 1997 to replace the Standard Industrial Classification (SIC) system. NAICS was developed jointly by the U.S. Economic Classification Policy Committee (ECPC), Statistics Canada, and Mexico's Instituto Nacional de Estadística y Geografía, to allow for a high level of comparability in business statistics among the North American countries.

### **1.1 Data Collection and Records Research**

CONSULTANT will review existing design, as-built, record drawings and information regarding the proposed construction project components, and gather available information for use during subsequent design submittal phases associated with Program Phase 2.

### **1.2 Field Services**

During execution of Field Service activities, CONSULTANT will perform a maximum of two (2) site visits to become familiar with project site and obtain digital photographs of the existing conditions. DOA will provide CONSULTANT with available as-built records as a part of the preliminary design task. Field Services for this project are limited to the defined construction limits of Program Phase 2.

#### **1.2.1 Geotechnical Investigation**

CONSULTANT's subcontractor Tierra South Florida, Inc. (TSF) will perform geotechnical investigation services for the Project. TSF will determine the subsurface soil conditions to be used as the basis of design for the hangars, apron, taxilanes and access driveway pavements. In addition, TSF will determine the existing asphalt pavement and base course thicknesses of existing airport apron, taxilanes and access roads.

CONSULTANT's subcontractor, Brown & Phillips, Inc., will provide land surveying services to layout the proposed pavement cores and soil borings.

Geotechnical Investigation Services will include the following:

- A maximum of ten (10) Standard Penetration Test (SPT) borings to a depth of ten (10) feet below existing grade (6 Part A and 4 Part B) and a maximum of eight (8) pavement cores at the planned locations of the 10 foot depth SPT borings (Part A), or as otherwise determined by CONSULTANT based on field observations;
- A maximum of four (4) SPT borings to a depth of 30 feet in the location of the proposed hangar footprints for foundation design;
- A maximum of 2 Field CBRs;
- Soil Boring and Coring Location Plan in AutoCAD format;
- Soil Boring Logs in AutoCAD format denoting boring number, Unified Soil Classification (USC), location of groundwater table depth, number of blows, standard penetration resistance in blows per foot, station and offset, date performed, and depth in feet;
- Coring Logs in AutoCAD format denoting coring number, depth of pavement section including surface course and base material in inches, and photographs of each core documented;
- Final Geotechnical Report.

The Geotechnical Report will include a summary of findings, USGS Quadrangle Map, USDA/SCS Soil Survey for Palm Beach County, Laboratory results including Water Content %, 

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Organic Content %, Percent Finer than No. 200 Sieve, Atterberg limits, and will be signed and sealed by a registered Professional Geotechnical Engineer in the State of Florida. The report will include exhibits and figures to illustrate the geotechnical investigation and findings. It is anticipated that as soil information becomes available during the boring operations, boring locations may be adjusted by CONSULTANT based on the actual field conditions.

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194.

### **1.2.2 Topographic Survey**

CONSULTANT's subcontractor Brown and Phillips, Inc. (B&P) will perform topographic surveying services. LNA Airport Redevelopment includes work on the Southside of Lantana Airport and locations on and in the vicinity of the airport in order to establish survey control.

The information to be gathered in the topographic survey will include the following:

- Pavement shots on a minimum 10-foot grid in the location of the existing aprons, taxilanes, and new access driveway in the project area identified;
- Ground shots on a minimum 25-foot grid;
- Additional ground shots within the survey limits of proposed construction area as needed to define unique topographic features such as depressions and ditches;
- Driveway, Apron and Taxilane pavement markings, curb, and medians;
- Drainage structures and culverts including rim, invert, material, and direction of culverts;
- Water and sewer markers, valve boxes, hydrants, cleanouts, lift stations, and appurtenances;
- Electrical Manholes, number, size, and direction of conduit;
- Driveway lighting, signage, and appurtenances;
- AOA security fence, access gates, and appurtenances;
- All above grade buildings and structures within the survey limits of the proposed construction area, including existing foundations;
- Stakeout of fourteen (14) SPT borings and eight (8) pavement cores;
- Establish two (2) permanent benchmarks;
- Horizontal (x, y) and vertical (z) locations of ten (10) Utility Locations;
- 1 contingency day for additional surveying as required.

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor. The basis for control will be the NGS PACs and SACs. The survey will be performed at two tenths of a foot contour interval and the final drawings will be provided to Consultant in AutoCAD format at 1"=20' scale.

### **1.2.3 Utility Locates**

CONSULTANT's subcontractor F. R. Aleman & Associates, Inc. (FRA) will perform subsurface (utility location) investigation services for the Project. The purpose of the utility location investigation is to determine the horizontal and vertical location of subsurface utilities to be used for the adjustment of borings/cores prior to the stakeout and drilling and will be used as the basis

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of design for the relocation of existing utilities impacted by the construction and the design of proposed utility modifications.

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

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

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

CONSULTANT's subcontractor, Brown & Phillips, Inc., will provide land surveying services to obtain the horizontal and vertical locations of the vacuum excavations. A maximum of ten (10) utility locates and fourteen (14) utility sweeps have been budgeted.

CONSULTANT's subcontractor, Brown & Phillips, Inc., will provide land surveying services to obtain the horizontal and vertical locations of the boring and coring locations to be swept for utilities in the vicinity.

### **1.3 Meetings**

CONSULTANT will attend the following meetings during Design Submittal Phase 1:

1. One (1) Kick-Off Meeting with the DOA;
2. One (1) Team Chartering/ Kick-Off Meeting;
3. One (1) FPL Design Coordination Meeting;
4. One (1) AT&T Design Coordination Meeting;
5. One (1) PBC Traffic Engineering Design Coordination Meeting;
6. One (1) City of Lake Worth Utilities Design Coordination Meeting;
7. One (1) PBC Land Development Design Coordination Meeting;
8. One (1) PBC Planning, Zoning and Building Design Coordination Meeting;
9. One (1) Submittal Review Meeting with the DOA.

### **1.4 Deliverables**

The Design Submittal Phase 1 - Preliminary Design Deliverables will include the following items 1-9:

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1. DOA Kick-off and Submittal Review Meeting Minutes;
  2. FPL, AT&T, PBC Traffic Engineering, City of Lake Worth Utilities, PBC Land Development, and PZB Design Coordination Meeting Minutes;
  3. Rough Order of Magnitude Construction Cost Estimate for Program Phase 2;
  4. Topographic Survey Report;
  5. Geotechnical Investigation Report;
  6. Subsurface Investigation (Utility Locate) Report;
  7. SBE/DBE Report;
  8. Technical Specifications Outline;
  9. Preliminary Design Drawings:
    - Project Limits & Phasing Plan
    - Demolition Plans (Pavement, Drainage, Utilities, Electrical, Security Fence and Gate(s), Foundations and other existing structures)
    - Access Driveway Geometry Plan
    - Utility Modification and Extension Plans
    - Drainage Plans
    - Security Fence and Access Control Gate Plans
    - Site Electrical and Communication Ductbank Plans
    - Site and Floor Plans for Box/T-Hangars, Office Space (Box Hangars), Storage and Restrooms at Rows 600 and 700

### **1.5 Schedule**

The anticipated duration of Design Submittal Phase 1 is 60 calendar days.

### **2.0 DESIGN SUBMITTAL PHASE 2 - DESIGN DEVELOPMENT**

Following Preliminary Design Submittal Phase 1 approval and upon receipt of the DOA Representative's written authorization to initiate Design Submittal Phase 2, CONSULTANT will prepare Design Development Documents (30% Completion) from the approved Preliminary Design Drawings, which clearly define the elements of the Program Phase 2 Project.

The Design Development Documents will consist of and further define the following items 1-15:

1. All horizontal and critical elements of vertical geometry;
2. Limits of construction;
3. Clearing and demolition requirements;
4. Refined site and floor plans for Box/T-Hangars, Office Space (Box Hangars), Storage and Restrooms at Rows 600 & 700;
5. Preliminary building elevations and sections;
6. Associated building details as required to convey design intent and facilitate further definition of the project;
7. Drainage system modifications and improvements including oil-water separator;
8. Existing utility relocation/modification;
9. Site ingress and egress features including identification of vehicular traffic direction;
10. Typical grading, paving and drainage sections and details;

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11. Update Project schedule;
  12. Technical Specifications;
  13. Narrative updates addressing the electrical service, potable water and fire protection service, sanitary sewer service, storm drainage and pavement systems;
  14. Update to the Program Phase 2 Engineer's Opinion of Probable Construction Cost Estimate prepared as a part of the Design Submittal Phase 1;
  15. Other major engineering and architectural elements to the degree required to provide a complete understanding of the elements of the Program Phase 2 Project and CONSULTANT's proposed design treatment of these elements.

The documents to be provided by CONSULTANT for the Design Development review submittal will include the following items 1-55:

1. 30% Cover;
2. 30% Drawing Index;
3. 30% Summary of Quantities;
4. 30% General, Safety, and Security Notes;
5. 30% Safety Plan;
6. 30% Survey Control Plan;
7. 30% Boring/Coring Location Plan;
8. 30% Boring/Coring Logs;
9. 30% Overall Staging, Storage and Haul Route Plans;
10. 30% Construction Phasing / MOT Plans and Details;
11. 30% Typical Pavement Sections and Details;
12. 30% AOA Security Fence and Access Control Gate Plans and Details;
13. 30% Sheet Layout Plan;
14. 30% Demolition Plans;
15. 30% Apron and Taxilane Paving and Geometry Plans;
16. 30% Access Driveway Paving and Geometry Plans;
17. 30% Grading and Drainage Plans;
18. 30% Water Main Profile;
19. 30% Wastewater Gravity Profile;
20. 30% Water Main Typical Sections and Details;
21. 30% Waste Water Gravity Typical Sections and Details;
22. 30% Stormwater Pollution Prevention Plans;
23. 30% Stormwater Pollution Prevention Notes and Details;
24. 30% Drainage Profiles;
25. 30% Drainage Details;
26. 30% Apron and Taxilane Marking and Signage Plans;
27. 30% Apron and Taxilane Marking and Signage Details;
28. 30% Access Driveway Marking and Signage Plans;
29. 30% Access Driveway Marking and Signage Details;
30. 30% Landscape and Irrigation Plans;
31. 30% Landscape and Irrigation Details;
32. 30% Architectural General Notes;
33. 30% Life Safety Plan;
34. 30% Floor Plans;

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35. 30% Building Elevations;
  36. 30% Building Sections;
  37. 30% Architectural Details;
  38. 30% Structural General Notes;
  39. 30% Structural Foundation Plans;
  40. 30% Structural Framing Plans;
  41. 30% Structural Details;
  42. 30% Mechanical General Notes;
  43. 30% Mechanical Plans;
  44. 30% Fire Protection General Notes;
  45. 30% Fire Protection Plans;
  46. 30% Plumbing General Notes;
  47. 30% Plumbing Plans/Riser Diagram;
  48. 30% Electrical General Notes;
  49. 30% Electrical Demolition and Installation Notes;
  50. 30% Electrical Demolition Plans;
  51. 30% Electrical Layout Plans;
  52. 30% Electrical Details;
  53. 30% Project Schedule;
  54. 30% Technical Specifications;
  55. 30% Engineer's Opinion of Probable Construction Cost Estimate.

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

CONSULTANT will prepare and submit an updated Construction Phasing Plan, Technical Specifications, Construction Schedule and Engineer's Opinion of Probable Construction Cost Estimate.

CONSULTANT's subcontractor ADA Engineering, Inc. (ADA) will perform Drainage Permitting and Design. For the Drainage scope of work, ADA will develop the stage-area-storage calculations, storm sewer sizing calculations, half-inch dry pretreatment retention volume calculations, impervious/pervious area calculations, and ponding calculations. ADA will use the ICPR models developed as part of the Conceptual Stormwater Management Master Plan, and refined as a part of the Facility Program Report and Conceptual Drawings completed under Program Phase 1 Scope of Services, to evaluate the proposed drainage system requirements and modifications.

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

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necessary inclusions made to the Contract Documents in Design Submittal Phase 3, as applicable.

CONSULTANT will submit six (6) copies of all Documents (11x17 Drawings) required under this Design Submittal Phase 2 associated with Program Phase 2 for review comments and approval by the DOA. CONSULTANT will not proceed with the following Design Submittal Phase 3 - Contract Documents until the Design Development has been reviewed and approved by the DOA Representative; the interested DOA Divisions and other Airport Users; and written approval with appropriate comments is received from the DOA and approval has been issued to initiate the Contract Documents 60% Design Submittal Phase 3A.

## **2.1 Meetings**

CONSULTANT will attend the following meetings during Design Submittal Phase 2:

1. One (1) Team Coordination Meeting,
2. One (1) Client Review Submittal Meeting.

## **2.2 Deliverables**

The Design Submittal Phase 2 - Design Development Deliverables will include the following items 1-5:

1. DOA Submittal Review Meeting Minutes;
2. 30% Engineer's Opinion of Probable Construction Cost Estimate;
3. 30% Project Schedule;
4. 30% Technical Specifications;
5. 30% Design Development Drawings.

## **2.3 Schedule**

The anticipated duration of Design Submittal Phase 2 is 60 calendar days.

## **3.0 DESIGN SUBMITTAL PHASE 3 - CONTRACT DOCUMENTS**

Following Design Development approval and upon receipt from the DOA Representative of written authorization to initiate Design Submittal Phase 3A, CONSULTANT will develop 60% Complete Contract Documents from the approved Design Development Documents associated with Program Phase 2. The DOA and CONSULTANT will mutually agree upon the content to be provided in these documents.

### **3.1 DESIGN SUBMITTAL PHASE 3A - 60% CONTRACT DOCUMENTS**

The 60% Complete Contract Documents deliverables will include the following items 1-59:

1. 60% Cover;
2. 60% Drawing Index;
3. 60% Summary of Quantities;
4. 60% General, Safety, and Security Notes;
5. 60% Safety Plan;



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6. 60% Survey Control Plan;
  7. 60% Boring/Coring Location Plan;
  8. 60% Boring/Coring Logs;
  9. 60% Overall Staging, Storage and Haul Route Plans;
  10. 60% Construction Phasing / MOT Plans and Details;
  11. 60% Typical Pavement Sections and Details;
  12. 60% AOA Security Fence and Access Control Gate Plans and Details;
  13. 60% Sheet Layout Plan;
  14. 60% Demolition Plans;
  15. 60% Apron and Taxilane Paving and Geometry Plans;
  16. 60% Access Driveway Paving and Geometry Plans;
  17. 60% Grading and Drainage Plans;
  18. 60% Water Main Profile;
  19. 60% Wastewater Gravity Profile;
  20. 60% Water Main Typical Sections and Details;
  21. 60% Waste Water Gravity Typical Sections and Details;
  22. 60% Stormwater Pollution Prevention Plans;
  23. 60% Stormwater Pollution Prevention Notes and Details;
  24. 60% Drainage Profiles;
  25. 60% Drainage Details;
  26. 60% Apron and Taxilane Marking and Signage Plans;
  27. 60% Apron and Taxilane Marking and Signage Details;
  28. 60% Access Driveway Marking and Signage Plans;
  29. 60% Access Driveway Marking and Signage Details;
  30. 60% Landscape and Irrigation Plans;
  31. 60% Landscape and Irrigation Details;
  32. 60% Architectural General Notes;
  33. 60% Life Safety Plan;
  34. 60% Floor Plans;
  35. 60% Building Elevations;
  36. 60% Building Sections;
  37. 60% Architectural Details and Schedules;
  38. 60% Structural General Notes;
  39. 60% Structural Foundation Plans;
  40. 60% Structural Framing Plans;
  41. 60% Structural Details;
  42. 60% Mechanical General Notes;
  43. 60% Mechanical Plans;
  44. 60% Mechanical Details and Schedules;
  45. 60% Fire Protection General Notes;
  46. 60% Fire Protection Plans;
  47. 60% Fire Protection Details;
  48. 60% Plumbing General Notes;
  49. 60% Plumbing Plans/Riser Diagram;
  50. 60% Plumbing Details and Schedules;
  51. 60% Electrical General Notes;

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52. 60% Electrical Demolition and Installation Notes;
  53. 60% Electrical Demolition Plans;
  54. 60% Electrical Layout Plans;
  55. 60% Electrical Details and Schedules;
  56. 60% Project Schedule;
  57. 60% Project Manual (Front Ends and FAA General Provisions), Division 0 and Division 1;
  58. 60% Technical Specifications;
  59. 60% Engineer's Opinion of Probable Construction Cost Estimate.

The 60% Submittal will include an updated Construction Phasing Plan, Construction Schedule and an Engineer's Opinion of Probable Construction Cost Estimate, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous Engineer's Opinion of Probable Construction Cost Estimate.

CONSULTANT will submit six (6) copies of all Contract Documents (11x17 Drawings) required under this Design Submittal Phase 3A associated with Program Phase 2 for review comments and approval by the DOA. CONSULTANT will not proceed with Design Submittal Phase 3B, 90% Contract Documents, until the 60% Complete Contract Documents have been reviewed and approved by the DOA Representative, the interested DOA Divisions, and written approval is received from the DOA.

### **3.1.1 Permitting**

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

CONSULTANT's subcontractor ADA will initiate contact with the SFWMD regarding submittal of Construction ERP and dewatering permit applications for the Project during Program Phase 1. Approved permits will remain valid for two years; therefore, no additional meetings or applications are anticipated during Program Phase 2.

#### **3.1.1.2 PBC Traffic Engineering Pre-application Meeting**

CONSULTANT will initiate contact with PBC Traffic Engineering regarding the access driveway improvements. CONSULTANT will attend one (1) meeting to present 60% construction drawings, details and calculations to PBC Traffic Engineering staff. CONSULTANT will prepare an agenda and minutes to document the discussions held during the PBC Traffic Engineering pre-application meeting.

#### **3.1.1.3 City of Lake Worth Utilities Pre-application Meeting**

CONSULTANT will initiate contact with City of Lake Worth Utilities regarding the Water Distribution and Waste Water Collection System Utility modifications and improvements. CONSULTANT will attend one (1) meeting to present 60% construction drawings, details and calculations to City of Lake Worth Utilities staff. CONSULTANT will prepare an agenda and minutes to document the discussions held during the City of Lake Worth Utilities pre-application meeting.

#### **3.1.1.4 PBC Planning, Zoning and Building Department Pre-application Meeting**

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CONSULTANT will initiate contact with PBC PZB Department regarding the hangar and security fence / access control gate improvements. CONSULTANT will attend one (1) meeting to present 60% construction drawings, details and calculations to PBC PZB Department staff. CONSULTANT will prepare an agenda and minutes to document the discussions held during the PBC PZB Department pre-application meeting.

#### **3.1.1.5 PBC Land Development Department Pre-application Meeting**

CONSULTANT will initiate contact with PBC Land Development Department regarding the hangar and security fence / access control gate improvements. CONSULTANT will attend one (1) meeting to present 60% construction drawings, details and calculations to PBC Land Development Department staff. CONSULTANT will prepare an agenda and minutes to document the discussions held during the PBC Land Development Department pre-application meeting.

#### **3.1.1.6 Florida Power & Light and AT&T Pre-agreement Meeting**

CONSULTANT's subconsultant Hillers Electrical Engineering, Inc. will initiate contact with FPL & AT&T regarding the power and communication distribution system and improvements agreements. Hillers will attend one (1) meeting to present 60% construction drawings, details and calculations to FPL and AT&T staff. Hillers will prepare an agenda and minutes to document the discussions held during the FPL and AT&T pre-agreement meeting.

### **3.1.2 Meetings**

CONSULTANT will attend the following meetings during Design Submittal Phase 3A:

1. One (1) Team Coordination Meeting,
2. One (1) PBC Traffic Engineering Pre-Application Meeting,
3. One (1) City of Lake Worth Utilities Pre-Application Meeting,
4. One (1) PBC Land Development Pre-Application Meeting,
5. One (1) PBC PZB Department Pre-Application Meeting,
6. One (1) FPL and AT&T Pre-Agreement Meeting,
7. One (1) Client Review Submittal Meeting.

### **3.1.3 Deliverables**

The Design Submittal Phase 3A - 60% Contract Documents Deliverables will include the following items 1-10:

1. DOA Submittal Review Meeting Minutes;
2. PBC Traffic Engineering Pre-Application Meeting Minutes;
3. City of Lake Worth Utilities Pre-Application Meeting Minutes;
4. PBC Land Development Pre-Application Meeting Minutes;
5. PBC PZB Department Pre-Application Meeting Minutes;
6. FPL and AT&T Pre-Agreement Meeting Minutes;
7. 60% Contract Document Drawings;
8. 60% Project Schedule;
9. 60% Technical Specifications;
10. 60% Engineer's Opinion of Probable Construction Cost Estimate.

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### 3.1.4 Schedule

The anticipated duration of Design Submittal Phase 3A is 60 calendar days.

### 3.2 DESIGN SUBMITTAL PHASE 3B - 90% CONTRACT DOCUMENTS

The 90% complete Contract Documents Deliverables will include the following items 1-61:

1. 90% Cover;
2. 90% Drawing Index;
3. 90% Summary of Quantities;
4. 90% General, Safety, and Security Notes;
5. 90% Safety Plan;
6. 90% Survey Control Plan;
7. 90% Boring/Coring Location Plan;
8. 90% Boring/Coring Logs;
9. 90% Overall Staging, Storage and Haul Route Plans;
10. 90% Construction Phasing / MOT Plans and Details;
11. 90% Typical Pavement Sections and Details;
12. 90% AOA Security Fence and Access Control Gate Plans and Details;
13. 90% Sheet Layout Plan;
14. 90% Demolition Plans;
15. 90% Apron and Taxilane Paving and Geometry Plans;
16. 90% Access Driveway Paving and Geometry Plans;
17. 90% Grading and Drainage Plans;
18. 90% Water Main Profile;
19. 90% Wastewater Gravity Profile;
20. 90% Water Main Typical Sections and Details;
21. 90% Waste Water Gravity Typical Sections and Details;
22. 90% Stormwater Pollution Prevention Plans;
23. 90% Stormwater Pollution Prevention Notes and Details;
24. 90% Drainage Profiles;
25. 90% Drainage Details;
26. 90% Apron and Taxilane Marking and Signage Plans;
27. 90% Apron and Taxilane Marking and Signage Details;
28. 90% Access Driveway Marking and Signage Plans;
29. 90% Access Driveway Marking and Signage Details;
30. 90% Landscape and Irrigation Plans;
31. 90% Landscape and Irrigation Details;
32. 90% Architectural General Notes;
33. 90% Life Safety Plan;
34. 90% Floor Plans;
35. 90% Building Elevations;
36. 90% Building Sections;
37. 90% Architectural Details & Schedules;
38. 90% Cross Section Layout Plan;
39. 90% Cross Sections;

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40. 90% Structural General Notes;
  41. 90% Structural Foundation Plans;
  42. 90% Structural Framing Plans;
  43. 90% Structural Details;
  44. 90% Mechanical General Notes;
  45. 90% Mechanical Plans;
  46. 90% Mechanical Details and Schedules;
  47. 90% Fire Protection General Notes;
  48. 90% Fire Protection Plans;
  49. 90% Fire Protection Details;
  50. 90% Plumbing General Notes;
  51. 90% Plumbing Plans/Riser Diagram;
  52. 90% Plumbing Details and Schedules;
  53. 90% Electrical General Notes;
  54. 90% Electrical Demolition and Installation Notes;
  55. 90% Electrical Demolition Plans;
  56. 90% Electrical Layout Plans;
  57. 90% Electrical Details and Schedules;
  58. 90% Project Schedule;
  59. 90% Project Manual (Front Ends and FAA General Provisions), Division 0 and Division 1;
  60. 90% Technical Specifications;
  61. 90% Engineer's Opinion of Probable Construction Cost Estimate.

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

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

1. Palm Beach County and Funding Project Numbers, as applicable;
2. Advertisement, Pre-Bid, and Bid Opening Dates;
3. Required Bid Forms;
4. DBE Requirements including Goal Percentages;
5. Percent to be performed by Prime Contractor;
6. Liquidated Damages.

CONSULTANT will work with the DOA to establish Project Completion Liquidated Damages (LDs).

CONSULTANT will submit six (6) copies of all Contract Documents (11x17 Drawings) required under this Design Submittal Phase 3B associated with Program Phase 2 for review comments and approval by the DOA. CONSULTANT will not proceed with Design Submittal Phase 3C until the 90% Complete Contract Documents have been reviewed and approved by the

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DOA Representative, the interested DOA Divisions, and written approval is received from the DOA.

### **3.2.1 Permitting**

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

CONSULTANT's subcontractor, ADA will prepare and submit a SFWMD Construction ERP Application for the Stormwater Management System for the Program Phase 2 Project in accordance with the 2012/2013 Conceptual Stormwater Management Master Plan and SFWMD Conceptual ERP during Program Phase 1. Approved permits will remain valid for two years; therefore, no additional meetings or applications are anticipated during Program Phase 2. Existing surface waters and/or wetlands are not anticipated to be impacted by the project and therefore not included in this scope of services.

#### **3.2.1.2 PBC Traffic Engineering Permit Applications**

CONSULTANT will prepare and submit the PBC Traffic Engineering General Use and Utility permits applications and related documentation regarding the access driveway improvements included in Program Phase 2. Application fees associated with the PBC Traffic Engineering Permit will be provided and paid for by the DOA and are not included in this scope of work.

#### **3.2.1.3 City of Lake Worth Utilities Permit Applications**

CONSULTANT will prepare and submit the City of Lake Worth Utilities Water Distribution and Waste Water Collection System permit applications regarding the Water and Waste Water System Utility modifications and improvements. Application fees associated with the City of Lake Worth Utilities Permits will be provided and paid for by the DOA and are not included in this scope of work.

#### **3.2.1.4 PBC Planning, Zoning and Building Department Permit Applications**

CONSULTANT will prepare and submit the PBC PZB Department Permit Applications regarding the hangar and security fence / access control gate improvements. Application fees associated with the PZB Permits will be provided and paid for by the DOA and are not included in this scope of work.

#### **3.1.1.5 PBC Land Development Department Pre-application Meeting**

CONSULTANT will prepare and submit the PBC Land Development Department Permit Applications regarding the hangar, access driveway and security fence / access control gate improvements. Application fees associated with the PBC Land Development Permits will be provided and paid for by the DOA and are not included in this scope of work.

#### **3.2.1.6 Florida Power & Light and AT&T Agreements**

CONSULTANT's subconsultant Hillers Electrical Engineering, Inc. will assist the DOA with preparation and negotiation of the FPL and AT&T utility easement agreements regarding the power and communication distribution system and improvements. Legal fees associated with

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establishing, negotiating and recording FPL and AT&T agreements, if required, will be provided and paid for by the DOA and are not included in this scope of work.

### **3.2.2 Meetings**

CONSULTANT will attend the following meetings during Design Submittal Phase 3B:

1. One (1) Team Coordination Meeting,
2. One (1) PBC Traffic Engineering Permit Application Submittal Review Meeting,
3. One (1) City of Lake Worth Utilities Permit Application Submittal Review Meeting,
4. One (1) PBC PZB Department Permit Application Submittal Review Meeting,
5. One (1) FPL and AT&T Agreement Submittal Review Meeting,
6. One (1) Client Review Submittal Meeting.

### **3.2.3 Deliverables**

The Design Submittal Phase 3B - 90% Contract Documents Deliverables will include the following items 1-10:

1. DOA Review Meeting Minutes;
2. PBC Traffic Engineering General Use and Utility Permit Applications;
3. City of Lake Worth Utilities Water Distribution and Waste Water Collection System Permit Applications;
4. PBC PZB Department Permit Applications;
5. FPL and AT&T Agreement Support Documents;
6. 90% Contract Document Drawings;
7. 90% Project Schedule;
8. 90% Project Manual (Front Ends and FAA General Provisions)
9. 90% Technical Specifications;
10. 90% Engineer's Opinion of Probable Construction Cost Estimate.

### **3.2.4 Schedule**

The anticipated duration of Design Submittal Phase 3B is 60 calendar days.

## **3.3 PHASE 3C - 100% CONTRACT DOCUMENTS**

Following the 90% Complete Contract Documents approval CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents associated with Program Phase 2. The 100% submittal will include information contained in the 90% documents, as well as incorporation of comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

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

The Final 100% complete Contract Documents Deliverables will include the following items 1-61:

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1. Final Cover;
  2. Final Drawing Index;
  3. Final Summary of Quantities;
  4. Final General, Safety, and Security Notes;
  5. Final Safety Plan;
  6. Final Survey Control Plan;
  7. Final Boring/Coring Location Plan;
  8. Final Boring/Coring Logs;
  9. Final Overall Staging, Storage and Haul Route Plans;
  10. Final Construction Phasing / MOT Plans and Details;
  11. Final Typical Pavement Sections and Details;
  12. Final AOA Security Fence and Access Control Gate Plans and Details;
  13. Final Sheet Layout Plan;
  14. Final Demolition Plans;
  15. Final Apron and Taxilane Paving and Geometry Plans;
  16. Final Access Driveway Paving and Geometry Plans;
  17. Final Grading and Drainage Plans;
  18. Final Water Main Profile;
  19. Final Wastewater Gravity Profile;
  20. Final Water Main Typical Sections and Details;
  21. Final Waste Water Gravity Typical Sections and Details;
  22. Final Stormwater Pollution Prevention Plans;
  23. Final Stormwater Pollution Prevention Notes and Details;
  24. Final Drainage Profiles;
  25. Final Drainage Details;
  26. Final Apron and Taxilane Marking and Signage Plans;
  27. Final Apron and Taxilane Marking and Signage Details;
  28. Final Access Driveway Marking and Signage Plans;
  29. Final Access Driveway Marking and Signage Details;
  30. Final Landscape and Irrigation Plans;
  31. Final Landscape and Irrigation Details;
  32. Final Architectural General Notes;
  33. Final Life Safety Plan;
  34. Final Floor Plans;
  35. Final Building Elevations;
  36. Final Building Sections;
  37. Final Architectural Details;
  38. Final Structural General Notes;
  39. Final Structural Foundation Plans;
  40. Final Structural Framing Plans;
  41. Final Structural Details;
  42. Final Mechanical General Notes;
  43. Final Mechanical Plans;
  44. Final Mechanical Details and Schedules;
  45. Final Fire Protection General Notes;



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46. Final Fire Protection Plans;
  47. Final Fire Protection Details;
  48. Final Plumbing General Notes;
  49. Final Plumbing Plans/Riser Diagram;
  50. Final Plumbing Details and Schedules;
  51. Final Cross Section Layout Plan;
  52. Final Cross Sections;
  53. Final Electrical General Notes;
  54. Final Electrical Demolition and Installation Notes;
  55. Final Electrical Demolition Plans;
  56. Final Electrical Layout Plans;
  57. Final Electrical Details and Schedules;
  58. Final Project Schedule;
  59. Final Project Manual (Front Ends and FAA General Provisions), Division 0 and Division 1;
  60. Final Technical Specifications;
  61. Final Engineer's Opinion of Probable Construction Cost Estimate.

CONSULTANT will work with the DOA to finalize the project completion Liquidated Damages.

CONSULTANT will provide signed and sealed plans for the DOA to use to submit for FPL, AT&T, City of Lake Worth Utilities, and PBC PZB, Traffic Engineering, Land Development, and Health Department permits and agreements at the earliest practicable time during the performance of the Design Services, provide the necessary portions of the Contract Documents for approval by DOA, PBC, City of Lake Worth, State and/or Federal Authorities having jurisdiction over the project by law or contract with the DOA, and assist in obtaining any such applicable certifications of "permit approval" by such authorities prior to approval by the DOA of the Design Submittal Phase 3C 100% submittal and printing of the Contract Documents.

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

CONSULTANT will submit six (6) copies of all Contract Documents required under this Design Submittal Phase 3C associated with Program Phase 2 for final review comments and approval by the DOA. CONSULTANT will not proceed with Design Submittal Phase 4 until the 100% Complete Contract Documents have been revised per DOA comments, reviewed and approved by the DOA Representative, the interested DOA Divisions, and written approval is received from the DOA.

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

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### 3.3.1 Permitting

#### 3.3.1.1 PBC Traffic Engineering Permit Application Request for Additional Information (RAI) Responses

CONSULTANT will address a maximum of two (2) RAIs associated with the PBC Traffic Engineering General Use and Utility permit applications.

#### 3.3.1.2 City of Lake Worth Utilities Permit Application Request for Additional Information (RAI) Responses

CONSULTANT will address a maximum of two (2) RAIs associated with the City of Lake Worth Utilities Water Distribution and Waste Water Collection System permit applications.

#### 3.3.1.3 PBC Planning, Zoning and Building Department Permit Application Request for Additional Information (RAI) Responses

CONSULTANT will address a maximum of two (2) RAIs associated with the PBC PZB Department Permit Applications regarding the hangar and security fence / access control gate improvements.

#### 3.3.1.4 PBC Land Development Department Permit Application Request for Additional Information (RAI) Responses

CONSULTANT will address a maximum of two (2) RAIs associated with the PBC Land Development Department Permit Applications regarding the hangar and security fence / access control gate improvements.

#### 3.3.1.5 Florida Power & Light and AT&T Agreement Request for Additional Information (RAI) Responses

CONSULTANT's subconsultant Hillers Electrical Engineering, Inc. will address a maximum of two (2) RAIs associated with the FPL and AT&T agreements.

### 3.3.2 Meetings

CONSULTANT will attend the following meetings during Design Submittal Phase 3C:

1. One (1) Team Coordination Meeting;
2. One (1) PBC Traffic Engineering RAI Coordination Meeting;
3. One (1) City of Lake Worth Utilities RAI Coordination Meeting;
4. One (1) PBC PZB Department RAI Coordination Meeting;
5. One (1) PBC Land Development RAI Coordination Meeting;
6. One (1) FPL and AT&T Agreement RAI Coordination Meeting;
7. One (1) Client Review Submittal Meeting.

### 3.3.3 Deliverables

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

1. DOA Review Meeting Minutes;

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2. PBC Traffic Engineering RAI Responses and Meeting Minutes;
  3. City of Lake Worth Utilities RAI Responses and Meeting Minutes;
  4. PBC PZB Department RAI Responses and Meeting Minutes;
  5. PBC Land Development Department RAI Responses and Meeting Minutes;
  6. FPL and AT&T Agreement RAI Responses and Meeting Minutes;
  7. 100% Contract Document Drawings;
  8. 100% Project Schedule;
  9. 100% Project Manual (Front Ends and FAA General Provisions);
  10. 100% Technical Specifications;
  11. 100% Engineer's Opinion of Probable Construction Cost Estimate.

### **3.3.4 Schedule**

The anticipated duration of Design Submittal Phase 3C is 30 calendar days.

## **4.0 DESIGN SUBMITTAL PHASE 4 - BID & AWARD**

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids for the Program Phase 2 Project, materials, equipment and services; and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, and receive and process deposits for Bidding Documents; assist the DOA in conducting one (1) pre-bid conference for the Program Phase 2 Project to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda (four maximum) as appropriate to interpret, clarify or expand the Bidding Documents; print and distribute a maximum of thirty-five (35) sets of Bidding Documents to Prospective Bidders and plan offices (Central Florida Builders Exchange, McGraw-Hill Construction, Construction Journal, Reed Construction, and iSqFt / Construction Software Technology, Inc. Plan Rooms) during the Bidding phase; and attend one (1) bid opening, prepare one (1) bid tabulation sheet and assist DOA in evaluating bids or proposals (evaluate the low bidders' insurance, licensing and qualifications ) and in assembling and awarding contracts for construction, materials, equipment and services. Bid Documents will be distributed from CH2M HILL's Palm Beach Gardens Office.

### **4.1 Meetings**

CONSULTANT will attend the following meetings during Design Submittal Phase 4:

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

CONSULTANT will prepare Pre-Bid Agenda and Meeting Minutes.

### **4.2 Deliverables**

The Design Submittal Phase 4 - Bid & Award Deliverables will include the following items 1-6:

1. A maximum of thirty-five (35) sets of Bidding Documents;
2. One (1) Plan Holders List;
3. Pre-Bid Meeting Agenda, Attendee Roster and Minutes;

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4. A maximum of four (4) Addenda;
  5. One (1) Bid Tabulation Sheet;
  6. Letter of Recommendation to Award;

### **4.3 Schedule**

The anticipated duration of Design Submittal Phase 4 is 90 calendar days.

## **Project Schedule**

CONSULTANT will complete this project (Design Submittal Phases 1 through 4) within 360 Calendar Days following receipt of the Notice to Proceed (NTP).

## **Project Deliverables**

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

## **Project Assumptions**

1. The basis of design will be the Airport Redevelopment Program Phases 1-4 Facility Program Report and Conceptual Drawings prepared as a part of Program Phase 1 (Task I-13-LNA-C-014) Project. Preparation of contract documents for construction will be limited to Program Phase 2.
2. DOA will provide airfield access and escorting services during performance of the field services, as required.
3. DOA will process and file NOTAMs.
4. DOA will provide current Front End Contract Documents. Project information will be added to the standard front ends as summarized in this scope of services. Updates to the front ends will be completed by DOA and as such, are not included in the scope of work.
5. DOA will prepare and submit the FAA Airspace Study Checklist and as such, is not included in the scope of work.
6. CONSULTANT will perform Bid Documents Processing and Sales from our Palm Beach Gardens Office.
7. City of Lake Worth Water Utilities PBC Traffic Engineering, PBC Land Development, PBC Health Department, PBC PZB, FPL and AT&T permit application fees and legal fees will be paid for by the DOA. Permit and legal fees are not included in CONSULTANT's scope of work.
8. Hazardous material assessment survey and report will be completed by the CLIENT and provided to the CONSULTANT for inclusion in the BOD, as applicable.
9. Primary potable and fire protection water lines are assumed to be available at the property. Sufficient supply and pressure is assumed to be available and adequately sized to supply existing and future facilities based on the Program's projected utility demand.
10. Asbestos assessment reports will be completed by the CLIENT and provided to the CONSULTANT for Asbestos Containing Materials (ACM) identified during the records research and preliminary design phase.

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11. Demolition of existing T-Hangars located in rows 600 and 700 will be accomplished by the DOA under a separate construction contract and is not included in this scope of services.
  12. Primary site electrical distribution is assumed to be available at the property and has capacity to service the existing and future facilities.
  13. Sanitary sewer service is assumed to be available at the property and has capacity to service existing and future facilities. Considers point of connection at the corner of site to an existing gravity sewer main with sufficient capacity to supply added demand.
  14. The existing water distribution and waste water collection systems are assumed to be appropriately and adequately sized to accommodate existing and future conditions. No modifications to the existing waste water collection system lift station, located directly west and adjacent to the existing terminal building, are anticipated nor included in this scope of services.
  15. Design and selection of furnishings and movable equipment are not included in the scope of work.
  16. Environmental Services including Burrowing Owl, Gopher Tortoise, or Wetland permitting is not included or anticipated at this time.
  17. Evaluation and Design of existing and relocated fuel farm, new FBO terminal building, and storage/maintenance hangars outside of Hangar Rows 600-700 is not included in this scope of services.
  18. It is assumed that all other permits and submittals to permitting agencies other than those indicated in this exhibit will be conducted by others.

## **Exclusions**

1. Easement services, legal description or general coordination with adjacent property.
2. Permitting fees and hearings for permitting that may require our attendance.
3. Environmental issues discovered in this area that requires additional attention and permitting.
4. Boundary and Tree surveying.
5. Historic Research and Preliminary Investigation or the development of Construction Documents for Historic Preservation of Historic Buildings.
6. Rezoning of plat from current use to proposed zoning use through the zoning board.
7. Preparation of Threshold Inspection Plan.
8. Communication Systems including but not limited to telephone systems, computer networking, etc.
9. Construction administration, management, inspection and quality acceptance materials testing services are not included in this scope of work. A separate task authorization will be prepared and negotiated for construction services.

## **Special Services**

Special Services are considered additional work and must be authorized by the DOA, prior to beginning commencement. Special Services cannot be included as Basic Services because their need or exact scope cannot be fully established until underway.

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

1. Perform or obtain the services of a subconsultant to perform subsurface investigations, including performance of test borings, soil samples, foundation investigations, laboratory analyses of the samples, and engineering analyses not included in this scope of services. CONSULTANT or the subconsultant will prepare a draft final and final report of all findings and CONSULTANT will deliver to the DOA representative two (2) copies of the draft final and final report.
2. Perform or obtain the services of a registered professional land surveyor subconsultant to perform field surveys and investigations not including in this scope of services in order to establish or verify boundaries and monuments, perform topographic surveys, perform route surveys, prepare property or easement descriptions, perform associated office work under the direction of a registered professional surveyor, and deliver to the DOA representative a Mylar of all final plats with field notes in bound standard size field books and electronic format of said information, or in such other form as approved by the DOA.
3. Make revisions to drawings, specifications, or other documents when such revisions are inconsistent with approvals or instructions previously given by the DOA representative.
4. Perform or obtain the services of a specialized subconsultant to perform aerial photography and computer mapping.
5. Travel to points outside the DOA if such travel is reasonably necessary to accomplish the task.
6. Prepare special studies and reports, such as environmental documents including representation and testimony at hearings and community meetings, grant applications, etc.
7. Provide the services of an independent cost estimator, as a subconsultant, to make a comprehensive cost estimate for the project in a form satisfactory to the DOA, which independent cost estimate will be in addition to the cost estimate prepared by CONSULTANT.
8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner, including the making of record prints of drawings, etc.
9. Assist the DOA representative in securing any special licenses or permits not included in this scope of services, South Florida Water Management District, DER, etc., which may be required for the completion of the project, it being understood by the parties that the fees for said special licenses and permits will be paid by the DOA.
10. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproduction for the office use of CONSULTANT and CONSULTANT'S subconsultants.
11. Provide a scale model or renderings of the project when requested by the DOA.
12. Provide any other additional services related to the project not otherwise included in the Basic Services of other Special Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-28"**

### **Task Scope Sheet**

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**Task I-14-PBI-C-028**

**Palm Beach International Airport  
Concourse C Passenger Checkpoint Modification  
Bidding and Construction Administration Services**

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### **Overview**

Palm Beach County Department of Airports (DOA) has requested that CH2M HILL, Inc. (CONSULTANT) provide professional engineering services for the proposed interior modifications at Palm Beach International Airport (PBI) Concourse C Security Checkpoint. The conceptual and final design services are currently being completed under Task I-13-PBI-C-022. The purpose of this task authorization is to provide bidding and construction administration services to be implemented by the DOA's CM at Risk.

CH2M HILL will manage the task and perform the activities associated with the bidding and construction administration services associated with architectural, structural and mechanical project components. CONSULTANT's subcontractors include Hillers Electrical Engineering (electrical and fire protection) and Big Sky Incorporated (security and access control).

### **Project Description**

The proposed renovation involves the security checkpoint area for Concourse C as well as the adjacent "Meeter/Greeter Waiting" area. The current design approach is to repurpose the currently oversized meeter/greeter waiting area to be utilized as the primary exit corridor, and add infrastructure to support a future Exit Lane Breach Control (ELBC) system for automated/unmanned access control to mitigate the impact of pending TSA changes. Relocating the exit will simultaneously allow for expansion of the security queuing area to mitigate peak time overflow in queues and to provide additional dedicated lanes for Pre-check (TSA's pre-screening program for passengers), as this market segment is expected to grow significantly in the coming years.

For this project, the CONSULTANT will perform the following tasks, 1 through 3:

1. Task Management and Coordination;
2. Bidding Assistance;
3. Construction Administration.

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## Scope of Services

The scope of work presented herein outlines the CONSULTANT's approach in performing the work of this project.

1. **Task Management:** The CONSULTANT's Project Manager will oversee the work, manage project staff and resources, develop project instructions, provide schedule and budget control, process invoicing, develop and implement a Health and Safety program for field staff, and provide oversight of the overall project delivery and quality control program for the project.
2. **Bidding Assistance**
  - a. Bid Documents in electronic format (PDF); Bidding Phase will be administered by the CM at Risk Contractor;
  - b. Respond to Bidder Request for Information (RFIs); Addendum will be prepared by CM at Risk Contractor;
  - c. Review and evaluate contractor proposal including unit pricing and total estimated construction value.
3. **Construction Administration, to include:**
  - a. One Pre-Construction Conference, attended by Project Architect;
  - b. Perform a maximum of six periodic site inspections throughout construction, estimated at three hours per visit including preparation, travel time, and documentation;
  - c. Process, review and approve/respond to shop drawings and submittals, to determine if the shop drawings and submittals generally conform to the design concept of the project and the requirements of the Contract Documents. For budgeting purposes, CH2M HILL assumes a maximum of ten (10) shop drawings and/or submittals will be reviewed and estimated at an average of 2 hours each for processing, review, and approval. CH2M HILL will process shop drawings and maintain a log of contractor shop drawings and submittals. The submittal log will include the submittal date, the action taken, and the date returned.
  - d. Provide design clarifications (RFIs) and recommendations, to assist the DOA representative in resolving field issues relating to the construction. For budgeting purposes, a maximum of six (6) RFIs are estimated at 2 hours per each for processing, review, and response.
  - e. Perform, together with DOA representative, observations of the construction site to assist in the determination by the DOA if the project is substantially complete and a final inspection to determine if the project has been generally completed in accordance with the Contract Documents. A maximum of one substantial completion site visit and one final completion site visit is assumed for budgeting purposes at four hours per visit including preparation, travel, documentation, and review of punch list generated by the Construction Manager. The CONSULTANT will prepare and submit to DOA a "Certification of Substantial Completion" following the substantial completion site inspection.
  - f. Provide one (1) set of reproducible drawings and CAD file "record drawings," which will become the property of the DOA, corrected to show changes made in the work during construction of the project. Such corrections will be based upon "as-built" prints, drawings, field sketches, and other data furnished to CH2M HILL by the Contractor, upon change orders issued during construction.



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CH2M HILL will not verify the as-built information provided by the Contractor. Record drawings will be prepared in part on the basis of information compiled and furnished by others, and may not always represent the exact location, type of various components, or exact manner in which the project was finally constructed. CH2M HILL is not responsible for any errors and omissions in the information from others which are incorporated into the record drawings.

## Assumptions

1. DOA will provide an airport escort as needed during the performance of on-site investigations and access to the site will be made available to CONSULTANT during normal business hours.
2. DOA shall have the responsibility for the general administration of the construction contract. Accordingly, the CONSULTANT shall not have the authority or responsibility to issue direct instructions to the contractor, to reject the work done by the contractor, or to require special inspections and/or tests. CH2M HILL and CH2M HILL's personnel have no authority to exercise any control over any construction contractor or other entity or their employees in connection with their work or any health or safety precautions and have no duty for inspecting, noting, observing, correcting, or reporting on health or safety deficiencies of the construction contractor(s) or other entity or any other persons at the site except CH2M HILL's own personnel. CH2M HILL, however, will provide continuing counsel to the DOA representative throughout the construction of the project.
3. Items specifically excluded from this task authorization include the following:
  - a. Destructive or nondestructive testing or analysis
  - b. Construction Management and full-time inspection services
  - c. Front End Contract Documents for Construction

## Project Schedule

CONSULTANT will complete the project within 150 Calendar Days of issuance of Notice to Proceed.

# PALM BEACH COUNTY GENERAL CONSULTING SERVICES

## EXHIBIT "A-I-29"

### Task Scope Sheet

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**Task I-14-PBI-C-029**

**Palm Beach International Airport  
Construct Taxiway W  
Supplemental Design Services**

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### Overview

The Palm Beach County Department of Airports (DOA) authorized CH2M HILL, INC. (CONSULTANT) to provide professional engineering services associated with the North-South Taxilane (a.k.a Construct Taxiway W) Project (the Project) at Palm Beach International Airport (PBI), Task I-13-PBI-C-009. The purpose of the Project, Airplane Design Group (ADG) III, is to connect existing general aviation facilities located in the Golfview Development Area (GDA) with Taxiway A and support planned near-term Fixed Base Operator (FBO) development.

The seventy-five percent (75%) contract documents associated with the Project were submitted to the DOA on February 28, 2014 as a part of Task I-13-PBI-C-009. At that time, the Federal Aviation Administration (FAA) issued a change to Advisory Circular (AC) 150/5300-13A, Airport Design, revising the taxiway fillet design standards associated with Taxiway Design Group (TDG) requiring revisions to the Project design. During the design review meeting on March 12, 2014, the DOA requested that CONSULTANT revise the taxiway fillet design to meet the new TDG IV standards at Taxiway A and new TDG III standards at the connection to the existing Net Jets taxilane.

In addition, Signature Flight Support identified future development plans associated with expanding the existing Net Jets apron in two distinct Phases and is currently in negotiations with the DOA to amend the lease agreement. The Net Jets Phase 1 apron expansion includes expanding the existing apron to the south; parallel to the proposed Taxiway W. Phase 2 apron expansion includes expanding the apron to the west of the existing apron and Phase 1. As a result of the future planned development, and based on discussions with the Air Traffic Control Tower, DOA and Signature Flight Support, a new taxiway connection will be required to be added to the Project to provide a secondary ingress/egress connection to Taxiway W, not original contemplated as a part of the original scope of work associated with Task I-13-PBI-C-009. In addition, Taxiway W was planned to connect at the southern edge of the existing Net Jets taxilane. Based on discussions with the DOA and Signature Flight Support, the taxilane connection to the existing apron will be revised to provide a straight-in approach. Lastly, Taxiway A is currently planned to be rehabilitated. That project, to be designed by others, includes widening the existing shoulder pavement from 25 feet to 30 feet per the new TDG standards. The Taxiway W project will include widening Taxiway A shoulder pavement between the limits of the two projects.

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## Project Team

CONSULTANT's subcontractors include Hillers Electrical Engineering, Inc. (Airfield Electrical), Brown & Phillips, Inc. (Topographical Surveying), Tierra South Florida, Inc. (Geotechnical Investigations), and F.R. Aleman & Associates, Inc. (Subsurface Investigations - Utility Sweeps/Locates).

## **Scope of Services**

The purpose of this task authorization is to perform supplemental design services associated with the following revisions requested by the DOA:

- Revise Taxiway Fillet Geometry at Taxiway A;
- Revise Existing Taxilane Connection at the Net Jets Apron;
- Construct a New Taxiway Connector to Net Jets Phase 1 Apron Expansion
- Widen Taxiway A Shoulder Pavement between proposed Taxiway W and Taxiway A Rehabilitation project limits

As part of the Supplemental Design Services, CONSULTANT will perform the following tasks 1 through 9:

1. Attend Two (2) DOA / FBO Coordination Meetings;
2. Prepare a maximum of six (6) Conceptual Drawing Exhibits;
3. Perform Supplemental Topographic Surveying, Geotechnical and Subsurface Investigations;
4. Update Engineer's Report;
5. Update Engineer's Opinion of Probable Construction Cost Estimate;
6. Update Design Drawings;
7. Task Management;
8. Task Coordination (DOA, ATCT, Operations, Signature Flight Support, other Consultants, and other interested project Stakeholders);
9. Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control.

CONSULTANT will attend the DOA/ FBO coordination meetings. All meetings will include preparation of meeting agenda and required material, meeting attendance and travel, and preparation of meeting minutes documenting the items discussed during the meeting and summary of action items.

The conceptual drawings to be developed will evaluate alternatives associated with the planned FBO apron expansion including a straight-in approach to the existing apron and a new taxiway connector to the planned Phase 1 apron expansion in support of discussions and negotiations between the DOA and Signature Flight Support.

The revisions to the Project drawings, engineer's report, schedule and cost estimate will be incorporated in the 100% contract documents prepared as a part of Task I-13-PBI-C-009.

## **Deliverables**

The Supplemental Design Deliverables will include the following items 1-15:

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Exhibit A – Task I-14-PBI-C-029  
Palm Beach International Airport  
Construct Taxiway W  
Supplemental Design Services

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1. DOA / FBO Coordination Meeting Minutes in Email format (2 Max.);
  2. Conceptual Drawing Exhibits in PDF format (6 Max.)
  3. Updated Topographic Survey, Geotechnical and Utility Location Reports;
  4. Updated Engineer's Report;
  5. Updated Engineer's Opinion of Probable Construction Cost Estimate;
  6. Updated General Plans (Drawing Index, Summary of Quantities, Schedule, Safety Plan, Phasing and Maintenance of Traffic Plans, Survey Control and Boring Logs and Location Plans);
  7. Update Demolition Plans;
  8. Updated Geometry Plans;
  9. Update Marking Plans;
  10. Update Grading Plans;
  11. Update Cross Section Layout and Section Plans;
  12. Update Electrical Signage Plans and Schedules;
  13. Update Electrical Demolition Plans;
  14. Update Electrical Layout Plans;
  15. Update Electrical Circuitry Plans.

## **Schedule**

The duration of this task authorization is 90 calendar days.

# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-30"**

### **Task Scope Sheet**

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**Task I-14-PBI-C-030**

**Palm Beach International Airport  
Taxiway D & E Rehabilitation / Reconstruction  
Supplemental Design Services**

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### **Overview**

The Palm Beach County Department of Airports (DOA) authorized CH2M HILL, INC. (CONSULTANT) to provide professional engineering services associated with the Taxiway D & E Rehabilitation / Reconstruction Project (the Project) at Palm Beach International Airport (PBIA), Task I-13-PBI-C-020. The purpose of the Project is to rehabilitate (mill and overlay) Taxiway D between Runway 10L-28R and Runway 32 end, rehabilitate a portion of Taxiway E between the Runway 32 end and the existing Fixed Base Operator (FBO) apron, reconstruct the remainder of Taxiway E along the FBO apron and reconfigure the intersection at Taxiway E, L and L3. In addition, the Project included performing conceptual design analysis, developing conceptual drawings, and preparing a rough order of magnitude cost estimate associated with upgrading Taxiway E to accommodate the largest ADG-III aircraft wing span (118 feet). The existing lease boundary / aircraft containment line on south side of Taxiway E will remain in its current configuration. At present, Taxiway E is restricted to aircraft with wing spans less than or equal to 108 feet in width (B-727-100/200). The original scope of services (Task I-13-PBI-C-020) did not include design services associated with upgrading Taxiway E to accommodate the largest ADG-III aircraft wingspan.

The preliminary engineer's report and conceptual drawings associated with the Project were submitted to the DOA on May 2, 2014 as a part of Task I-13-PBI-C-020. Based on the conceptual design analysis, Taxiway E upgrade to the largest ADG-III standards will require shifting the existing taxiway centerline 12.5 feet to the north. This shift impacts the existing fillet geometry at the connection at Taxiway K, the Taxiway E edge lighting and signage system, and the existing runway guard lights (RGLs) at Runway 32 holding position. During the preliminary design review meeting on May 21, 2014, the DOA requested that CONSULTANT incorporate the design to upgrade Taxiway E to full ADG-III standards including revising the taxiway fillet design to meet Taxiway Design Group (TDG) IV at Taxiway K and related edge lighting, signage and RGL modifications. In addition, as a part of the previous extension of Taxiway L, the new drainage system was connected to an existing culvert under Runway 10L-28R. As a part of the Runway 10L-28R rehabilitation project, the culvert was inspected and temporary repairs were addressed. Because the culvert is old and the Stormwater Management Master Plan identified the delineation of Basins 3 and 4 at the centerline of Runway 10L-28R, the DOA

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requested that CONSULTANT replace this connection with a new culvert under Taxiway D and plug and fill the existing culvert under the runway.

### Project Team

CONSULTANT's subcontractors include Hillers Electrical Engineering, Inc. (Airfield Electrical), ADA Engineering, Inc. (Storm Water Management Design and SFWMD Permitting), Brown & Phillips, Inc. (Topographical Surveying), Tierra South Florida, Inc. (Geotechnical Investigations), and F.R. Aleman & Associates, Inc. (Subsurface Investigations - Utility Sweeps/Locates).

The supplemental topographic surveying services will be accomplished as a part of the unused time and materials design phase topographic surveying services, Task I-13-PBI-C-020.

## **Scope of Services**

The purpose of this task authorization is to perform supplemental design services associated with the following revisions requested by the DOA:

- Upgrade Taxiway E to the largest ADG-III standards
- Revise Taxiway Fillet Geometry at Taxiway K
- Airfield Electrical Modifications to Taxiway E and K edge lighting and signage systems, and runway guard lights at Taxiway E and Runway 32
- Replace the existing drainage connection under Runway 10L-28R with a new culvert under Taxiway D and plug, fill and abandoned existing culvert under Runway 10L-28R

As part of the Supplemental Design Services, CONSULTANT will perform the following tasks 1 through 7:

1. Perform Supplemental Topographic Surveying, Geotechnical and Subsurface Investigations;
2. Update Engineer's Report;
3. Update Engineer's Opinion of Probable Construction Cost Estimate;
4. Update Design Drawings;
5. Task Management;
6. Task Coordination (DOA, ATCT, Operations, Signature Flight Support, Jet Aviation, other Consultants, and other interested project Stakeholders);
7. Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control.

The revisions to the Project drawings, engineer's report, schedule and cost estimate will be incorporated in the 30%, 75% and 100% contract documents to be prepared as a part of Task I-13-PBI-C-020.

## **Deliverables**

The Supplemental Design Deliverables will include the following items 1-13:

1. Updated Topographic Survey, Geotechnical and Utility Location Reports;
2. Updated Engineer's Report;

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3. Updated Engineer's Opinion of Probable Construction Cost Estimate;
  4. Demolition Plans;
  5. Geometry Plans;
  6. Marking Plans;
  7. Grading Plans;
  8. Cross Section Layout and Section Plans;
  9. Stormwater Pollution Prevention and Drainage Plans and Details;
  10. Electrical Demolition Plans;
  11. Electrical Layout Plans;
  12. Electrical Signage Plans and Schedules;
  13. Electrical Circuitry Plans.

## **Schedule**

The duration of this task authorization is 165 calendar days as per the current design schedule associated with Task I-13-PBI-C-020.

# **PALM BEACH COUNTY GENERAL CONSULTING SERVICES**

## **EXHIBIT "A-I-31"**

### **Task Scope Sheet**

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**Task I-14-PBI-C-031**

**Palm Beach County Department of Airports  
Palm Beach International Airport  
Air Service Support – Task 7**

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### **Overview**

Palm Beach County Department of Airports (DOA) has requested that CH2M HILL (CONSULTANT) and Campbell-Hill Aviation Group, LLC (SUBCONSULTANT) provide professional services associated with Air Service Support – Task 7 at Palm Beach International Airport.

### **Scope of Services**

CONSULTANT and SUBCONSULTANT will perform the following tasks:

1. Task Management (CONSULTANT)
2. Subconsultant Coordination (CONSULTANT)
3. Part A (SUBCONSULTANT)
4. Part B (SUBCONSULTANT)
5. Part C (SUBCONSULTANT)

#### Part A

- Prepare materials for and represent PBI in airline meetings and strategy sessions related to the Routes Europe 2014 conference in Marseilles.
- Prepare materials for and represent PBI in a meeting with Azul Brazilian Airlines.

#### Part B

- Prepare materials for and represent PBI in airline meetings and strategy sessions related to the JumpStart 2014 conference in Edmonton.

#### Part C

- Prepare materials for and represent PBI in airline meetings and strategy sessions related to the Routes 2014 conference in Chicago. Purchase ARC data required for leakage analysis in these presentations.

### **Assumptions**

1. Estimated thirteen (13) meetings for Routes Europe 2014 (Part A)
2. Conference fees, expenses and hours will be shared with other airports represented by Campbell-Hill at the conference



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3. Estimated ten (10) meetings for JumpStart 2014 (Part B)
  4. Estimated ten (10) meetings for Routes 2014 (Part C)

## **Project Deliverables**

1. Electronic presentation for each Routes Europe 2014 Conference meeting.
2. Electronic presentation for PBI Azul Brazilian Airlines.
3. Electronic presentation for each JumpStart 2014 Conference meeting
4. Electronic presentation for each Routes Chicago 2014 Conference meeting.

## **Project Schedule**

This task authorization will be completed within 120 Calendar Days following issuance of Notice-to-Proceed (NTP).

# PALM BEACH COUNTY GENERAL CONSULTING SERVICES

## EXHIBIT A-II-3

### Task Scope Sheet

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Task II-14-DOA-C-003

Palm Beach County Department of Airports  
2014 Environmental Compliance Monitoring, Inspection &  
Training Services

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#### PROJECT DESCRIPTION

To comply with various state regulatory compliance permit conditions at its four airports (Palm Beach International Airport, North Palm Beach County General Aviation Airport, Palm Beach County Park Airport and Palm Beach Glades Airport), the Palm Beach County Department of Airports (DOA) has requested that CH2M HILL (CONSULTANT) and its Subconsultant Cyriacks Environmental Consulting Services, Inc. (CECOS), provide environmental monitoring, inspection and training services on an annual basis. This scope of work is associated with the 2014 annual environmental compliance monitoring, inspection and training services.

#### SCOPE OF WORK

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

##### 1.0 SWPPP REVISIONS, INSPECTIONS AND TRAINING

A Stormwater Pollution Prevention Plan (SWPPP) is mandated by the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) as defined in 40 CFR 122.2. The NPDES is the national program for issuing, modifying, or revoking permits under Sections 307, 318, 402, and 405 of the Clean Water Act. The Florida Department of Environmental Protection (FDEP) is the permitting agency responsible for overseeing the NPDES Program in Florida. According to EPA document 833-B-09-002, *Developing Your Stormwater Pollution Prevention Plan* (February 2009), when new facilities are constructed that affect stormwater control practices; the SWPPP is revised to reflect the changes to the stormwater system. Therefore, as a part of this task, SWPPP revisions will involve editorial changes to the previous SWPPP documents associated with the four airports managed by the DOA. No new improvements are anticipated to be completed at the four County airports during the annual update, therefore Drainage and Basin Delineation Map updates are not anticipated to be required. Editorial changes will be limited to editing and replacing pages related to the tenant list including contact information and Stormwater Best Management Practices (BMPs). This task also includes the 2014 annual compliance inspections and the 2014 training workshop for employees and tenants.

##### 1.1 In-House Data Collection

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

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2014 Environmental Compliance Monitoring,  
Inspection & Training Services

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- Updated contact information for the members of the SWPPP Team;
- Updated list of tenants and their contact information;
- Preventive maintenance records;
- Procedural changes to spill response and containment;
- Facility Response Plan (if available).

### **1.1.1 Tenant Questionnaire**

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

### **1.1.2 Tenant Notification**

Prior to the 2014 annual compliance inspections, CONSULTANT will provide the DOA with the draft Tenant Notification of Inspection letter, NPDES Compliance Commitment Certificate, SWPPP brochure, and Spill Prevention, Control, and Countermeasure (SPCC) pamphlet. These documents will be reviewed and approved by DOA prior to distribution to the tenants. CONSULTANT will distribute the letter for DOA.

#### **Assumptions:**

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

## **1.2 Annual Compliance Inspections**

### **1.2.1 Annual Site Compliance Inspections**

CONSULTANT's subconsultant, CECOS, will conduct the 2014 annual site compliance inspections to coincide with the drainage structure inspections and tenant inspections for each Airport. During the annual site compliance inspections, CECOS will:

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

### **1.2.2 Visual NPDES Permitted Drainage Structure Inspections**

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

### **1.2.3 Tenant and DOA Facility Inspections**

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

#### **Assumptions:**

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

## **1.3 Report Preparation**

### **1.3.1 Annual Compliance Inspection Report**

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

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

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

**Assumptions:**

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

**1.3.2 Editorial Update of SWPPP's**

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

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

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

**1.3.3 Tenant Compliance Coordination**

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

1. Cover letter on DOA letterhead;
2. Industrial Tenant Inspection Checklist;
3. Applicable BMP's Checklist(s);

#### 4. Significant Materials Inventory Data Sheet.

##### **Deliverables:**

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

##### **1.3.4 SWPPP Drainage Map Update**

Based on information provided by the DOA, Drainage and Basin Delineation Map updates due to a new facility construction and/or stormwater system or a change to the stormwater system will not be required to be performed at the four County airports. If necessary, Drainage and Basin Delineation Map Updates will be performed under a separate task authorization.

##### **1.4 Training Workshop**

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

##### **Assumptions:**

- DOA will provide meeting space at each of the Airports at no cost to CONSULTANT;
- DOA will provide electronic copies of the 2013 training materials (Microsoft PowerPoint presentation, a training handout, a class test questionnaire, and a certificate of attendance) to CONSULTANT for modification and use in 2014;
- The training classes will be held after the annual compliance inspections are completed;
- The training classes will be approximately 1.5 to 2 hours in length including the test;
- Reproduction expenses for training class materials are based on the assumption that a maximum number of MS PowerPoint handouts and compact discs would be reproduced for the classes based upon the number of industrial use tenants.

##### **Deliverable:**

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

#### **2.0 CONTINGENCY SERVICES**

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

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

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

### **3.0 CLIENT COORDINATION AND MEETING**

#### **3.1 Client Coordination**

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

#### **3.2 Telephone Meetings**

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

#### **3.3 Project Status Reports**

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

### **SCHEDULE**

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

**EXHIBIT "B"**  
**DETAILED FEES, EXPENSES AND PAYMENTS**



**EXHIBIT "B"**  
**TABLE I**  
**SCHEDULE OF HOURLY LABOR BILLING RATES**

The following hourly billing rates are for use during 2014 and apply to the Palm Beach County Department of Airports General Engineering Services Contract.

The CONSULTANT'S key personnel include:

**CONSULTANT: CH2M HILL**

| DESCRIPTION                                    | 2014<br>HOURLY BILLING RATES |
|--|------------------------------|
| Program Manager/Principal/Senior Consultant    | \$ 250.97                    |
| Sr. Technologist / Sr. Project Manager         | \$ 205.90                    |
| Project Manager / Design Manager / Task Leader | \$ 161.02                    |
| Project Engineer / Planner                     | \$ 129.22                    |
| Staff Engineer / Planner                       | \$ 106.22                    |
| Senior Technician                              | \$ 112.60                    |
| Design Technician                              | \$ 80.37                     |
| Graphics Support / Administrative Manager      | \$ 78.64                     |
| Administrative Assistant                       | \$ 67.12                     |
| IT Technician                                  | \$ 90.12                     |
| Threshold Inspector                            | \$ 147.61                    |
| Construction Manager                           | \$ 173.85                    |
| Document Control Specialist                    | \$ 97.30                     |
| Construction Inspector Grade 3                 | \$ 96.15                     |
| Construction Inspector Grade 4                 | \$ 114.63                    |
| Project Estimator / Scheduler                  | \$ 140.76                    |

**CONSULTANT: A.D.A. ENGINEERING**

| <b>DESCRIPTION</b>                          | <b>2014<br/>HOURLY BILLING RATES</b> |
|---|--------------------------------------|
| Program Manager/Principal/Senior Consultant | \$253.00                             |
| Project Manager/Design Manager/Task Leader  | \$234.00                             |
| Project Engineer/Planner                    | \$190.00                             |
| Staff Engineer/Planner                      | \$141.00                             |
| Senior Technician                           | \$94.00                              |
| Design Technician                           | \$92.00                              |
| GIS Specialist                              | \$141.00                             |
| Construction Inspector                      | \$127.00                             |
| Technical Editor                            | \$104.00                             |
| Administrative Assistant                    | \$80.00                              |

**CONSULTANT: APPLIED PAVEMENT TECHNOLOGY INC.**

| <b>DESCRIPTION</b>  | <b>2014<br/>HOURLY BILLING RATES</b> |
|---------------------|--------------------------------------|
| Principal           | \$245.00                             |
| QA QC Administrator | \$175.00                             |
| Project Manager     | \$215.00                             |
| Engineer            | \$135.00                             |
| Technician          | \$85.00                              |

**CONSULTANT: BIG SKY INCORPORATED**

| <b>DESCRIPTION</b>   | <b>2014<br/>HOURLY BILLING RATES</b> |
|----------------------|--------------------------------------|
| Project Manager      | \$248.58                             |
| Sr. Network Engineer | \$208.89                             |
| Sr. Engineer         | \$150.51                             |
| Engineer III         | \$123.10                             |
| Engineer             | \$119.10                             |
| Draftsperson         | \$82.78                              |
| Clerical             | \$76.74                              |

**CONSULTANT: BROWN & PHILLIPS**

| <b>DESCRIPTION</b>     | <b>2014<br/>HOURLY BILLING RATES</b> |
|------------------------|--------------------------------------|
| Expert Witness         | \$250.00                             |
| Professional           | \$135.00                             |
| Survey Technician      | \$80.00                              |
| CAD Technician         | \$80.00                              |
| Survey Crew (3 person) | \$140.00                             |
| Survey Crew (2 person) | \$125.00                             |
| Draftsperson           | \$65.00                              |
| Clerical               | \$45.00                              |
| GPS System             | \$10.00                              |
| All Terrain Vehicles   | \$80.00                              |

**CONSULTANT: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES, INC**

| <b>DESCRIPTION</b>             | <b>2014<br/>HOURLY BILLING RATES</b> |
|--------------------------------|--------------------------------------|
| Environmental Project Manager  | \$ 200.00                            |
| Sr. Environmental Scientist VI | \$ 180.25                            |
| Sr. Environmental Scientist II | \$ 121.54                            |
| Sr. Environmental Scientist I  | \$ 96.82                             |
| Environmental Scientist        | \$ 87.55                             |
| GIS/Analyst                    | \$ 80.34                             |
| Environmental Analyst          | \$ 74.16                             |
| Administrative Assistant       | \$ 64.89                             |

**CONSULTANT: HILLERS ELECTRICAL ENGINEERING, INC.**

| <b>DESCRIPTION</b>    | <b>2014<br/>HOURLY BILLING RATES</b> |
|-----------------------|--------------------------------------|
| Project Manager       | \$ 130.00                            |
| Professional Engineer | \$ 120.00                            |
| Project Engineer      | \$ 105.00                            |
| Field Engineer        | \$ 105.00                            |
| CADD Technician       | \$ 85.00                             |
| Clerical              | \$ 55.00                             |

**CONSULTANT: MICHAEL BAKER, JR. INC.**

| <b>DESCRIPTION</b>  | <b>2014<br/>HOURLY BILLING RATES</b> |
|---|--------------------------------------|
| Principal   | \$ 201.00                            |
| Program Manager   | \$ 201.00                            |
| Project Manager   | \$ 172.00                            |
| Senior Engineer/Planner/Architect/Environmental Scientist | \$ 172.00                            |
| Engineer/Planner/Architect/Environmental Scientist        | \$ 155.00                            |
| Designer  | \$ 108.00                            |
| Technician  | \$ 84.00                             |
| Senior Inspector  | \$ 127.00                            |
| Inspector/RPR   | \$ 91.00                             |
| Clerical  | \$ 76.00                             |

**CONSULTANT: WOOLPERT**

| <b>DESCRIPTION</b>    | <b>2014<br/>HOURLY BILLING RATES</b> |
|-----------------------|--------------------------------------|
| Project Manager       | \$ 171.00                            |
| Professional Surveyor | \$ 150.00                            |
| Task Manager          | \$ 124.00                            |
| 2 Party Survey Crew   | \$ 184.00                            |
| Billing Coordinator   | \$ 83.00                             |

**Table II****Schedule of Subsistence and Reimbursable Expenses**

The following unit prices are used in the Contract for Calendar year 2014. Adjustments for subsequent years will be based on Federal rates at the current time of the written task and authorization.

|                               |  |
|-------------------------------|--|
| Air Travel <sup>1/</sup>      | At Coach/Economy Cost<br><i>Based on appropriate City-Pair</i>   |
| Per Diem                      | \$95/Day<br><i>Based on a quarter period (6 hours), no receipts.</i>   |
| OR:                           |  |
| Hotel Lodging                 | \$130.00 per person per day<br><i>Based on 2014 Federal Per Diem</i>   |
| Subsistence                   | \$40.00 per person per day<br>Breakfast: \$7.00<br>Lunch: \$11.00<br>Dinner: \$22.00<br><i>Based on 2014 Palm Beach County Policies and Procedures Manual Travel – PPM# CW-F-009</i> |
| Rental Car                    | \$48.75 per car per day<br><i>Based on 2014 Hertz Rental Rates</i>   |
| Personal Auto                 | \$0.56 per mile<br><i>Based on 2014 Palm Beach County Policies and Procedures Manual Travel – PPM# CW-F-009 (IRS Standard Rate Beginning 01/01/2014)</i>                             |
| Overnight Delivery            | At Cost  |
| Outside Reprographic Services | At Cost  |

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

Source: 2014 Palm Beach County Policies and Procedures Manual Travel – PPM # CW-F-009  
Prepared by: CH2M HILL, Inc.

**EXHIBIT "B-I"**  
**SUMMARY OF FEES**  
**AMENDMENT NO. 5**

| TASK   | BUDGET   |
|--|--|
| TASK I-14-DOA-C-023                            | North Palm Beach County General Aviation, Palm Beach County Park, and Palm Beach County Glades Airports Runway Signage and Marking Re-Designation Design and Bidding Services \$ 135,263.02                                  |
| TASK I-14-PBI-C-024                            | Palm Beach International Airport Terminal and Concourse Interior Expansion Joint Replacement Design, Bidding and Construction Administration Services \$ 39,275.56   |
| TASK I-14-DOA-C-025                            | Palm Beach County Department of Airports Palm Beach International Airport, North Palm Beach County General Aviation Airport, and Palm Beach County Glades Airport ADA Facility Compliance Assessment (Phase 2) \$ 114,454.90 |
| TASK I-14-PBI-C-026                            | Palm Beach International Airport Airfield Circuitry Master Plan Drawings Update \$ 30,655.72   |
| TASK I-14-LNA-C-027                            | Palm Beach County Park Airport Airport Redevelopment - Phase 2 Hangar, Apron, Taxiway and Access Driveway Design and Bidding Services \$ 467,916.39  |
| TASK I-14-PBI-C-028                            | Palm Beach International Airport Concourse C Passenger Checkpoint Modification Bidding and Construction Administration Services \$ 36,088.92   |
| TASK I-14-PBI-C-029                            | Palm Beach International Airport Construct Taxiway W Supplemental Design Services \$ 62,043.63   |
| TASK I-14-PBI-C-030                            | Palm Beach International Airport Taxiway D & E Rehabilitation / Reconstruction Supplemental Design Services \$ 86,669.31   |
| TASK I-14-PBI-C-031                            | Palm Beach County Dept. of Airports Palm Beach International Airport Air Service Support - Task 7 \$ 93,335.28   |
| TASK II-14-DOA-C-003                           | Palm Beach County Department of Airports 2014 Annual Environmental Compliance Monitoring, Inspection and Training Services \$ 106,893.41   |
| <b>TOTAL - TASK I SERVICES \$ 1,172,596.14</b> |  |

|   |    |            |
|---|----|------------|
| TASK III -001 Misc. Planning and Engineering Services                     | \$ | 150,000.00 |
| TASK III -002 Misc. Financial Consulting and Capital Programming Services | \$ | 10,000.00  |
| TASK III -003 Misc. Environmental Consulting Services                     | \$ | 10,000.00  |

|                                  |           |                   |
|----------------------------------|-----------|-------------------|
| <b>TOTAL - TASK III SERVICES</b> | <b>\$</b> | <b>170,000.00</b> |
|----------------------------------|-----------|-------------------|

|                              |           |                     |
|------------------------------|-----------|---------------------|
| <b>TOTAL CONTRACT AMOUNT</b> | <b>\$</b> | <b>1,342,596.14</b> |
|------------------------------|-----------|---------------------|



**EXHIBIT "B"**  
**DETAILED FEES, EXPENSES, AND PAYMENTS**

**A. METHOD OF PAYMENT FOR SERVICES AND EXPENSES OF CONSULTANT:**

**TASK I AND II SPECIFIC PROJECTS FOR 2014:**

For labor and expenses expended by CONSULTANT for Specific 2014 Projects, COUNTY shall pay CONSULTANT the amounts as follows:

| <b>Task</b>  | <b>Lump Sum<br/>Labor Amount</b> | <b>T&amp;M<br/>Labor<br/>Amount</b> | <b>Lump Sum<br/>Expense</b> | <b>Reimbursable<br/>Expense</b> | <b>Total Cost</b> |
|--|----------------------------------|-------------------------------------|-----------------------------|---------------------------------|-------------------|
| TASK I-14-DOA-C-023<br>North Palm Beach County General<br>Aviation, Palm Beach County Park, and<br>Palm Beach County Glades Airports<br>Runway Signage and Marking Re-<br>Designation Design and Bidding<br>Services                                       | \$118,558.02                     | \$13,645.00                         | \$0.00                      | \$3,060.00                      | \$135,263.02      |
| TASK I-14-PBI-C-024<br>Palm Beach International Airport<br>Terminal and Concourse Interior<br>Expansion Joint Replacement<br>Design, Bidding, and Construction<br>Administration Services  | \$38,045.56                      | \$0.00                              | \$0.00                      | \$1,230.00                      | \$39,275.56       |
| TASK I-14-DOA-C-025<br>Palm Beach County Department of<br>Airports<br>Palm Beach International Airport, North<br>Palm Beach County General Aviation<br>Airport, and Palm Beach County Glades<br>Airport<br>ADA Facility Compliance Assessment<br>(Phase 2) | \$104,333.90                     | \$8,000.00                          | \$0.00                      | \$2,121.00                      | \$114,454.90      |
| TASK I-14-PBI-C-026<br>Palm Beach International Airport<br>Airfield Circuitry Master Plan Drawings<br>Update   | \$30,655.72                      | \$0.00                              | \$0.00                      | \$0.00                          | \$30,655.72       |
| TASK I-14-LNA-C-027<br>Palm Beach County Park Airport<br>Airport Redevelopment – Phase 2<br>Hangar, Apron, Taxilane and Access<br>Driveway Design and Bidding Services   | \$431,629.78                     | \$28,916.61                         | \$0.00                      | \$7,370.00                      | \$467,916.39      |
| TASK I-14-PBI-C-028<br>Palm Beach International Airport<br>Concourse C Passenger Checkpoint<br>Modification<br>Bidding and Construction Administration<br>Services   | \$35,918.92                      | \$0.00                              | \$0.00                      | \$170.00                        | \$36,088.92       |

|  |                       |                    |               |                          |                       |
|--|-----------------------|--------------------|---------------|--------------------------|-----------------------|
| TASK I-14-PBI-C-029<br>Palm Beach International Airport<br>Construct Taxiway W<br>Supplemental Design Services   | \$50,212.78           | \$11,830.85        | \$0.00        | \$0.00                   | \$62,043.63           |
| TASK I-14-PBI-C-030<br>Palm Beach International Airport<br>Taxiway D & E Rehabilitation /<br>Reconstruction<br>Supplemental Design Services                    | \$79,653.46           | \$7,015.85         | \$0.00        | \$0.00                   | \$86,669.31           |
| TASK I-14-PBI-C-031<br>Palm Beach County Dept. of Airports<br>Palm Beach International Airport<br>Air Service Support – Task 7                                 | \$93,335.28           | \$0.00             | \$0.00        | \$0.00                   | \$93,335.28           |
| TASK II-14-DOA-C-003<br>Palm Beach County Department of<br>Airports<br>2014 Annual Environmental Compliance<br>Monitoring, Inspection and Training<br>Services | \$103,222.33          | \$0.00             | \$0.00        | \$3,671.08               | \$106,893.41          |
| <b>TOTALS</b>  | <b>\$1,085,565.75</b> | <b>\$69,408.31</b> | <b>\$0.00</b> | <b>\$17,622.08</b>       | <b>\$1,172,596.14</b> |
|  |                       |                    |               | <b>T&amp;M SUBTOTAL</b>  | <b>\$87,030.39</b>    |
|  |                       |                    |               | <b>LUMP SUM SUBTOTAL</b> | <b>\$1,085,565.75</b> |
|  |                       |                    |               | <b>TOTAL COST</b>        | <b>\$1,172,596.14</b> |

Paid vacations, holidays, sick leave and leaves of absence are included in the billing rates as CONSULTANT'S overhead and shall not be billed separately.

The Total Time and Materials payment for Task I and II projects as described in Exhibits "A-I-23", "A-I-24", "A-I-25", "A-I-26", "A-I-27", "A-I-28", "A-I-29", "A-I-30", "A-I-31", and "A-II-3" including labor costs is \$69,408.31. Reimbursable Expenses for Task I and II services is \$17,622.08. The Total Lump Sum payment for Task I and II projects as described in Exhibits "A-I-23", "A-I-24", "A-I-25", "A-I-26", "A-I-27", "A-I-28", "A-I-29", "A-I-30", "A-I-31", and "A-II-3" including labor costs is \$1,085,565.75. Lump Sum Expenses for Task I and II services are \$0.00. The Total for Labor and Expenses for Task I and II services shall be \$1,172,596.14.

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

**TASK III MISCELLANEOUS AND ADMINISTRATIVE SERVICES FOR 2014:**

For labor and expenses expended by CONSULTANT for Miscellaneous Services, COUNTY shall pay CONSULTANT the amounts as follows:

| Task  | Annual Lump Sum Labor Amount | Annual T&M Amount | Annual Lump Sum Expense | Annual Reimbursable Expense | Annual Total Cost |
|---|------------------------------|-------------------|-------------------------|-----------------------------|-------------------|
| TASK III -001 Misc. Planning and Engineering Services                     | Annual Maximum Allowance     |                   |                         | \$150,000.00                |                   |
| TASK III -002 Misc. Financial Consulting and Capital Programming Services | Annual Maximum Allowance     |                   |                         | \$10,000.00                 |                   |
| TASK III -003 Misc. Environmental Consulting Services                     | Annual Maximum Allowance     |                   |                         | \$10,000.00                 |                   |
| <b>TOTALS</b>   |                              |                   |                         | <b>\$170,000.00</b>         |                   |

Paid vacations, holidays, sick leave and leaves of absence are included in the billing rates as CONSULTANT'S overhead and shall not be billed separately.

**EXHIBIT "B-II"**

**SCHEDULE OF PAYMENTS**

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

**PHASE 1**

TASK I-14-DOA-C-023  
North Palm Beach County General Aviation,  
Palm Beach County Park, and  
Palm Beach County Glades Airports  
Runway Signage and Marking Re-Designation  
Design and Bidding Services

Completion Time: 175 Calendar Days  
Compensation for Phase 1: \$135,263.02

See Exhibit A for list of deliverables.

TASK I-14-PBI-C-024  
Palm Beach International Airport  
Terminal and Concourse Interior Expansion  
Joint Replacement  
Design, Bidding, and Construction  
Administration Services

Completion Time: 180 Calendar Days  
Compensation for Phase 1: \$39,275.56

See Exhibit A for list of deliverables.

TASK I-14-DOA-C-025  
Palm Beach County Department of Airports  
Palm Beach International Airport,  
North Palm Beach County General Aviation Airport,  
and Palm Beach County Glades Airport  
ADA Facility Compliance Assessment (Phase 2)

Completion Time: 120 Calendar Days  
Compensation for Phase 1: \$114,454.90

See Exhibit A for list of deliverables.

TASK I-14-PBI-C-026  
Palm Beach International Airport  
Airfield Circuitry Master Plan Drawings Update

Completion Time: 90 Calendar Days  
Compensation for Phase 1:

\$30,655.72

See Exhibit A for list of deliverables.

TASK I-14-LNA-C-027  
Palm Beach County Park Airport  
Airport Redevelopment – Phase 2  
Hangar, Apron, Taxilane and Access Driveway  
Design and Bidding Services

Completion Time: 360 Calendar Days  
Compensation for Phase 1:

\$467,916.39

See Exhibit A for list of deliverables.

TASK I-14-PBI-C-028  
Palm Beach International Airport  
Concourse C Passenger Checkpoint Modification  
Bidding and Construction Administration Services

Completion Time: 150 Calendar Days  
Compensation for Phase 1:

\$36,088.92

See Exhibit A for list of deliverables.

TASK I-14-PBI-C-029  
Palm Beach International Airport  
Construct Taxiway W  
Supplemental Design Services

Completion Time: 90 Calendar Days  
Compensation for Phase 1:

\$62,043.63

See Exhibit A for list of deliverables.

TASK I-14-PBI-C-030  
Palm Beach International Airport  
Taxiway D & E Rehabilitation / Reconstruction  
Supplemental Design Services

Completion Time: 165 Calendar Days  
Compensation for Phase 1:

\$86,669.31

See Exhibit A for list of deliverables.  
TASK I-14-PBI-C-031  
Palm Beach County Dept. of Airports  
Palm Beach International Airport  
Air Service Support – Task 7

Completion Time: 120 Calendar Days  
Compensation for Phase 1:

\$93,335.28

See Exhibit A for list of deliverables.

## **PHASE 2**

TASK II-14-DOA-C-003  
Palm Beach County Department of Airports  
2014 Annual Environmental Compliance Monitoring,  
Inspection and Training Services

Completion Time: 395 Calendar Days  
Compensation for Phase 1:

\$106,893.41

See Exhibit A for list of deliverables.

## **PHASE 3**

Task(s) to be Completed:

TASK III -001 Misc. Planning and Engineering Services  
Completion Time: TBD Compensation for Phase 3:

\$150,000.00

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

TASK III -002 Misc. Financial Consulting and Capital Programming Services  
Completion Time: TBD Compensation for Phase 3:

\$10,000.00

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

TASK III -003 Misc. Environmental Consulting Services  
Completion Time: TBD Compensation for Phase 3:

\$10,000.00

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

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

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-DOA-C-023**  
**North Palm Beach County General Aviation,**  
**Palm Beach County Park, and**  
**Palm Beach County Glades Airports**  
**Runway Signage and Marking Re-Designation**  
**Design and Bidding Services**

Exhibit B

Labor/Fee Estimate Summary - GA Airports Runway Signage and Marking Re-Designation Design and Bidding Services

Billing Rate: \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 112.60 \$ 80.37 \$ 78.64 \$ 67.12 \$ 147.61 \$ 173.85 \$ 140.76

| Task Description  | Labor Estimate (Hours)                          |  |  |  |                          |                   |                   |   |        |                     |                      |                               | Fee Estimate (\$) |              |
|---|---|--|--|--|--------------------------|-------------------|-------------------|---|--------|---------------------|----------------------|-------------------------------|-------------------|--------------|
|   | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer / Planner / Associate Project Manager | Staff Engineer / Planner | Senior Technician | Design Technician | Graphics Support / Administrative Manager | Admin. | Threshold Inspector | Construction Manager | Project Estimator / Scheduler | Total Labor Hours | Total Fee    |
|   |   |  |  |  |                          |                   |                   |   |        |                     |                      |                               |                   |              |
| <b>DOA Task No I-14-DOA-C-023</b>   |   |  |  |  |                          |                   |                   |   |        |                     |                      |                               |                   |              |
| <b>1.0 Preliminary Design Services (Phase 1)</b>  |   |  |  |  |                          |                   |                   |   |        |                     |                      |                               |                   |              |
| <b>Total</b>  | 0   | 0  | 18   | 58   | 40                       | 0                 | 60                | 8   | 14     | 0                   | 0                    | 0                             | 198               | \$ 21,182.92 |
| 1.01 Client Kick-off Meeting, Agenda and Minutes (1)  | 0   | 0  | 2  | 4  | 0                        | 0                 | 2                 | 0   | 2      | 0                   | 0                    | 0                             | 10                | \$ 1,133.90  |
| 1.02 Team Chartering / Kick-off Meeting (1)   | 0   | 0  | 2  | 2  | 0                        | 0                 | 2                 | 0   | 2      | 0                   | 0                    | 0                             | 8                 | \$ 875.46    |
| 1.03 Field Services (Programming and Coordination)  | 0   | 0  | 2  | 2  | 0                        | 0                 | 0                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 580.48    |
| 1.04 Field Coordination Meeting, Agenda and Minutes (1)   | 0   | 0  | 2  | 4  | 0                        | 0                 | 0                 | 0   | 2      | 0                   | 0                    | 0                             | 8                 | \$ 973.16    |
| 1.05 Perform a maximum of One (1) Project Site Investigation Visits at each GA Airport                            | 0   | 0  | 0  | 8  | 16                       | 0                 | 0                 | 0   | 0      | 0                   | 0                    | 0                             | 24                | \$ 2,733.28  |
| 1.06 Preliminary Design Studies / Taxiway Nomenclature and Runway Compliance Review                               |   |  |  |  |                          |                   |                   |   |        |                     |                      |                               |                   |              |
| North Palm Beach County General Aviation Airport  | 0   | 0  | 0  | 4  | 4                        | 0                 | 8                 | 0   | 0      | 0                   | 0                    | 0                             | 16                | \$ 1,584.72  |
| Palm Beach County Park Airport  | 0   | 0  | 0  | 4  | 4                        | 0                 | 8                 | 0   | 0      | 0                   | 0                    | 0                             | 16                | \$ 1,584.72  |
| 1.07 Preliminary Phasing, Sequencing, Maintenance of Traffic (MOT), Safety and Security Plans                     | 0   | 0  | 0  | 2  | 4                        | 0                 | 8                 | 0   | 0      | 0                   | 0                    | 0                             | 14                | \$ 1,326.28  |
| 1.08 Preliminary Signage and Marking Drawing Concepts   | 0   | 0  | 0  | 4  | 8                        | 0                 | 8                 | 0   | 0      | 0                   | 0                    | 0                             | 20                | \$ 2,009.60  |
| 1.09 Preliminary Outline Specifications   | 0   | 0  | 0  | 2  | 0                        | 0                 | 0                 | 0   | 0      | 0                   | 0                    | 0                             | 2                 | \$ 258.44    |
| 1.10  |   |  |  |  |                          |                   |                   |   |        |                     |                      |                               |                   |              |
| 1.11 Rough Order of Magnitude (ROM) Engineer's Opinion of Probable Construction Cost Estimate                     | 0   | 0  | 0  | 4  | 0                        | 0                 | 12                | 0   | 0      | 0                   | 0                    | 0                             | 16                | \$ 1,481.32  |
| 1.12 Data Collection, Records Research, Review and Coordination:  | 0   | 0  | 0  | 4  | 0                        | 0                 | 8                 | 0   | 0      | 0                   | 0                    | 0                             | 12                | \$ 1,159.84  |
| 1.13 Client Submittal Review Meeting, Agenda and Minutes (1)  | 0   | 0  | 2  | 4  | 0                        | 0                 | 0                 | 0   | 2      | 0                   | 0                    | 0                             | 8                 | \$ 973.16    |
| 1.14 Disadvantage Business Enterprise (DBE) Reporting   | 0   | 0  | 0  | 2  | 0                        | 0                 | 0                 | 0   | 2      | 0                   | 0                    | 0                             | 4                 | \$ 392.68    |
| 1.15 Task Management  | 0   | 0  | 4  | 0  | 0                        | 0                 | 0                 | 8   | 4      | 0                   | 0                    | 0                             | 16                | \$ 1,541.68  |
| 1.16 Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Consultants, and other interested project Stakeholders) | 0   | 0  | 0  | 8  | 4                        | 0                 | 4                 | 0   | 0      | 0                   | 0                    | 0                             | 16                | \$ 1,780.12  |
| 1.17 Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control                                 | 0   | 0  | 4  | 0  | 0                        | 0                 | 0                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 644.08    |
| 1.18 Reimbursable Expenses (Travel, Mailings and Reprographics)   | N/A   | N/A  | N/A  | N/A  | N/A                      | N/A               | N/A               | N/A                                       | N/A    | N/A                 | N/A                  | N/A                           | N/A               | \$ 150.00    |
| <b>CH2M HILL Phase 1 Total</b>  | 0   | 0  | 18   | 58   | 40                       | 0                 | 60                | 8   | 14     | 0                   | 0                    | 0                             | 198               | \$ 21,182.92 |
| <b>2.0 Design Development (Phase 2 - 30% Design)</b>  |   |  |  |  |                          |                   |                   |   |        |                     |                      |                               |                   |              |
| <b>Total</b>  | 0   | 0  | 14   | 41   | 40                       | 0                 | 90                | 4   | 8      | 0                   | 0                    | 2                             | 199               | \$ 20,357.44 |
| 2.01 Cover (1)  | 0   | 0  | 0  | 0  | 0                        | 0                 | 1                 | 0   | 0      | 0                   | 0                    | 0                             | 1                 | \$ 80.37     |
| 2.02 Drawing Index and Summary of Quantities (2)  | 0   | 0  | 0  | 0  | 2                        | 0                 | 2                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 373.18    |
| 2.03 General, Safety, and Security Notes (2)  | 0   | 0  | 0  | 0  | 2                        | 0                 | 2                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 373.18    |
| 2.04 Safety Plans (3)   | 0   | 0  | 0  | 2  | 2                        | 0                 | 6                 | 0   | 0      | 0                   | 0                    | 0                             | 10                | \$ 953.10    |
| 2.05 Survey Control Plans (3)   | 0   | 0  | 0  | 1  | 2                        | 0                 | 3                 | 0   | 0      | 0                   | 0                    | 0                             | 6                 | \$ 582.77    |
| 2.06 Overall Construction Staging, Storage and Haul Route Plans (3)   | 0   | 0  | 0  | 2  | 2                        | 0                 | 4                 | 0   | 0      | 0                   | 0                    | 0                             | 8                 | \$ 792.36    |
| 2.07 Construction Phasing and Sequencing Plans (3)  | 0   | 0  | 0  | 4  | 0                        | 0                 | 12                | 0   | 0      | 0                   | 0                    | 0                             | 16                | \$ 1,481.32  |
| 2.08 Maintenance of Traffic Plans (14)  | 0   | 0  | 0  | 4  | 8                        | 0                 | 20                | 0   | 0      | 0                   | 0                    | 0                             | 32                | \$ 2,974.04  |
| 2.09 Maintenance of Traffic Notes and Details (1)   | 0   | 0  | 0  | 0  | 2                        | 0                 | 4                 | 0   | 0      | 0                   | 0                    | 0                             | 6                 | \$ 533.92    |
| 2.10 Sheet Layout Plans (3)   | 0   | 0  | 0  | 0  | 2                        | 0                 | 2                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 373.18    |
| 2.11 Demolition, Paving and Geometry Plans (5)  | 0   | 0  | 0  | 0  | 4                        | 0                 | 8                 | 0   | 0      | 0                   | 0                    | 0                             | 12                | \$ 1,067.84  |
| 2.12 Typical Sections and Details (1)   | 0   | 0  | 0  | 0  | 2                        | 0                 | 2                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 373.18    |
| 2.13 Airfield Marking Plans (13)  | 0   | 0  | 0  | 4  | 4                        | 0                 | 16                | 0   | 0      | 0                   | 0                    | 0                             | 24                | \$ 2,227.68  |
| 2.14 Airfield Marking Details (3)   | 0   | 0  | 0  | 0  | 2                        | 0                 | 2                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 373.18    |
| 2.15 Project Schedule   | 0   | 0  | 0  | 2  | 0                        | 0                 | 0                 | 0   | 0      | 0                   | 2                    | 0                             | 4                 | \$ 539.96    |
| 2.16 Technical Specifications   | 0   | 0  | 0  | 8  | 4                        | 0                 | 0                 | 0   | 2      | 0                   | 0                    | 0                             | 14                | \$ 1,592.88  |
| 2.17 Engineer's Opinion of Probable Construction Cost Estimate  | 0   | 0  | 0  | 4  | 2                        | 0                 | 4                 | 0   | 0      | 0                   | 0                    | 0                             | 10                | \$ 1,050.80  |
| 2.18 Project Team Coordination Meeting (1)  | 0   | 0  | 2  | 2  | 0                        | 0                 | 2                 | 0   | 2      | 0                   | 0                    | 0                             | 8                 | \$ 875.46    |
| 2.19 Client Review Submittal Meeting, Agenda and Minutes (1)  | 0   | 0  | 2  | 4  | 0                        | 0                 | 0                 | 0   | 2      | 0                   | 0                    | 0                             | 8                 | \$ 973.16    |
| 2.20 Task Management  | 0   | 0  | 4  | 0  | 0                        | 0                 | 0                 | 4   | 2      | 0                   | 0                    | 0                             | 10                | \$ 1,092.88  |
| 2.21 Task Coordination (FAA, DOA Operations, other Consultants, and other interested project Stakeholders)        | 0   | 0  | 2  | 4  | 0                        | 0                 | 0                 | 0   | 0      | 0                   | 0                    | 0                             | 6                 | \$ 838.92    |
| 2.22 Task Independent Technical Review (ITR) - Quality Assurance / Quality Control                                | 0   | 0  | 4  | 0  | 0                        | 0                 | 0                 | 0   | 0      | 0                   | 0                    | 0                             | 4                 | \$ 644.08    |
| 2.23 Reimbursable Expenses (Travel, Mailings and Reprographics)   | N/A   | N/A  | N/A  | N/A  | N/A                      | N/A               | N/A               | N/A                                       | N/A    | N/A                 | N/A                  | N/A                           | N/A               | \$ 190.00    |
| <b>CH2M HILL Phase 2 Total</b>  | 0   | 0  | 14   | 41   | 40                       | 0                 | 90                | 4   | 8      | 0                   | 0                    | 2                             | 199               | \$ 20,357.44 |



| 3.0 Contract Documents (Phase 3A - 75% Design)  |   | Total    | 0        | 0         | 18        | 40        | 32       | 0         | 71       | 4         | 18       | 0        | 0        | 0        | 183        | \$        | 19,005.19        |
|---|---|----------|----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|----------|------------|-----------|------------------|
| 3.01  | Cover (1)   | 0        | 0        | 0         | 0         | 0         | 0        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 1          | \$        | 80.37            |
| 3.02  | Drawing Index and Summary of Quantities (2)   | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 3.03  | General, Safety, and Security Notes (2)   | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 3.04  | Safety Plans (3)  | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 6        | 0         | 0        | 0        | 0        | 0        | 8          | \$        | 894.66           |
| 3.05  | Survey Control Plans (3)  | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 3.06  | Overall Construction Staging, Storage and Haul Route Plans (3)  | 0        | 0        | 0         | 0         | 2         | 2        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 631.62           |
| 3.07  | Construction Phasing and Sequencing Plans (3)   | 0        | 0        | 0         | 0         | 4         | 0        | 0         | 12       | 0         | 0        | 0        | 0        | 0        | 16         | \$        | 1,481.32         |
| 3.08  | Maintenance of Traffic Plans (14)   | 0        | 0        | 0         | 0         | 4         | 8        | 0         | 14       | 0         | 0        | 0        | 0        | 0        | 26         | \$        | 2,491.62         |
| 3.09  | Maintenance of Traffic Notes and Details (1)  | 0        | 0        | 0         | 0         | 0         | 0        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 160.74           |
| 3.10  | Sheet Layout Plans (3)  | 0        | 0        | 0         | 0         | 0         | 0        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 160.74           |
| 3.11  | Demolition, Paving and Geometry Plans (5)   | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 4        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 533.92           |
| 3.12  | Typical Sections and Details (1)  | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 3.13  | Airfield Marking Plans (13)   | 0        | 0        | 0         | 0         | 4         | 4        | 0         | 16       | 0         | 0        | 0        | 0        | 0        | 24         | \$        | 2,227.68         |
| 3.14  | Airfield Marking Details (3)  | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 4        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 533.92           |
| 3.15  | Project Schedule  | 0        | 0        | 0         | 0         | 2         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 258.44           |
| 3.16  | Technical Specifications  | 0        | 0        | 0         | 0         | 4         | 2        | 0         | 0        | 0         | 2        | 0        | 0        | 0        | 8          | \$        | 863.56           |
| 3.17  | Engineer's Opinion of Probable Construction Cost Estimate   | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 4          | \$        | 373.18           |
| 3.18  | Front End Construction Contract Documents   | 0        | 0        | 4         | 12        | 4         | 0        | 0         | 0        | 0         | 10       | 0        | 0        | 0        | 30         | \$        | 3,290.80         |
| 3.19  | Project Team Coordination Meeting (1)   | 0        | 0        | 2         | 2         | 0         | 0        | 0         | 2        | 0         | 2        | 0        | 0        | 0        | 8          | \$        | 875.46           |
| 3.20  | Client Review Submittal Meeting, Agenda and Minutes (1)   | 0        | 0        | 2         | 4         | 0         | 0        | 0         | 0        | 0         | 2        | 0        | 0        | 0        | 8          | \$        | 973.16           |
| 3.21  | Task Management   | 0        | 0        | 4         | 0         | 0         | 0        | 0         | 0        | 4         | 2        | 0        | 0        | 0        | 10         | \$        | 1,092.88         |
|   | Task Coordination (FAA, DOA Operations, other Consultants, and other interested project Stakeholders) | 0        | 0        | 2         | 2         | 0         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 4          | \$        | 580.48           |
| 3.23  | Task Independent Technical Review (ITR) - Quality Assurance / Quality Control                         | 0        | 0        | 4         | 0         | 0         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 4          | \$        | 644.08           |
| 3.24  | Reimbursable Expenses (Travel, Mailings and Reprographics)  | N/A      | N/A      | N/A       | N/A       | N/A       | N/A      | N/A       | N/A      | N/A       | N/A      | N/A      | N/A      | N/A      | N/A        | \$        | 310.00           |
| <b>CH2M HILL Phase 3A Total</b>                 |   | <b>0</b> | <b>0</b> | <b>18</b> | <b>40</b> | <b>32</b> | <b>0</b> | <b>71</b> | <b>4</b> | <b>18</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>183</b> | <b>\$</b> | <b>19,005.19</b> |
| 4.0 Contract Documents (Phase 3B - 100% Design) |   | Total    | 0        | 0         | 16        | 36        | 32       | 0         | 71       | 4         | 16       | 0        | 0        | 0        | 175        | \$        | 18,092.03        |
| 4.01  | Cover (1)   | 0        | 0        | 0         | 0         | 0         | 0        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 1          | \$        | 80.37            |
| 4.02  | Drawing Index and Summary of Quantities (2)   | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 4.03  | General, Safety, and Security Notes (2)   | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 4.04  | Safety Plans (3)  | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 4        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 533.92           |
| 4.05  | Survey Control Plans (3)  | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 4.06  | Overall Construction Staging, Storage and Haul Route Plans (3)  | 0        | 0        | 0         | 0         | 2         | 2        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 631.62           |
| 4.07  | Construction Phasing and Sequencing Plans (3)   | 0        | 0        | 0         | 0         | 4         | 0        | 0         | 12       | 0         | 0        | 0        | 0        | 0        | 16         | \$        | 1,481.32         |
| 4.08  | Maintenance of Traffic Plans (14)   | 0        | 0        | 0         | 0         | 4         | 8        | 0         | 20       | 0         | 0        | 0        | 0        | 0        | 32         | \$        | 2,974.04         |
| 4.09  | Maintenance of Traffic Notes and Details (1)  | 0        | 0        | 0         | 0         | 2         | 2        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 631.62           |
| 4.10  | Sheet Layout Plans (3)  | 0        | 0        | 0         | 0         | 0         | 0        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 160.74           |
| 4.11  | Demolition, Paving and Geometry Plans (5)   | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 4        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 533.92           |
| 4.12  | Typical Sections and Details (1)  | 0        | 0        | 0         | 0         | 0         | 1        | 0         | 1        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 186.59           |
| 4.13  | Airfield Marking Plans (13)   | 0        | 0        | 0         | 0         | 2         | 4        | 0         | 12       | 0         | 0        | 0        | 0        | 0        | 18         | \$        | 1,647.76         |
| 4.14  | Airfield Marking Details (3)  | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 4        | 0         | 0        | 0        | 0        | 0        | 6          | \$        | 533.92           |
| 4.15  | Project Schedule  | 0        | 0        | 0         | 0         | 2         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 2          | \$        | 258.44           |
| 4.16  | Technical Specifications  | 0        | 0        | 0         | 0         | 4         | 2        | 0         | 0        | 0         | 2        | 0        | 0        | 0        | 8          | \$        | 863.56           |
| 4.17  | Engineer's Opinion of Probable Construction Cost Estimate   | 0        | 0        | 0         | 0         | 0         | 2        | 0         | 2        | 0         | 0        | 0        | 0        | 0        | 4          | \$        | 373.18           |
| 4.18  | Front End Construction Contract Documents   | 0        | 0        | 2         | 8         | 2         | 0        | 0         | 0        | 0         | 8        | 0        | 0        | 0        | 20         | \$        | 2,105.20         |
| 4.19  | Project Team Coordination Meeting (1)   | 0        | 0        | 2         | 2         | 0         | 0        | 0         | 2        | 0         | 2        | 0        | 0        | 0        | 8          | \$        | 875.46           |
| 4.20  | Client Review Submittal Meeting, Agenda and Minutes (1)   | 0        | 0        | 2         | 4         | 0         | 0        | 0         | 0        | 0         | 2        | 0        | 0        | 0        | 8          | \$        | 973.16           |
| 4.21  | Task Management   | 0        | 0        | 4         | 0         | 0         | 0        | 0         | 0        | 4         | 2        | 0        | 0        | 0        | 10         | \$        | 1,092.88         |
|   | Task Coordination (FAA, DOA Operations, other Consultants, and other interested project Stakeholders) | 0        | 0        | 2         | 2         | 0         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 4          | \$        | 580.48           |
| 4.23  | Task Independent Technical Review (ITR) - Quality Assurance / Quality Control                         | 0        | 0        | 4         | 0         | 0         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 4          | \$        | 644.08           |
| 4.24  | Reimbursable Expenses (Travel, Mailings and Reprographics)  | N/A      | N/A      | N/A       | N/A       | N/A       | N/A      | N/A       | N/A      | N/A       | N/A      | N/A      | N/A      | N/A      | N/A        | \$        | 370.00           |
| <b>CH2M HILL Phase 3B Total</b>                 |   | <b>0</b> | <b>0</b> | <b>16</b> | <b>36</b> | <b>32</b> | <b>0</b> | <b>71</b> | <b>4</b> | <b>16</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>175</b> | <b>\$</b> | <b>18,092.03</b> |

| 5.0 Bid and Award of Contract (Phase 4) |   | Total    | 0        | 0         | 0          | 16         | 2        | 0          | 6         | 6         | 27       | 0        | 0        | 0          | 66        | \$               | 8,535.44 |
|---|---|----------|----------|-----------|------------|------------|----------|------------|-----------|-----------|----------|----------|----------|------------|-----------|------------------|----------|
| 5.01                                    | Assist DOA in advertisement and processing of Bid Documents   | 0        | 0        | 0         | 2          | 0          | 0        | 0          | 0         | 0         | 2        | 0        | 0        | 0          | 4         | \$               | 392.88   |
| 5.02                                    | Print and Distribute a maximum of twenty (20) sets of Bidding Documents to prospective Bidders and Plan Offices (Central Florida Builders Exchange, McGraw-Hill Construction, Construction Journal, Reed Construction, and iSqFt / Construction Software Technology, Inc. Plan Rooms) | 0        | 0        | 0         | 4          | 0          | 0        | 0          | 0         | 0         | 4        | 0        | 0        | 0          | 8         | \$               | 785.36   |
| 5.03                                    | Processing of Bidders deposits (payment) associated with costs for Bid Documents  | 0        | 0        | 0         | 0          | 0          | 0        | 0          | 0         | 4         | 4        | 0        | 0        | 0          | 8         | \$               | 583.04   |
| 5.04                                    | Maintain a record of Plan Holders   | 0        | 0        | 0         | 0          | 0          | 0        | 0          | 0         | 4         | 0        | 0        | 0        | 4          | \$        | 268.48           |          |
| 5.05                                    | Attend a maximum of one (1) Pre-Bid Conference (Agenda and Meeting Minutes)   | 0        | 0        | 2         | 4          | 0          | 0        | 0          | 0         | 2         | 0        | 0        | 0        | 8          | \$        | 973.16           |          |
| 5.06                                    | Respond to Contractor Requests for Information (RFIs)   | 0        | 0        | 0         | 2          | 0          | 0        | 4          | 0         | 2         | 0        | 0        | 0        | 8          | \$        | 714.16           |          |
| 5.07                                    | Prepare and Issue a maximum of two (2) Addenda  | 0        | 0        | 2         | 0          | 0          | 0        | 2          | 0         | 4         | 0        | 0        | 0        | 8          | \$        | 687.66           |          |
| 5.08                                    | Attend a maximum of one (1) Bid Opening Meeting   | 0        | 0        | 2         | 0          | 0          | 0        | 0          | 0         | 0         | 0        | 0        | 0        | 2          | \$        | 322.04           |          |
| 5.09                                    | Review and Evaluate Bid Tabulation and Bid Forms  | 0        | 0        | 2         | 2          | 2          | 0        | 0          | 0         | 2         | 0        | 0        | 0        | 8          | \$        | 927.16           |          |
| 5.10                                    | Prepare a Recommendation of Award Letter  | 0        | 0        | 1         | 0          | 0          | 0        | 0          | 0         | 1         | 0        | 0        | 0        | 2          | \$        | 228.14           |          |
| 5.11                                    | Task Management   | 0        | 0        | 2         | 0          | 0          | 0        | 0          | 2         | 2         | 0        | 0        | 0        | 6          | \$        | 613.56           |          |
| 5.12                                    | Reimbursable Expenses (Travel, Mailings and Reprographics)  | N/A      | N/A      | N/A       | N/A        | N/A        | N/A      | N/A        | N/A       | N/A       | N/A      | N/A      | N/A      | N/A        | \$        | 2,040.00         |          |
| <b>CH2M HILL Phase 4 Total</b>          |   | <b>0</b> | <b>0</b> | <b>9</b>  | <b>16</b>  | <b>2</b>   | <b>0</b> | <b>6</b>   | <b>6</b>  | <b>27</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>66</b>  | <b>\$</b> | <b>8,535.44</b>  |          |
| <b>CH2M HILL Grand Total Fee</b>        |   | <b>0</b> | <b>0</b> | <b>75</b> | <b>191</b> | <b>146</b> | <b>0</b> | <b>298</b> | <b>26</b> | <b>83</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>821</b> | <b>\$</b> | <b>87,173.02</b> |          |

Subconsultant Fees

|   |             |
|---|-------------|
| Total Subconsultant Time & Materials Fee - Brown & Phillips, Inc. (Topographical Surveying) T&M         | \$5,930.00  |
| Total Subconsultant Time & Materials Fee - Tierra South Florida, Inc. (Geotechnical Investigations) T&M | \$7,715.00  |
| Total Subconsultant Lump Sum Fee - Hillers Electrical Engineering, Inc. (Airfield Electrical) LS        | \$34,445.00 |

**Subconsultant Grand Total \$48,090.00**

|   |                     |
|---|---------------------|
| <b>Total Fee - Engineering Services</b> | <b>\$135,263.02</b> |
| LS                                      | \$118,558.02        |
| T&M                                     | \$13,645.00         |
| Reimbursable Expenses                   | \$3,060.00          |
| Total                                   | \$135,263.02        |

Prepared by: CH2M HILL, INC.

# H E E

HILLERS ELECTRICAL ENGINEERING, INC.

April 23, 2014

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

Subject: Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TT 84/85: TASK I-14-DOA-C-023 (3) GA AIRPORTS RUNWAY(S) RE-DESIGNATION DESIGN AND BIDDING SERVICES. Design proposal is based on the required replacement / repaneling of all existing sign designations for runway(s) located on GA Airports F45, Lantana, and Pahokee per current FAA Advisory & Engineering Brief 89.

Dear Dan:


Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2MHILL (CH) an electrical design fee proposal for the DOA – (3) GA Airports Signage Re-Designations.

The following items are included in our scope:

- Includes all DOA, FAA and CH Design Team design coordination meetings.
- Includes on- site verifications for all (3) airports runway's sign re-designation replacements, electrical impacts on circuits and condition of existing sign structures and their electrical systems as well as availability / costs of replacement parts.
- Includes designing proposed signage plans reflecting installation details and layouts for all airfield signs replacements, panel replacements, new concrete foundations, cable & conduits systems, airfield vault electrical systems modifications and signage schedules.
- CH shall provide base plans to HEE on AutoCad-2013.
- HEE shall provide 1- electronic set of signage plans & specifications to CH for 30%, 75%, 100% reviews, bid phases to CH.
- CH shall provide all printing of plans & specifications to DOA.
- HEE shall provide all electrical specifications, electrical bid items and cost estimates on Word to CH.
- Includes Bid & Award.
- Does not include Construction Services.

|   |                  |
|---|------------------|
| Our proposed lump-sum fee for F45 airfield signage design is: | \$ 19,590        |
| Our proposed lump-sum fee for LNA airfield signage design is: | \$ 11,545.       |
| Our proposed lump-sum fee for PHK airfield signage design is: | <u>\$ 3,310.</u> |
| Grand Total   | \$ 34,445.       |

Sincerely,



Thomas Doran, Vice-President

| PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- DOA (3) GA Airports Runway's Signage Re-Designation Project |                   |                    |                    |                   |               |                   |            |          |                    |
|---|-------------------|--------------------|--------------------|-------------------|---------------|-------------------|------------|----------|--------------------|
| HILLERS ELECTRICAL ENGINEERING, INC.  |                   |                    |                    |                   |               |                   |            |          |                    |
| SCOPE FEE SUMMARY   |                   |                    |                    |                   |               |                   |            |          |                    |
| FEE PROPOSAL ELECTRICAL DESIGN to CH 4-14-14  |                   |                    |                    |                   |               |                   |            |          |                    |
| Rate  | \$130.00          | \$120.00           | \$105.00           | \$85.00           | \$105.00      | \$55.00           |            |          |                    |
|   | Proj. Mgr.        | Prof. Eng          | Proj. Eng          | CADD/Tech         | Field Eng.    | Clerical          | Total      |          | TOTAL              |
| PHASE OF WORK   | Hours             | Hours              | Hours              | Hours             | Hours         | Hours             | Hours      | Expenses | TASK COST          |
| <b>F45 Airport</b>  |                   |                    |                    |                   |               |                   |            |          |                    |
| Design Coordination Mtgs. DOA, FAA, CH  | 2                 | 8                  | 8                  |                   |               | 1                 | 19         |          | \$2,115.00         |
| On-Site Verifications / As-Built Reviews  |                   | 8                  | 16                 |                   |               | 2                 | 26         |          | \$2,750.00         |
| Design Plans 30%, 75%, 100%, Bid  | 2                 | 16                 | 40                 | 24                |               | 1                 | 83         |          | \$8,475.00         |
| Signage Schedules   |                   | 8                  | 8                  | 8                 |               | 1                 | 25         |          | \$2,535.00         |
| Installation Layouts & Details  |                   | 1                  | 4                  | 4                 |               | 1                 | 10         |          | \$935.00           |
| Specifications & Cost Estimates   | 2                 | 12                 | 4                  |                   |               | 12                | 30         |          | \$2,780.00         |
|   |                   |                    |                    |                   |               |                   | 0          |          | \$0.00             |
|   |                   |                    |                    |                   |               |                   | 0          |          | \$0.00             |
| <b>Subtotal</b>   | <b>6</b>          | <b>53</b>          | <b>80</b>          | <b>36</b>         | <b>0</b>      | <b>18</b>         | <b>193</b> |          | <b>\$19,590.00</b> |
| <b>Lantana Airport</b>  |                   |                    |                    |                   |               |                   |            |          |                    |
| Design Coordination Mtgs. DOA, FAA, CH  | 1                 | 4                  | 4                  |                   |               | 1                 | 10         |          | \$1,085.00         |
| On-Site Verifications / As-Built Reviews  |                   | 4                  | 8                  |                   |               | 1                 | 13         |          | \$1,375.00         |
| Design Plans 30%, 75%, 100%, Bid  | 2                 | 8                  | 16                 | 16                |               | 1                 | 43         |          | \$4,315.00         |
| Signage Schedules   |                   | 4                  | 8                  | 4                 |               | 1                 | 17         |          | \$1,715.00         |
| Installation Layouts & Details  |                   | 1                  | 2                  | 2                 |               | 1                 | 6          |          | \$555.00           |
| Specifications & Cost Estimates   | 2                 | 8                  | 8                  |                   |               | 8                 | 26         |          | \$2,500.00         |
| <b>Subtotal</b>   | <b>5</b>          | <b>29</b>          | <b>46</b>          | <b>22</b>         | <b>0</b>      | <b>13</b>         | <b>115</b> |          | <b>\$11,545.00</b> |
| <b>Pahokee Airport</b>  |                   |                    |                    |                   |               |                   |            |          |                    |
| Design Coordination Mtgs. DOA, FAA, CH  | 1                 | 2                  | 2                  |                   |               | 1                 | 6          |          | \$635.00           |
| Design Plans 30%, 75%, 100%, Bid  | 1                 | 4                  | 4                  | 4                 |               | 1                 | 14         |          | \$1,425.00         |
| Specifications & Cost Estimates   | 1                 | 4                  | 4                  |                   |               | 4                 | 13         |          | \$1,250.00         |
| <b>Subtotal</b>   | <b>3</b>          | <b>10</b>          | <b>10</b>          | <b>4</b>          | <b>0</b>      | <b>6</b>          | <b>33</b>  |          | <b>\$3,310.00</b>  |
|   |                   |                    |                    |                   |               |                   |            |          |                    |
| <b>Grand Total Hours</b>  | <b>14</b>         | <b>92</b>          | <b>136</b>         | <b>62</b>         | <b>0</b>      | <b>37</b>         | <b>308</b> |          |                    |
|   |                   |                    |                    |                   |               |                   |            |          |                    |
| <b>Grand Total Labor Cost</b>   | <b>\$1,820.00</b> | <b>\$11,040.00</b> | <b>\$14,280.00</b> | <b>\$5,270.00</b> | <b>\$0.00</b> | <b>\$2,035.00</b> |            |          | <b>\$34,445.00</b> |

April 24, 2014

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

**Re: Runway Signage and Marking Re-Designation Project at North County Airport (F45),  
Lantana Airport (LNA) and Pahokee (PHK) Airport - Control Survey for Runway End  
Coordinates**

Dear Mr. Tompkins:

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

**SCOPE OF SERVICES**

**I. CONTROL SURVEY FOR RUNWAY END COORDINATES**

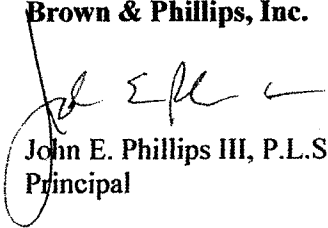
Utilizing the PACS and SACS at each airport, we will obtain the horizontal (x,y) and vertical (z) locations of each Runway End (6 locations at F45, 6 locations at LNA, and 2 locations at PHK). The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor.

**II. CLOSURE**

A drawing will be produced which will show all the locations. We propose to provide CH2M Hill with five (5) hard copies, an electronic file in ascii and AutoCAD in the version requested, and a copy of the survey field notes and calculations. Any additional work will be done on an hourly basis as approved by you. The proposed cost for this project is a **time and materials fee of \$5,930.00** (see Attachment 'A' for an hourly estimate). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

**Brown & Phillips, Inc.**

This Proposal accepted this \_\_\_\_ day of \_\_\_\_\_, 2014

  
John E. Phillips III, P.L.S.  
Principal

By: \_\_\_\_\_  
CH2M Hill, Inc.

Print Name: \_\_\_\_\_

Attachments

Title: \_\_\_\_\_

JEP/mb



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

Runway Signage and Marking Re-Designation Project at North County,  
 Lantana, and Pahoee Airports

Type of Survey: Topographic

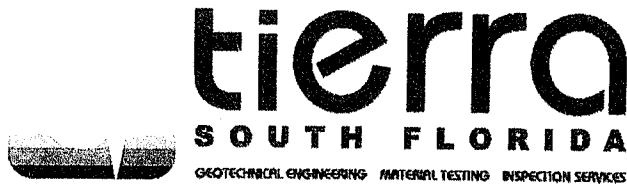
Size:

Date: April 24, 2014

| TASK   | 2 MAN<br>CREW | CADD<br>TECH | SURVEY<br>TECH | PLS        | COMMENTS   |
|--|---------------|--------------|----------------|------------|--|
| Meetings and Coordination                      |               |              |                |            |  |
| Runway End Coordinates<br>North County Airport | 8             |              | 4              | 2          | Obtain x,y,z of each runway end -<br>F45 (6 shots) using PACS & SACS |
| Runway End Coordinates<br>Lantana Airport      | 10            |              | 4              | 2          | Obtain x,y,z of each runway end -<br>LNA (6 shots) using PACS & SACS |
| Runway End Coordinates<br>Pahoee Airport       | 8             |              | 3              | 2          | Obtain x,y,z of each runway end -<br>PHK (2 shots) using PACS & SACS |
| Drawing  |               | 6            | 3              | 2          | Prepare control surveys  |
|  |               |              |                |            |  |
|  |               |              |                |            |  |
| <b>Total Hours:</b>                            | 26            | 6            | 14             | 8          |  |
| Rate/Hour                                      | \$125.00      | \$80.00      | \$80.00        | \$135.00   |  |
| Subtotal:                                      | \$3,250.00    | \$480.00     | \$1,120.00     | \$1,080.00 |  |
| <b>Total Labor Cost:</b>                       |               |              |                |            | <b>\$5,930.00</b>  |

| <b>Other Direct Costs:</b>       | <u>quantity</u> | <u>unit</u>   | <u>cost/unit</u> | <u>total</u>  |
|----------------------------------|-----------------|---------------|------------------|---------------|
| Legal Description & Sketch       |                 | each          | \$450.00         | \$0.00        |
| Prints                           |                 | sheet         | \$1.50           | \$0.00        |
| Shipping                         |                 | cost x markup | 1.20             | \$0.00        |
| Other                            |                 |               |                  | \$0.00        |
| <b>Total Other Direct Costs:</b> |                 |               |                  | <b>\$0.00</b> |

**TOTAL PRICE** **\$5,930.00**



April 25, 2014

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

Attention: Mr. Dan C. Tompkins, P.E.  
Project Manager

Re: **Proposal for Design Phase Geotechnical Services  
Runway Signage and Marking Re-Designation  
General Aviation Airports  
Palm Beach County, Florida  
TSF Proposal No.: 1404-217 Revised**

Dear Dan:

As requested, **Tierra South Florida, Inc. (TSF)** is pleased to submit this proposal for the above-referenced project. The proposal is based on e-mail from Mr. Dan Tompkins, P.E. of CH2M Hill, Inc. dated April 21, 2014.

We understand that pavement cores at North County, Lantana and Pahokee are needed to determine existing pavement sections within the limits of existing runway designations and help with the design of asphalt pavement mill and overlay.

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

#### **PROPOSED SCOPE OF WORK**

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194. As outlined in the above mentioned email, our scope of work will consist of:

- A maximum of ten (10) asphalt pavement cores (4 cores at F45, 4 cores at Lantana, and 2 cores at PHK) presented in table format denoting coring number, asphalt core thickness per layer, and photographs of each core documented;
- Coring Logs in AutoCAD format denoting coring number;
- Attending One (1) DOA Design Kick-Off Meeting; and

Test locations will be located in the field by CH2M Hill's following field services site visit.

---

2765 VISTA PARKWAY, SUITE 10 · WEST PALM BEACH, FLORIDA 33411  
(561) 687-8539 · FAX (561) 687-8570  
*State of Florida Professional Engineers License #28073*

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. We believe that some coordination will likely be required to perform the field operations. As we understand, all work will be conducted in the day time. Our field work will be performed by TSF personnel with a security badge. **It is our understanding that the work will be coordinated with CH2MHill and DOA.**

#### **ESTIMATED FEES**

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, our fee will be approximately **\$7,715.00.**

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

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

#### **SCHEDULE AND AUTHORIZATION**

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 3 days to complete. The written report can be submitted within two weeks after completion of the field exploration. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

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

Respectfully submitted,

**TIERRA SOUTH FLORIDA, INC.**

Francois Thomas, P.E.  
Principal Engineer

Attachments: 1. Fee Estimate



| <b>AUTHORIZED BY:</b> | <b>INVOICE TO:</b> |
|-----------------------|--------------------|
| <b>Name:</b>          | <b>Firm:</b>       |
| <b>Title:</b>         | <b>Name:</b>       |
| <b>Date:</b>          | <b>Address:</b>    |

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

**DAY RATES**

|   | Unit     | # of Units | Unit Price | Total           |
|---|----------|------------|------------|-----------------|
| <b>I. FIELD INVESTIGATION</b>                                     |          |            |            |                 |
| Mobilization of Men and Equipment                                 |          |            |            |                 |
| Truck-Mounted Equipment   | LS       | 3          | \$ 350.00  | \$ 1,050.00     |
| Specialized ATV/Mudbug  | Trip     | 0          | \$ 720.00  | \$ 0.00         |
| Support Vehicle   | Day      | 3          | \$ 150.00  | \$ 450.00       |
| Standard Penetration Test Borings<br>(By Truck-Mounted Equipment) |          |            |            |                 |
| Land: 0 - 50 ft depth   | L.F.     | 0          | \$ 12.00   | \$ 0.00         |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 14.00   | \$ 0.00         |
| Grout-Seal Boreholes<br>(By Truck-Mounted Equipment)              |          |            |            |                 |
| Land: 0 - 50 ft depth   | L.F.     | 0          | \$ 5.50    | \$ 0.00         |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 6.50    | \$ 0.00         |
| Double Ring Infiltration Test                                     | Test     | 0          | \$ 500.00  | \$ 0.00         |
| Field Permeability Tests  | Test     | 0          | \$ 275.00  | \$ 0.00         |
| Pavement Cores, Asphalt   | Each     | 10         | \$ 225.00  | \$ 2,250.00     |
| Coring Machine plus generator rental                              | Trip     | 3          | \$ 400.00  | \$ 1,200.00     |
| Field CBR   | Each     | 0          | \$ 300.00  | \$ 0.00         |
| MOT (If required)   | Each     | 0          | \$ 800.00  | \$ 0.00         |
| <b>II. LABORATORY TESTING</b>                                     |          |            |            |                 |
| Visual Examination/Stratify                                       | Per Hour | 5          | \$ 100.00  | \$ 500.00       |
| Natural Moisture Content Tests                                    | Test     | 0          | \$ 10.00   | \$ 0.00         |
| Grain-Size Analysis - Full Gradation                              | Test     | 0          | \$ 65.00   | \$ 0.00         |
| Grain-Size Analysis - Single Sieve                                | Test     | 0          | \$ 35.00   | \$ 0.00         |
| Organic Content Tests   | Test     | 0          | \$ 35.00   | \$ 0.00         |
| Atterberg Limit Tests   | Test     | 0          | \$ 75.00   | \$ 0.00         |
| Liquid Limit Tests (Only)   | Test     | 0          | \$ 52.00   | \$ 0.00         |
| Plastic Limit Tests (Only)  | Test     | 0          | \$ 33.50   | \$ 0.00         |
| Laboratory CBR + Sampling   | Test     | 0          | \$ 500.00  | \$ 0.00         |
| Grain-Size with Hydrometer  | Test     | 0          | \$ 115.00  | \$ 0.00         |
| Proctor Test a) Modified  | Test     | 0          | \$ 108.00  | \$ 0.00         |
| b) Standard   | Test     | 0          | \$ 102.00  | \$ 0.00         |
| Bitumen Extraction  | Test     | 0          | \$ 150.00  | \$ 0.00         |
| Bitumen Gradation   | Test     | 0          | \$ 150.00  | \$ 0.00         |
| FDOT Corrosion series   | Each     | 0          | \$ 185.00  | \$ 0.00         |
| <b>III. ENGINEERING/COORDINATION/MANAGEMENT</b>                   |          |            |            |                 |
| Project Manager   | Hour     | 1          | \$ 165.00  | \$ 165.00       |
| Principal Engineer  | Hour     | 0          | \$ 150.00  | \$ 0.00         |
| Senior Engineer   | Hour     | 2          | \$ 125.00  | \$ 250.00       |
| Project Engineer  | Hour     | 8          | \$ 100.00  | \$ 800.00       |
| Senior Technician   | Hour     | 12         | \$ 75.00   | \$ 900.00       |
| CADD  | Hour     | 2          | \$ 75.00   | \$ 150.00       |
|   |          |            | \$         | <b>7,715.00</b> |

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-PBI-C-024**  
**Palm Beach International Airport**  
**Terminal and Concourse Interior**  
**Expansion Joint Replacement**  
**Design, Bidding, and Construction**  
**Administration Services**

Table B-1

Labor/Fee Estimate Summary (CH2M Hill) - Palm Beach International Airport - Interior Expansion Joint Replacement

Billing Rate: \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 80.37 \$ 78.64 \$ 67.12

| Task Description  |   |  |  |                            |                          |                   |   |           |            |                     | Fee Estimate (\$) |                     |          |           |          |            |          |                     |                    |                     |
|---|---|--|--|----------------------------|--------------------------|-------------------|---|-----------|------------|---------------------|-------------------|---------------------|----------|-----------|----------|------------|----------|---------------------|--------------------|---------------------|
|   | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer / Planner | Staff Engineer / Planner | Design Technician | Graphics Support / Administrative Manager | Admin.    | Total      | Labor               | Expenses          | Total               |          |           |          |            |          |                     |                    |                     |
| <b>Task I-14-PBI-C-024 - PBI Interior Expansion Joint Replacement</b> |   |  |  |                            |                          |                   |   |           |            |                     |                   |                     |          |           |          |            |          |                     |                    |                     |
| <b>1.0 Task Management</b>  | <b>0</b>  | <b>0</b>                                     | <b>4</b>                                       | <b>0</b>                   | <b>24</b>                | <b>8</b>          | <b>0</b>                                  | <b>6</b>  | <b>42</b>  | <b>\$ 4,239.04</b>  | <b>\$ 25.00</b>   | <b>\$ 4,264.04</b>  |          |           |          |            |          |                     |                    |                     |
| 1.1 Task Management   | 0   | 0  | 2  | 0                          | 8                        | 0                 | 0   | 2         | 12         | \$ 1,306.04         | \$ -              | \$ 1,306.04         |          |           |          |            |          |                     |                    |                     |
| 1.2 Meetings (2), Conference Calls                                    | 0   | 0  | 0  | 0                          | 8                        | 0                 | 0   | 2         | 10         | \$ 984.00           | \$ 25.00          | \$ 1,009.00         |          |           |          |            |          |                     |                    |                     |
| 1.3 Task Coordination   | 0   | 0  | 2  | 0                          | 8                        | 8                 | 0   | 2         | 20         | \$ 1,949.00         | \$ -              | \$ 1,949.00         |          |           |          |            |          |                     |                    |                     |
| <b>2.0 Analysis, Research, Data Collection</b>                        | <b>0</b>  | <b>0</b>                                     | <b>0</b>                                       | <b>0</b>                   | <b>32</b>                | <b>0</b>          | <b>0</b>                                  | <b>4</b>  | <b>36</b>  | <b>\$ 3,667.52</b>  | <b>\$ -</b>       | <b>\$ 3,667.52</b>  |          |           |          |            |          |                     |                    |                     |
| 2.1 Existing Conditions   | 0   | 0  | 0  | 0                          | 16                       | 0                 | 0   | 0         | 16         | \$ 1,699.52         | \$ -              | \$ 1,699.52         |          |           |          |            |          |                     |                    |                     |
| 2.2 Research & Analysis   | 0   | 0  | 0  | 0                          | 16                       | 0                 | 0   | 4         | 20         | \$ 1,968.00         | \$ -              | \$ 1,968.00         |          |           |          |            |          |                     |                    |                     |
| <b>3.0 Cost Estimating</b>  | <b>0</b>  | <b>0</b>                                     | <b>6</b>                                       | <b>0</b>                   | <b>24</b>                | <b>0</b>          | <b>0</b>                                  | <b>0</b>  | <b>30</b>  | <b>\$ 3,515.40</b>  | <b>\$ -</b>       | <b>\$ 3,515.40</b>  |          |           |          |            |          |                     |                    |                     |
| 3.1 Preliminary Opinion of Probable Cost (ROM)                        | 0   | 0  | 2  | 0                          | 8                        | 0                 | 0   | 0         | 10         | \$ 1,171.80         | \$ -              | \$ 1,171.80         |          |           |          |            |          |                     |                    |                     |
| 3.2 Class 2 Cost Estimate (60%)                                       | 0   | 0  | 4  | 0                          | 16                       | 0                 | 0   | 0         | 20         | \$ 2,343.60         | \$ -              | \$ 2,343.60         |          |           |          |            |          |                     |                    |                     |
| <b>4.0 Drawings, Specifications, QA/QC</b>                            | <b>0</b>  | <b>16</b>                                    | <b>0</b>                                       | <b>8</b>                   | <b>72</b>                | <b>32</b>         | <b>8</b>                                  | <b>32</b> | <b>168</b> | <b>\$ 17,324.80</b> | <b>\$ 950.00</b>  | <b>\$ 18,274.80</b> |          |           |          |            |          |                     |                    |                     |
| 4.1 60% Drawings  | 0   | 0  | 0  | 2                          | 24                       | 16                | 0   | 4         | 46         | \$ 4,362.12         | \$ 300.00         | \$ 4,662.12         |          |           |          |            |          |                     |                    |                     |
| 4.2 60% Specifications  | 0   | 0  | 0  | 2                          | 12                       | 0                 | 4   | 12        | 30         | \$ 2,653.08         | \$ -              | \$ 2,653.08         |          |           |          |            |          |                     |                    |                     |
| 4.3 60% QA/QC   | 0   | 8  | 0  | 0                          | 0                        | 0                 | 0   | 0         | 8          | \$ 1,647.20         | \$ -              | \$ 1,647.20         |          |           |          |            |          |                     |                    |                     |
| 4.4 100% Drawings   | 0   | 0  | 0  | 2                          | 24                       | 16                | 0   | 0         | 42         | \$ 4,093.64         | \$ -              | \$ 4,093.64         |          |           |          |            |          |                     |                    |                     |
| 4.5 100% Specifications   | 0   | 0  | 0  | 2                          | 12                       | 0                 | 4   | 16        | 34         | \$ 2,921.56         | \$ 650.00         | \$ 3,571.56         |          |           |          |            |          |                     |                    |                     |
| 4.6 100% QA/QC  | 0   | 8  | 0  | 0                          | 0                        | 0                 | 0   | 0         | 8          | \$ 1,647.20         | \$ -              | \$ 1,647.20         |          |           |          |            |          |                     |                    |                     |
| <b>5.0 Bidding Assistance</b>   | <b>0</b>  | <b>0</b>                                     | <b>2</b>                                       | <b>2</b>                   | <b>4</b>                 | <b>4</b>          | <b>0</b>                                  | <b>4</b>  | <b>16</b>  | <b>\$ 1,595.32</b>  | <b>\$ 50.00</b>   | <b>\$ 1,645.32</b>  |          |           |          |            |          |                     |                    |                     |
| 5.1 Bidding Assistance  | 0   | 0  | 2  | 2                          | 4                        | 4                 | 0   | 4         | 16         | \$ 1,595.32         | \$ 50.00          | \$ 1,645.32         |          |           |          |            |          |                     |                    |                     |
| <b>6.0 Permitting Assistance</b>                                      | <b>0</b>  | <b>0</b>                                     | <b>2</b>                                       | <b>2</b>                   | <b>4</b>                 | <b>8</b>          | <b>0</b>                                  | <b>4</b>  | <b>20</b>  | <b>\$ 1,916.80</b>  | <b>\$ 50.00</b>   | <b>\$ 1,966.80</b>  |          |           |          |            |          |                     |                    |                     |
| 6.1 Permitting Assistance   | 0   | 0  | 2  | 2                          | 4                        | 8                 | 0   | 4         | 20         | \$ 1,916.80         | \$ 50.00          | \$ 1,966.80         |          |           |          |            |          |                     |                    |                     |
| <b>7.0 Construction Administration</b>                                | <b>0</b>  | <b>0</b>                                     | <b>0</b>                                       | <b>18</b>                  | <b>24</b>                | <b>8</b>          | <b>0</b>                                  | <b>4</b>  | <b>54</b>  | <b>\$ 5,786.68</b>  | <b>\$ 155.00</b>  | <b>\$ 5,941.68</b>  |          |           |          |            |          |                     |                    |                     |
| 7.1 Pre-Construction Conference                                       | 0   | 0  | 0  | 2                          | 0                        | 0                 | 0   | 0         | 2          | \$ 258.44           | \$ 15.00          | \$ 273.44           |          |           |          |            |          |                     |                    |                     |
| 7.2 Site Inspections (2)  | 0   | 0  | 0  | 8                          | 0                        | 0                 | 0   | 0         | 8          | \$ 1,033.76         | \$ 60.00          | \$ 1,093.76         |          |           |          |            |          |                     |                    |                     |
| 7.3 Shop Drawings, Submittals, RFIs                                   | 0   | 0  | 0  | 4                          | 16                       | 0                 | 0   | 4         | 24         | \$ 2,484.88         | \$ -              | \$ 2,484.88         |          |           |          |            |          |                     |                    |                     |
| 7.4 Substantial & Final Completion                                    | 0   | 0  | 0  | 4                          | 4                        | 0                 | 0   | 0         | 8          | \$ 941.76           | \$ 30.00          | \$ 971.76           |          |           |          |            |          |                     |                    |                     |
| 7.5 Record Drawings   | 0   | 0  | 0  | 0                          | 4                        | 8                 | 0   | 0         | 12         | \$ 1,067.84         | \$ 50.00          | \$ 1,117.84         |          |           |          |            |          |                     |                    |                     |
| <b>Total Fee - CH2M HILL, INC.</b>                                    | <b>0</b>  | <b>0</b>                                     | <b>16</b>                                      | <b>0</b>                   | <b>14</b>                | <b>0</b>          | <b>30</b>                                 | <b>0</b>  | <b>184</b> | <b>60</b>           | <b>0</b>          | <b>8</b>            | <b>0</b> | <b>54</b> | <b>0</b> | <b>366</b> | <b>0</b> | <b>\$ 38,045.56</b> | <b>\$ 1,230.00</b> | <b>\$ 39,275.56</b> |

|   |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |
|---|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|
| <b>Total Fee - PBI Interior Expansion Joint Replacement</b> | <b>\$ 39,275.56</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>\$ 39,275.56</b> |
| LS-CH2M HILL Labor  | \$ 38,045.56        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |
| Reimbursable Expenses-CH2M HILL                             | \$ 1,230.00         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |
| Total   | \$ 39,275.56        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |

Prepared by: CH2M HILL, INC.

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-DOA-C-025**

**Palm Beach County Department of Airports**  
**Palm Beach International Airport,**  
**North Palm Beach County General Aviation Airport, and**  
**Palm Beach County Glades Airport**  
**ADA Facility Compliance Assessment (Phase 2)**

**Exhibit B**

Labor/Fee Estimate Summary - ADA Facility Compliance Assessment - PBIA Long Term & Economy Parking, North County Airport, Pahokee Airport

|                      |           |           |           |           |           |           |          |          |          |          |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|
| <b>Billing Rate:</b> | \$ 250.97 | \$ 205.90 | \$ 161.02 | \$ 129.22 | \$ 106.22 | \$ 112.60 | \$ 80.37 | \$ 78.64 | \$ 90.12 | \$ 67.12 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|

| Task Description   | Labor Estimate (Hours)                          |  |  |  |                          |                     |                   |   |          |            |                   | Fee Estimate (\$) |                     |                      |
|--|---|--|--|--|--------------------------|---------------------|-------------------|---|----------|------------|-------------------|-------------------|---------------------|----------------------|
|  | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer / Planner / Associate Project Manager | Staff Engineer / Planner | Senior Technician   | Design Technician | Graphics Support / Administrative Manager | IT Tech  | Admin      | Total Labor Hours | Total Fee         |                     |                      |
| <b>PBC DOA Task No I-14-DOA-C-025 ADA Facility Compliance Assessment</b>         |   |  |  |  |                          |                     |                   |   |          |            |                   |                   |                     |                      |
| <b>A General</b>   | <b>Total</b>                                    | <b>0</b>                                     | <b>2</b>                                       | <b>14</b>  | <b>0</b>                 | <b>18</b>           | <b>0</b>          | <b>10</b>                                 | <b>6</b> | <b>0</b>   | <b>12</b>         | <b>62</b>         | <b>\$ 6,977.02</b>  |                      |
| 1.00 Project Start-up / Charter / Introductory Meeting                           |   | 0  | 2  | 4  | 0                        | 4                   | 0                 | 2   | 0        | 0          | 2                 | 14                | \$ 1,775.74         |                      |
| 2.00 Records Research & Data Collection  |   | 0  | 0  | 2  | 0                        | 10                  | 0                 | 8   | 0        | 0          | 8                 | 28                | \$ 2,564.16         |                      |
| 3.00 Task Management / Subconsultant Coordination                                |   | 0  | 0  | 8  | 0                        | 4                   | 0                 | 0   | 0        | 0          | 2                 | 20                | \$ 2,319.12         |                      |
| 4.00 Reimbursable Expenses (Travel, Mailings and Reprographics)                  |   | N/A  | N/A  | N/A  | N/A                      | N/A                 | N/A               | N/A                                       | N/A      | N/A        | N/A               | N/A               | \$ 318.00           |                      |
| <b>CH2M HILL General Total</b>   |   | <b>0</b>                                     | <b>2</b>                                       | <b>14</b>  | <b>0</b>                 | <b>18</b>           | <b>0</b>          | <b>10</b>                                 | <b>6</b> | <b>0</b>   | <b>12</b>         | <b>62</b>         | <b>\$ 6,977.02</b>  |                      |
| <b>B Palm Beach International Airport (PBIA) Long Term &amp; Economy Parking</b> | <b>Total</b>                                    | <b>6</b>                                     | <b>14</b>                                      | <b>16</b>  | <b>0</b>                 | <b>232</b>          | <b>0</b>          | <b>42</b>                                 | <b>0</b> | <b>36</b>  | <b>62</b>         | <b>408</b>        | <b>\$ 43,031.08</b> |                      |
| 1.00 Data Analysis / Organization & Template Customization                       |   | 0  | 0  | 0  | 0                        | 32                  | 0                 | 8   | 0        | 36         | 16                | 92                | \$ 8,360.24         |                      |
| 2.00 Field Survey PBIA Parking Structures - Long Term                            |   | 0  | 0  | 0  | 0                        | 24                  | 0                 | 0   | 0        | 0          | 0                 | 28                | \$ 2,870.76         |                      |
| 3.00 Field Survey PBIA Parking Economy Lot                                       |   | 0  | 0  | 0  | 0                        | 12                  | 0                 | 4   | 0        | 0          | 0                 | 16                | \$ 1,596.12         |                      |
| 4.00 Field Survey PBIA Roadway Signage   |   | 0  | 0  | 0  | 0                        | 12                  | 0                 | 4   | 0        | 0          | 0                 | 16                | \$ 1,596.12         |                      |
| 4.00 Field Survey PBIA Transportation Services                                   |   | 0  | 0  | 0  | 0                        | 16                  | 0                 | 4   | 0        | 0          | 0                 | 20                | \$ 2,021.00         |                      |
| 5.00 PBIA Parking Structures/Lot & Roadway Signage Draft Report                  |   | 2  | 4  | 4  | 0                        | 48                  | 0                 | 8   | 0        | 0          | 16                | 82                | \$ 8,785.06         |                      |
| 6.00 PBIA Parking Structures/Lot & Roadway Signage Cost Estimate                 |   | 2  | 4  | 4  | 0                        | 32                  | 0                 | 0   | 0        | 0          | 2                 | 44                | \$ 5,602.90         |                      |
| 7.00 Address Comments and resubmit to County for approval (one re-submittal)     |   | 0  | 2  | 4  | 0                        | 32                  | 0                 | 6   | 0        | 0          | 12                | 56                | \$ 5,742.58         |                      |
| 8.00 PBIA Parking Structures/Lot & Roadway Signage Final Report                  |   | 2  | 4  | 4  | 0                        | 24                  | 0                 | 4   | 0        | 0          | 16                | 54                | \$ 5,914.30         |                      |
| Reimbursable Expenses (Travel, Mailings and Reprographics)                       |   | N/A  | N/A  | N/A  | N/A                      | N/A                 | N/A               | N/A                                       | N/A      | N/A        | N/A               | N/A               | \$ 642.00           |                      |
| <b>CH2M HILL PBIA Total</b>  |   | <b>6</b>                                     | <b>14</b>                                      | <b>16</b>  | <b>0</b>                 | <b>232</b>          | <b>0</b>          | <b>42</b>                                 | <b>0</b> | <b>36</b>  | <b>62</b>         | <b>408</b>        | <b>\$ 43,031.08</b> |                      |
| <b>C North Palm Beach County General Aviation Airport (F45)</b>                  | <b>Total</b>                                    | <b>6</b>                                     | <b>14</b>                                      | <b>16</b>  | <b>0</b>                 | <b>138</b>          | <b>0</b>          | <b>24</b>                                 | <b>0</b> | <b>16</b>  | <b>54</b>         | <b>268</b>        | <b>\$ 29,161.38</b> |                      |
| 2.00 Data Analysis / Organization & Template Customization                       |   | 0  | 0  | 0  | 0                        | 10                  | 0                 | 8   | 0        | 16         | 8                 | 42                | \$ 3,684.04         |                      |
| 3.00 Field Survey North County Airport   |   | 0  | 0  | 0  | 0                        | 24                  | 0                 | 4   | 0        | 0          | 0                 | 28                | \$ 2,870.76         |                      |
| 4.00 North County Airport Draft Report   |   | 2  | 4  | 4  | 0                        | 40                  | 0                 | 4   | 0        | 0          | 16                | 70                | \$ 7,613.82         |                      |
| 5.00 North County Airport Cost Estimate  |   | 2  | 4  | 4  | 0                        | 24                  | 0                 | 0   | 0        | 0          | 2                 | 36                | \$ 4,653.14         |                      |
| 6.00 Address Comments and resubmit to County for approval (one re-submittal)     |   | 0  | 2  | 4  | 0                        | 24                  | 0                 | 4   | 0        | 0          | 12                | 46                | \$ 4,732.08         |                      |
| 7.00 North County Airport Final Report   |   | 2  | 4  | 4  | 0                        | 16                  | 0                 | 4   | 0        | 0          | 16                | 46                | \$ 5,064.54         |                      |
| Reimbursable Expenses (Travel, Mailings and Reprographics)                       |   | N/A  | N/A  | N/A  | N/A                      | N/A                 | N/A               | N/A                                       | N/A      | N/A        | N/A               | N/A               | \$ 543.00           |                      |
| <b>CH2M HILL F45 Total</b>   |   | <b>6</b>                                     | <b>14</b>                                      | <b>16</b>  | <b>0</b>                 | <b>138</b>          | <b>0</b>          | <b>24</b>                                 | <b>0</b> | <b>16</b>  | <b>54</b>         | <b>268</b>        | <b>\$ 29,161.38</b> |                      |
| <b>D Palm Beach County Glades (Pahokee) Airport (PHK)</b>                        | <b>Total</b>                                    | <b>6</b>                                     | <b>14</b>                                      | <b>16</b>  | <b>0</b>                 | <b>120</b>          | <b>0</b>          | <b>28</b>                                 | <b>0</b> | <b>12</b>  | <b>54</b>         | <b>250</b>        | <b>\$ 27,285.42</b> |                      |
| 1.00 Data Analysis / Organization & Template Customization                       |   | 0  | 0  | 0  | 0                        | 8                   | 0                 | 8   | 0        | 12         | 8                 | 36                | \$ 3,111.12         |                      |
| 2.00 Field Survey Pahokee Airport  |   | 0  | 0  | 0  | 0                        | 16                  | 0                 | 8   | 0        | 0          | 0                 | 24                | \$ 2,342.48         |                      |
| 3.00 Pahokee Airport Draft Report  |   | 2  | 4  | 4  | 0                        | 32                  | 0                 | 4   | 0        | 0          | 16                | 62                | \$ 6,764.06         |                      |
| 4.00 Pahokee Airport Cost Estimate   |   | 2  | 4  | 4  | 0                        | 24                  | 0                 | 4   | 0        | 0          | 2                 | 36                | \$ 4,653.14         |                      |
| 5.00 Address Comments and resubmit to County for approval (one re-submittal)     |   | 0  | 2  | 4  | 0                        | 24                  | 0                 | 4   | 0        | 0          | 12                | 46                | \$ 4,732.08         |                      |
| 6.00 Pahokee Airport Final Report  |   | 2  | 4  | 4  | 0                        | 16                  | 0                 | 4   | 0        | 0          | 16                | 46                | \$ 5,064.54         |                      |
| Reimbursable Expenses (Travel, Mailings and Reprographics)                       |   | N/A  | N/A  | N/A  | N/A                      | N/A                 | N/A               | N/A                                       | N/A      | N/A        | N/A               | N/A               | \$ 618.00           |                      |
| <b>CH2M HILL PHK Total</b>   |   | <b>6</b>                                     | <b>14</b>                                      | <b>16</b>  | <b>0</b>                 | <b>120</b>          | <b>0</b>          | <b>28</b>                                 | <b>0</b> | <b>12</b>  | <b>54</b>         | <b>250</b>        | <b>\$ 27,285.42</b> |                      |
| <b>CH2M HILL Grand Total Fee</b>   |   | <b>18</b>                                    | <b>0</b>                                       | <b>44</b>  | <b>0</b>                 | <b>62</b>           | <b>0</b>          | <b>0</b>                                  | <b>0</b> | <b>508</b> | <b>0</b>          | <b>0</b>          | <b>0</b>            | <b>\$ 106,454.90</b> |
| <b>Subconsultant Fees</b>  |   |  |  |  |                          |                     |                   |   |          |            |                   |                   |                     |                      |
| Total Subconsultant Time & Materials Fee - Larry M Schneider, AIA T&M            |   |  |  |  |                          | \$8,000.00          |                   |   |          |            |                   |                   |                     |                      |
| <b>Subconsultant Grand Total</b>   |   |  |  |  |                          | <b>\$8,000.00</b>   |                   |   |          |            |                   |                   |                     |                      |
| <b>Total Fee - Basic Engineering Services</b>                                    |   |  |  |  |                          | <b>\$114,454.90</b> |                   |   |          |            |                   |                   |                     |                      |
| LS   |   |  |  |  |                          | \$104,333.90        |                   |   |          |            |                   |                   |                     |                      |
| T&M  |   |  |  |  |                          | \$8,000.00          |                   |   |          |            |                   |                   |                     |                      |
| Reimbursable Expenses  |   |  |  |  |                          | \$2,121.00          |                   |   |          |            |                   |                   |                     |                      |
| <b>Total</b>   |   |  |  |  |                          | <b>\$114,454.90</b> |                   |   |          |            |                   |                   |                     |                      |

**LARRY  
M  
SCHNEIDER  
AIA**

Architect  
Accessibility  
Consultant

4905 Midtown Lane  
Suite 2313  
Palm Beach Gardens  
Florida  
33418

561.799.6942  
fax: 561.799.6943

EMail: Larry@LMSArch.net

May 8, 2014

Mr. Dan C. Tompkins, P.E.  
Sr. Project Manager  
SE Aviation Operations Leader  
CH2M HILL, INC.  
3001 PGA Blvd, Suite 300  
Palm Beach Gardens, FL 33410

**GENERAL ACCESSIBILITY CONSULTING SERVICES  
FOR CH2MHILL  
RE: PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
ADA FACILITY COMPLIANCE ASSESSMENTS - PHASE II  
PROJECT NO 12392.10**

Dear Mr. Thompkins:

This letter is to confirm the request of CH2MHILL for this firm to provide professional accessibility consulting services as it relates to providing assistance in reviewing/evaluating CH2MHill's reports regarding compliance with the applicable requirements of the ADA Accessibility Guidelines for Buildings and Facilities - September 10, 2010 and/or The Florida Accessibility Code for Building Construction regarding the Lantana Airport, the North County Airport, the Pahokee Airport, the Palm Beach International Airport (PBIA) and PBIA parking facilities and administrative building as well as a review of the County's proposed accessibility administrative requirements compliance plan.

**SCOPE OF SERVICES**

We have defined the scope of work as follows:

LARRY M. SCHNEIDER, AIA will provide professional accessibility consulting services by providing our opinions as it relates to compliance with the applicable requirements of Title II and/or Title III of the Americans with Disabilities Act, Public Law 101-336, 28 CFR Parts 35 and/or 36 - Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities and the requirements of the ADA Accessibility Guidelines for Buildings and Facilities - September 10, 2010 and/or The Florida Accessibility Code for Building Construction - 2012 regarding assistance in reviewing/evaluating CH2MHILL's accessibility facility surveys and preparation of reports regarding compliance of the North County Airport, the Pahokee Airport, and the Long-Term and Economy Parking facilities at PBIA along with their shuttle from Economy to the Terminal.

**PROFESSIONAL FEES**

Considering the scope of services as outlined above, we have estimated that we will provide assistance on an on call bases and/or as requested with the consideration of doing the accessibility survey of the Pahokee Airport and have estimated the time for these services to be thirty two (32) hours with an established not to exceed amount of Eight Thousand dollars

AR 7443

**LARRY  
M  
SCHNEIDER  
AIA**

Mr. Daniel C. Tompkins, PE  
General Accessibility Consulting Services  
For CH2MHILL  
re: Palm Beach County Department of Airports  
ADA Facility Compliance Assessments - Phase II  
Project No 12392.10  
May 8, 2014  
Page 2

(\$8,000.00). If we reach twenty six (26) hours we will notify of where we are as it relates to time expended and provide you with an estimate of proposed time required to complete our assigned and/or directed task. The time beyond the estimated 32 hours will be agreed to by both parties prior to proceeding. CH2MHILL will be invoiced per our firms standard hourly rates as identified below.

Any additional services shall be performed if authorized or confirmed in writing by CH2MHILL and they will be paid for as provided for in this agreement (see hourly fee schedule below).

- |                        |  |
|------------------------|--|
| ▶ Principal            | \$245.00 per hour for general accessibility consulting |
| ▶ Technical Staff      | \$150.00 per hour                                      |
| ▶ Administrative Staff | \$75.00 per hour                                       |

Direct project expenses are in addition to compensation for basic and additional services and include, but are not limited to, actual expenditures made by the Consultant and his staff in the interest of the project, as identified below and as further identified under Table B-3 of the base agreement between CH2MHILL and the Palm Beach County Department of Airports:

1. Expense of transportation by automobile at \$.51 per mile; out of Palm Beach County,
2. Expenses of meals pertaining to authorized/approved travel,
3. Expense of reproductions, postage, photography and handling of drawings, specifications and other documents,
4. Photocopies and FAXing at the invoiced rates by a third party.

Cost for these items will be at cost.

Payments on account of the Consultant's basic services, as well as any additional services and any direct project expenses, will be made within thirty days upon receipt by CH2MHILL of the Consultant's statement of services rendered and/or expenses incurred. If CH2MHILL has any questions regarding any statement submitted by us, CH2MHILL shall so advise us in writing and indicate the reasons within fourteen (14) days. If there are no concerns, the billing will be deemed correct and binding upon CH2MHILL.



**LARRY  
M  
SCHNEIDER  
AIA**

Mr. Daniel C. Tompkins, PE  
General Accessibility Consulting Services  
For CH2MHILL  
re: Palm Beach County Department of Airports  
ADA Facility Compliance Assessments - Phase II  
Project No 12392.10  
May 8, 2014  
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Payments due the Consultant will be made within 15 days after payment is received by CH2MHILL from the Palm Beach County Department of Airports. Payments unpaid under this agreement will bear interest after sixty (60) days from the date of receipt of the invoice by CH2MHILL at the rate of one and one-half percent (1.5%) per thirty (30) days. Fees which remain unpaid after ninety (90) days may be turned over to an attorney for collection. CH2MHILL hereby agrees to pay all costs, including, but not limited to attorney fees which are related to the litigation for nonpayment of the Consultant's fees in the event that such action becomes necessary.

It is understood and agreed to by CH2MHILL that the Consultant's total liability to CH2MHILL for any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this agreement from any cause or causes will be limited to a maximum of the net fee received by the Consultant, not including direct project expenses, for all services rendered on the project. Such causes include, but are not limited to the Consultants negligence, errors, omissions, strict liability, breach of contract or breach of warranty and as per CH2MHILL's section 2.5 of Attachment D - Subcontract for Professional Services Provision .

This agreement may be terminated by either party upon seven (7) days written notice should the other party fail substantially to perform in accordance with its terms through no fault of the party initiating the termination.

This agreement shall be governed by the laws of Florida and the venue for any proceedings shall take place in Palm Beach County, Florida.

This written agreement represents the entire and integrated agreement supersedes all prior negotiations or agreements, either written or oral. This agreement may be amended only by a written amendment executed by the parties.

With your concurrence of the above proposed compensation for professional services and scope of work, please return one signed and dated copy of this agreement to this office. Upon receipt we will incorporate your project into our scheduling. Should this document not be executed and returned to us, all parties acknowledge and agree that "authorization to proceed" through any other means constitutes formal acceptance of all terms and conditions herein. Acceptance by

**LARRY  
M  
SCHNEIDER  
AIA**

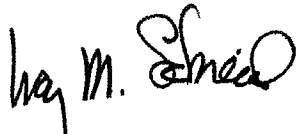
Mr. Daniel C. Tompkins, PE  
General Accessibility Consulting Services  
For CH2MHILL  
re: Palm Beach County Department of Airports  
ADA Facility Compliance Assessments - Phase II  
Project No 12392.10  
May 8, 2014  
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execution of this document constitutes an acknowledgment that the individual executing this document has the capacity and authority to consent to the terms of this agreement.

This agreement is deemed valid for a period of sixty (60) days from the date indicated on page one. After which time it shall become null and void if not executed within that time frame.

Upon review of this agreement, should you have any questions, please do not hesitate to contact this office. We look forward to providing you with these professional services and to a successful working relationship.

Sincerely,



Larry M. Schneider, AIA  
Principal  
LMS/lis

\_\_\_\_\_  
Approved  
(Please sign and return one copy)

\_\_\_\_\_  
Date

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-PBI-C-026**  
**Palm Beach International Airport**  
**Airfield Circuitry Master Plan Drawings Update**

Table B-1

Labor/Fee Estimate Summary (CH2M HILL) - Palm Beach International Airport - PBIA Airfield Circuitry Master Plan Update

Billing Rate: \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 80.37 \$ 78.64 \$ 67.12

| Task Description  |   |  |  |                  |                |                   |   |          |            | Fee Estimate (\$)   |                     |                     |                     |
|---|---|--|--|------------------|----------------|-------------------|---|----------|------------|---------------------|---------------------|---------------------|---------------------|
|   | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer | Staff Engineer | Design Technician | Graphics Support / Administrative Manager | Admin.   | Total      | Labor               | Expenses            | Total               |                     |
| <b>Task I-14-PBI-C-026 - PBIA Airfield Circuitry Master Plan Update</b> |   |  |  |                  |                |                   |   |          |            |                     |                     |                     |                     |
| <b>1.0 Task Management</b>  | <b>Total</b>                                    | <b>0</b>                                     | <b>4</b>                                       | <b>14</b>        | <b>24</b>      | <b>20</b>         | <b>32</b>                                 | <b>6</b> | <b>4</b>   | <b>104</b>          | <b>\$ 11,615.72</b> | <b>\$ 125.00</b>    | <b>\$ 11,740.72</b> |
| 1.1 Task Management   | 0   | 0  | 4  | 0                | 0              | 0                 | 4   | 2        | 10         | \$ 1,092.88         | \$ -                | \$ 1,092.88         |                     |
| 1.2 Subconsultant Coordination  | 0   | 0  | 4  | 8                | 0              | 0                 | 2   | 2        | 16         | \$ 1,969.36         | \$ -                | \$ 1,969.36         |                     |
| 1.3 Meetings (3)  | 0   | 0  | 2  | 4                | 0              | 0                 | 0   | 0        | 6          | \$ 838.92           | \$ 25.00            | \$ 863.92           |                     |
| 1.4 Record Research / Data Collection / Field Verification              | 0   | 0  | 0  | 8                | 8              | 8                 | 0   | 0        | 24         | \$ 2,526.48         | \$ -                | \$ 2,526.48         |                     |
| 1.5 Airfield Base Map Drawing Updates                                   | 0   | 0  | 0  | 4                | 12             | 24                | 0   | 0        | 40         | \$ 3,720.40         | \$ -                | \$ 3,720.40         |                     |
| 1.6 Independent Technical Review (ITR) QA/QC                            | 0   | 4  | 4  | 0                | 0              | 0                 | 0   | 0        | 8          | \$ 1,467.68         | \$ -                | \$ 1,467.68         |                     |
| 1.7 Lump Sum Expenses (Reprographics)                                   | N/A   | N/A  | N/A  | N/A              | N/A            | N/A               | N/A                                       | N/A      | N/A        | \$ -                | \$ 100.00           | \$ 100.00           |                     |
| <b>CH2M HILL Total Lump Sum Fee</b>                                     | <b>0</b>  | <b>4</b>                                     | <b>14</b>                                      | <b>24</b>        | <b>20</b>      | <b>32</b>         | <b>6</b>                                  | <b>4</b> | <b>104</b> | <b>\$ 11,615.72</b> | <b>\$ 125.00</b>    | <b>\$ 11,740.72</b> |                     |
| <b>Subconsultant Fees</b>   |   |  |  |                  |                |                   |   |          |            |                     |                     |                     |                     |
| Total Subconsultant Lump Sum Fee - Hillers                              | LS  | \$   | 18,915.00                                      |                  |                |                   |   |          |            |                     |                     |                     |                     |
| <b>Total Fee - PBIA Airfield Circuitry Master Plan Update</b>           | <b>\$</b>                                       | <b>30,655.72</b>                             |  |                  |                |                   |   |          |            |                     |                     |                     |                     |
| LS-CH2M HILL  | \$  | 11,740.72                                    |  |                  |                |                   |   |          |            |                     |                     |                     |                     |
| LS-Hillers  | \$  | 18,915.00                                    |  |                  |                |                   |   |          |            |                     |                     |                     |                     |

Prepared by: CH2M HILL, INC.



*HILLERS ELECTRICAL ENGINEERING, INC.*

April 24, 2014

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

Subject: Electrical Design Services Fee Proposal for the Palm Beach County  
Department of Airports (DOA) – TASK I-14-PBI-C-026 PBI AIRFIELD  
DOA MASTER ELECTRICAL CIRCUITRY & DOA / FAA POWER &  
FIBER-OPTIC CABLING SYSTEMS DUCT BANKS MASTER PLAN  
DRAWING UPDATES.

Dear Dan:

Hillers Electrical Engineering, Inc. (Hillers) is pleased to provide CH2M HILL (CH) an electrical design services fee proposal for the DOA PBI Airfield Master Electrical Circuitry / DOA-FAA Master Duct Bank Drawing Updates. The Airfield Master Electrical Circuit Plan Drawings shall be used by the DOA Electrical Maintenance Dept. and for FAA Dept. trouble shooting.

Note: The existing Master Electrical Circuitry Plan electronic documents were created in AutoCAD 2001 and the current DOA electronic as-built documents cannot be incorporated in the existing base files. This proposal is based on creating a new easier to modify / work with Master Circuitry Plan on AutoCAD 2013.

The scope of work consists of the following:

- Includes all design meetings with DOA Departments, FAA and CH.
- Includes all current DOA & FAA Record Drawings reviews.
- Includes on-site verifications for each Airfield Electrical Circuit for all runways, taxiways, RGL's, REIL's, LAHSO's, PAPI's, Wind Socks, ALCMS, Crash Phones system and FAA duct bank systems.
- Includes each DOA airfield circuit cabling being identified on Master Site Plan in a specific color riser diagram reflecting the complete routing for each circuit through airfield equipment, duct banks, manholes, airfield electrical vault, Building 846, ARFF Building and FAA ATC.
- Includes complete airfield FAA / DOA electrical & fiber optic cabling in duct bank & manhole systems.
- Master Electrical Plan shall be completed per DOA and FAA criteria and reviews.
- The HEE field verifications shall be completed with the assistance of the DOA Electrical Maintenance Department and FAA Dept. to insure the accuracy of the Airfield Master Electrical Circuit Plan / DOA/ FAA duct bank & manhole systems.
- Includes DOA & FAA Airfield Master Plans Draft & Final reviews by DOA & FAA.

Mr. Dan Tompkins, P.E.

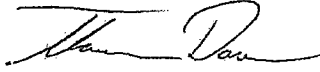
Electrical Engineering Services Proposal for the PBC DOA Master Electrical Circuitry & FAA Duct Bank Systems Plan.

- HEE shall provide Master Airfield Plans CH on AutoCAD 2014.
- CH shall provide final Master Plans on AutoCAD 2014 to DOA.

Our proposed lump-sum design fee is: \$ 18,915.

Sincerely,

(See attachment)

A handwritten signature in cursive script, appearing to read "Thomas Doran".

Thomas Doran, Vice-President



**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-LNA-C-027**  
**Palm Beach County Park Airport**  
**Airport Redevelopment – Phase 2**  
**Hangar, Apron, Taxilane and Access Driveway**  
**Design and Bidding Services**









|         |   |     |     |     |     |     |     |     |     |     |     |          |          |    |    |          |          |
|---------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----|----|----------|----------|
| 3.34.04 | Architectural General Notes   | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 2   | \$       | 212.44   | \$ | -  | \$       | 212.44   |
| 3.34.05 | Life Safety Plan & Building Code Data                                       | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 2   | \$       | 212.44   | \$ | -  | \$       | 212.44   |
| 3.34.06 | Floor & Roof Plans  | 0   | 0   | 0   | 0   | 3   | 0   | 0   | 6   | 0   | 9   | \$       | 800.88   | \$ | -  | \$       | 800.88   |
| 3.34.07 | Building Elevations   | 0   | 0   | 0   | 0   | 3   | 0   | 0   | 6   | 0   | 9   | \$       | 800.88   | \$ | -  | \$       | 800.88   |
| 3.34.08 | Building Sections   | 0   | 0   | 0   | 0   | 3   | 0   | 0   | 6   | 0   | 9   | \$       | 800.88   | \$ | -  | \$       | 800.88   |
| 3.34.09 | Architectural Details   | 0   | 0   | 0   | 0   | 3   | 0   | 0   | 6   | 0   | 9   | \$       | 800.88   | \$ | -  | \$       | 800.88   |
| 3.34.10 | Structural General Notes  | 0   | 0   | 0   | 2   | 0   | 0   | 2   | 0   | 0   | 4   | \$       | 419.18   | \$ | -  | \$       | 419.18   |
| 3.34.11 | Structural Foundation Plans   | 0   | 0   | 0   | 4   | 0   | 0   | 4   | 0   | 0   | 8   | \$       | 838.36   | \$ | -  | \$       | 838.36   |
| 3.34.12 | Structural Framing Plans  | 0   | 0   | 0   | 4   | 4   | 0   | 4   | 0   | 0   | 12  | \$       | 1,263.24 | \$ | -  | \$       | 1,263.24 |
| 3.34.13 | Structural Details  | 0   | 0   | 0   | 4   | 4   | 0   | 8   | 0   | 0   | 16  | \$       | 1,584.72 | \$ | -  | \$       | 1,584.72 |
| 3.34.14 | Mechanical General Notes  | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 2   | \$       | 212.44   | \$ | -  | \$       | 212.44   |
| 3.34.15 | Mechanical Plans  | 0   | 0   | 0   | 2   | 4   | 0   | 4   | 0   | 0   | 10  | \$       | 1,004.80 | \$ | -  | \$       | 1,004.80 |
| 3.34.16 | Mechanical Details and Schedules  | 0   | 0   | 0   | 4   | 4   | 0   | 4   | 0   | 0   | 12  | \$       | 1,263.24 | \$ | -  | \$       | 1,263.24 |
| 3.34.17 | Fire Protection General Notes   | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 2   | \$       | 212.44   | \$ | -  | \$       | 212.44   |
| 3.34.18 | Fire Protection Plans   | 0   | 0   | 0   | 2   | 4   | 0   | 4   | 0   | 0   | 10  | \$       | 1,004.80 | \$ | -  | \$       | 1,004.80 |
| 3.34.19 | Fire Protection Details   | 0   | 0   | 0   | 4   | 4   | 0   | 4   | 0   | 0   | 12  | \$       | 1,263.24 | \$ | -  | \$       | 1,263.24 |
| 3.34.20 | Plumbing General Notes  | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 2   | \$       | 212.44   | \$ | -  | \$       | 212.44   |
| 3.34.21 | Plumbing Plans, Riser Diagram   | 0   | 0   | 0   | 2   | 4   | 0   | 4   | 0   | 0   | 10  | \$       | 1,004.80 | \$ | -  | \$       | 1,004.80 |
| 3.34.22 | Plumbing Details and Schedules  | 0   | 0   | 0   | 4   | 4   | 0   | 4   | 0   | 0   | 12  | \$       | 1,263.24 | \$ | -  | \$       | 1,263.24 |
| 3.35    | 100% Final Drawings (Part B)  |     |     |     |     |     |     |     |     |     |     |          |          |    |    |          |          |
| 3.35.01 | Access Driveway Paving and Geometry Plans                                   | 0   | 0   | 0   | 2   | 2   | 0   | 4   | 0   | 0   | 8   | \$       | 792.36   | \$ | -  | \$       | 792.36   |
| 3.35.02 | Access Driveway Marking and Signage Plans                                   | 0   | 0   | 0   | 2   | 0   | 0   | 2   | 0   | 0   | 4   | \$       | 419.18   | \$ | -  | \$       | 419.18   |
| 3.35.03 | Access Driveway Marking and Signage Details                                 | 0   | 0   | 0   | 2   | 0   | 0   | 2   | 0   | 0   | 4   | \$       | 419.18   | \$ | -  | \$       | 419.18   |
| 3.36    | 100% Technical Specifications   | 0   | 0   | 2   | 16  | 8   | 0   | 2   | 8   | 36  | \$  | 3,933.56 | \$       | -  | \$ | 3,933.56 |          |
| 3.37    | Final Project Schedule  | 0   | 0   | 2   | 2   | 0   | 0   | 0   | 0   | 0   | 4   | \$       | 580.48   | \$ | -  | \$       | 580.48   |
| 3.38    | Final Project Manual (Front Ends and FAA General Provisions), Div 0 & Div 1 | 0   | 0   | 2   | 2   | 4   | 0   | 2   | 8   | 18  | \$  | 1,699.60 | \$       | -  | \$ | 1,699.60 |          |
| 3.39    | Final Engineer's Opinion of probable Construction Cost Estimate             | 0   | 4   | 4   | 8   | 8   | 0   | 0   | 4   | 28  | \$  | 3,619.68 | \$       | -  | \$ | 3,619.68 |          |
| 3.40    | Task Management   | 0   | 0   | 12  | 0   | 0   | 0   | 12  | 8   | 32  | \$  | 3,412.88 | \$       | -  | \$ | 3,412.88 |          |
| 3.41    | Task Coordination   | 0   | 0   | 4   | 10  | 8   | 0   | 8   | 4   | 2   | 36  | \$       | 3,877.80 | \$ | -  | \$       | 3,877.80 |
| 3.42    | 100% Task Independent Technical Review - QA/QC                              | 0   | 8   | 8   | 0   | 0   | 0   | 0   | 0   | 16  | \$  | 2,935.36 | \$       | -  | \$ | 2,935.36 |          |
| 3.43    | Reimbursable Expenses (Travel, Mailing, Reprographics)                      | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A      | \$600.00 | \$ | -  | \$       | 600.00   |

**4.0 Bid & Award (Design Submittal Phase 4)**

|         |   |     |     |     |     |     |     |     |     |     |     |          |            |    |    |          |          |
|---------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|------------|----|----|----------|----------|
| 4.01    | Meeting, Agenda and Minutes   |     |     |     |     |     |     |     |     |     |     |          |            |    |    |          |          |
| 4.01.01 | Pre-Bid Meeting (1)   | 0   | 0   | 2   | 4   | 0   | 0   | 0   | 0   | 4   | 10  | \$       | 1,107.40   | \$ | -  | \$       | 1,107.40 |
| 4.01.02 | Bid Opening Meeting (1)   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 2   | 4   | \$       | 456.28     | \$ | -  | \$       | 456.28   |
| 4.02    | Prepare and assemble bid documents (max 35 sets), Plan Holders List | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 2   | 8   | 12  | \$       | 952.68     | \$ | -  | \$       | 952.68   |
| 4.03    | Advertisement and Bidding Assistance                                | 0   | 0   | 2   | 2   | 0   | 0   | 0   | 0   | 8   | 12  | \$       | 1,117.44   | \$ | -  | \$       | 1,117.44 |
| 4.04    | Addenda (max 4) and RFIs  | 0   | 0   | 2   | 16  | 8   | 0   | 4   | 8   | 38  | \$  | 4,097.76 | \$         | -  | \$ | 4,097.76 |          |
| 4.05    | Bid/Proposal evaluation assistance, Bid Tabulation Sheet            | 0   | 0   | 2   | 8   | 4   | 0   | 0   | 2   | 4   | 20  | \$       | 2,206.44   | \$ | -  | \$       | 2,206.44 |
| 4.06    | Prepare Recommendation to Award Letter                              | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 2   | 4   | \$  | 479.32   | \$         | -  | \$ | 479.32   |          |
| 4.07    | Reimbursable Expenses (Travel, Mailing, Reprographics)              | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A      | \$3,680.00 | \$ | -  | \$       | 3,680.00 |

**Total Lump Sum Fee - CH2M HILL, INC.**

|  | PART A | PART B       | REIMB EXPENSES | TOTAL       |              |
|--|--------|--------------|----------------|-------------|--------------|
| Total Subconsultant Fee - Big Sky Incorporated                 | LS     | \$ 10,186.00 | \$ 4,357.00    | Included    | \$ 14,523.00 |
| Total Subconsultant Fee - Brown & Phillips                     | T&M    | \$ 6,130.00  | \$ 2,427.50    | Included    | \$ 8,557.50  |
| Total Subconsultant Fee - F.R.Aleman & Assoc. Inc.             | T&M    | \$ 4,602.00  | \$ 1,972.11    | Included    | \$ 6,574.11  |
| Total Subconsultant Fee - Tierra South Florida, Inc.           | T&M    | \$ 9,489.00  | \$ 4,296.00    | Included    | \$ 13,785.00 |
| Total Subconsultant Fee - ADA                                  | LS     | \$ 28,133.00 | \$ 12,057.00   | \$ 1,060.00 | \$ 41,250.00 |
| Total Subconsultant Fee - Hillers Electrical Engineering, Inc. | LS     | \$ 46,364.00 | \$ 19,871.00   | Included    | \$ 66,235.00 |

|                                   |    |                   |    |                  |    |                 |    |                   |
|-----------------------------------|----|-------------------|----|------------------|----|-----------------|----|-------------------|
| <b>Total Fee - Subconsultants</b> | \$ | <b>104,884.00</b> | \$ | <b>44,980.61</b> | \$ | <b>1,060.00</b> | \$ | <b>150,924.61</b> |
| Total Fee - CH2M HILL, INC.       | \$ | 279,012.32        | \$ | 31,669.46        | \$ | 6,310.00        | \$ | 316,991.78        |

**Total Fee - LNA Southside Redevelopment Program Phase 2**

|                       |    |            |
|-----------------------|----|------------|
| LS                    | \$ | 431,629.78 |
| T&M                   | \$ | 28,916.61  |
| Reimbursable Expenses | \$ | 7,370.00   |
| Total                 | \$ | 467,916.39 |

Prepared by: CH2M HILL, INC.



## PROPOSAL LETTER

Revised: May 9, 2014

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

**SUBJECT: Palm Beach County Park (Lantana) Airport  
Airport Redevelopment, Phase 2: Part B - West Entrance  
Planning, Programming, Design, Permitting and Bidding Services**

Dear Mr. Tompkins:

The following scope of work and contract terms are proposed by Big Sky Incorporated to provide consulting services for the above referenced project. This proposal includes services to address security systems need in support of the bulk fuel farm to be provided under Phase 2 of the Development Program.

**Overview** The purpose of the work is to develop bid documents and perform bid and award services for the subject Phase 2 design. Submittals include Concept (15%), 30%, 60%, 90%, 100%, and Bid Documents, Technical Specifications and Engineer's Opinion of Probable Construction Cost Estimate.

**Scope of Work :** The work shall include the following:

### Preliminary Design

- Review documentation.
- Preliminary correspondence (via conference calls) with DOA/Owner's Representatives.
- Determine automated gate locations, access control devices, video surveillance requirements, and location of headend equipment.

### 30% Design

- Produce reference sheet, site plans, gate layout plan, and block diagrams.
- Prepare a 30% outline specifications.
- Coordinate with Electrical Designer and Design Team.
- Deliverables: 30% Design drawings and outline specifications.

### 60% Design

- Precede with the preparation of 60% level contract documents incorporating Owner review comments from the 30% Design Package.
- Update reference sheet, site plans and block diagrams.
- Produce gate layout plan, equipment room layout drawings, risers, interconnect diagrams, network detail drawings, gate details, camera details, and schedules.
- Prepare a 60% draft of technical specifications including but not limited to; description of security work, access control system, video surveillance system, network equipment requirements, and gate/gate operator.
- Coordinate with Electrical Designer and Design Team.
- Deliverables: 60% Design drawings, technical specifications and Engineer's opinion of probable construction cost estimate.
- Meetings: Attend 60% design review meeting with the Owner.

### 90% Design

- Proceed with the preparation of 90% level contract documents incorporating Owner review comments from the 60% contract documents.
- The following drawings will be updated:
  - a. Reference sheet
  - b. Site Plan
  - c. Gate layout plan
  - d. Access control and video surveillance block diagrams
  - e. Network block diagrams
  - f. Risers
  - g. Interconnect diagrams
  - h. Network detail drawings
  - i. Camera detail drawings
  - j. Schedules
- Coordinate with Electrical Designer and Design team.
- Provide input for anticipated Construction Schedule.
- Deliverables: Big Sky will submit 90% contract documents to the Owner for review.

### 100% Design

- Once comments are received from the Owner, Big Sky will proceed with finalizing the project and submit signed and sealed Plans and Specifications to the Owner.

### Bidding & Award

- Big Sky will respond to bidder's questions.
- Assist with bid evaluation and award.

Fee

The contract will be a lump sum fee of **\$14,523** for the proposed work. All expenses are included in the fee. A basis of estimate is attached for your use.

Please return with signature.

Respectfully submitted,



Michael T. Williams  
VP of Operations

Approved by: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Palm Beach County Park (Lantana) Airport Redevelopment  
Planning, Programming, Design, Permitting and Bidding Services**

Labor/Fee Estimate Summary (Big Sky) - LNA Security Design Services: Phase 2  
Date: 5/9/2014

**Billing Rate:** \$ 249.58 \$ 208.89 \$ 123.10 \$ 82.78 \$ 76.74

| Task Description   | Labor Estimate (Hours)                |                         |              |              |                                       |           | Fee Estimate (\$) |                 |               |                 |
|--|---------------------------------------|-------------------------|--------------|--------------|---------------------------------------|-----------|-------------------|-----------------|---------------|-----------------|
|  | Program Manager / Sr. Project Manager | Senior Network Engineer | Engineer III | CADD Drafter | Technician I - Contract Administrator | Total     | Labor             | Expenses        | Total         |                 |
| <b>1.0 Preliminary Design</b>                                  | <b>Total</b>                          | <b>4</b>                | <b>0</b>     | <b>2</b>     | <b>1</b>                              | <b>0</b>  | <b>7</b>          | <b>\$ 1,323</b> | <b>\$ -</b>   | <b>\$ 1,323</b> |
| 1.1 Review Documentation                                       | 1                                     | 0                       | 1            | 0            | 0                                     | 0         | 2                 | \$ 372          | \$ -          | \$ 372          |
| 1.2 Kickoff Meeting  | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 1.3 Coordinate with Design Team                                | 1                                     | 0                       | 0            | 0            | 0                                     | 0         | 1                 | \$ 249          | \$ -          | \$ 249          |
| 1.4 Site Survey  | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 1.5 Determine Gate Locations and Equipment                     | 2                                     | 0                       | 1            | 1            | 0                                     | 0         | 4                 | \$ 703          | \$ -          | \$ 703          |
| <b>2.0 Design Development (30% Design)</b>                     | <b>Total</b>                          | <b>3</b>                | <b>0</b>     | <b>10</b>    | <b>9</b>                              | <b>0</b>  | <b>22</b>         | <b>\$ 2,722</b> | <b>\$ -</b>   | <b>\$ 2,722</b> |
| 2.01 Reference Sheet   | 0                                     | 0                       | 1            | 1            | 0                                     | 0         | 2                 | \$ 206          | \$ -          | \$ 206          |
| 2.02 Site Plan   | 0                                     | 0                       | 1            | 2            | 0                                     | 0         | 3                 | \$ 289          | \$ -          | \$ 289          |
| 2.03 Typical Layout Plans                                      | 1                                     | 0                       | 2            | 2            | 0                                     | 0         | 5                 | \$ 660          | \$ -          | \$ 660          |
| 2.04 Block Diagrams  | 0                                     | 0                       | 1            | 2            | 0                                     | 0         | 3                 | \$ 289          | \$ -          | \$ 289          |
| 2.05 Outline Specifications                                    | 0                                     | 0                       | 1            | 0            | 0                                     | 0         | 1                 | \$ 123          | \$ -          | \$ 123          |
| 2.06 Coordinate with Design Team                               | 0                                     | 0                       | 2            | 0            | 0                                     | 0         | 2                 | \$ 246          | \$ -          | \$ 246          |
| 2.07 DOA Submittal - 30 % Design Package                       | 1                                     | 0                       | 2            | 2            | 0                                     | 0         | 5                 | \$ 660          | \$ -          | \$ 660          |
| 2.08 DOA Meeting - 30 % Design Review                          | 1                                     | 0                       | 0            | 0            | 0                                     | 0         | 1                 | \$ 249          | \$ -          | \$ 249          |
| <b>3.0 Contract Documents (60% Design)</b>                     | <b>Total</b>                          | <b>12</b>               | <b>0</b>     | <b>16</b>    | <b>10</b>                             | <b>0</b>  | <b>38</b>         | <b>\$ 5,780</b> | <b>\$ 650</b> | <b>\$ 6,430</b> |
| 3.01 Updated Reference Sheet                                   | 0                                     | 0                       | 1            | 0            | 0                                     | 0         | 1                 | \$ 123          | \$ -          | \$ 123          |
| 3.02 Updated Site Plan   | 0                                     | 0                       | 1            | 0            | 0                                     | 0         | 1                 | \$ 123          | \$ -          | \$ 123          |
| 3.03 Updated Layout Plans                                      | 1                                     | 0                       | 1            | 2            | 0                                     | 0         | 4                 | \$ 537          | \$ -          | \$ 537          |
| 3.04 Updated Block Diagrams                                    | 0                                     | 0                       | 1            | 1            | 0                                     | 0         | 2                 | \$ 206          | \$ -          | \$ 206          |
| 3.05 Riser Diagrams  | 0                                     | 0                       | 1            | 0            | 0                                     | 0         | 1                 | \$ 123          | \$ -          | \$ 123          |
| 3.06 Interconnect Diagrams                                     | 0                                     | 0                       | 1            | 1            | 0                                     | 0         | 2                 | \$ 206          | \$ -          | \$ 206          |
| 3.07 Equipment Room Layouts                                    | 0                                     | 0                       | 0            | 1            | 0                                     | 0         | 1                 | \$ 83           | \$ -          | \$ 83           |
| 3.08 Camera Schedules  | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 3.09 Details, Elevations & Sections                            | 1                                     | 0                       | 1            | 1            | 0                                     | 0         | 3                 | \$ 454          | \$ -          | \$ 454          |
| 3.10 Draft Technical Specifications                            | 0                                     | 0                       | 3            | 0            | 0                                     | 0         | 3                 | \$ 369          | \$ -          | \$ 369          |
| 3.11 Engineer's Opinion of Probable Construction Cost Estimate | 1                                     | 0                       | 1            | 0            | 0                                     | 0         | 2                 | \$ 372          | \$ -          | \$ 372          |
| 3.12 Coordinate with Design Team                               | 0                                     | 0                       | 1            | 0            | 0                                     | 0         | 1                 | \$ 123          | \$ -          | \$ 123          |
| 3.13 DOA Submittal - 60 % Design Package                       | 1                                     | 0                       | 4            | 4            | 0                                     | 0         | 9                 | \$ 1,072        | \$ -          | \$ 1,072        |
| 3.14 DOA Meeting - 60 % Design Review                          | 8                                     | 0                       | 0            | 0            | 0                                     | 0         | 8                 | \$ 1,989        | \$ 650        | \$ 2,639        |
| <b>4.0 Contract Documents (90% Design)</b>                     | <b>Total</b>                          | <b>6</b>                | <b>0</b>     | <b>6</b>     | <b>6</b>                              | <b>0</b>  | <b>20</b>         | <b>\$ 2,973</b> | <b>\$ -</b>   | <b>\$ 2,973</b> |
| 4.1 Pre-final Plans from Previous Submittals                   | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 4.2 Complete Sections and Details                              | 0                                     | 0                       | 1            | 2            | 0                                     | 0         | 3                 | \$ 289          | \$ -          | \$ 289          |
| 4.3 Complete Documents Ready for Bidding and Permitting        | 1                                     | 0                       | 2            | 2            | 0                                     | 0         | 5                 | \$ 660          | \$ -          | \$ 660          |
| 4.4 Complete Contract Specs (ready for printing)               | 1                                     | 0                       | 1            | 0            | 0                                     | 0         | 2                 | \$ 372          | \$ -          | \$ 372          |
| 4.5 Pre-final Project Consultant's Cost Estimate               | 1                                     | 0                       | 1            | 0            | 0                                     | 0         | 2                 | \$ 372          | \$ -          | \$ 372          |
| 4.6 Provide input for Construction Schedule                    | 1                                     | 0                       | 0            | 0            | 0                                     | 0         | 1                 | \$ 249          | \$ -          | \$ 249          |
| 4.7 Coordinate with Design Team                                | 0                                     | 0                       | 1            | 0            | 0                                     | 0         | 1                 | \$ 123          | \$ -          | \$ 123          |
| 4.8 DOA Submittal - 90 % Design Package                        | 1                                     | 0                       | 2            | 2            | 0                                     | 0         | 5                 | \$ 660          | \$ -          | \$ 660          |
| 4.9 DOA Meeting - 90 % Design Review                           | 1                                     | 0                       | 0            | 0            | 0                                     | 0         | 1                 | \$ 249          | \$ -          | \$ 249          |
| <b>5.0 Contract Documents (100% Design)</b>                    | <b>Total</b>                          | <b>1</b>                | <b>0</b>     | <b>1</b>     | <b>1</b>                              | <b>0</b>  | <b>3</b>          | <b>\$ 454</b>   | <b>\$ -</b>   | <b>\$ 454</b>   |
| 5.1 Respond to Comments (DOA & Permitting Agencies)            | 1                                     | 0                       | 0            | 0            | 0                                     | 0         | 1                 | \$ 249          | \$ -          | \$ 249          |
| 5.2 Final Production   | 0                                     | 0                       | 1            | 1            | 0                                     | 0         | 2                 | \$ 206          | \$ -          | \$ 206          |
| 5.3 P.E. Seal  | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| <b>6.0 Bidding &amp; Award</b>                                 | <b>Total</b>                          | <b>2</b>                | <b>0</b>     | <b>1</b>     | <b>0</b>                              | <b>0</b>  | <b>3</b>          | <b>\$ 620</b>   | <b>\$ -</b>   | <b>\$ 620</b>   |
| 6.1 Bid Advertisement  | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 6.2 Pre-bid Conference   | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 6.3 Respond to Bidder's Questions / Issue Addendas             | 1                                     | 0                       | 1            | 0            | 0                                     | 0         | 2                 | \$ 372          | \$ -          | \$ 372          |
| 6.4 Attend Bid Opening   | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| 6.5 Assist with Bid Evaluations                                | 1                                     | 0                       | 0            | 0            | 0                                     | 0         | 1                 | \$ 249          | \$ -          | \$ 249          |
| 6.6 Assemble/Award Contract                                    | 0                                     | 0                       | 0            | 0            | 0                                     | 0         | 0                 | \$ -            | \$ -          | \$ -            |
| <b>Grand Total</b>   | <b>28</b>                             | <b>0</b>                | <b>38</b>    | <b>27</b>    | <b>0</b>                              | <b>93</b> | <b>13,873</b>     | <b>650</b>      | <b>14,523</b> |                 |



May 5, 2014

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

**Re: Lantana Airport Southside Redevelopment Program Phase 2 - Topographic Survey**

Dear Mr. Tompkins:

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

The limits of the survey are shown in yellow hi-lighting on Attachment 'B'

### SCOPE OF SERVICES

#### **PART A: TOPOGRAPHIC SURVEY FOR T/BOX HANGARS**

We will perform a topographic survey for the design of T/Box hangars in the area of existing rows 600 and 700 including a restroom, and associated apron, taxi-lane and access. The information to be gathered in the topographic survey (limits shown on attachment B) will include the following:

- Pavement shots on a minimum 10-foot grid in the location of existing aprons and taxilanes in the project areas identified;
- Ground shots on a minimum 25-foot grid;
- Additional ground shots within the survey limits of proposed construction area as needed to define unique topographic features such as depressions and ditches;
- Apron and Taxilane pavement markings, curb, and medians;
- Drainage Structures and Culverts including rim, invert, material, and direction of culverts;
- Water and sewer markers, valve boxes, hydrants, cleanouts, and appurtenances;
- Electrical Manholes, number, size, and direction of conduit;
- Lighting, signage, and appurtenances;
- AOA security fence, access gates, and appurtenances;
- Miscellaneous Structures within the survey limits of the proposed construction area;
- Establish a minimum of two (2) permanent benchmarks;
- Horizontal (x, y) and vertical (z) (where possible) locations of Utility Locations;

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor. The basis for control will be the NGS PACs and SACs. The survey will be performed at two tenths of a foot contour interval and the final drawings will be provided to Consultant in AutoCAD format at 1"=50' scale.

**PART B: TOPOGRAPHIC SURVEY FOR WEST DRIVEWAY ACCESS**

We will perform a topographic survey for the design of a new driveway access road to the westernmost limits of the apron. The information to be gathered in the topographic survey (limits shown on attachment B) will include the following:

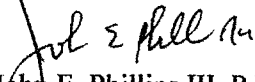
- Pavement shots on a minimum 10-foot grid in the location of connection at Lantana Road;
- Ground shots on a minimum 25-foot grid;
- Additional ground shots within the survey limits of proposed construction area as needed to define unique topographic features such as depressions and ditches;
- Roadway pavement markings, curb, and medians;
- Drainage Structures and Culverts including rim, invert, material, and direction of culverts;
- Water and sewer markers, valve boxes, hydrants, cleanouts, and appurtenances;
- Electrical Manholes, number, size, and direction of conduit;
- Roadway lighting, signage, and appurtenances and overhead electrical and power poles;
- AOA security fence, access gates, and appurtenances;
- Miscellaneous Structures within the survey limits of the proposed construction area and trees;
- Establish a minimum of two (2) permanent benchmarks;
- Horizontal (x, y) and vertical (z) (where possible) locations of Utility Locations;

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor. The basis for control will be the NGS PACs and SACs. The survey will be performed at two tenths of a foot contour interval and the final drawings will be provided to Consultant in AutoCAD format at 1"=50' scale.

**DELIVERABLES**

A drawing will be produced which will show all the features located. We propose to provide CH2M Hill, Inc. with six (6) hard copies and an AutoCAD file in the version requested. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for an hourly, not to exceed fee of \$6,130.00 for Part A - T/Box Hangars and \$2,427.50 for Part B - West Entrance (see Attachment 'A' for an estimated hourly breakdown). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

**Brown & Phillips, Inc.**

  
John E. Phillips III, P.L.S.  
Principal

Attachments

JEP/mb

This Proposal accepted this \_\_\_\_ day of \_\_\_\_\_, 2014

By: \_\_\_\_\_  
CH2M Hill, Inc.

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A' (1 of 2)

Lantana Airport Southside Redevelopment Program Phase 2 (Part A)

Type of Survey: Topographic

Size:

Date: May 5, 2014

| <b>PART A -<br/>T/Box Hangars</b>  | <b>2 MAN<br/>CREW</b> | <b>CADD<br/>TECH</b> | <b>SURVEY<br/>TECH</b> | <b>PLS</b> | <b>COMMENTS</b>   |
|------------------------------------|-----------------------|----------------------|------------------------|------------|---|
| Meetings and Coordination          |                       |                      |                        |            |   |
| Horizontal Project Network Control | 2                     |                      | 1                      | 1          | Establish control.  |
| Vertical Project Network Control   | 2                     |                      | 1                      |            | Set benchmarks  |
| Topography                         | 8                     |                      | 2                      |            | Locate above ground improvements incl. trees and buildings          |
| Cross Sections                     | 10                    |                      | 6                      | 3          | Cross sections at 10'/25' intervals. Prepare TIN file               |
| Drainage Structures & Culverts     | 1                     |                      |                        |            | Asbuilt drainage structures including rim, invert, material         |
| Utility Locations                  | 1                     |                      |                        |            | Locate flagged utilities - topo survey area and utility survey area |
| Topo Survey                        |                       | 16                   | 3                      | 2          | Prepare topo survey   |
|                                    |                       |                      |                        |            |   |
| <b>Total Hours:</b>                | 24                    | 16                   | 13                     | 6          |   |
| <b>Rate/Hour</b>                   | \$125.00              | \$80.00              | \$80.00                | \$135.00   |   |
| <b>Subtotal:</b>                   | \$3,000.00            | \$1,280.00           | \$1,040.00             | \$810.00   |   |
| <b>Total Labor Cost:</b>           |                       |                      |                        |            | <b>\$6,130.00</b>   |

| <u>Other Direct Costs:</u>       | <u>quantity</u> | <u>unit</u>   | <u>cost/unit</u> | <u>total</u>      |
|----------------------------------|-----------------|---------------|------------------|-------------------|
| Prints                           |                 | sheet         | \$1.50           | \$0.00            |
| Shipping                         |                 | cost x markup | 1.20             | \$0.00            |
| Other                            |                 |               |                  | \$0.00            |
| <b>Total Other Direct Costs:</b> |                 |               |                  | <b>\$0.00</b>     |
| <b>TOTAL PRICE</b>               |                 |               |                  | <b>\$6,130.00</b> |



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A' (2 of 2)

Lantana Airport Southside Redevelopment Program Phase 2 (Part B)

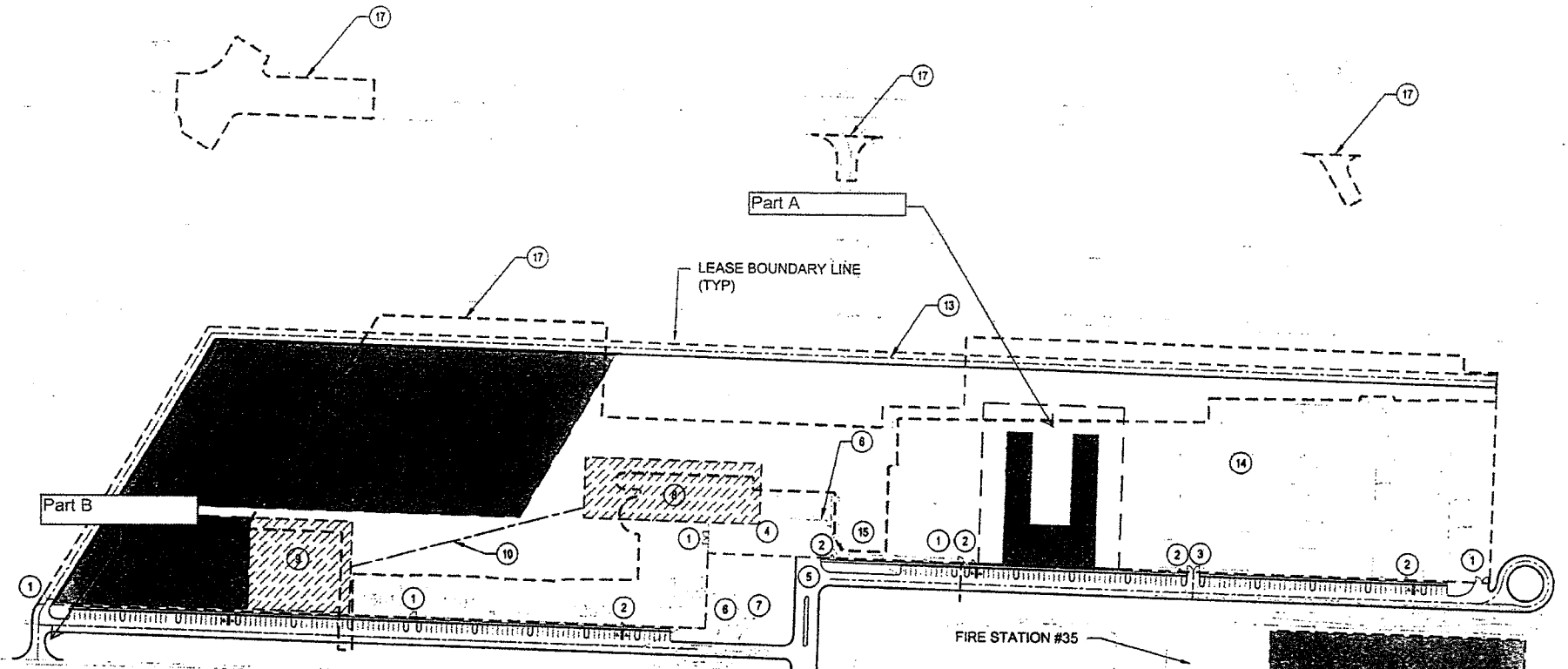
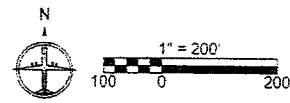
Type of Survey: Topographic

Size:

Date: May 5, 2014

| <b>PART B -<br/>West Entrance</b>  | <b>2 MAN<br/>CREW</b> | <b>CADD<br/>TECH</b> | <b>SURVEY<br/>TECH</b> | <b>PLS</b>      | <b>COMMENTS</b>   |
|------------------------------------|-----------------------|----------------------|------------------------|-----------------|---|
| Meetings and Coordination          |                       |                      |                        |                 |   |
| Horizontal Project Network Control | 1                     |                      | 1                      | 1               | Establish control.  |
| Vertical Project Network Control   | 1                     |                      |                        |                 | Set benchmarks  |
| Topography                         | 2.5                   |                      | 1                      |                 | Locate above ground improvements incl. trees and buildings          |
| Cross Sections                     | 3                     |                      | 3                      | 1               | Cross sections at 10'/25' intervals. Prepare TIN file               |
| Drainage Structures & Culverts     | 0.5                   |                      |                        |                 | Asbuilt drainage structures including rim, invert, material         |
| Utility Locations                  | 0.5                   |                      |                        |                 | Locate flagged utilities - topo survey area and utility survey area |
| Topo Survey                        |                       | 5                    | 2                      | 1               | Prepare topo survey   |
|                                    |                       |                      |                        |                 |   |
| <b>Total Hours:</b>                | <b>8.5</b>            | <b>5</b>             | <b>7</b>               | <b>3</b>        |   |
| <b>Rate/Hour</b>                   | <b>\$125.00</b>       | <b>\$80.00</b>       | <b>\$80.00</b>         | <b>\$135.00</b> |   |
| <b>Subtotal:</b>                   | <b>\$1,062.50</b>     | <b>\$400.00</b>      | <b>\$560.00</b>        | <b>\$405.00</b> |   |
| <b>Total Labor Cost:</b>           |                       |                      |                        |                 | <b>\$2,427.50</b>   |

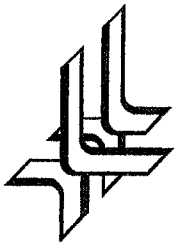
| <u>Other Direct Costs:</u>       | <u>quantity</u> | <u>unit</u>   | <u>cost/unit</u> | <u>total</u>      |
|----------------------------------|-----------------|---------------|------------------|-------------------|
| Prints                           |                 | sheet         | \$1.50           | \$0.00            |
| Shipping                         |                 | cost x markup | 1.20             | \$0.00            |
| Other                            |                 |               |                  | \$0.00            |
| <b>Total Other Direct Costs:</b> |                 |               |                  | <b>\$0.00</b>     |
| <b>TOTAL PRICE</b>               |                 |               |                  | <b>\$2,427.50</b> |



**KEY NOTES**

- |   |   |  |
|---|---|--|
| ① PROPOSED VEHICLE GATE WITH CARD READER INGRESS, FREE EGRESS | ⑥ BUILDING TO BE DEMOLISHED                 | ⑪C PROPOSED HELICOPTER PARKING                         |
| ② PROPOSED PEDESTRIAN GATE WITH CARD READER                   | ⑦ USE AS CONSTRUCTION TRAILER PRIOR TO DEMO | ⑫A PROPOSED T HANGARS                                  |
| ③ PROPOSED FIRE DEPARTMENT ACCESS                             | ⑧ FBO DEVELOPMENT AREA                      | ⑫B PROPOSED BOX HANGARS                                |
| ④ EXISTING LIFT STATION TO BE RELOCATED                       | ⑨ FBO PROPOSED BULK FUEL FARM               | ⑬ PROPOSED AIRFIELD SERVICE ROAD                       |
| ⑤ EXISTING BEACON TO BE RELOCATED                             | ⑩ PROPOSED DIRECT FUEL LINE                 | ⑭ PROPOSED RESTROOM BUILDING                           |
|   | ⑪A PROPOSED FUTURE HANGARS                  | ⑮ PROPOSED ACCESS CONTROLS BUILDING                    |
|   | ⑪B TIE DOWN AREA                            | ⑯ PROPOSED FUTURE DEVELOPMENT                          |
|   |   | ⑰ MISCELLANEOUS REHABILITATION / RECONSTRUCTION LIMITS |

FILENAME: 37LW0003.dwg PLOT DATE: 5/26/2014 PLOT TIME: 4:18:28 PM  
 PALM BEACH COUNTY  
 LANTANA AIRPORT  
 SOUTHSIDE REDEVELOPMENT  
 EXHIBIT



## **F.R. ALEMAN**

& Associates, Inc.  
CONSULTING ENGINEERS & SURVEYORS  
10305 N.W. 41<sup>ST</sup> Street, Suite 200  
Miami, Florida 33178  
TEL: (305) 591-8777  
FAX: (305) 599-8749  
Email: dstanton@fr-aleman.com

CONSULTING ENGINEERS & SURVEYORS  
www.FR-Aleman.com  
Email: dennis.stanton@FR-Aleman.com

April 23, 2014

**CH2MHILL, INC.**

Attn: Ms. Maureen Kussler, Architect.  
3001 PGA Blvd, Suite 300  
Palm Beach Gardens, FL 33410

**RE: Project Name: LNA Southside Redevelopment Program Phase 2**  
**Project Title: Utility Locations**  
**Facility Name: Palm Beach County Park (Lantana) Airport( LNA)**

**SUBJECT: Price Proposal for SUE Services**

Dear Ms Kussler,

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

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

**DESCRIPTION OF SERVICES**

FRA will provide two (2) technicians, equipment and special tools to designate utilities at locations authorized and directed by your representative. **Our Specific scope of work will be to provide scans to clear 14 proposed boring locations prior to Geotechnical drilling. This scope of work includes (10) ten test-holes (soft-digs) if required.**

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

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

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

Electromagnetic & GPR Field Survey

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

**LOCATE SUBSURFACE UTILITIES USING TEST HOLES**

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

- Coordinate with utility agencies / owners/ CH2MHILL, Inc.
- Neatly cut and remove existing pavements (not to exceed 225-sq. In. Per cut).
- Excavate the cut in such a manner as to prevent any damage to wrappings, coatings or other protective coverings (i.e. vacuum / pressure excavations, hand digging).
- Furnish and install color-coded permanent above ground markers (i.e. p.k. nails, steel rods), directly above the centerline of the utility structure and record the elevation of the marker.
- Provide a restoration of the pavement, within the limits of the cuts, at the time of the backfill.
- Provide complete clean up of work sites to equal or better condition than before excavation.

**CONDITIONS – Locating of underground utilities for pre-excavation**

- Utility Locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation.
- Areas to be surveyed with GPR must be level and free of obstructions.
- Results are dependent upon field conditions at the time of locating services.
- If underground facilities are damaged, whether marked by FRA or not, it is your obligation to notify a representative of FRA within 48 hours of the damage.
- Prior to excavation, the contractor is responsible for securing locations of public utilities through Sunshine State One Call of Florida (811).
- Airside Access or Badges provided by others (FRA personnel have Airport Badges).

| <b>F.R. ALEMAN &amp; ASSOCIATES, INC.<br/>S.U.E. SERVICES PRICE PROPOSAL</b> |             |                 |                   |
|--|-------------|-----------------|-------------------|
| <b>ITEM DESCRIPTION</b>  | <b>RATE</b> | <b>QUANTITY</b> | <b>ITEM PRICE</b> |
| 2 Person Locating & Designation<br>Crew Per Day( 8 Hour)                     | \$1,247.77  | 3 Days          | \$3,743.31        |
| Project Manager  | \$159.85    | 8 Hours         | \$1,278.80        |
| Utility Coordinator  | \$97.00     | 16 Hours        | \$ 1,552.00       |
| <b>TOTAL COST</b>  |             |                 | <b>\$6,574.11</b> |

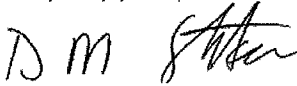
F.R. Aleman & Associates, Inc. appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through May 28, 2014, after which it shall be subject to reconfirmation by **FRA**. If this proposal is accepted prior to the above date, this pricing will be in effect for the next 30 days, after which time shall be subject to review and adjustment by **FRA**.

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

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

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

Very truly yours,



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

X:\Marketing\Departmental Marketing\Proposals\CH2MHILL\PRICE PROPOSAL\PBIA TAXIWAY F Extension 10-24-08.doc

**ACCEPTED AND AGREED:**

Client: CH2MHILL, INC.

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_





May 5, 2014  
April 29, 2014

CH2MHill  
3001 PGA Boulevard, Suite 300  
Palm Beach Gardens, FL 334110

Attention: Mr. Dan Tompkins, P.E., Project Manager

Re: **Proposal for Design Phase Geotechnical Services**  
**LNA Southside Redevelopment program-Phase 2**  
**Lantana, Florida**  
**TSF Proposal No.: 1404-228**

Dear Dan:

As requested, **Tierra South Florida, Inc. (TSF)** is pleased to submit this proposal for the above-referenced project. The proposal is based electronic information (emails) provided by CH2MHill.

We understand that the proposed construction and improvements will consist of T/Box Hangars in the area of rows 600 & 700 (PART A) including a restroom, and associated apron, Taxilane and access; and a new west entrance to the apron (PART B). In addition, 4 tests to 30 feet will be taken in the proposed Hangar's (combined 33,000 square feet) footprint.

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

#### **PROPOSED SCOPE OF WORK**

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194. Our scope of work will consist of:

- A maximum of ten (10) Standard Penetration Test (SPT) borings to a depth of ten (10) feet below existing grade (6 PART A and 4 PART B);
- A maximum of 8 pavement cores for PART A, 10 foot borings;
- A maximum of 4 SPT borings to 30 feet in proposed Hangar footprints for foundation design;
- Soil Boring and Coring Location Plan in AutoCAD format;
- Soil Boring Logs in AutoCAD format denoting boring number, Unified Soil Classification (USC), location of groundwater table depth, number of blows, standard penetration resistance in blows per foot, station and offset, date performed, and depth in feet;
- A maximum of two (2) Field CBR tests;
- Attending One (1) Team Design Chartering / Kick-Off Meeting;
- Attending One (1) DOA Design Kick-Off Meeting; and

---

2765 VISTA PARKWAY, SUITE 10 · WEST PALM BEACH, FLORIDA 33411  
(561) 687-8539 · FAX (561) 687-8570  
*State of Florida Professional Engineers License #28073*

- Geotechnical Report.

The Geotechnical Report will include a summary of findings, USGS Quadrangle Map, USDA/SCS Soil Survey for Palm Beach County, Laboratory results including Water Content %, Organic Content %, Percent Finer than No. 200 Sieve, compaction requirements and California Bearing Ratio (CBR) of subgrade, Atterberg limits, and will be signed and sealed by a registered Professional Geotechnical Engineer in the State of Florida. The report will include exhibits and figures to illustrate the geotechnical investigation and findings. The standard test method for determining the percolation rate of soils in the field will be the Borehole Permeability Method.

Borings and test locations will be located in the field by CH2MHill's sub-consultant, Brown & Phillips, Inc. It is our understanding that elevations at boring locations will also be provided by Brown & Phillips, Inc.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. We believe that significant coordination will likely be required to perform the field operations. As we understand, all work will be conducted in the day time. **It is our understanding that the work will be coordinated with DOA.**

Upon completion of the field exploration, laboratory testing will be performed on selected samples.

#### **ESTIMATED FEES**

It is proposed that the fee for the performance of the services outlined above is determined on a unit rate basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, our estimated fee will be **\$13,785.00.**

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

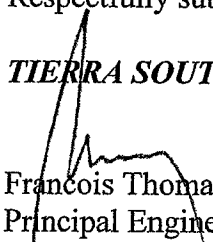
#### **SCHEDULE AND AUTHORIZATION**

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 3 to 4 days to complete. The written report can be submitted within three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

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

Respectfully submitted,

*TIERRA SOUTH FLORIDA, INC.*



Francois Thomas, P.E.  
Principal Engineer

Attachments: 1. Fee Estimate

| <b>AUTHORIZED BY:</b> | <b>INVOICE TO:</b> |
|-----------------------|--------------------|
| <b>Name:</b>          | <b>Firm:</b>       |
| <b>Title:</b>         | <b>Name:</b>       |
| <b>Date:</b>          | <b>Address:</b>    |

TIERRA SOUTH FLORIDA, INC 2009/2010  
STANDARD UNIT FEE SCHEDULE  
(LNA SOUTHSIDE REDEVELOPMENT)

DAY RATES

|   | Unit     | # of Units | Unit Price | Total       |
|---|----------|------------|------------|-------------|
| <b>I. FIELD INVESTIGATION</b>                                     |          |            |            |             |
| Mobilization of Men and Equipment                                 |          |            |            |             |
| Truck-Mounted Equipment   | LS       | 1          | \$ 350.00  | \$ 350.00   |
| Specialized ATV/Mudbug  | Trip     | 0          | \$ 720.00  | \$ 0.00     |
| Support Vehicle   | Day      | 3          | \$ 150.00  | \$ 450.00   |
| Standard Penetration Test Borings<br>(By Truck-Mounted Equipment) |          |            |            |             |
| Land: 0 - 50 ft depth   | L.F.     | 220        | \$ 12.00   | \$ 2,640.00 |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 14.00   | \$ 0.00     |
| Grout-Seal Boreholes<br>(By Truck-Mounted Equipment)              |          |            |            |             |
| Land: 0 - 50 ft depth   | L.F.     | 220        | \$ 5.50    | \$ 1,210.00 |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 6.50    | \$ 0.00     |
| Double Ring Infiltration Test                                     | Test     | 0          | \$ 500.00  | \$ 0.00     |
| Field Permeability Tests  | Test     | 0          | \$ 275.00  | \$ 0.00     |
| Pavement Cores, Asphalt   | Each     | 8          | \$ 225.00  | \$ 1,800.00 |
| Coring Machine plus generator rental                              | Trip     | 1          | \$ 400.00  | \$ 400.00   |
| Field CBR   | Each     | 2          | \$ 300.00  | \$ 600.00   |
| MOT (If required)   | Each     | 0          | \$ 800.00  | \$ 0.00     |
| <b>II. LABORATORY TESTING</b>                                     |          |            |            |             |
| Visual Examination/Stratify                                       | Per Hour | 6          | \$ 100.00  | \$ 600.00   |
| Natural Moisture Content Tests                                    | Test     | 4          | \$ 10.00   | \$ 40.00    |
| Grain-Size Analysis - Full Gradation                              | Test     | 4          | \$ 65.00   | \$ 260.00   |
| Grain-Size Analysis - Single Sieve                                | Test     | 0          | \$ 35.00   | \$ 0.00     |
| Organic Content Tests   | Test     | 3          | \$ 35.00   | \$ 105.00   |
| Atterberg Limit Tests   | Test     | 0          | \$ 75.00   | \$ 0.00     |
| Liquid Limit Tests (Only)   | Test     | 0          | \$ 52.00   | \$ 0.00     |
| Plastic Limit Tests (Only)  | Test     | 0          | \$ 33.50   | \$ 0.00     |
| Laboratory CBR + Sampling   | Test     | 0          | \$ 500.00  | \$ 0.00     |
| Grain-Size with Hydrometer  | Test     | 0          | \$ 115.00  | \$ 0.00     |
| Proctor Test a) Modified  | Test     | 0          | \$ 108.00  | \$ 0.00     |
| b) Standard   | Test     | 0          | \$ 102.00  | \$ 0.00     |
| Bitumen Extraction  | Test     | 0          | \$ 150.00  | \$ 0.00     |
| Bitumen Gradation   | Test     | 0          | \$ 150.00  | \$ 0.00     |
| FDOT Corrosion series   | Each     | 0          | \$ 185.00  | \$ 0.00     |
| <b>III. ENGINEERING/COORDINATION/MANAGEMENT</b>                   |          |            |            |             |
| Project Manager   | Hour     | 2          | \$ 165.00  | \$ 330.00   |
| Principal Engineer  | Hour     | 0          | \$ 150.00  | \$ 0.00     |
| Senior Engineer   | Hour     | 6          | \$ 125.00  | \$ 750.00   |
| Project Engineer  | Hour     | 26         | \$ 100.00  | \$ 2,600.00 |
| Senior Technician   | Hour     | 14         | \$ 75.00   | \$ 1,050.00 |
| CADD  | Hour     | 8          | \$ 75.00   | \$ 600.00   |
|   |          |            | \$         | 13,785.00   |



May 07, 2014

Dan Tompkins, P.E.  
CH2M Hill  
3001 PGA Boulevard, Suite 300  
Palm Beach Gardens, Florida 33410

**REFERENCE: Palm Beach International Airport  
Lantana Airport West Entrance and T/Box Hangers  
Design and Bidding Services**

Dear Mr. Tompkins:

ADA Engineering, Inc. is pleased to present CH2M HILL with the following proposal for the above-referenced project. Attached you will find a Statement of Work (Exhibit A) and associated Labor Fee Estimate (Exhibit B) for your consideration. The total fee considered is \$41,250.00 of which \$1,060 is reimbursable expenses.

We look forward to working with you on this project. Should you have any further questions or concerns, please feel free to contact me at (561) 615-8880, extension 201.

Sincerely,

A handwritten signature in black ink, appearing to read "Alex Vazquez", is written over a light blue horizontal line.

Alex Vazquez, P.E.  
Vice President

Attachments: *Exhibit A – Statement of Work*  
*Exhibit B – Labor Fee Estimate*

1800 Old Okeechobee Road, Suite 202, West Palm Beach, Florida 33409  
Office: (561) 615-8880 · Fax: (561) 615-8858 · www.adaeng.net

## EXHIBIT A

### STATEMENT OF WORK

#### PALM BEACH PARK AIRPORT (LANTANA) WEST ENTRANCE AND T/BOX HANGERS DRAINAGE DESIGN AND BIDDING SERVICES

#### ADA ENGINEERING (ADA)

##### I. Scope of Work:

ADA will provide construction documents and bid and award services for the second Phase of the re-development (which includes the eastern access road, roundabout and related security improvements). The planning and preliminary design services for the proposed work of Phase 2 will be included on the full redevelopment program on Phase 1. Construction Administration and Construction Management services are not included in this scope of services. This scope of services (Tasks 1-4) includes the following:

- Attend One (1) DOA Design Kick-Off Meeting;
- Attend Five (5) DOA Design Submittal Review Meetings (Preliminary, 30%, 60%, 90%, and 100%);
- Prepare 30%, 60%, 90%, and 100% Contract Documents, including: Front End Documents, Technical Specifications, Drawings, Project Schedule, Engineer's Report, and Engineer's Opinion of Probable Construction Cost Estimate. These task items shall be performed in a limited capacity such that ADA is only responsible for the Drainage aspects of this project.
- Prepare and Assemble Bid Documents including Project Manual, Technical Specifications, and Drawings (for Drainage components only);
- Assist the Department of Airports (DOA) in Advertisement and Bidding of the project;
- Attend One (1) Pre-Bid Meeting;
- Evaluate Bid Tabs and Prepare Recommendation to Award Letter.

##### I-1 Phase 1 – Preliminary Design

It is assumed that the Facility Program Report for the complete Southside Re-Development will provide the majority of the conceptual drainage planning for the west entrance and T/Box hangers. The deliverable for this phase will consist of a Preliminary Design Narrative that provides any additional details to the West Entrance and T/Box Hangers that were not covered in the Facility Program Report as well as a Rough Order of Magnitude construction cost budget for those items assigned to ADA Engineering.

##### I-2 Phase 2 – Design Development

ADA will assist CH2M HILL in developing the plans for the Design Development deliverable review submittal which will include the following items 1-9:

1. 30% Drawing Index
2. 30% Summary of Quantities
3. 30% Drainage Plans – 1 plan sheet at 1"=50' scale
4. 30% Stormwater Pollution Prevention Plans – 1 plan sheet at 1"=50' scale
5. 30% Stormwater Pollution Prevention Notes and Details – 1 sheet
6. 30% Drainage Profiles – 1 sheet
7. 30% Drainage Details – 1 sheet
8. 30% Technical Specifications Outline
9. 30% Engineer's Opinion of Probable Construction Cost Estimate

### **I-3 Phase 3 Contract Documents**

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

#### **I-3.1 Phase 3A 60% Submittal**

The 60% Complete Contract Documents Deliverables will include the following Items 1-9. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

1. 60% Drawing Index
2. 60% Summary of Quantities
3. 60% Drainage Plans – 1 plan sheet at 1"=50' scale
4. 60% Stormwater Pollution Prevention Plans – 1 plan sheet at 1"=50' scale
5. 60% Stormwater Pollution Prevention Notes and Details – 1 sheet
6. 60% Drainage Profiles – 1 sheet
7. 60% Drainage Details – 1 sheet
8. 60% Technical Specifications
9. 60% Engineer's Opinion of Probable Construction Cost Estimate

#### **I-3.2 Phase 3B 90% Design Submittal**

The 90% Complete Contract Documents Deliverables will include the following Items 1-10. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

1. 90% Drawing Index
2. 90% Summary of Quantities
3. 90% Drainage Plans – 1 plan sheet at 1"=50' scale
4. 90% Stormwater Pollution Prevention Plans – 1 plan sheet at 1"=50' scale
5. 90% Stormwater Pollution Prevention Notes and Details – 1 sheet
6. 90% Drainage Profiles – 1 sheet
7. 90% Drainage Details – 1 sheet
8. 90% Drainage Cross Sections – 1 sheet
9. 90% Technical Specifications

## 10. 90% Engineer's Opinion of Probable Construction Cost Estimate

### **I-3.3 Phase 3C 100% Submittal**

The 100% Complete Contract Documents Deliverables will include the following Items 1-10. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

1. Final Drawing Index
2. Final Summary of Quantities
3. Final Drainage Plans – 1 plan sheet at 1"=50' scale
4. Final Stormwater Pollution Prevention Plans – 1 plan sheet at 1"=50' scale
5. Final Stormwater Pollution Prevention Notes and Details – 1 sheet
6. Final Drainage Profiles – 1 sheet
7. Final Drainage Details – 1 sheet
8. Final Drainage Cross Sections – 1 sheet
9. Final Technical Specifications
10. Final Engineer's Opinion of Probable Construction Cost Estimate

### **I-4 Phase 4 Bidding and Award of Contract**

Following the 100% Complete Contract Documents approval, CH2M HILL will print full size sets of the Contract Documents for bidding purposes, ready for advertising as required by the DOA. CH2M HILL will provide Prospective Bidders with Bid Documents and administer the process of the Bidding Phase. Prospective Bidders shall obtain Bid Documents from CH2M HILL's Palm Beach Gardens Office. ADA will attend one (1) Pre-Bid Conference and will assist CH2M HILL in obtaining Bids and in the Award of a Contract for all or a portion of the work that was bid pursuant to the Contract Documents. ADA will respond to a maximum of four (4) Requests for Information (RFI) from the Bidders and issue a maximum of two (2) Addendums. ADA will review and evaluate drainage portions of the bid tabs, and assist CH2M HILL in recommending award of the contract. CH2M HILL will evaluate the low bidder's insurance, licensing, and qualifications and provide comments to the DOA for their consideration in awarding the project.



Exhibit B

Labor/Fee Estimate Summary - Lantana Airport West Entrance and T/Box Hangers - Phase 2

|               |           |           |           |           |          |          |      |          |      |      |      |
|---------------|-----------|-----------|-----------|-----------|----------|----------|------|----------|------|------|------|
| Billing Rate: | \$ 235.00 | \$ 216.00 | \$ 175.00 | \$ 130.00 | \$ 86.00 | \$ 84.00 | \$ - | \$ 74.00 | \$ - | \$ - | \$ - |
|---------------|-----------|-----------|-----------|-----------|----------|----------|------|----------|------|------|------|

| Task Description   | Labor Estimate (Hours)                          |  |  |  |                          |                   |                   |   |          |                     |                      |                               | Fee Estimate (\$) |                    |
|--|---|--|--|--|--------------------------|-------------------|-------------------|---|----------|---------------------|----------------------|-------------------------------|-------------------|--------------------|
|  | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer / Planner / Associate Project Manager | Staff Engineer / Planner | Senior Technician | Design Technician | Graphics Support / Administrative Manager | Admin.   | Threshold Inspector | Construction Manager | Project Estimator / Scheduler | Total Labor Hours | Total Fee          |
| <b>DOA Task No L-14-LNA-C-027</b>  |   |  |  |  |                          |                   |                   |   |          |                     |                      |                               |                   |                    |
| <b>1.0 Program Planning and Preliminary Design Services (Phase 2)</b>              | <b>Total</b>                                    | <b>0</b>                                     | <b>0</b>                                       | <b>2</b>   | <b>0</b>                 | <b>14</b>         | <b>0</b>          | <b>4</b>                                  | <b>0</b> | <b>0</b>            | <b>0</b>             | <b>0</b>                      | <b>20</b>         | <b>\$ 2,590.00</b> |
| 1.01 Client Kick-off Meeting   | 0   | 0  | 0  | 0  | 2                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 2                 | \$ 260.00          |
| 1.14 Preliminary Design Narrative Report and Exhibits:                             |   |  |  |  |                          |                   |                   |   |          |                     |                      |                               |                   |                    |
| Grading and Drainage Conceptual Narrative and Exhibit                              | 0   | 0  | 1  | 0  | 2                        | 0                 | 4                 | 0   | 0        | 0                   | 0                    | 0                             | 7                 | \$ 812.00          |
| Preliminary Outline Specifications   | 0   | 0  | 0  | 0  | 1                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 130.00          |
| Preliminary Planning and Programming   | 0   | 0  | 0  | 0  | 1                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 130.00          |
| Engineer's Opinion of Probable Construction Cost Estimate                          | 0   | 0  | 1  | 0  | 4                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 5                 | \$ 736.00          |
| 1.16 Client Submittal Review Meeting   | 0   | 0  | 0  | 0  | 4                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 4                 | \$ 520.00          |
| 1.21 Expenses (Travel, Mailings and Reprographics)                                 | N/A   | N/A  | N/A  | N/A  | N/A                      | N/A               | N/A               | N/A                                       | N/A      | N/A                 | N/A                  | N/A                           | N/A               | \$ -               |
| <b>ADA Phase 1 Total</b>   | <b>0</b>  | <b>0</b>                                     | <b>2</b>                                       | <b>0</b>   | <b>14</b>                | <b>0</b>          | <b>4</b>          | <b>0</b>                                  | <b>0</b> | <b>0</b>            | <b>0</b>             | <b>0</b>                      | <b>20</b>         | <b>\$ 2,590.00</b> |
| <b>2.0 Design Development (Phase 2 - 30% Design)</b>                               | <b>Total</b>                                    | <b>2</b>                                     | <b>0</b>                                       | <b>10</b>  | <b>0</b>                 | <b>30</b>         | <b>0</b>          | <b>32</b>                                 | <b>0</b> | <b>1</b>            | <b>0</b>             | <b>0</b>                      | <b>75</b>         | <b>\$ 9,480.00</b> |
| 2.02 30% Drawing Index   | 0   | 0  | 0  | 0  | 1                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 130.00          |
| 2.03 30% Summary of Quantities   | 0   | 0  | 0  | 0  | 1                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 2                 | \$ 214.00          |
| 2.16 30% Drainage Plan (Assume 1 Sheet at 1" = 50' Scale)                          | 1   | 0  | 1  | 0  | 4                        | 0                 | 8                 | 0   | 0        | 0                   | 0                    | 0                             | 14                | \$ 1,643.00        |
| 2.22 30% Stormwater Pollution Prevention Plan (Assume 1 Sheet at 1" = 50' Scale)   | 0   | 0  | 1  | 0  | 1                        | 0                 | 3                 | 0   | 0        | 0                   | 0                    | 0                             | 5                 | \$ 598.00          |
| 2.23 30% Stormwater Pollution Prevention Notes and Details (Assume 1 Sheet)        | 0   | 0  | 0  | 0  | 1                        | 0                 | 2                 | 0   | 0        | 0                   | 0                    | 0                             | 3                 | \$ 298.00          |
| 2.24 30% Drainage Profiles (Assume 1 Sheet)  | 0   | 0  | 1  | 0  | 4                        | 0                 | 8                 | 0   | 0        | 0                   | 0                    | 0                             | 13                | \$ 1,408.00        |
| 2.25 30% Drainage Details (Assume 1 Sheet)   | 1   | 0  | 1  | 0  | 4                        | 0                 | 8                 | 0   | 0        | 0                   | 0                    | 0                             | 14                | \$ 1,643.00        |
| 2.30 30% Technical Specifications  | 0   | 0  | 1  | 0  | 6                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 7                 | \$ 996.00          |
| 2.31 30% Engineer's Opinion of Probable Construction Cost Estimate                 | 0   | 0  | 1  | 0  | 4                        | 0                 | 2                 | 0   | 0        | 0                   | 0                    | 0                             | 7                 | \$ 904.00          |
| 2.42 Client Review Submittal Meeting   | 0   | 0  | 4  | 0  | 4                        | 0                 | 0                 | 0   | 1        | 0                   | 0                    | 0                             | 9                 | \$ 1,458.00        |
| 2.46 Expenses (Travel, Mailings and Reprographics)                                 | N/A   | N/A  | N/A  | N/A  | N/A                      | N/A               | N/A               | N/A                                       | N/A      | N/A                 | N/A                  | N/A                           | N/A               | \$ 180.00          |
| <b>ADA Phase 2 Total</b>   | <b>2</b>  | <b>0</b>                                     | <b>10</b>                                      | <b>0</b>   | <b>30</b>                | <b>0</b>          | <b>32</b>         | <b>0</b>                                  | <b>1</b> | <b>0</b>            | <b>0</b>             | <b>0</b>                      | <b>75</b>         | <b>\$ 9,480.00</b> |
| <b>3.0 Contract Documents (Phase 3A - 60% Design)</b>                              | <b>Total</b>                                    | <b>2</b>                                     | <b>0</b>                                       | <b>9</b>   | <b>0</b>                 | <b>23</b>         | <b>0</b>          | <b>19</b>                                 | <b>0</b> | <b>1</b>            | <b>0</b>             | <b>0</b>                      | <b>54</b>         | <b>\$ 7,260.00</b> |
| 3.02 60% Drawing Index   | 0   | 0  | 0  | 0  | 1                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 130.00          |
| 3.03 60% Summary of Quantities   | 0   | 0  | 0  | 0  | 1                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 2                 | \$ 214.00          |
| 3.16 60% Drainage Plan (Assume 1 Sheet at 1" = 50' Scale)                          | 1   | 0  | 1  | 0  | 2                        | 0                 | 4                 | 0   | 0        | 0                   | 0                    | 0                             | 8                 | \$ 1,047.00        |
| 3.22 60% Stormwater Pollution Prevention Plan (Assume 1 Sheet at 1" = 50' Scale)   | 0   | 0  | 1  | 0  | 1                        | 0                 | 2                 | 0   | 0        | 0                   | 0                    | 0                             | 4                 | \$ 514.00          |
| 3.23 60% Stormwater Pollution Prevention Notes and Details (Assume 1 Sheet)        | 0   | 0  | 0  | 0  | 0                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 84.00           |
| 3.24 60% Drainage Profiles (Assume 1 Sheet)  | 0   | 0  | 1  | 0  | 2                        | 0                 | 2                 | 0   | 0        | 0                   | 0                    | 0                             | 5                 | \$ 644.00          |
| 3.25 60% Drainage Details (Assume 1 Sheet)   | 1   | 0  | 1  | 0  | 6                        | 0                 | 8                 | 0   | 0        | 0                   | 0                    | 0                             | 16                | \$ 1,903.00        |
| 3.31 60% Technical Specifications  | 0   | 0  | 1  | 0  | 4                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 5                 | \$ 736.00          |
| 3.32 60% Engineer's Opinion of Probable Construction Cost Estimate                 | 0   | 0  | 0  | 0  | 2                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 3                 | \$ 344.00          |
| 3.34 Client Review Submittal Meeting   | 0   | 0  | 4  | 0  | 4                        | 0                 | 0                 | 0   | 1        | 0                   | 0                    | 0                             | 9                 | \$ 1,458.00        |
| 3.44 Expenses (Travel, Mailings and Reprographics)                                 | N/A   | N/A  | N/A  | N/A  | N/A                      | N/A               | N/A               | N/A                                       | N/A      | N/A                 | N/A                  | N/A                           | N/A               | \$ 180.00          |
| <b>ADA Phase 3A Total</b>  | <b>2</b>  | <b>0</b>                                     | <b>9</b>                                       | <b>0</b>   | <b>23</b>                | <b>0</b>          | <b>19</b>         | <b>0</b>                                  | <b>1</b> | <b>0</b>            | <b>0</b>             | <b>0</b>                      | <b>54</b>         | <b>\$ 7,260.00</b> |
| <b>4.0 Contract Documents (Phase 3B - 90% Design)</b>                              | <b>Total</b>                                    | <b>3</b>                                     | <b>0</b>                                       | <b>12</b>  | <b>0</b>                 | <b>26</b>         | <b>0</b>          | <b>30</b>                                 | <b>0</b> | <b>1</b>            | <b>0</b>             | <b>0</b>                      | <b>72</b>         | <b>\$ 9,460.00</b> |
| 4.02 90% Drawing Index   | 0   | 0  | 0  | 0  | 1                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 130.00          |
| 4.03 90% Summary of Quantities   | 0   | 0  | 0  | 0  | 1                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 2                 | \$ 214.00          |
| 4.16 90% Drainage Plans (Assume 2 Sheets at 1" = 50' Scale)                        | 1   | 0  | 1  | 0  | 3                        | 0                 | 5                 | 0   | 0        | 0                   | 0                    | 0                             | 10                | \$ 1,261.00        |
| 4.22 90% Stormwater Pollution Prevention Plans (Assume 2 Sheets at 1" = 50' Scale) | 0   | 0  | 1  | 0  | 1                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 3                 | \$ 430.00          |
| 4.23 90% Stormwater Pollution Prevention Notes and Details (Assume 1 Sheet)        | 0   | 0  | 0  | 0  | 0                        | 0                 | 1                 | 0   | 0        | 0                   | 0                    | 0                             | 1                 | \$ 84.00           |
| 4.24 90% Drainage Profiles (Assume 1 Sheet)  | 0   | 0  | 1  | 0  | 2                        | 0                 | 4                 | 0   | 0        | 0                   | 0                    | 0                             | 7                 | \$ 812.00          |
| 4.25 90% Drainage Details (Assume 2 Sheets)  | 1   | 0  | 1  | 0  | 2                        | 0                 | 6                 | 0   | 0        | 0                   | 0                    | 0                             | 10                | \$ 1,215.00        |
| 4.31 90% Drainage Cross Sections   | 1   | 0  | 2  | 0  | 8                        | 0                 | 12                | 0   | 0        | 0                   | 0                    | 0                             | 23                | \$ 2,715.00        |
| 4.35 90% Technical Specifications  | 0   | 0  | 1  | 0  | 2                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 3                 | \$ 476.00          |
| 4.36 90% Engineer's Opinion of Probable Construction Cost Estimate                 | 0   | 0  | 1  | 0  | 2                        | 0                 | 0                 | 0   | 0        | 0                   | 0                    | 0                             | 3                 | \$ 476.00          |
| 4.39 Client Review Submittal Meeting   | 0   | 0  | 4  | 0  | 4                        | 0                 | 0                 | 0   | 1        | 0                   | 0                    | 0                             | 9                 | \$ 1,458.00        |
| 4.54 Expenses (Travel, Mailings and Reprographics)                                 | N/A   | N/A  | N/A  | N/A  | N/A                      | N/A               | N/A               | N/A                                       | N/A      | N/A                 | N/A                  | N/A                           | N/A               | \$ 180.00          |
| <b>ADA Phase 3B Total</b>  | <b>3</b>  | <b>0</b>                                     | <b>12</b>                                      | <b>0</b>   | <b>26</b>                | <b>0</b>          | <b>30</b>         | <b>0</b>                                  | <b>1</b> | <b>0</b>            | <b>0</b>             | <b>0</b>                      | <b>72</b>         | <b>\$ 9,460.00</b> |

|   |              |          |           |           |            |           |            |           |          |          |          |          |          |            |                     |
|---|--------------|----------|-----------|-----------|------------|-----------|------------|-----------|----------|----------|----------|----------|----------|------------|---------------------|
| <b>5.0 Contract Documents (Phase 3C - 100% Design)</b>                            | <b>Total</b> | <b>4</b> | <b>0</b>  | <b>11</b> | <b>0</b>   | <b>21</b> | <b>0</b>   | <b>22</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>59</b>  | <b>\$ 8,150.00</b>  |
| 5.02 100% Drawing Index   | 0            | 0        | 0         | 0         | 0          | 0         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 0          | \$ -                |
| 5.03 100% Summary of Quantities   | 0            | 0        | 0         | 0         | 1          | 0         | 0          | 1         | 0        | 0        | 0        | 0        | 0        | 2          | \$ 214.00           |
| 5.16 100% Drainage Plan (Assume 1 Sheet at 1" = 50' Scale)                        | 1            | 0        | 1         | 0         | 2          | 0         | 0          | 4         | 0        | 0        | 0        | 0        | 0        | 8          | \$ 1,047.00         |
| 5.22 100% Stormwater Pollution Prevention Plan (Assume 1 Sheet at 1" = 50' Scale) | 1            | 0        | 1         | 0         | 1          | 0         | 0          | 2         | 0        | 0        | 0        | 0        | 0        | 5          | \$ 749.00           |
| 5.23 100% Stormwater Pollution Prevention Notes and Details (Assume 1 Sheet)      | 0            | 0        | 0         | 0         | 1          | 0         | 0          | 2         | 0        | 0        | 0        | 0        | 0        | 3          | \$ 298.00           |
| 5.24 100% Drainage Profiles (Assume 1 Sheet)                                      | 0            | 0        | 1         | 0         | 2          | 0         | 0          | 4         | 0        | 0        | 0        | 0        | 0        | 7          | \$ 812.00           |
| 5.25 100% Drainage Details (Assume 1 Sheet)                                       | 1            | 0        | 1         | 0         | 2          | 0         | 0          | 4         | 0        | 0        | 0        | 0        | 0        | 8          | \$ 1,047.00         |
| 5.31 100% Drainage Cross Sections (Assume 1 Sheet)                                | 1            | 0        | 1         | 0         | 2          | 0         | 0          | 2         | 0        | 0        | 0        | 0        | 0        | 6          | \$ 879.00           |
| 5.35 100% Technical Specifications  | 0            | 0        | 1         | 0         | 2          | 0         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 3          | \$ 476.00           |
| 5.36 100% Engineer's Opinion of Probable Construction Cost Estimate               | 0            | 0        | 1         | 0         | 2          | 0         | 0          | 1         | 0        | 0        | 0        | 0        | 0        | 4          | \$ 560.00           |
| 5.45 Client Review Submittal Meeting  | 0            | 0        | 4         | 0         | 4          | 0         | 0          | 0         | 0        | 1        | 0        | 0        | 0        | 9          | \$ 1,458.00         |
| 5.46 Signed and Sealed 100% Contract Documents                                    | 0            | 0        | 0         | 0         | 2          | 0         | 0          | 2         | 0        | 0        | 0        | 0        | 0        | 4          | \$ 428.00           |
| 5.50 Expenses (Travel, Mailings and Reprographics)                                | N/A          | N/A      | N/A       | N/A       | N/A        | N/A       | N/A        | N/A       | N/A      | N/A      | N/A      | N/A      | N/A      | N/A        | \$ 180.00           |
| <b>ADA Phase 3C Total</b>   | <b>4</b>     | <b>0</b> | <b>11</b> | <b>0</b>  | <b>21</b>  | <b>0</b>  | <b>22</b>  | <b>0</b>  | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>59</b>  | <b>\$ 8,150.00</b>  |
| <b>6.0 Bid and Award of Contract (Phase 4)</b>                                    | <b>Total</b> | <b>0</b> | <b>0</b>  | <b>3</b>  | <b>0</b>   | <b>18</b> | <b>0</b>   | <b>0</b>  | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>22</b>  | <b>\$ 3,250.00</b>  |
| 6.01 Assist DOA in advertisement and processing of Bid Documents                  | 0            | 0        | 0         | 0         | 0          | 2         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 2          | \$ 260.00           |
| 6.05 Attend a maximum of one (1) Pre-Bid Conference                               | 0            | 0        | 0         | 0         | 0          | 4         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 4          | \$ 520.00           |
| 6.06 Respond to Contractor Requests for Information (RFIs)                        | 0            | 0        | 1         | 0         | 0          | 2         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 3          | \$ 476.00           |
| 6.07 Prepare and Issue a maximum of two (2) Addendum                              | 0            | 0        | 1         | 0         | 0          | 4         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 5          | \$ 736.00           |
| 6.09 Review and Evaluate Bid Tabulation   | 0            | 0        | 1         | 0         | 0          | 4         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 5          | \$ 736.00           |
| 6.11 Prepare a Recommendation of Award Letter                                     | 0            | 0        | 0         | 0         | 0          | 2         | 0          | 0         | 0        | 0        | 0        | 0        | 0        | 3          | \$ 334.00           |
| 6.13 Expenses (Travel, Mailings and Reprographics)                                | N/A          | N/A      | N/A       | N/A       | N/A        | N/A       | N/A        | N/A       | N/A      | N/A      | N/A      | N/A      | N/A      | N/A        | \$ 180.00           |
| <b>ADA Phase 4 Total</b>  | <b>0</b>     | <b>0</b> | <b>3</b>  | <b>0</b>  | <b>18</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>  | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>22</b>  | <b>\$ 3,250.00</b>  |
| <b>Expenses (Reimbursable)</b>  |              |          |           |           |            |           |            |           |          |          |          |          |          |            | <b>\$1,060.00</b>   |
| <b>ADA Grand Total Lump Sum Fee</b>   | <b>11</b>    | <b>0</b> | <b>47</b> | <b>0</b>  | <b>132</b> | <b>0</b>  | <b>107</b> | <b>0</b>  | <b>5</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>302</b> | <b>\$ 41,250.00</b> |

Prepared by: ADA Engineering, Inc.

# H E E

HILLERS ELECTRICAL ENGINEERING, INC.

April 30, 2014

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

**Subject:** Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TT 91/92: TASK 1-14-LNA-DOA-C-027 (2) LNA MULTI T-HANGARS (9 EACH BUILDING) & (2) CORPORATE HANGARS BUILDINGS 600 / 700 & APRON & WEST SECURITY GATE ELECTRICAL SERVICE DESIGN AND BIDDING SERVICES. Design proposal is based on CH provide information.

Dear Dan:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2MHILL (CH) an electrical design fee proposal for the DOA – LNA (2) Multi T-Hangars and (2) Corporate Hangars 600 /700 project. Design includes electrical, lighting, fire alarm systems.

The following items are included in our scope:

- Includes all DOA, Palm Beach County P&Z & Fire Marshal Departments, FPL, ATT, Cable Co. and CH design site visits & coordination meetings.
- Includes design & coordination with FPL Co. electrical distribution & multi metered electrical services for (2) multi-unit Corporate Hangars and the (2) multi- (9 units each) T-Hangar buildings and (1) main restroom unit.
- Includes design & coordination with ATT for main ductbank & conduit distribution system & individual building conduit telephone systems.
- Includes design & coordination with Cable Co. for main duct bank & conduit distribution system & individual building conduit systems.
- Includes (1) main fire alarm system for each multi-hangar building.
- Includes design of main electrical distribution and individual electrical systems (panel boards, general use receptacles, aircraft grounding system, fire alarm, electrically operated door) for each of the Corporate Hangars and T-Hangars facilities per current Palm Beach County P&Z Codes and NEC.
- Design interior and exterior building LED lighting systems and provide point-by-point lighting calculations to PBC P&Z for permitting approvals.
- Design Apron LED lighting system and provide point-by-point lighting calculations to PBC P&Z for permitting approvals.
- Design electrical, lighting systems 1- restroom facility for the (2) Multi-Unit T-Hangar buildings.
- Design new West Security Gate electrical service point. (Does not include any Security Gate systems beyond gate electrical panel.
- Design underground Security conduit & pull box system from main security building to new West Security Gate. (Security System communications cabling by others).

Mr. Daniel Tompkins, P.E., P.M.

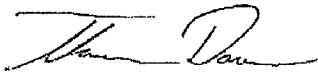
Scope & Fee Proposal for PBC DOA – (2) Multi-Unit Corporate & T-Hangars Buildings-  
Electrical, Lighting, Fire Alarm Design.

- CH shall provide all buildings and site base plans to HEE on AutoCad-2013.
- HEE shall provide 1- electronic set plans & specifications documents to CH for 30%, 60%, 90%, 100 % reviews, permits, bid sets.
- CH shall provide all printing of plans & specifications to DOA for reviews, bidding, permitting and construction phases.
- HEE shall provide electrical specifications, electrical bid items and cost estimates on Word to CH.
- HEE shall provide services during bid & award process.
- Does not include construction services.
- Does not include signage.
- Does not include any type of fire protection water systems.
- Does not include any type of site storm water, potable water and waste water systems and lift stations design.
- Does not include any type of security gates, access control and security camera systems.
- Does not include any type of parking lot and entrance road lighting systems.

Our proposed lump-sum fee for LNA Multi-Unit Facilities design is:        \$ 66,235.00

(See attachment for breakdown)

Sincerely,



Thomas Doran, Vice President

| <b>Palm Beach County Dept. Of Airports- LNA (2) Corporate Hangars &amp; 2- Multi- (9) Unit T-Hangars Buildings, Security Gate<br/> HILLERS ELECTRICAL ENGINEERING, INC. Electrical, Lighting, Fire Alarm Systems.</b> |                   |                    |                    |                    |               |                   |            |          |           |                    |
|---|-------------------|--------------------|--------------------|--------------------|---------------|-------------------|------------|----------|-----------|--------------------|
| <b>SCOPE FEE SUMMARY</b>  |                   |                    |                    |                    |               |                   |            |          |           |                    |
| <b>FEE PROPOSAL ELECTRICAL DESIGN to CH 04-30-14</b>  |                   |                    |                    |                    |               |                   |            |          |           |                    |
|   | Rate              | \$130.00           | \$120.00           | \$105.00           | \$85.00       | \$105.00          | \$55.00    |          |           |                    |
|   | Proj. Mgr.        | Prof. Eng.         | Proj. Eng.         | CADD/Tech          | Field Eng.    | Clerical          | Total      |          |           | TOTAL              |
| PHASE OF WORK   | Hours             | Hours              | Hours              | Hours              | Hours         | Hours             | Hours      | Expenses | TASK COST |                    |
| <b>DESIGN</b>   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   | 0          |          |           | \$0.00             |
| Dsgn Mtgs DOA, FPL, ATT, P&Z, CH  | 1                 | 16                 | 16                 |                    |               | 2                 | 35         |          |           | \$3,840.00         |
| FPL Design & Coord.   | 1                 | 8                  | 16                 | 12                 |               | 1                 | 38         |          |           | \$3,845.00         |
| ATT & Cable Co. Design & Coord.   | 1                 | 4                  | 12                 | 12                 |               | 1                 | 30         |          |           | \$2,945.00         |
| Elec. & Lighting Calculations   |                   | 4                  | 8                  | 8                  |               | 1                 | 21         |          |           | \$2,055.00         |
| (2) 9 Unit T-Hangars Permit Plans<br>Electrical, Lighting Systems   | 4                 | 56                 | 96                 | 88                 |               | 1                 | 245        |          |           | \$24,855.00        |
| (2) Corporate Hangars Permit Plans<br>Electrical, Lighting Systems  | 4                 | 40                 | 56                 | 40                 |               | 1                 | 141        |          |           | \$14,655.00        |
| West Security Gate Electrical Service   | 2                 | 8                  | 16                 | 8                  |               | 1                 | 35         |          |           | \$3,635.00         |
| Security Gate Conduit System to Main<br>Specifications, Bid Items, Estimates  | 1                 | 8                  | 8                  | 8                  |               | 1                 | 26         |          |           | \$2,665.00         |
| Bid & Award   | 4                 | 28                 | 8                  |                    |               | 28                | 68         |          |           | \$6,260.00         |
|   | 1                 | 4                  | 4                  | 4                  |               | 2                 | 15         |          |           | \$1,480.00         |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
| <b>Subtotal</b>   | <b>19</b>         | <b>176</b>         | <b>240</b>         | <b>180</b>         | <b>0</b>      | <b>39</b>         | <b>654</b> |          |           | <b>\$66,235.00</b> |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   | 0          |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   | 0          |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   | 0          |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   | 0          |          |           | \$0.00             |
| <b>Subtotal</b>   | <b>0</b>          | <b>0</b>           | <b>0</b>           | <b>0</b>           | <b>0</b>      | <b>0</b>          | <b>0</b>   |          |           | <b>\$0.00</b>      |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
| <b>Grand Total Hours</b>  | <b>19</b>         | <b>176</b>         | <b>240</b>         | <b>180</b>         | <b>0</b>      | <b>39</b>         | <b>654</b> |          |           |                    |
|   |                   |                    |                    |                    |               |                   |            |          |           | \$0.00             |
| <b>Grand Total Labor Cost</b>   | <b>\$2,470.00</b> | <b>\$21,120.00</b> | <b>\$25,200.00</b> | <b>\$15,300.00</b> | <b>\$0.00</b> | <b>\$2,145.00</b> |            |          |           | <b>\$66,235.00</b> |

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-PBI-C-028**  
**Palm Beach International Airport**  
**Concourse C Passenger Checkpoint Modification**  
**Bidding and Construction Administration Services**

**Table B-1**

Labor/Fee Estimate Summary (CH2M Hill) - Palm Beach International Airport - Concourse C Checkpoint Bidding and CA Services

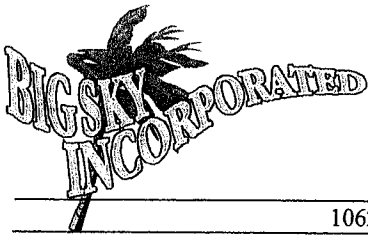
**Billing Rate:** \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 80.37 \$ 78.64 \$ 67.12

| Task Description  |   |  |  |                            |                          |                   |   |           |           |                     | Fee Estimate (\$) |                     |            |                     |                  |                     |
|---|---|--|--|----------------------------|--------------------------|-------------------|---|-----------|-----------|---------------------|-------------------|---------------------|------------|---------------------|------------------|---------------------|
|   | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer / Planner | Staff Engineer / Planner | Design Technician | Graphics Support / Administrative Manager | Admin.    | Total     | Labor               | Expenses          | Total               |            |                     |                  |                     |
| <b>Task I-14-PBI-C-028 - PBI Concourse C Checkpoint Bidding and CA Services</b> |   |  |  |                            |                          |                   |   |           |           |                     |                   |                     |            |                     |                  |                     |
| <b>1.0 Task Management</b>  | <b>0</b>  | <b>0</b>                                     | <b>8</b>                                       | <b>0</b>                   | <b>12</b>                | <b>0</b>          | <b>8</b>                                  | <b>4</b>  | <b>32</b> | <b>\$ 3,480.40</b>  | <b>\$ -</b>       | <b>\$ 3,480.40</b>  |            |                     |                  |                     |
| 1.1 Task Management   | 0   | 0  | 4  | 0                          | 8                        | 0                 | 4   | 2         | 18        | \$ 1,942.64         | \$ -              | \$ 1,942.64         |            |                     |                  |                     |
| 1.2 Task Coordination   | 0   | 0  | 4  | 0                          | 4                        | 0                 | 4   | 2         | 14        | \$ 1,517.76         | \$ -              | \$ 1,517.76         |            |                     |                  |                     |
| <b>2.0 Bidding Assistance</b>   | <b>0</b>  | <b>0</b>                                     | <b>2</b>                                       | <b>4</b>                   | <b>2</b>                 | <b>4</b>          | <b>0</b>                                  | <b>4</b>  | <b>16</b> | <b>\$ 1,641.32</b>  | <b>\$ 15.00</b>   | <b>\$ 1,656.32</b>  |            |                     |                  |                     |
| 2.1 Bidding Assistance  | 0   | 0  | 2  | 4                          | 2                        | 4                 | 0   | 4         | 16        | \$ 1,641.32         | \$ 15.00          | \$ 1,656.32         |            |                     |                  |                     |
| <b>3.0 Construction Administration</b>  | <b>0</b>  | <b>0</b>                                     | <b>2</b>                                       | <b>44</b>                  | <b>24</b>                | <b>20</b>         | <b>0</b>                                  | <b>6</b>  | <b>96</b> | <b>\$ 10,567.12</b> | <b>\$ 155.00</b>  | <b>\$ 10,722.12</b> |            |                     |                  |                     |
| 3.1 Pre-Construction Conference   | 0   | 0  | 0  | 2                          | 0                        | 0                 | 0   | 0         | 2         | \$ 258.44           | \$ 15.00          | \$ 273.44           |            |                     |                  |                     |
| 3.2 Site Inspections (6)  | 0   | 0  | 0  | 18                         | 0                        | 0                 | 0   | 0         | 18        | \$ 2,325.96         | \$ 60.00          | \$ 2,385.96         |            |                     |                  |                     |
| 3.3 Shop Drawings, Submittals, RFIs   | 0   | 0  | 2  | 12                         | 20                       | 4                 | 0   | 6         | 44        | \$ 4,721.28         | \$ -              | \$ 4,721.28         |            |                     |                  |                     |
| 3.4 Substantial & Final Completion  | 0   | 0  | 0  | 8                          | 0                        | 0                 | 0   | 0         | 8         | \$ 1,033.76         | \$ 30.00          | \$ 1,063.76         |            |                     |                  |                     |
| 3.5 Record Drawings   | 0   | 0  | 0  | 4                          | 4                        | 16                | 0   | 0         | 24        | \$ 2,227.68         | \$ 50.00          | \$ 2,277.68         |            |                     |                  |                     |
| <b>Total Fee - CH2M HILL, INC.</b>  | <b>0</b>  | <b>0</b>                                     | <b>12</b>                                      | <b>48</b>                  | <b>0</b>                 | <b>38</b>         | <b>0</b>                                  | <b>24</b> | <b>0</b>  | <b>8</b>            | <b>0</b>          | <b>14</b>           | <b>144</b> | <b>\$ 15,668.84</b> | <b>\$ 170.00</b> | <b>\$ 15,838.84</b> |

Total Subconsultant Lump Sum Fee - Big Sky Incorporated LS \$ 13,810.08  
 Total Subconsultant Lump Sum Fee - Hillers Electrical Engineering, Inc. LS \$ 6,440.00

|  |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |
|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|
| <b>Total Fee - PBI Concourse C Bidding and CA Services</b> | <b>\$ 36,088.92</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>\$ 15,838.84</b> |
| LS-Labor   | \$ 35,918.92        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |
| Reimbursable Expenses                                      | \$ 170.00           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |
| <b>Total</b>   | <b>\$ 36,088.92</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |

Prepared by: CH2M HILL, INC.



## PROPOSAL LETTER

Revised: May 9, 2014

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

SUBJECT: Palm Beach International Airport  
Concourse C Passenger Checkpoint Modification  
Bidding and Construction Administration Services  
(CH2M Hill Task # I-14-PBI-C-028)

Dear Mr. Tompkins:

The following scope of work and contract terms are proposed by Big Sky Incorporated to provide additional consulting services for bidding and construction administration services in association with the above referenced project.

**Scope of Work:** BSI shall assist CH2M Hill in the performance of bidding and construction administration services in accordance with the following:

1. Bidding Assistance
  - a. At CH2M Hill's request, BSI shall provide electronic files (PDF format) of all Bid Documents prepared by BSI;
  - b. BSI will assist CH2M Hill with the preparation of written responses to Bidder's Request for Information (RFIs) related to BSI's work;
  - c. BSI will assist CH2M Hill in the review and evaluation of the Contractor's proposal related to BSI's portion of the work
2. Construction Administration, to include:
  - a. Pre-Construction Conference: **It is assumed that BSI will not be required to attend this conference.**
  - b. Perform a maximum of **two (2)** periodic site inspections of the security and communications work throughout construction. Proposed services include preparation, travel time, and documentation;
  - c. Process, review and approve/respond to shop drawings and submittals related to BSI's work, to determine if the shop drawings and submittals generally conform to the design concept of the project and the requirements of the Contract Documents. For budgeting purposes, BSI assumes a maximum of **three (3)** shop drawings and/or submittals will be reviewed and estimated at

**Palm Beach International Airport  
Concourse C Passenger Checkpoint Modification Design Services  
Bid and Construction Administration Services Proposal**

**Page 1 of 2  
May 9, 2014**



an average of 2 hours each for processing, review, and approval. BSI will process shop drawings and maintain a log of contractor shop drawings and submittals. The submittal log will include the submittal date, the action taken, and the date returned.

- d. Provide design clarifications (RFIs) and recommendations, to assist the DOA representative in resolving field issues relating to the construction. For budgeting purposes, a maximum of **two (2) RFIs** estimated at 2 hours each for processing, review, and response.
- e. **For this proposal, it is assumed that BSI will not be required to perform substantial completion/final inspections to determine if the project has been generally completed in accordance with the Contract Documents.** To the extent possible, such inspections will be included under during the periodic inspections identified under item 2.b above.
- f. For all security and communications Contract Drawings produced for the project, BSI will provide one (1) set of reproducible drawings and CAD file "record drawings." These drawings will become the property of the DOA, corrected to show changes made in the work during construction of the project. Such corrections will be based upon "as-built" prints, drawings, field sketches, and other data furnished to BSI by the Contractor, upon change orders issued during construction. BSI will not verify the as-built information provided by the Contractor. Record drawings will be prepared in part on the basis of information compiled and furnished by others, and may not always represent the exact location, type of various components, or exact manner in which the project was finally constructed. BSI is not responsible for any errors and omissions in the information from others which are incorporated into the record drawings.

**Project Schedule** It is understood that the project will be complete within 150 Calendar Days of issuance of Notice to Proceed.

**Fee** The contract will be a lump sum fee of **\$12,045** plus expenses for the proposed work. Expenses are estimated at \$1,766 and shall be invoiced at cost in accordance with the provisions the DOA - CH2M Hill's master agreement. A basis of cost is attached for your reference.

Please return with signature.

Respectfully submitted,



Michael T. Williams  
VP of Operations

Approved by: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Concourse C Passenger Checkpoint Modification  
 Bidding and Construction Administration Services  
 Labor/Fee Estimate Summary (Big Sky)  
 Date: 5/9/2014

**Billing Rate:** \$ 248.58 \$ 208.89 \$ 123.10 \$ 82.78 \$ 76.74

| Task Description                       | Labor Estimate (Hours)                |                         |              |              |   |            |            | Fee Estimate (\$)   |                      |                      |
|--|---------------------------------------|-------------------------|--------------|--------------|---|------------|------------|---------------------|----------------------|----------------------|
|  | Program Manager / Sr. Project Manager | Senior Network Engineer | Engineer III | CADD Drafter | Technician I - Contractor Administrator | Total      | Labor      | Expenses            | Total                |                      |
| <b>1.0 Bidding Assistance</b>          | <b>Total</b>                          | <b>4</b>                | <b>0</b>     | <b>10</b>    | <b>2</b>                                | <b>0</b>   | <b>16</b>  | <b>\$ 2,391</b>     | <b>\$ -</b>          | <b>\$ 2,391</b>      |
| 1.1 Bid Documents Delivery             |                                       | 0                       | 0            | 2            | 2                                       | 0          | 4          | \$ 412              | \$ -                 | \$ 412               |
| 1.2 Bidder Questions                   |                                       | 0                       | 0            | 4            | 0                                       | 0          | 4          | \$ 492              | \$ -                 | \$ 492               |
| 1.3 Bid Evaluations                    |                                       | 4                       | 0            | 4            | 0                                       | 0          | 8          | \$ 1,487            | \$ -                 | \$ 1,487             |
| <b>2.0 Construction Administration</b> | <b>Total</b>                          | <b>18</b>               | <b>0</b>     | <b>34</b>    | <b>12</b>                               | <b>0</b>   | <b>64</b>  | <b>\$ 9,653</b>     | <b>\$ -</b>          | <b>\$ 9,653</b>      |
| 2.01 Pre-Construction Conference       |                                       | 0                       | 0            | 0            | 0                                       | 0          | 0          | \$ -                | \$ -                 | \$ -                 |
| 2.02 Periodic Site Inspections         |                                       | 16                      | 0            | 16           | 0                                       | 0          | 32         | \$ 5,947            | \$ -                 | \$ 5,947             |
| 2.03 Submittal Reviews                 |                                       | 0                       | 0            | 6            | 0                                       | 0          | 6          | \$ 739              | \$ -                 | \$ 739               |
| 2.04 RFI Responses                     |                                       | 0                       | 0            | 4            | 0                                       | 0          | 4          | \$ 492              | \$ -                 | \$ 492               |
| 2.05 Final Inspection                  |                                       | 0                       | 0            | 0            | 0                                       | 0          | 0          | \$ -                | \$ -                 | \$ -                 |
| 2.06 Record Drawings                   |                                       | 2                       | 0            | 8            | 12                                      | 0          | 22         | \$ 2,475            | \$ -                 | \$ 2,475             |
| <b>Labor Total</b>                     |                                       | <b>22</b>               | <b>0</b>     | <b>0</b>     | <b>44</b>                               | <b>0</b>   | <b>14</b>  | <b>0</b>            | <b>0</b>             | <b>0</b>             |
|  |                                       |                         |              |              |   |            | <b>80</b>  | <b>\$ 12,044.08</b> | <b>\$ -</b>          | <b>\$ 12,044.08</b>  |
| <b>3.0 Expenses</b>                    | <b>Total</b>                          |                         |              |              |   |            |            | <b>\$ 1,766.00</b>  | <b>\$ -</b>          | <b>\$ 1,766.00</b>   |
| 3.1 Airfare (2 man-trips)              |                                       |                         |              |              |   |            |            | \$ 900.00           | \$ -                 | \$ 900.00            |
| 3.2 Hotel (2 nights)                   |                                       |                         |              |              |   |            |            | \$ 304.00           | \$ -                 | \$ 304.00            |
| 3.3 Meals @ Incidentals (2 days)       |                                       |                         |              |              |   |            |            | \$ 142.00           | \$ -                 | \$ 142.00            |
| 3.4 Transportation (2 man-trips)       |                                       |                         |              |              |   |            |            | \$ 220.00           | \$ -                 | \$ 220.00            |
| 3.5 Miscellaneous                      |                                       |                         |              |              |   |            |            | \$ 200.00           | \$ -                 | \$ 200.00            |
| <b>Expense Total</b>                   |                                       | <b>0</b>                | <b># 0</b>   | <b># 0</b>   | <b># 0</b>                              | <b># 0</b> | <b># 0</b> | <b>\$ -</b>         | <b># \$ 1,766.00</b> | <b># \$ 1,766.00</b> |



*HILLERS ELECTRICAL ENGINEERING, INC.*

May 8, 2014

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

Subject: Electrical Engineering Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TASK I-14-PBI-C-028 CONCOURSE C PASSENGER CHECKPOINT MODIFICATION BIDDING AND CONSTRUCTION SERVICES PBC GENERAL CONSULTING SERVICES- ELECTRICAL & LIGHTING & FIRE ALARM SYSTEMS.

Dear Dan:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2M HILL (CH) an electrical construction services fee proposal for the DOA PBI Concourse C Checkpoint Construction Services.

The following tasks are included in our scope:

- Bid & Award
- Include review of Contractor submittal electrical & lighting cost estimates.
- Shop Submittal Reviews and Approvals.
- Includes RFI- Responses.
- Includes – (4) combination construction coordination meetings & periodic on-site observation visits.
- Review pay requests & recommend payments.
- Includes 1- preliminary & final punch list inspections.
- Includes Record” drawings per Contractors Red Line mark-ups.

Our proposed lump-sum electrical construction services fee is: \$ 6,440.

Sincerely,

Thomas Doran, Vice-President

**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBIA Concourse C Checkpoint Electrical, Lighting, Fire Alarm Project**  
**HILLERS ELECTRICAL ENGINEERING, INC. Construction Services**  
**SCOPE FEE SUMMARY**  
**FEE PROPOSAL ELECTRICAL DESIGN to CH 5-8-14**

|                                      | Rate            | \$130.00          | \$120.00          | \$105.00        | \$85.00       |                 | \$55.00   |          |                   |
|--------------------------------------|-----------------|-------------------|-------------------|-----------------|---------------|-----------------|-----------|----------|-------------------|
|                                      | Proj. Mgr.      | Prof. Eng         | Proj. Eng         | CADD/Tech       |               | Clerical        | Total     |          | TOTAL             |
| PHASE OF WORK                        | Hours           | Hours             | Hours             | Hours           | Hours         | Hours           | Hours     | Expenses | TASK COST         |
| <b>Construction Services</b>         |                 |                   |                   |                 |               |                 |           |          | \$0.00            |
| Bid & Award                          | 1               | 2                 | 2                 |                 |               | 1               | 6         |          | \$635.00          |
| Shop Drawing Reviews & Approvals     | 1               | 2                 | 8                 |                 |               | 1               | 12        |          | \$1,265.00        |
| RFI-Responses                        | 1               | 1                 | 1                 | 1               |               | 1               | 5         |          | \$495.00          |
| (4) Const. Meetings & On-Site Visits | 1               | 4                 | 16                |                 |               | 4               | 25        |          | \$2,510.00        |
| Review of Pay Requests               |                 | 1                 | 1                 |                 |               | 1               | 3         |          | \$280.00          |
| Preliminary & Final Inspections      | 1               | 2                 | 2                 |                 |               | 1               | 6         |          | \$635.00          |
| Record Drawings                      |                 | 1                 | 1                 | 4               |               | 1               | 7         |          | \$620.00          |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
| <b>Subtotal</b>                      | <b>5</b>        | <b>13</b>         | <b>31</b>         | <b>5</b>        | <b>0</b>      | <b>10</b>       | <b>64</b> |          | <b>\$6,440.00</b> |
|                                      |                 |                   |                   |                 |               |                 |           |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 |           |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 | 0         |          | \$0.00            |
| <b>Subtotal</b>                      | <b>0</b>        | <b>0</b>          | <b>0</b>          | <b>0</b>        | <b>0</b>      | <b>0</b>        | <b>0</b>  |          | <b>\$0.00</b>     |
|                                      |                 |                   |                   |                 |               |                 |           |          | \$0.00            |
|                                      |                 |                   |                   |                 |               |                 |           |          | \$0.00            |
| <b>Grand Total Hours</b>             | <b>5</b>        | <b>13</b>         | <b>31</b>         | <b>5</b>        | <b>0</b>      | <b>10</b>       | <b>64</b> |          |                   |
|                                      |                 |                   |                   |                 |               |                 |           |          | \$0.00            |
| <b>Grand Total Labor Cost</b>        | <b>\$650.00</b> | <b>\$1,560.00</b> | <b>\$3,255.00</b> | <b>\$425.00</b> | <b>\$0.00</b> | <b>\$550.00</b> |           |          | <b>\$6,440.00</b> |

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-PBI-C-029**  
**Palm Beach International Airport**  
**Construct Taxiway W**  
**Supplemental Design Services**

Table B-1

Labor/Fee Estimate Summary (CH2M Hill) - Palm Beach County Department of Airports - Construct Taxiway W - Supplemental Design Services

Billing Rate: \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 112.60 \$ 80.37 \$ 78.64 \$ 67.12

Fee Estimate (\$)

| Task Description  | Program Manager /<br>Principal / Senior<br>Consultant | Senior<br>Technologist /<br>Senior Project<br>Manager | Project<br>Manager /<br>Design Manager<br>/ Task Leader | Project<br>Engineer /<br>Planner | Staff Engineer /<br>Planner | Senior<br>Technician | Design<br>Technician | Graphics Support<br>/ Administrative<br>Manager | Admin.   | Total      | Labor               | Expenses        | Total               |
|---|---|---|---|----------------------------------|-----------------------------|----------------------|----------------------|---|----------|------------|---------------------|-----------------|---------------------|
| <b>Task I-14-PBI-C-029 - PBIA Construct Taxiway W Supplemental Design Services</b>                              |   |   |   |                                  |                             |                      |                      |   |          |            |                     |                 |                     |
| <b>1.0 PBIA Taxiway W Supplemental Design Services</b>  | <b>0</b>  | <b>0</b>  | <b>16</b>   | <b>84</b>                        | <b>68</b>                   | <b>24</b>            | <b>138</b>           | <b>10</b>                                       | <b>8</b> | <b>356</b> | <b>\$ 37,417.78</b> | <b>\$ 30.00</b> | <b>\$ 37,447.78</b> |
| 1.01 Coordination Meetings (2 Max., DOA, Signature, Other Consultants)  | 0   | 0   | 4   | 4                                | 0                           | 0                    | 0                    | 0   | 0        | 8          | \$ 1,160.96         | \$ 30.00        | \$ 1,190.96         |
| 1.02 Conceptual Drawings (6 Max.)   | 0   | 0   | 2   | 8                                | 0                           | 0                    | 14                   | 0   | 0        | 24         | \$ 2,480.98         | \$ -            | \$ 2,480.98         |
| 1.03 Update Engineer's Report   | 0   | 0   | 0   | 8                                | 12                          | 0                    | 8                    | 0   | 4        | 32         | \$ 3,219.84         | \$ -            | \$ 3,219.84         |
| 1.04 Update Engineer's Opinion of Probable Construction Cost Estimate   | 0   | 0   | 0   | 8                                | 4                           | 0                    | 8                    | 0   | 0        | 20         | \$ 2,101.60         | \$ -            | \$ 2,101.60         |
| 1.04 Update General Plans (Dwg Index, Qtys, Schedule, Safety Plan, Phasing and MOT, Survey, Boring)             | 0   | 0   | 0   | 4                                | 8                           | 4                    | 16                   | 0   | 0        | 32         | \$ 3,102.96         | \$ -            | \$ 3,102.96         |
| 1.05 Update Demolition Plans  | 0   | 0   | 0   | 4                                | 0                           | 0                    | 12                   | 0   | 0        | 16         | \$ 1,481.32         | \$ -            | \$ 1,481.32         |
| 1.06 Update Geometry Plans  | 0   | 0   | 0   | 16                               | 8                           | 4                    | 12                   | 0   | 0        | 40         | \$ 4,332.12         | \$ -            | \$ 4,332.12         |
| 1.07 Update Marking Plans   | 0   | 0   | 0   | 4                                | 8                           | 0                    | 12                   | 0   | 0        | 24         | \$ 2,331.08         | \$ -            | \$ 2,331.08         |
| 1.08 Update Grading Plans   | 0   | 0   | 0   | 16                               | 20                          | 12                   | 32                   | 0   | 0        | 80         | \$ 8,114.96         | \$ -            | \$ 8,114.96         |
| 1.09 Update Cross Section Layout and Section Plans  | 0   | 0   | 0   | 8                                | 4                           | 4                    | 20                   | 0   | 0        | 36         | \$ 3,516.44         | \$ -            | \$ 3,516.44         |
| 1.10 Task Management  | 0   | 0   | 8   | 0                                | 0                           | 0                    | 0                    | 10  | 4        | 22         | \$ 2,343.04         | \$ -            | \$ 2,343.04         |
| Task Coordination (DOA, Signature Flight Support, other Consultants, and other interested project Stakeholders) | 0   | 0   | 2   | 4                                | 4                           | 0                    | 4                    | 0   | 0        | 14         | \$ 1,585.28         | \$ -            | \$ 1,585.28         |
| 1.12 Task Independent Technical Review (ITR) - Quality Assurance / Quality Control                              | 0   | 8   | 0   | 0                                | 0                           | 0                    | 0                    | 0   | 0        | 8          | \$ 1,647.20         | \$ -            | \$ 1,647.20         |
| <b>CH2M HILL Total Lump Sum Fee</b>   | <b>0</b>  | <b>8</b>  | <b>16</b>   | <b>84</b>                        | <b>68</b>                   | <b>24</b>            | <b>138</b>           | <b>10</b>                                       | <b>8</b> | <b>356</b> | <b>\$ 37,417.78</b> | <b>\$ 30.00</b> | <b>\$ 37,447.78</b> |

|  |     |              |
|--|-----|--------------|
| Subconsultant Fee - Hillers Electrical Engineering, Inc. | LS  | \$ 12,765.00 |
| Subconsultant Fee - Brown & Phillips, Inc.               | T&M | \$ 3,815.00  |
| Subconsultant Fee - Tierra South Florida, Inc.           | T&M | \$ 5,840.00  |
| Subconsultant Fee - F.R. Aleman & Associates, Inc.       | T&M | \$ 2,175.85  |

**Total Fee - Subconsultants \$ 24,595.85**

**Total Fee - Supplemental Design Services \$ 62,043.63**

|                       |                     |
|-----------------------|---------------------|
| LS                    | \$ 50,212.78        |
| T&M                   | \$ 11,830.85        |
| Reimbursable Expenses | \$ -                |
| <b>Total</b>          | <b>\$ 62,043.63</b> |

Prepared by: CH2M HILL, INC.

# H E E

HILLERS ELECTRICAL ENGINEERING, INC.

June 6, 2014

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

Subject: Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TASK I-14-PBI-C-029 (REVISIONS TO CURRENT 75% DESIGN DOCUMENTS FOR TAXIWAY “W” – ELECTRICAL, LIGHTING, SIGNAGE, SYSTEMS DESIGN- REVISIONS TO TAXIWAY “A” TO TGD IV TO EXISTING & FUTURE NET JETS DEVELOPMENT.

Dear Dan:

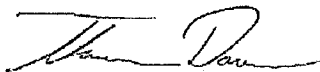
Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2M HILL (CH) an electrical design services fee proposal for the revisions to current 75% Taxiway “W” Electrical, Lighting, Signage Systems design documents.

**The following tasks are included in our scope of services:**

- Includes updated electrical calculations.
- Includes updated airfield computer controlled panel system modifications for new taxilanes.
- Includes modifications to the current 75% design documents for edge lighting systems.
- Includes modifications to the current 75% design documents for airfield signage layouts and signage schedules.
- Includes modifications to the current 75% airfield lighting electrical plans reflecting all cable & conduit systems, edge lighting installations, electrical for signage, airfield vault modification, duct bank systems and installation details for all electrical & lighting equipment installations.
- Includes modifications to the current 75% specifications and bid line items / cost estimates.
- HEE shall provide electrical design documents to CH 1-electronic set for 100% reviews permits and bid phases.
- CH shall provide all printing of Plans & Specifications for reviews, bid phases, permits to the DOA.
- Bid & Award services already included under Task I-13-PBI-C-009.
- Does not include Construction services.

Our proposed Lump-Sum for Design & Bid & Award is: \$ 12,765  
(See attachment breakdown)

Sincerely,



Thomas Doran, Vice-President

| PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBIAX Taxiay W- Electrical & Lighting & Signage Design. |                 |                   |                   |                   |               |                 |            |          |                    |
|---|-----------------|-------------------|-------------------|-------------------|---------------|-----------------|------------|----------|--------------------|
| HILLERS ELECTRICAL ENGINEERING, INC.  |                 |                   |                   |                   |               |                 |            |          |                    |
| SCOPE FEE SUMMARY   |                 |                   |                   |                   |               |                 |            |          |                    |
| FEE PROPOSAL ELECTRICAL DESIGN to CH 6-06-14  |                 |                   |                   |                   |               |                 |            |          |                    |
|   | Rate            | \$130.00          | \$120.00          | \$105.00          | \$85.00       |                 | \$55.00    |          |                    |
|   | Proj. Mgr.      | Prof. Eng         | Proj. Eng         | CADD/Tech         |               | Clerical        | Total      |          | TOTAL              |
| PHASE OF WORK   | Hours           | Hours             | Hours             | Hours             | Hours         | Hours           | Hours      | Expenses | TASK COST          |
| <b>DESIGN</b>   |                 |                   |                   |                   |               |                 |            |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
| Electrical Calculations   |                 | 4                 |                   |                   |               |                 | 4          |          | \$480.00           |
| Airfield Lighting Control System  | 1               | 2                 | 2                 |                   |               | 1               | 6          |          | \$635.00           |
| Taxiway Edge Lighting System Modifications  | 2               | 12                | 20                | 16                |               | 1               | 51         |          | \$5,215.00         |
| Airfield Signage & Schedules  | 1               | 8                 | 16                | 8                 |               | 1               | 34         |          | \$3,505.00         |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
| Specifications & Cost Estimates & Bid Items   | 1               | 10                | 10                |                   |               | 10              | 31         |          | \$2,930.00         |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
| <b>Subtotal</b>   | <b>5</b>        | <b>36</b>         | <b>48</b>         | <b>24</b>         | <b>0</b>      | <b>13</b>       | <b>126</b> |          | <b>\$12,765.00</b> |
|   |                 |                   |                   |                   |               |                 |            |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 |            |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 | 0          |          | \$0.00             |
| <b>Subtotal</b>   | <b>0</b>        | <b>0</b>          | <b>0</b>          | <b>0</b>          | <b>0</b>      | <b>0</b>        | <b>0</b>   |          | <b>\$0.00</b>      |
|   |                 |                   |                   |                   |               |                 |            |          | \$0.00             |
|   |                 |                   |                   |                   |               |                 |            |          | \$0.00             |
| <b>Grand Total Hours</b>  | <b>5</b>        | <b>36</b>         | <b>48</b>         | <b>24</b>         | <b>0</b>      | <b>13</b>       | <b>126</b> |          |                    |
|   |                 |                   |                   |                   |               |                 |            |          | \$0.00             |
| <b>Grand Total Labor Cost</b>   | <b>\$650.00</b> | <b>\$4,320.00</b> | <b>\$5,040.00</b> | <b>\$2,040.00</b> | <b>\$0.00</b> | <b>\$715.00</b> |            |          | <b>\$12,765.00</b> |



**BROWN & PHILLIPS, Inc.**  
PROFESSIONAL SURVEYING SERVICES

June 5, 2014

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

**Re: PBIA Construct Taxiway W (North-South Taxilane) Project Supplemental Design Services  
Topographic Survey**

Dear Mr. Tompkins:

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

**SCOPE OF SERVICES**

**I. TOPOGRAPHIC SURVEY**

Utilizing the control established previously for the North-South Taxilane Design Phase Topographic Survey Project (#13-026), we will perform a supplemental topographic survey for the shoulder on the north side of Taxiway A up to the second light east of sign, across from Taxiway A1 edge, as shown on Attachment 'B', and layout two (2) additional CBRs, two (2) pavement cores, and two (2) borings.

The supplemental topographic survey will include the following:

- Pavement shots on a minimum 10-foot grid on existing pavement and the existing taxiway in the project areas identified;
- Ground shots on a minimum 25-foot grid;
- Additional ground shots within the survey limits of proposed construction area as needed to define unique topographic features such as depressions and ditches;
- Drainage Structures and Culverts including rim, invert, material, and direction of culverts;
- Water and sewer markers, valve boxes, hydrants and appurtenances;
- Electrical Manholes, number, size, and direction of conduit;
- Miscellaneous Structures within the survey limits of the proposed construction area;
- Stake out two (2) additional CBRs, cores, borings and utility sweeps

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor. The survey will be performed at two tenths of a foot contour interval and the final drawings will be provided to Consultant in AutoCAD format at 1"=50' scale.

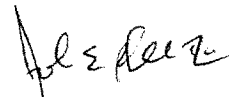
1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409  
(561) 615-3988 • Fax (561) 615-3991

**II. CLOSURE**

Existing survey drawings will be updated to reflect the additional survey and a drawing will be produced (1"=50' scale) which will show all the features located. We propose to provide CH2M Hill with five (5) hard copies, an electronic file in ascii and AutoCAD in the version requested, and a copy of the survey field notes and calculations. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for a **not to exceed fee of \$3,815.00** (see Attachment 'A' for an estimated hourly breakdown). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

**Brown & Phillips, Inc.**



John E. Phillips, III, P.L.S.  
President

JEP/mb

Attachments

Accepted This \_\_\_\_\_ Day Of \_\_\_\_\_, 2014.

CH2M Hill

By: \_\_\_\_\_

Print Name: \_\_\_\_\_



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

PBIA Taxiway W (North-South Taxilane) Supplemental Design Services Topographic Survey

Type of Survey: Topographic

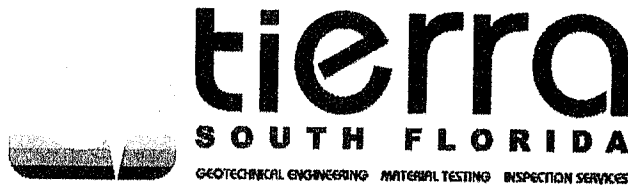
Size:

Date: June 5, 2014

| TASK                                    | 2 MAN CREW | CADD TECH | SURVEY TECH | PLS      | COMMENTS  |
|---|------------|-----------|-------------|----------|---|
| Meetings and Coordination               |            |           |             |          |   |
| Control                                 | 2          |           | 1           |          | Find/establish control                                    |
| Topography                              | 2          |           | 1           |          | Locate above ground improvements - canal, utilities, etc. |
| Cross Sections - Ground                 | 3          |           | 3           | 2        | Cross sections on 25' grid, update TIN                    |
| Cross Sections - Taxiway                | 5          |           | 4           | 2        | Cross sections on a 10' grid, update TIN                  |
| Stake utility sweeps and pavement cores | 2          |           | 1           |          |   |
| CADD Base Drawing                       |            | 6         | 2           | 1        | Prepare cadd drawing                                      |
|   |            |           |             |          |   |
| <b>Total Hours:</b>                     | 14         | 6         | 12          | 5        |   |
| <b>Rate/Hour</b>                        | \$125.00   | \$80.00   | \$80.00     | \$125.00 |   |
| <b>Subtotal:</b>                        | \$1,750.00 | \$480.00  | \$960.00    | \$625.00 |   |
| <b>Total Labor Cost:</b>                |            |           |             |          | <b>\$3,815.00</b>   |

| <u>Other Direct Costs:</u>       | <u>quantity</u> | <u>unit</u>   | <u>cost/unit</u> | <u>total</u>      |
|----------------------------------|-----------------|---------------|------------------|-------------------|
| Prints                           |                 | sheet         | \$1.50           | \$0.00            |
| Shipping                         |                 | cost x markup | 1.20             | \$0.00            |
| Other                            |                 |               |                  | \$0.00            |
| <b>Total Other Direct Costs:</b> |                 |               |                  | <b>\$0.00</b>     |
| <b>TOTAL PRICE</b>               |                 |               |                  | <b>\$3,815.00</b> |





June 5, 2014

June 3, 2014

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

Attention: Mr. Dan C. Tompkins, P.E.  
Project Manager

Re: **Proposal for Design Phase Geotechnical Services**  
**PBIA Construct Taxiway W - Supplemental Design Services**  
**Palm Beach County, Florida**  
**TSF Proposal No.: 1406-281 Revised**

Dear Dan:

As requested, **Tierra South Florida, Inc. (TSF)** is pleased to submit this proposal for the above-referenced project. The proposal is based on e-mail from Mr. John Thompson, P.E. of CH2M Hill, Inc. dated May 30, 2014.

We understand that additional CBR tests, 2 pavement cores and 2 SPT borings to a depth of 10 feet will be required as part of revised design based on recent changes to AC 150/5300-13A associated with fillet geometry and scope additions associated with the existing and proposed Signature/Net Jets Development.

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

#### **PROPOSED SCOPE OF WORK**

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194. As outlined in the above mentioned email, our scope of work will consist of:

- Collecting, sampling and testing two (2) laboratory CBR's;
- 2 pavement cores including asphalt and base materials thicknesses an material type;
- 2 Standard Penetration Test (SPT) Borings to a depth of 10 feet;
- Update Geotechnical Investigation Report incorporating the additional soils investigation and findings prepared and previously submitted as a part of the original scope of work, Task I-13-PBI-C-009 – North-South Taxilane Design and Bidding Services.

---

2765 VISTA PARKWAY, SUITE 10 · WEST PALM BEACH, FLORIDA 33411  
(561) 687-8539 · FAX (561) 687-8570  
*State of Florida Professional Engineers License #28073*

Test locations will be located in the field by CH2M Hill's following field services site visit.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. We believe that some coordination will likely be required to perform the field operations. As we understand, all work will be conducted in the day time. Our field work will be performed by TSF personnel with a security badge. **It is our understanding that the work will be coordinated with CH2MHill and DOA.**

#### **ESTIMATED FEES**

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, our fee will be approximately **\$5,840.**

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

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

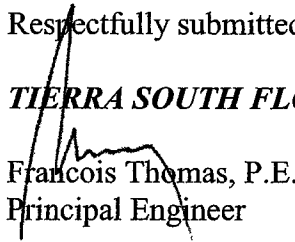
#### **SCHEDULE AND AUTHORIZATION**

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 1 day to complete. The written report can be submitted within two weeks after completion of the field exploration. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

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

Respectfully submitted,

**TIERRA SOUTH FLORIDA, INC.**

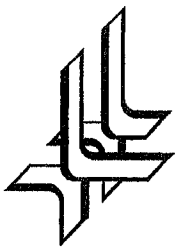
  
Francois Thomas, P.E.  
Principal Engineer

Attachments: 1. Fee Estimate

TIERRA SOUTH FLORIDA, INC 2009/2010  
 STARDARD UNIT FEE  
 SCHEDULE (Construct Taxiway W Supplemental Design Services)

**DAY RATES**

|   | Unit     | # of Units | Unit Price | Total           |
|---|----------|------------|------------|-----------------|
| <b>I. FIELD INVESTIGATION</b>                                     |          |            |            |                 |
| Mobilization of Men and Equipment                                 |          |            |            |                 |
| Truck-Mounted Equipment   | LS       | 1          | \$ 350.00  | \$ 350.00       |
| Specialized ATV/Mudbug  | Trip     | 0          | \$ 720.00  | \$ 0.00         |
| Support Vehicle   | Day      | 1          | \$ 150.00  | \$ 150.00       |
| Standard Penetration Test Borings<br>(By Truck-Mounted Equipment) |          |            |            |                 |
| Land: 0 - 50 ft depth   | L.F.     | 20         | \$ 12.00   | \$ 240.00       |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 14.00   | \$ 0.00         |
| Grout-Seal Boreholes<br>(By Truck-Mounted Equipment)              |          |            |            |                 |
| Land: 0 - 50 ft depth   | L.F.     | 20         | \$ 5.50    | \$ 110.00       |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 6.50    | \$ 0.00         |
| Double Ring Infiltration Test                                     | Test     | 0          | \$ 500.00  | \$ 0.00         |
| Field Permeability Tests  | Test     | 0          | \$ 275.00  | \$ 0.00         |
| Pavement Cores, Asphalt   | Each     | 2          | \$ 225.00  | \$ 450.00       |
| Coring Machine plus generator rental                              | Trip     | 1          | \$ 400.00  | \$ 400.00       |
| Field CBR   | Each     | 0          | \$ 300.00  | \$ 0.00         |
| MOT (if required)   | Each     | 0          | \$ 800.00  | \$ 0.00         |
| <b>II. LABORATORY TESTING</b>                                     |          |            |            |                 |
| Visual Examination/Stratify                                       | Per Hour | 4          | \$ 100.00  | \$ 400.00       |
| Natural Moisture Content Tests                                    | Test     | 0          | \$ 10.00   | \$ 0.00         |
| Grain-Size Analysis - Full Gradation                              | Test     | 1          | \$ 65.00   | \$ 65.00        |
| Grain-Size Analysis - Single Sieve                                | Test     | 0          | \$ 35.00   | \$ 0.00         |
| Organic Content Tests   | Test     | 1          | \$ 35.00   | \$ 35.00        |
| Atterberg Limit Tests   | Test     | 0          | \$ 75.00   | \$ 0.00         |
| Liquid Limit Tests (Only)   | Test     | 0          | \$ 52.00   | \$ 0.00         |
| Plastic Limit Tests (Only)  | Test     | 0          | \$ 33.50   | \$ 0.00         |
| Laboratory CBR + Sampling   | Test     | 2          | \$ 500.00  | \$ 1,000.00     |
| Grain-Size with Hydrometer  | Test     | 0          | \$ 115.00  | \$ 0.00         |
| Proctor Test a) Modified  | Test     | 0          | \$ 108.00  | \$ 0.00         |
| b) Standard   | Test     | 0          | \$ 102.00  | \$ 0.00         |
| Bitumen Extraction  | Test     | 0          | \$ 150.00  | \$ 0.00         |
| Bitumen Gradation   | Test     | 0          | \$ 150.00  | \$ 0.00         |
| FDOT Corrosion series   | Each     | 0          | \$ 185.00  | \$ 0.00         |
| <b>III. ENGINEERING/COORDINATION/MANAGEMENT</b>                   |          |            |            |                 |
| Project Manager   | Hour     | 1          | \$ 165.00  | \$ 165.00       |
| Principal Engineer  | Hour     | 0          | \$ 150.00  | \$ 0.00         |
| Senior Engineer   | Hour     | 2          | \$ 125.00  | \$ 250.00       |
| Project Engineer  | Hour     | 8          | \$ 100.00  | \$ 800.00       |
| Senior Technician   | Hour     | 16         | \$ 75.00   | \$ 1,200.00     |
| CADD  | Hour     | 3          | \$ 75.00   | \$ 225.00       |
|   |          |            | \$         | <b>5,840.00</b> |



# F.R. ALEMAN

& Associates, Inc.  
CONSULTING ENGINEERS & SURVEYORS  
10305 N.W. 41<sup>st</sup> Street, Suite 200  
Miami, Florida 33178  
TEL: (305) 591-8777  
FAX: (305) 599-8749

CONSULTING ENGINEERS & SURVEYORS  
www.FR-Aleman.com  
Email: dennis.stanton@FR-Aleman.com

June 9, 2014

**CH2MHILL, INC.**

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

**RE: Project Name: Construct W (North-South Taxilane) Supplemental Design Services**  
**Project Title: Utility Sweeps**  
**Facility Name: Palm Beach International Airport**

**SUBJECT: Price Proposal for Designation Services**

Dear Mr. Tompkins

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

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

**DESCRIPTION OF SERVICES**

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

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

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



Electromagnetic & GPR Field Survey

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

**CONDITIONS – Locating of underground utilities for pre-excavation**

- Utility Locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation.
- Areas to be surveyed with GPR must be level and free of obstructions.
- Results are dependent upon field conditions at the time of locating services.
- If underground facilities are damaged, whether marked by FRA or not, it is your obligation to notify a representative of FRA within 48 hours of the damage.
- Prior to excavation, the contractor is responsible for securing locations of public utilities through Sunshine State One Call of Florida (811).
- Airside Access or Badges provided by others (FRA personnel will obtain Airport Badges).

| <b>F.R. ALEMAN &amp; ASSOCIATES, INC.<br/>S.U.E. SERVICES PRICE PROPOSAL</b> |            |          |                   |
|--|------------|----------|-------------------|
| ITEM DESCRIPTION   | RATE       | QUANTITY | ITEM PRICE        |
| 3 PERSON CREW<br>LOCATING AND<br>DESIGNATING CREW<br>HOURLY                  | \$1,468.15 | 1 Days   | \$ 1,468.15       |
| Project Manager  | \$159.85   | 2 Hours  | \$ 319.70         |
| Utility Coordinator  | \$ 97.00   | 4 Hours  | \$ 388.00         |
| <b>TOTAL COST</b>  |            |          | <b>\$2,175.85</b> |

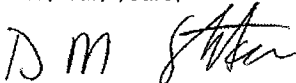
F.R. Aleman & Associates, Inc. appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through July 09, 2014, after which it shall be subject to reconfirmation by FRA. If this proposal is accepted prior to the above date, this pricing will be in effect for the next 30 days, after which time shall be subject to review and adjustment by FRA.

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

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

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

Very truly yours,



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

X:\Marketing\Departmental Marketing\Proposals\CH2MHILL\PRICE PROPOSAL\PBIA\_N-S\_Taxilane(06-09-14).doc

|                             |  |
|-----------------------------|--|
| <b>ACCEPTED AND AGREED:</b> |  |
| Client: CH2MHILL, INC.      |  |
| By: _____                   |  |
| Name: _____                 |  |
| Title: _____                |  |
| Date: _____                 |  |

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-PBI-C-030**  
**Palm Beach International Airport**  
**Taxiway D & E Rehabilitation / Reconstruction**  
**Supplemental Design Services**

Table B-1  
 Labor/Fee Estimate Summary (CH2M Hill) - Palm Beach County Department of Airports - Taxiway D & E - Supplemental Design Services

Billing Rate: \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 112.60 \$ 80.37 \$ 78.64 \$ 67.12

Fee Estimate (\$)

| Task Description  | Program Manager /<br>Principal / Senior<br>Consultant | Senior<br>Technologist /<br>Senior Project<br>Manager | Project<br>Manager /<br>Design Manager<br>/ Task Leader | Project<br>Engineer /<br>Planner | Staff Engineer /<br>Planner | Senior<br>Technician | Design<br>Technician | Graphics Support<br>/ Administrative<br>Manager | Admin.    | Total      | Labor               | Expenses            | Total               |                     |
|---|---|---|---|----------------------------------|-----------------------------|----------------------|----------------------|---|-----------|------------|---------------------|---------------------|---------------------|---------------------|
| <b>Task I-14-PBI-C-030 - PBI Taxiway D &amp; E Supplemental Design Services</b>   |   |   |   |                                  |                             |                      |                      |   |           |            |                     |                     |                     |                     |
| <b>1.0 PBI Taxiway D &amp; E Supplemental Design Services</b>   | <b>Total</b>  | <b>0</b>  | <b>8</b>  | <b>14</b>                        | <b>48</b>                   | <b>56</b>            | <b>20</b>            | <b>94</b>                                       | <b>8</b>  | <b>10</b>  | <b>258</b>          | <b>\$ 27,159.46</b> | <b>\$ -</b>         | <b>\$ 27,159.46</b> |
| 1.01 Define Topographic Survey, Geotechnical and Utility Location Limits  | 0   | 0   | 2   | 8                                | 0                           | 0                    | 0                    | 0   | 0         | 10         | \$ 1,355.80         | \$ -                | \$ 1,355.80         |                     |
| 1.02 Update Engineer's Report   | 0   | 0   | 0   | 2                                | 4                           | 0                    | 4                    | 0   | 4         | 14         | \$ 1,273.28         | \$ -                | \$ 1,273.28         |                     |
| 1.03 Update Engineer's Opinion of Probable Construction Cost Estimate   | 0   | 0   | 2   | 4                                | 8                           | 0                    | 10                   | 0   | 0         | 24         | \$ 2,492.38         | \$ -                | \$ 2,492.38         |                     |
| 1.04 Demolition Plans   | 0   | 0   | 0   | 4                                | 2                           | 0                    | 8                    | 0   | 0         | 14         | \$ 1,372.28         | \$ -                | \$ 1,372.28         |                     |
| 1.05 Geometry Plans   | 0   | 0   | 0   | 8                                | 4                           | 2                    | 16                   | 0   | 0         | 30         | \$ 2,969.76         | \$ -                | \$ 2,969.76         |                     |
| 1.06 Marking Plans  | 0   | 0   | 0   | 2                                | 4                           | 2                    | 8                    | 0   | 0         | 16         | \$ 1,551.48         | \$ -                | \$ 1,551.48         |                     |
| 1.07 Grading Plans  | 0   | 0   | 0   | 8                                | 20                          | 8                    | 24                   | 0   | 0         | 60         | \$ 5,987.84         | \$ -                | \$ 5,987.84         |                     |
| 1.08 Cross Section Layout and Section Plans   | 0   | 0   | 0   | 4                                | 10                          | 8                    | 20                   | 0   | 0         | 42         | \$ 4,087.28         | \$ -                | \$ 4,087.28         |                     |
| 1.09 Task Management  | 0   | 0   | 8   | 0                                | 0                           | 0                    | 0                    | 8   | 4         | 20         | \$ 2,185.76         | \$ -                | \$ 2,185.76         |                     |
| Task Coordination (DOA, ATCT, Operations, Signature Flight Support, Jet Aviation, other Consultants, and other interested project Stakeholders) | 0   | 0   | 2   | 8                                | 4                           | 0                    | 4                    | 0   | 2         | 20         | \$ 2,236.40         | \$ -                | \$ 2,236.40         |                     |
| 1.10 Task Independent Technical Review (ITR) - Quality Assurance / Quality Control  | 0   | 8   | 0   | 0                                | 0                           | 0                    | 0                    | 0   | 0         | 8          | \$ 1,647.20         | \$ -                | \$ 1,647.20         |                     |
| <b>CH2M HILL Total Lump Sum Fee</b>   | <b>0</b>  | <b>8</b>  | <b>14</b>   | <b>48</b>                        | <b>56</b>                   | <b>20</b>            | <b>94</b>            | <b>8</b>  | <b>10</b> | <b>258</b> | <b>\$ 27,159.46</b> | <b>\$ -</b>         | <b>\$ 27,159.46</b> |                     |

|  |     |    |           |  |
|--|-----|----|-----------|--|
| Subconsultant Fee - ADA Engineering, Inc.                | LS  | \$ | 20,714.00 |  |
| Subconsultant Fee - Hillers Electrical Engineering, Inc. | LS  | \$ | 31,780.00 |  |
| Subconsultant Fee - Brown & Phillips, Inc.               | T&M | \$ | -         | Supplemental Topographic Surveying to Utilize Remaining Available T&M Funds, Task I-13-PBI-C-020 |
| Subconsultant Fee - Tierra South Florida, Inc.           | T&M | \$ | 4,840.00  |  |
| Subconsultant Fee - F.R. Aleman & Associates, Inc.       | T&M | \$ | 2,175.85  |  |

**Total Fee - Subconsultants** \$ **59,509.85**

**Total Fee - Supplemental Design Services** \$ **86,669.31**

|                       |    |           |
|-----------------------|----|-----------|
| LS                    | \$ | 79,653.46 |
| T&M                   | \$ | 7,015.85  |
| Reimbursable Expenses | \$ | -         |
| Total                 | \$ | 86,669.31 |

Prepared by: CH2M HILL, INC.



June 9, 2014

Dan Tompkins, P.E.  
CH2M Hill  
3001 PGA Boulevard, Suite 300  
Palm Beach Gardens, Florida 33410

**REFERENCE: Palm Beach International Airport  
Taxiway D and E Rehabilitation / Reconstruction  
Design and Bidding Services – Supplemental Design Services**

Dear Mr. Tompkins:

ADA Engineering, Inc. is pleased to present CH2M HILL with the following proposal for the above-referenced project. Attached you will find a Statement of Work (Exhibit A) and associated Labor Fee Estimate (Exhibit B) for your consideration. ADA will assist CH2M HILL with the drainage aspect of this project, including a Letter Modification for the Environmental Resource Permit (ERP) with the South Florida Water Management District (SFWMD). The total lump sum fee considered is \$20,714.00.

We look forward to working with you on this project. Should you have any further questions or concerns, please feel free to contact me at (561) 615-8880, extension 201.

Sincerely,

A handwritten signature in black ink, appearing to read "Alex Vazquez", written over a white background.

Alex Vazquez, P.E.  
Vice President

Attachments: *Exhibit A – Statement of Work*  
*Exhibit B – Labor Fee Estimate*

## EXHIBIT A

### STATEMENT OF WORK

#### PALM BEACH INTERNATIONAL AIRPORT (PBI) TAXIWAY D AND E REHABILITATION / RECONSTRUCTION DRAINAGE DESIGN – SUPPLEMENTAL DESIGN SERVICES

#### ADA ENGINEERING (ADA)

##### I. Scope of Work:

ADA will provide basic services including preparation of construction documents for the supplemental drainage related features of the Taxiway D and E Rehabilitation / Reconstruction project. This supplemental analysis and plan preparation is intended to develop a plan for abandoning a drainage pipe under Runway 10L-28R west of Taxiway D and reconnection to Basin 3 of the portion of the airfield bounded by Taxiway D to the east, Runway 10L-28R to the north and Runway 14-32 to the west. Construction Administration and Construction Management services are not included in this scope of services. It is assumed that the meetings of the proposed additional work presented herein will be included in the original scope of work coordination and design meetings. Therefore, this proposal includes no time for meetings. Additional meetings would require supplemental authorization. This scope of services (Tasks 1-3) includes the following:

- Perform Data Collection, Records Research, Review and Coordination;
- Prepare 30%, 75%, and 100% Contract Documents, including: Technical Specifications, Drawings, Engineer's Report, and Engineer's Opinion of Probable Construction Cost Estimate. These task items shall be performed in a limited capacity such that ADA is only responsible for the Drainage aspects of this project.
- Prepare additional information for the Letter Modification to the existing SFWMD Environmental Resource Permit (ERP) Application;

##### I-1 Phase 2 Design Development

ADA will assist CH2M HILL in developing the plans for the Design Development deliverable review submittal which will include the following items 1-6:

1. 30% Summary of Quantities (Drainage Items Only)
2. 30% Drainage Plans – 4 plan sheets at 1"=50' scale
3. 30% Drainage Details – 1 sheet
4. 30% Stormwater Pollution Prevention Plans – 4 plan sheets at 1"=50' scale
5. 30% Engineer's Report
6. 30% Engineer's Opinion of Probable Construction Cost Estimate

It is assumed that no additional technical specifications will be required in addition to the technical specifications included in the original scope of work.

## **I-2 Phase 3 Contract Documents**

Following Design Development approval, ADA will assist CH2M HILL in developing 75% and 100% Complete Contract Documents from the approved Design Development Documents.

### **I-2.1 Phase 3A 75% Submittal**

The 75% Complete Contract Documents Deliverables will include the following Items 1-6. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

1. 75% Summary of Quantities (Drainage Items Only)
2. 75% Drainage Plans – 4 plan sheets at 1"=50' scale
3. 75% Drainage Details – 1 sheet
4. 75% Stormwater Pollution Prevention Plans – 4 plan sheets at 1"=50' scale
5. 75% Engineer's Report
6. 75% Engineer's Opinion of Probable Construction Cost Estimate

During Phase 3A, ADA will prepare and submit an ERP letter modification to the SFWMD. The letter modification will include the results of a modified version of the existing condition ICPR model to analyze the impact of reconfiguring Basins 3 and 4 in order to abandon the pipe under Runway 10L-28R. In the unlikely event that additional documentation such as a full permit application is required; the associated effort will be assumed to be beyond the scope of work and would require a supplemental authorization.

### **I-2.2 Phase 3B 100% Submittal**

The 100% Complete Contract Documents Deliverables will include the following Items 1-6. Where applicable, ADA is to provide CH2M HILL AutoCAD Master Drainage Files to be incorporated by CH2M HILL in the preparation of the actual construction contract documents:

1. Final Summary of Quantities (Drainage Items Only)
2. Final Drainage Plans – 4 plan sheets at 1"=50' scale
3. Final Drainage Details – 1 sheet
4. Final Stormwater Pollution Prevention Plans – 4 plan sheets at 1"=50' scale
5. Final Engineer's Report
6. Final Engineer's Opinion of Probable Construction Cost Estimate

## **I-3 Phase 4 Bidding and Award of Contract**

The level of effort associated with this task is included in the original scope of work.

**Exhibit B**

Labor/Fee Estimate Summary - Taxiway D and E Rehabilitation / Reconstruction Drainage Design Supplemental Design Services

**Billing Rate:** \$ 253.00 \$ 234.00 \$ 190.00 \$ 141.00 \$ 94.00 \$ 92.00 \$ 80.00

| Task Description   | Labor Estimate (Hours)                          |  |  |                          |                   |                   |           | Fee Estimate (\$) |                     |                     |
|--|---|--|--|--------------------------|-------------------|-------------------|-----------|-------------------|---------------------|---------------------|
|  | Program Manager / Principal / Senior Consultant | Project Manager / Design Manager / Task Leader | Project Engineer / Planner / Associate Project Manager | Staff Engineer / Planner | Senior Technician | Design Technician | Admin.    | Total Labor Hours | Total Fee           |                     |
| <b>PBI Task No I-14-PBI-C-030</b>  |   |  |  |                          |                   |                   |           |                   |                     |                     |
| <b>2.0 Design Development (Phase 2 - 30% Design)</b>                                 | <b>Total</b>                                    | <b>0</b>                                       | <b>4</b>   | <b>0</b>                 | <b>19</b>         | <b>0</b>          | <b>28</b> | <b>1</b>          | <b>52</b>           | <b>\$ 6,271.00</b>  |
| 2.03 30% Summary of Quantities (Drainage Items Only)                                 | 0   | 0  | 0  | 1                        | 0                 | 1                 | 1         | 3                 | \$ 313.00           |                     |
| 2.16 30% Drainage Plan (Assume 4 Sheets at 1" = 50' Scale)                           | 0   | 1  | 0  | 10                       | 0                 | 16                | 0         | 27                | \$ 3,116.00         |                     |
| 2.17 30% Drainage Details (Assume 1 Sheet)   | 0   | 1  | 0  | 2                        | 0                 | 6                 | 0         | 9                 | \$ 1,068.00         |                     |
| 2.22 30% Stormwater Pollution Prevention Plans (Assume 4 Sheets at 1" = 50' Scale)   | 0   | 0  | 0  | 1                        | 0                 | 4                 | 0         | 5                 | \$ 509.00           |                     |
| 2.28 30% Engineer's Report in addition to original SOW                               | 0   | 1  | 0  | 4                        | 0                 | 0                 | 0         | 5                 | \$ 798.00           |                     |
| 2.31 30% Engineer's Opinion of Probable Construction Cost Estimate                   | 0   | 1  | 0  | 1                        | 0                 | 1                 | 0         | 3                 | \$ 467.00           |                     |
| <b>ADA Phase 2 Total</b>   | <b>0</b>  | <b>4</b>                                       | <b>0</b>   | <b>19</b>                | <b>0</b>          | <b>28</b>         | <b>1</b>  | <b>52</b>         | <b>\$ 6,271.00</b>  |                     |
| <b>3.0 Contract Documents (Phase 3A - 75% Design)</b>                                | <b>Total</b>                                    | <b>0</b>                                       | <b>5</b>   | <b>0</b>                 | <b>39</b>         | <b>16</b>         | <b>25</b> | <b>0</b>          | <b>85</b>           | <b>\$ 10,473.00</b> |
| 3.03 75% Summary of Quantities (Drainage Items Only)                                 | 0   | 0  | 0  | 1                        | 0                 | 1                 | 0         | 2                 | \$ 233.00           |                     |
| 3.16 75% Drainage Plan (Assume 4 Sheets at 1" = 50' Scale)                           | 0   | 0  | 0  | 6                        | 0                 | 10                | 0         | 16                | \$ 1,766.00         |                     |
| 3.17 75% Drainage Details (Assume 1 Sheet)   | 0   | 1  | 0  | 4                        | 0                 | 6                 | 0         | 11                | \$ 1,350.00         |                     |
| 3.22 75% Stormwater Pollution Prevention Plans (Assume 4 Sheets at 1" = 50' Scale)   | 0   | 0  | 0  | 1                        | 0                 | 1                 | 0         | 2                 | \$ 233.00           |                     |
| 3.28 75% Engineer's Report in addition to original SOW                               | 0   | 1  | 0  | 2                        | 0                 | 0                 | 0         | 3                 | \$ 516.00           |                     |
| 3.31 75% Engineer's Opinion of Probable Construction Cost Estimate                   | 0   | 1  | 0  | 1                        | 0                 | 1                 | 0         | 3                 | \$ 467.00           |                     |
| 3.43 Prepare additional analysis and details for ERP Letter Modification             | 0   | 2  | 0  | 24                       | 16                | 6                 | 0         | 48                | \$ 5,908.00         |                     |
| <b>ADA Phase 3A Total</b>  | <b>0</b>  | <b>5</b>                                       | <b>0</b>   | <b>39</b>                | <b>16</b>         | <b>25</b>         | <b>0</b>  | <b>85</b>         | <b>\$ 10,473.00</b> |                     |
| <b>4.0 Contract Documents (Phase 3B - Final Design)</b>                              | <b>Total</b>                                    | <b>0</b>                                       | <b>3</b>   | <b>0</b>                 | <b>16</b>         | <b>0</b>          | <b>11</b> | <b>0</b>          | <b>30</b>           | <b>\$ 3,970.00</b>  |
| 4.03 Final Summary of Quantities (Drainage Items Only)                               | 0   | 0  | 0  | 1                        | 0                 | 0                 | 0         | 1                 | \$ 141.00           |                     |
| 4.16 Final Drainage Plan (Assume 4 Sheets at 1" = 50' Scale)                         | 0   | 0  | 0  | 4                        | 0                 | 6                 | 0         | 10                | \$ 1,116.00         |                     |
| 4.17 Final Drainage Details (Assume 1 Sheet)   | 0   | 1  | 0  | 2                        | 0                 | 4                 | 0         | 7                 | \$ 884.00           |                     |
| 4.22 Final Stormwater Pollution Prevention Plans (Assume 4 Sheets at 1" = 50' Scale) | 0   | 0  | 0  | 1                        | 0                 | 1                 | 0         | 2                 | \$ 233.00           |                     |
| 4.28 Final Engineer's Report in addition to original SOW                             | 0   | 1  | 0  | 6                        | 0                 | 0                 | 0         | 7                 | \$ 1,080.00         |                     |
| 4.31 Final Engineer's Opinion of Probable Construction Cost Estimate                 | 0   | 1  | 0  | 2                        | 0                 | 0                 | 0         | 3                 | \$ 516.00           |                     |
| <b>ADA Phase 3B Total</b>  | <b>0</b>  | <b>3</b>                                       | <b>0</b>   | <b>16</b>                | <b>0</b>          | <b>11</b>         | <b>0</b>  | <b>30</b>         | <b>\$ 3,970.00</b>  |                     |
| <b>ADA Grand Total Lump Sum Fee</b>  | <b>0</b>  | <b>12</b>                                      | <b>0</b>   | <b>74</b>                | <b>16</b>         | <b>64</b>         | <b>1</b>  | <b>167</b>        | <b>\$ 20,714.00</b> |                     |

Prepared by: ADA Engineering, Inc.

# H E E

HILLERS ELECTRICAL ENGINEERING, INC.

June 6, 2014

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

Subject: Electrical Engineering Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TASK I-14-PBI-C-030 (PBIA TAXIWAYS D & E AND NEW CONNECTOR TAXIWAYS REHABILITATION / RECONSTRUCTION PROJECT ADDITIONAL DESIGN SERVICES FOR TAXIWAYS “K” & “D” AND TAXIWAY “E” EAST OF RUNWAY 32.

Dear Dan:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide CH2M HILL (CH) an electrical engineering services fee proposal for the DOA PBIA TW’s “D, E, K” Improvements.

The following tasks are included in our scope of services:

- Includes project design coordination meetings with DOA, FAA and CH Design Team.
- Conduct on-site verifications and perform preliminary records research / data collection for existing FAA & DOA Record Drawings for Taxiway’s “D, E, K” electrical, lighting, signage systems.
- Includes all electrical calculations.
- Design includes modifications to existing Taxiway “K” edge lighting & signage systems new conductor & conduit systems due to revised geometry.
- Design includes modifications to existing Taxiway “E” East of Runway 32 edge lighting & signage systems new conductor & conduit systems due to reduced pavement width.
- Design includes modifications to existing Taxiway “D” edge lighting & signage systems new conductor & conduit systems due to drainage improvements.
- CH shall provide all base drawings to HEE on AutoCAD 2010.
- HEE shall provide electrical design to CH 1- electronic set for 30%, 75%, 100% reviews, permits and bid phases.
- HEE shall provide all FAA specifications electrical bid line items and cost estimates to CH.
- Does not include construction services.

Proposed Lump-Sum additional design fee for TW’s D, E, K Tasks is: \$ 31,780.  
(See attachment breakdown)

Sincerely,



Thomas Doran, Vice-President



| PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- Additional Design for PBIA Taxiways D & E Reconstruction Project.        |                   |                   |                    |                   |               |                   |            |          |                    |  |
|--|-------------------|-------------------|--------------------|-------------------|---------------|-------------------|------------|----------|--------------------|--|
| HILLERS ELECTRICAL ENGINEERING, INC. Taxiway "E" East of RW 32 and Taxiways "D & K" Electrical, Lighting, Signage. |                   |                   |                    |                   |               |                   |            |          |                    |  |
| SCOPE FEE SUMMARY  |                   |                   |                    |                   |               |                   |            |          |                    |  |
| FEE PROPOSAL ELECTRICAL DESIGN to CH 6-06-14   |                   |                   |                    |                   |               |                   |            |          |                    |  |
|  | Rate              | \$130.00          | \$120.00           | \$105.00          | \$85.00       |                   | \$55.00    |          |                    |  |
|  | Proj. Mgr.        | Prof. Eng         | Proj. Eng          | CADD/Tech         |               | Clerical          | Total      |          | TOTAL              |  |
| PHASE OF WORK  | Hours             | Hours             | Hours              | Hours             | Hours         | Hours             | Hours      | Expenses | TASK COST          |  |
| <b>PAPI / REIL Systems Mod.- Design</b>  |                   |                   |                    |                   |               |                   |            |          | \$0.00             |  |
| Dsgn Mtgs FAA, DOA, CH   | 1                 | 12                | 12                 |                   |               | 4                 | 29         |          | \$3,050.00         |  |
| On site verifications\Discovery Ph   |                   | 2                 | 8                  |                   |               | 1                 | 11         |          | \$1,135.00         |  |
|  |                   |                   |                    |                   |               |                   | 0          |          | \$0.00             |  |
| TW D Edge Lighting & Signage Plans   | 1                 | 8                 | 16                 | 12                |               | 1                 | 38         |          | \$3,845.00         |  |
| TW E East of RW 32 Lighting & Signage Plans  | 2                 | 24                | 48                 | 40                |               | 1                 | 115        |          | \$11,635.00        |  |
| TW K Edge Lighting & Signage Plans   | 1                 | 16                | 28                 | 16                |               | 1                 | 62         |          | \$6,405.00         |  |
| Installation Details & Layouts   | 1                 | 4                 | 4                  | 4                 |               |                   | 13         |          | \$1,370.00         |  |
| Specifications & Bid Items & Cost Estimates  | 2                 | 16                | 8                  |                   |               | 24                | 50         |          | \$4,340.00         |  |
|  |                   |                   |                    |                   |               |                   | 0          |          | \$0.00             |  |
|  |                   |                   |                    |                   |               |                   | 0          |          | \$0.00             |  |
|  |                   |                   |                    |                   |               |                   | 0          |          | \$0.00             |  |
|  |                   |                   |                    |                   |               |                   | 0          |          | \$0.00             |  |
|  |                   |                   |                    |                   |               |                   | 0          |          | \$0.00             |  |
| <b>Subtotal</b>  | <b>8</b>          | <b>82</b>         | <b>124</b>         | <b>72</b>         | <b>0</b>      | <b>32</b>         | <b>318</b> |          | <b>\$31,780.00</b> |  |
|  |                   |                   |                    |                   |               |                   |            |          |                    |  |
|  |                   |                   |                    |                   |               |                   |            |          |                    |  |
| <b>Grand Total Hours</b>   | <b>8</b>          | <b>82</b>         | <b>124</b>         | <b>72</b>         | <b>0</b>      | <b>32</b>         | <b>318</b> |          |                    |  |
|  |                   |                   |                    |                   |               |                   |            |          |                    |  |
| <b>Grand Total Labor Cost</b>  | <b>\$1,040.00</b> | <b>\$9,840.00</b> | <b>\$13,020.00</b> | <b>\$6,120.00</b> | <b>\$0.00</b> | <b>\$1,760.00</b> |            |          | <b>\$31,780.00</b> |  |

**BROWN & PHILLIPS, Inc.**  
PROFESSIONAL SURVEYING SERVICES

June 10, 2014

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

**Re: PBIAX Taxiway D & E Rehabilitation/Reconstruction Project Supplemental Design Services  
Topographic Survey**

Dear Mr. Tompkins:

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

**SCOPE OF SERVICES**

**I. TOPOGRAPHIC SURVEY**

Utilizing the control established previously for the Taxiway D & E Design Phase Topographic Survey Project (#13-093), we will perform a supplemental topographic survey of Taxiway K, at the location of the new culvert at Taxiway D, and additional survey for utility sweeps/locates and sampling as shown on Attachment 'B'.

The supplemental topographic survey will include the following:

- Pavement shots on a minimum 10-foot grid on existing pavement and the existing taxiways in the project areas identified;
- Ground shots on a minimum 25-foot grid;
- Additional ground shots within the survey limits of proposed construction area as needed to define unique topographic features such as depressions and ditches;
- Drainage Structures and Culverts including rim, invert, material, and direction of culverts;
- Water and sewer markers, valve boxes, hydrants and appurtenances;
- Electrical Manholes, number, size, and direction of conduit;
- Miscellaneous Structures within the survey limits of the proposed construction area;
- Stake out four (4) additional core borings and locate utility sweeps

The topographic survey will be performed to Florida Minimum Technical Standards, survey tolerance, Horizontal and Vertical Datum (NAD 83/90 and NAVD 88), and will be performed under the direct supervision of a Florida Professional Land Surveyor. The survey will be performed at two tenths of a foot contour interval and the final drawings will be provided to Consultant in AutoCAD format at 1"=50' scale.


1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409  
(561) 615-3988 • Fax (561) 615-3991

**II. CLOSURE**

Existing survey drawings will be updated and a drawing will be produced (1"=50' scale) which will show all the features located. We propose to provide CH2M Hill with five (5) hard copies, an electronic file in ascii and AutoCAD in the version requested, and a copy of the survey field notes and calculations. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for a **not to exceed fee of \$5,010.00** (see Attachment 'A' for an estimated hourly breakdown). The supplemental topographic surveying services will be accomplished utilizing the remaining (unused) time and materials design phase topographic surveying services available under the original project, Task I-13-PBI-C-020. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

**Brown & Phillips, Inc.**



John E. Phillips, III, P.L.S.  
President

JEP/mb

Attachments

Accepted This \_\_\_\_\_ Day Of \_\_\_\_\_, 2014.

CH2M Hill

By: \_\_\_\_\_

Print Name: \_\_\_\_\_



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

PBIA Taxiway D & E Rehabilitation / Reconstruction Project Supplemental Design Services  
 Topographic Survey

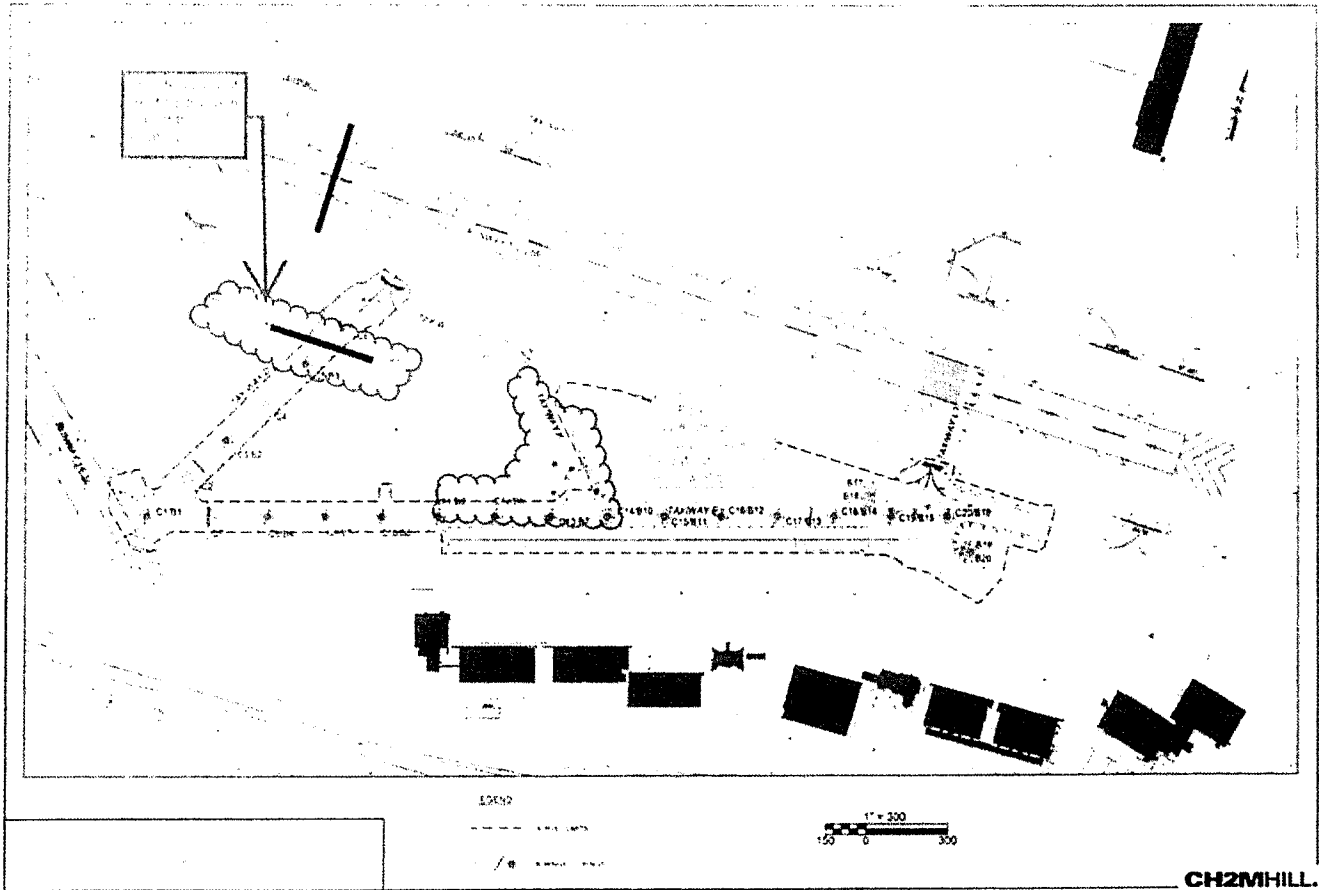
Type of Survey: Topographic

Size:

Date: June 10, 2014

| TASK   | 2 MAN<br>CREW | CADD<br>TECH | SURVEY<br>TECH | PLS      | COMMENTS  |
|--|---------------|--------------|----------------|----------|---|
| Meetings and Coordination                            |               |              |                |          |   |
| Control  | 2             |              | 1              |          | Find/establish control                                    |
| Topography   | 4             |              | 0.5            |          | Locate above ground improvements - canal, utilities, etc. |
| Cross Sections - Ground                              | 8             |              | 3              | 1        | Cross sections on 25' grid, update TIN                    |
| Cross Sections - Taxiway                             | 6             |              | 4              | 1        | Cross sections on a 10' grid, update TIN                  |
| Stake utility sweeps and pavement cores/soil borings | 3             |              | 0.5            |          |   |
| CADD Base Drawing                                    |               | 10           | 3              | 1        | Prepare cadd drawing                                      |
|  |               |              |                |          |   |
| <b>Total Hours:</b>                                  | 23            | 10           | 12             | 3        |   |
| <b>Rate/Hour</b>                                     | \$125.00      | \$80.00      | \$80.00        | \$125.00 |   |
| <b>Subtotal:</b>                                     | \$2,875.00    | \$800.00     | \$960.00       | \$375.00 |   |
| <b>Total Labor Cost:</b>                             |               |              |                |          | <b>\$5,010.00</b>   |

| <u>Other Direct Costs:</u>       | <u>quantity</u> | <u>unit</u>   | <u>cost/unit</u> | <u>total</u>      |
|----------------------------------|-----------------|---------------|------------------|-------------------|
| Prints                           |                 | sheet         | \$1.50           | \$0.00            |
| Shipping                         |                 | cost x markup | 1.20             | \$0.00            |
| Other                            |                 |               |                  | \$0.00            |
| <b>Total Other Direct Costs:</b> |                 |               |                  | <b>\$0.00</b>     |
| <b>TOTAL PRICE</b>               |                 |               |                  | <b>\$5,010.00</b> |





June 5, 2014

June 3, 2014

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

Attention: Mr. Dan C. Tompkins, P.E.  
Project Manager

Re: **Proposal for Design Phase Geotechnical Services**  
**PBIA Taxiway D&E Rehabilitation-Supplemental Design Services**  
**Palm Beach County, Florida**  
**TSF Proposal No.: 1406-280 Revised**

Dear Dan:

As requested, **Tierra South Florida, Inc. (TSF)** is pleased to submit this proposal for the above-referenced project. The proposal is based on e-mail from Mr. John Thompson, P.E. of CH2M Hill, Inc. dated May 30, 2014.

We understand that pavement cores and additional Standard Penetration Test (SPT) Borings are required as part of the Airfield Civil and Electrical design to upgrade to Taxiway E full ADG III including Taxiway K modifications.

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

#### **PROPOSED SCOPE OF WORK**

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194. As outlined in the above mentioned email, our scope of work will consist of:

- A maximum of two (2) asphalt pavement cores on TW-K presented in table format denoting coring number, asphalt core and base thickness per layer, and photographs of each core documented;
- Two (2) Standard Penetration Tests (SPT) boreholes to a depth of 10 feet below grades, west of TW-K;
- Coring and bore Logs in AutoCAD format denoting coring and boring numbers;
- Update Geotechnical Investigation Report incorporating the additional soils investigation and findings prepared and previously submitted as a part of the original scope of work, Task I-13-PBI-C-020 – Taxiway D & E Rehabilitation/Reconstruction Design and Bidding Services.

---

2765 VISTA PARKWAY, SUITE 10 · WEST PALM BEACH, FLORIDA 33411

(561) 687-8539 · FAX (561) 687-8570

State of Florida Professional Engineers License #28073

Test locations will be located in the field by CH2M Hill's following field services site visit.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. We believe that some coordination will likely be required to perform the field operations. As we understand, all work will be conducted in the day time. Our field work will be performed by TSF personnel with a security badge. **It is our understanding that the work will be coordinated with CH2MHill and DOA.**

#### **ESTIMATED FEES**

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, our fee will be approximately **\$4,840.00**.

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

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

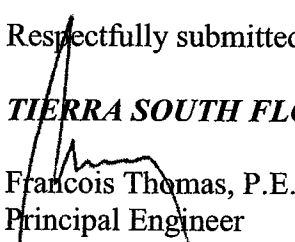
#### **SCHEDULE AND AUTHORIZATION**

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 1 day to complete. The written report can be submitted within two weeks after completion of the field exploration. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

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

Respectfully submitted,

**TIERRA SOUTH FLORIDA, INC.**

  
Francois Thomas, P.E.  
Principal Engineer

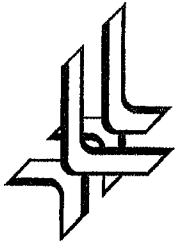
Attachments: 1. Fee Estimate

TIERRA SOUTH FLORIDA, INC 2009/2010  
 STARDARD UNIT FEE  
 SCHEDULE (Taxiway D and E Supplemental Design Services)

**DAY RATES**

|   | Unit     | # of Units | Unit Price | Total       |
|---|----------|------------|------------|-------------|
| <b>I. FIELD INVESTIGATION</b>                                     |          |            |            |             |
| Mobilization of Men and Equipment                                 |          |            |            |             |
| Truck-Mounted Equipment   | LS       | 1          | \$ 350.00  | \$ 350.00   |
| Specialized ATV/Mudbug  | Trip     | 0          | \$ 720.00  | \$ 0.00     |
| Support Vehicle   | Day      | 1          | \$ 150.00  | \$ 150.00   |
| Standard Penetration Test Borings<br>(By Truck-Mounted Equipment) |          |            |            |             |
| Land: 0 - 50 ft depth   | L.F.     | 20         | \$ 12.00   | \$ 240.00   |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 14.00   | \$ 0.00     |
| Grout-Seal Boreholes<br>(By Truck-Mounted Equipment)              |          |            |            |             |
| Land: 0 - 50 ft depth   | L.F.     | 20         | \$ 5.50    | \$ 110.00   |
| 50 - 100 ft depth   | L.F.     | 0          | \$ 6.50    | \$ 0.00     |
| Double Ring Infiltration Test                                     | Test     | 0          | \$ 500.00  | \$ 0.00     |
| Field Permeability Tests  | Test     | 0          | \$ 275.00  | \$ 0.00     |
| Pavement Cores, Asphalt   | Each     | 2          | \$ 225.00  | \$ 450.00   |
| Coring Machine plus generator rental                              | Trip     | 1          | \$ 400.00  | \$ 400.00   |
| Field CBR   | Each     | 0          | \$ 300.00  | \$ 0.00     |
| MOT (If required)   | Each     | 0          | \$ 800.00  | \$ 0.00     |
| <b>II. LABORATORY TESTING</b>                                     |          |            |            |             |
| Visual Examination/Stratify                                       | Per Hour | 4          | \$ 100.00  | \$ 400.00   |
| Natural Moisture Content Tests                                    | Test     | 0          | \$ 10.00   | \$ 0.00     |
| Grain-Size Analysis - Full Gradation                              | Test     | 1          | \$ 65.00   | \$ 65.00    |
| Grain-Size Analysis - Single Sieve                                | Test     | 0          | \$ 35.00   | \$ 0.00     |
| Organic Content Tests   | Test     | 1          | \$ 35.00   | \$ 35.00    |
| Atterberg Limit Tests   | Test     | 0          | \$ 75.00   | \$ 0.00     |
| Liquid Limit Tests (Only)   | Test     | 0          | \$ 52.00   | \$ 0.00     |
| Plastic Limit Tests (Only)  | Test     | 0          | \$ 33.50   | \$ 0.00     |
| Laboratory CBR + Sampling   | Test     | 0          | \$ 500.00  | \$ 0.00     |
| Grain-Size with Hydrometer  | Test     | 0          | \$ 115.00  | \$ 0.00     |
| Proctor Test a) Modified  | Test     | 0          | \$ 108.00  | \$ 0.00     |
| b) Standard   | Test     | 0          | \$ 102.00  | \$ 0.00     |
| Bitumen Extraction  | Test     | 0          | \$ 150.00  | \$ 0.00     |
| Bitumen Gradation   | Test     | 0          | \$ 150.00  | \$ 0.00     |
| FDOT Corrosion series   | Each     | 0          | \$ 185.00  | \$ 0.00     |
| <b>III. ENGINEERING/COORDINATION/MANAGEMENT</b>                   |          |            |            |             |
| Project Manager   | Hour     | 1          | \$ 165.00  | \$ 165.00   |
| Principal Engineer  | Hour     | 0          | \$ 150.00  | \$ 0.00     |
| Senior Engineer   | Hour     | 2          | \$ 125.00  | \$ 250.00   |
| Project Engineer  | Hour     | 8          | \$ 100.00  | \$ 800.00   |
| Senior Technician   | Hour     | 16         | \$ 75.00   | \$ 1,200.00 |
| CADD  | Hour     | 3          | \$ 75.00   | \$ 225.00   |
|   |          |            | \$         | 4,840.00    |





# **F.R. ALEMAN**

**& Associates, Inc.**  
CONSULTING ENGINEERS & SURVEYORS  
10305 N.W. 41<sup>ST</sup> Street, Suite 200  
Miami, Florida 33178  
TEL: (305) 591-8777  
FAX: (305) 599-8749  
Email: dstanton@fr-aleman.com

CONSULTING ENGINEERS & SURVEYORS  
www.FR-Aleman.com  
Email: dennis.stanton@FR-Aleman.com

June 9, 2014

**CH2MHILL, INC.**

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

**RE: Project Name: Taxiway D&E Rehabilitation / Reconstruction Supplemental Design Services**  
**Project Title: Utility Sweeps**  
**Facility Name: Palm Beach International Airport**

**SUBJECT: Price Proposal for Designating Services**

Dear Mr. Tompkins

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

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

**DESCRIPTION OF SERVICES**

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

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

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

Electromagnetic & GPR Field Survey

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

**CONDITIONS – Locating of underground utilities for pre-excavation**

- Utility Locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation.
- Areas to be surveyed with GPR must be level and free of obstructions.
- Results are dependent upon field conditions at the time of locating services.
- If underground facilities are damaged, whether marked by FRA or not, it is your obligation to notify a representative of FRA within 48 hours of the damage.
- Prior to excavation, the contractor is responsible for securing locations of public utilities through Sunshine State One Call of Florida (811).
- Airside Access or Badges provided by others (FRA personnel will obtain Airport Badges).

| <b>F.R. ALEMAN &amp; ASSOCIATES, INC.<br/>S.U.E. SERVICES PRICE PROPOSAL</b> |             |                 |                   |
|--|-------------|-----------------|-------------------|
| <b>ITEM DESCRIPTION</b>  | <b>RATE</b> | <b>QUANTITY</b> | <b>ITEM PRICE</b> |
| 3 PERSON CREW LOCATING AND DESIGNATING CREW HOURLY.                          | \$1,468.15  | 1 Days          | \$ 1468.15        |
| Project Manager  | \$159.85    | 2 Hours         | \$ 319.70         |
| Utility Coordinator  | \$97.00     | 4 Hours         | \$ 388.00         |
| <b>TOTAL COST</b>  |             |                 | <b>\$2,175.85</b> |

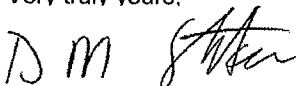
F.R. Aleman & Associates, Inc. appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through July 09, 2014, after which it shall be subject to reconfirmation by **FRA**. If this proposal is accepted prior to the above date, this pricing will be in effect for the next 30 days, after which time shall be subject to review and adjustment by **FRA**.

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

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

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

Very truly yours,



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

X:\Marketing\Departmental Marketing\Proposals\CH2MHILL\PRICE PROPOSAL\PBIA\_Taxiway\_D&E\_(06-09-14).doc

|                             |  |
|-----------------------------|--|
| <b>ACCEPTED AND AGREED:</b> |  |
| Client: CH2MHILL, INC.      |  |
| By: _____                   |  |
| Name: _____                 |  |
| Title: _____                |  |
| Date: _____                 |  |

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK I-14-PBI-C-031**  
**Palm Beach County Dept. of Airports**  
**Palm Beach International Airport**  
**Air Service Support – Task 7**

**Table B-1**

Labor/Fee Estimate Summary (CH2M Hill) - Palm Beach International Airport - PBI Air Service Support Task 7

**Billing Rate:** \$ 250.97 \$ 205.90 \$ 161.02 \$ 78.64 \$ 67.12

| Task Description  | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Graphics Support / Administrative Manager | Admin.   | Total     | Fee Estimate (\$)  |             |                    |
|---|---|--|--|---|----------|-----------|--------------------|-------------|--------------------|
|   |   |  |  |   |          |           | Labor              | Expenses    | Total              |
| <b>Task I-14-PBI-C-031 - PBI Air Service Support Task 7</b> |   |  |  |   |          |           |                    |             |                    |
| <b>1.0 Task Management</b>                                  |   |  |  |   |          |           |                    |             |                    |
| 1.1 Task Management   | 0   | 0  | 8  | 8   | 2        | 18        | \$ 2,051.52        | \$ -        | \$ 2,051.52        |
| 1.2 Coordination with Campbell-Hill                         | 0   | 0  | 8  | 8   | 4        | 20        | \$ 2,185.76        | \$ -        | \$ 2,185.76        |
| <b>CH2M HILL Total Lump Sum Fee</b>                         | <b>0</b>  | <b>0</b>                                     | <b>16</b>                                      | <b>16</b>                                 | <b>6</b> | <b>38</b> | <b>\$ 4,237.28</b> | <b>\$ -</b> | <b>\$ 4,237.28</b> |
| Subconsultant Fees  |   |  |  |   |          |           |                    |             |                    |
| Total Subconsultant Lump Sum Fee - Campbell-Hill, Part A    | LS  | \$   | 44,948.00                                      |   |          |           |                    |             |                    |
| Total Subconsultant Lump Sum Fee - Campbell-Hill, Part B    | LS  | \$   | 19,575.00                                      |   |          |           |                    |             |                    |
| Total Subconsultant Lump Sum Fee - Campbell-Hill, Part C    | LS  | \$   | 24,575.00                                      |   |          |           |                    |             |                    |
| <b>Subconsultant Grand Total</b>                            |   | <b>\$</b>                                    | <b>89,098.00</b>                               |   |          |           |                    |             |                    |
| <b>Total Fee - PBI Air Service Support Task 5</b>           |   | <b>\$</b>                                    | <b>93,335.28</b>                               |   |          |           |                    |             |                    |
| LS  |   | \$   | 4,237.28                                       |   |          |           |                    |             |                    |
| LS-Campbell-Hill  |   | \$   | 89,098.00                                      |   |          |           |                    |             |                    |
| Total LS  |   | \$   | 93,335.28                                      |   |          |           |                    |             |                    |

Prepared by: CH2M HILL, INC.

**Table B-1**

Labor/Fee Estimate Summary (Campbell-Hill Aviation Group, LLC) - Palm Beach County Department of Airports - PBIA Air Service Support - Task 7

**Billing Rate:** \$ 320.00 \$ 260.00 \$ 200.00 \$ 185.00 \$ 65.00

| Task Description   | Chairman /<br>President / Sr.<br>Vice President | Vice President | Research<br>Director | Research<br>Manager | Clerical | Total | Fee Estimate (\$) |           |           |           |
|--|---|----------------|----------------------|---------------------|----------|-------|-------------------|-----------|-----------|-----------|
|  |   |                |                      |                     |          |       | Labor             | Expenses  | Total     |           |
| <b>Task I-14-PBI-C-031 - PBIA Air Service Support - Task 7</b> |   |                |                      |                     |          |       |                   |           |           |           |
| 1.0 Task Management  | Total   | 106            | 106                  | 17                  | 61       | 0     | 289               | \$ 75,973 | \$ 13,125 | \$ 89,098 |
| <b>Part A</b> Routes Europe 2014                               |   | 2              | 72                   | 3                   | 20       | 0     | 97                | \$ 23,660 | \$ 2,500  | \$ 26,160 |
| Azul Brazilian Airlines Meeting                                |   | 34             | 14                   | 4                   | 11       | 0     | 62                | \$ 17,163 | \$ 1,625  | \$ 18,788 |
| <b>Part B</b> JumpStart 2014                                   |   | 35             | 10                   | 5                   | 15       | 0     | 65                | \$ 17,575 | \$ 2,000  | \$ 19,575 |
| <b>Part C</b> Routes 2014                                      |   | 35             | 10                   | 5                   | 15       | 0     | 65                | \$ 17,575 | \$ 7,000  | \$ 24,575 |
| <b>Campbell-Hill Aviation Group, LLC - Lump Sum Fee</b>        |   | 106            | 106                  | 17                  | 61       | 0     | 289               | 75,973    | 13,125    | 89,098    |

Prepared by: Campbell-Hill Aviation Group, LLC

**EXHIBIT "B"**  
**AMENDMENT NO. 5**  
**DETAILED FEES, EXPENSES AND PAYMENTS**  
**TASK II-14-DOA-C-003**  
**Palm Beach County Department of Airports**  
**2014 Annual Environmental Compliance Monitoring,**  
**Inspection and Training Services**

Exhibit B

Labor/Fee Estimate Summary - 2014 Environmental Compliance Monitoring, Inspection & Training Services

Billing Rate: \$ 250.97 \$ 205.90 \$ 161.02 \$ 129.22 \$ 106.22 \$ 80.37 \$ 78.64 \$ 67.12 \$ 147.61 \$ 173.85 \$ 140.76

| Task Description  | Labor Estimate (Hours)                          |  |  |  |                          |                   |   |           |                     |                      |                               | Fee Estimate      |                    |                    |
|---|---|--|--|--|--------------------------|-------------------|---|-----------|---------------------|----------------------|-------------------------------|-------------------|--------------------|--------------------|
|   | Program Manager / Principal / Senior Consultant | Senior Technologist / Senior Project Manager | Project Manager / Design Manager / Task Leader | Project Engineer / Planner / Associate Project Manager | Staff Engineer / Planner | Design Technician | Graphics Support / Administrative Manager | Admin.    | Threshold Inspector | Construction Manager | Project Estimator / Scheduler | Total Labor Hours | Total              |                    |
| <b>DOA Task No II-14-DOA-C-003</b>                      |   |  |  |  |                          |                   |   |           |                     |                      |                               |                   |                    |                    |
| <b>1.0 Basic Services</b>                               | <b>Total</b>                                    | <b>0</b>                                     | <b>8</b>                                       | <b>24</b>  | <b>16</b>                | <b>2</b>          | <b>0</b>                                  | <b>8</b>  | <b>10</b>           | <b>0</b>             | <b>0</b>                      | <b>0</b>          | <b>68</b>          | <b>\$ 9,091.96</b> |
| 1.01 Task Kick-off and Coordination Meetings/Conf Calls | 0   | 0  | 4  | 4  | 0                        | 0                 | 0   | 0         | 0                   | 0                    | 0                             | 0                 | 8                  | \$ 1,160.96        |
| 1.02 Task Management and Subconsultant Coordination     | 0   | 0  | 8  | 0  | 0                        | 0                 | 8   | 4         | 0                   | 0                    | 0                             | 0                 | 20                 | \$ 2,185.76        |
| 1.03 DOA, Tenant and Consultant Coordination            | 0   | 0  | 4  | 4  | 2                        | 0                 | 0   | 2         | 0                   | 0                    | 0                             | 0                 | 12                 | \$ 1,507.64        |
| 1.04 Monthly Progress Reporting                         | 0   | 0  | 4  | 8  | 0                        | 0                 | 0   | 4         | 0                   | 0                    | 0                             | 0                 | 16                 | \$ 1,946.32        |
| 1.05 Quality Control/Quality Assurance                  | 0   | 8  | 4  | 0  | 0                        | 0                 | 0   | 0         | 0                   | 0                    | 0                             | 0                 | 12                 | \$ 2,291.28        |
| <b>CH2M HILL Grand Total</b>                            | <b>0</b>  | <b>8</b>                                     | <b>24</b>                                      | <b>16</b>  | <b>2</b>                 | <b>0</b>          | <b>8</b>                                  | <b>10</b> | <b>0</b>            | <b>0</b>             | <b>0</b>                      | <b>68</b>         | <b>\$ 9,091.96</b> |                    |

Subconsultant Fees

Total Subconsultant Lump Sum Fee - CECOS LS \$ 94,130.37  
 Total Subconsultant Reimbursable Expenses - CECOS T&M \$ 3,671.08

**Subconsultant Grand Total** \$ **97,801.45**

**Total Lump Sum Fee-Basic Engineering Services** \$ **106,893.41**

LS - CH2M HILL \$ 103,222.33

Reimbursable Expenses - CECOS \$ 3,671.08

Total \$ 106,893.41

Prepared by: CH2M HILL, INC.



June 9, 2014

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

Re: **Palm Beach County Department of Airports (PBCDOA)**  
**2014 Environmental Compliance Monitoring, Inspection & Training Services**  
Palm Beach County, Florida

Dear Mr. Tompkins:

Cyriacks Environmental Consulting Services, Inc. (CECOS) is pleased to submit the revised proposal to provide environmental consulting services for the subject project. Our fee estimate is based on the scope of services identified as Exhibit A-II-3 of Task II-14-DOA-C-003.

**Estimated Fee Summary**

The lump sum fee (labor and expenses) to complete the identified scope of work is \$97,801.45. Please refer to Attachment I, for the Fee Estimate Table detailing the cost for these environmental services. The cost presented in this document takes into consideration the information provided in the attached Scope of Services. Also, our fee estimate takes into consideration the following assumptions:

- No special graphics or technical meeting material is anticipated to be prepared.
- Preparation of a new drainage map is not anticipated. Comments (mark-ups) to drainage map (based on field observation during SWPPP inspections) will be provided to CH2M HILL by CECOS. Copy of the drainage maps must be provided in PDF and AutoCAD format.
- It is assumed that SWPPP brochure and SPCC pamphlet will require minor revisions.
- Our cost and scope is limited to the update of the 2013 SWPPP documents, inspections, SWPPP brochure, SPCC pamphlet and training (i.e., Power Point Presentation).
- Permit renewal, or NPDES Individual Permit is not included.
- No as-built and land survey plans preparation anticipated.
- Development of numeric effluent limitations is not included.
- Environmental Site Assessment Investigations (Phase I / II) are not included as part of this scope and cost estimate.
- The cost of the proposal does not include any activity related to permit application preparation, renewal or modification, amendments, mitigation, restoration, groundwater modeling, analytical testing and laboratory

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



analysis, among others. Only one SWPPP general site inspection is anticipated per airport (PBI, F45, Lantana, and Pahokee).

- Documents will be subject to one round of revisions by the Client.
- The Client will be responsible to provide all necessary information for the implementation of this scope.
- The Client shall pay additional compensation associated with efforts not specified in this proposal, if required. CECOS will notify in advance to the Client if this situation arise. Any additional effort shall be negotiated between the Client and CECOS, and must be approved before the required action.
- Agency permit application/processing fees are not included.
- SWPPP's update due to a new facility construction and/or stormwater system or a change to the stormwater system at the airports, this shall be conducted and compensated under a separate agreement.

#### **Schedule**

Upon receipt of project authorization, preparation of work activities will begin. We will perform our scope of work within the Thirteen (13) months from NTP

We appreciate the opportunity to continue to work with you on this contract. Please contact me if you have any questions or need additional information.

Very truly yours,  
Cyriacks Environmental Consulting Services, Inc.

*Wendy Cyriacks*

Wendy Cyriacks

#### Attachments:

- Exhibit A - Scope of Services
- Exhibit B - CECOS Fee Estimate – SWPPP Services

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

# PALM BEACH COUNTY GENERAL CONSULTING SERVICES

## EXHIBIT A-II-3

### Task Scope Sheet

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Task II-14-DOA-C-003

Palm Beach County Department of Airports  
2014 Environmental Compliance Monitoring, Inspection &  
Training Services

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#### PROJECT DESCRIPTION

To comply with various state regulatory compliance permit conditions at its four airports (Palm Beach International Airport, North Palm Beach County General Aviation Airport, Palm Beach County Park Airport and Palm Beach Glades Airport), the Palm Beach County Department of Airports (DOA) has requested that CH2M HILL (CONSULTANT) and its Subconsultant Cyriacks Environmental Consulting Services, Inc. (CECOS), provide environmental monitoring, inspection and training services on an annual basis. This scope of work is associated with the 2014 annual environmental compliance monitoring, inspection and training services.

#### SCOPE OF WORK

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

##### 1.0 SWPPP REVISIONS, INSPECTIONS AND TRAINING

A Stormwater Pollution Prevention Plan (SWPPP) is mandated by the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) as defined in 40 CFR 122.2. The NPDES is the national program for issuing, modifying, or revoking permits under Sections 307, 318, 402, and 405 of the Clean Water Act. The Florida Department of Environmental Protection (FDEP) is the permitting agency responsible for overseeing the NPDES Program in Florida. According to EPA document 833-B-09-002, *Developing Your Stormwater Pollution Prevention Plan* (February 2009), when new facilities are constructed that affect stormwater control practices; the SWPPP is revised to reflect the changes to the stormwater system. Therefore, as a part of this task, SWPPP revisions will involve editorial changes to the previous SWPPP documents associated with the four airports managed by the DOA. No new improvements are anticipated to be completed at the four County airports during the annual update, therefore Drainage and Basin Delineation Map updates are not anticipated to be required. Editorial changes will be limited to editing and replacing pages related to the tenant list including contact information and Stormwater Best Management Practices (BMPs). This task also includes the 2014 annual compliance inspections and the 2014 training workshop for employees and tenants.

##### 1.1 In-House Data Collection

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

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Task II-14-DOA-C-003

A-68

June 18, 2014

2014 Environmental Compliance Monitoring,  
Inspection & Training Services

- Updated contact information for the members of the SWPPP Team;
- Updated list of tenants and their contact information;
- Preventive maintenance records;
- Procedural changes to spill response and containment;
- Facility Response Plan (if available).

### **1.1.1 Tenant Questionnaire**

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

### **1.1.2 Tenant Notification**

Prior to the 2014 annual compliance inspections, CONSULTANT will provide the DOA with the draft Tenant Notification of Inspection letter, NPDES Compliance Commitment Certificate, SWPPP brochure, and Spill Prevention, Control, and Countermeasure (SPCC) pamphlet. These documents will be reviewed and approved by DOA prior to distribution to the tenants. CONSULTANT will distribute the letter for DOA.

#### **Assumptions:**

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

## **1.2 Annual Compliance Inspections**

### **1.2.1 Annual Site Compliance Inspections**

CONSULTANT's subconsultant, CECOS, will conduct the 2014 annual site compliance inspections to coincide with the drainage structure inspections and tenant inspections for each Airport. During the annual site compliance inspections, CECOS will:

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

### **1.2.2 Visual NPDES Permitted Drainage Structure Inspections**

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

### **1.2.3 Tenant and DOA Facility Inspections**

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

#### **Assumptions:**

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

## **1.3 Report Preparation**

### **1.3.1 Annual Compliance Inspection Report**

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

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

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

**Assumptions:**

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

**1.3.2 Editorial Update of SWPPP's**

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

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

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

**1.3.3 Tenant Compliance Coordination**

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

1. Cover letter on DOA letterhead;
2. Industrial Tenant Inspection Checklist;
3. Applicable BMP's Checklist(s);

#### 4. Significant Materials Inventory Data Sheet.

##### **Deliverables:**

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

#### **1.3.4 SWPPP Drainage Map Update**

Based on information provided by the DOA, Drainage and Basin Delineation Map updates due to a new facility construction and/or stormwater system or a change to the stormwater system will not be required to be performed at the four County airports. If necessary, Drainage and Basin Delineation Map Updates will be performed under a separate task authorization.

#### **1.4 Training Workshop**

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

##### **Assumptions:**

- DOA will provide meeting space at each of the Airports at no cost to CONSULTANT;
- DOA will provide electronic copies of the 2013 training materials (Microsoft PowerPoint presentation, a training handout, a class test questionnaire, and a certificate of attendance) to CONSULTANT for modification and use in 2014;
- The training classes will be held after the annual compliance inspections are completed;
- The training classes will be approximately 1.5 to 2 hours in length including the test;
- Reproduction expenses for training class materials are based on the assumption that a maximum number of MS PowerPoint handouts and compact discs would be reproduced for the classes based upon the number of industrial use tenants.

##### **Deliverable:**

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

#### **2.0 CONTINGENCY SERVICES**

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

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

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

### **3.0 CLIENT COORDINATION AND MEETING**

#### **3.1 Client Coordination**

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

#### **3.2 Telephone Meetings**

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

#### **3.3 Project Status Reports**

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

### **SCHEDULE**

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

**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS**  
**2014 Environmental Compliance Monitoring, Inspection & Training Services**  
 Prepared: 05-06-14

|                                   |                 |                 |                |                |                |                |
|-----------------------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| <b>Hourly Billing Rate (2014)</b> | <b>\$200.00</b> | <b>\$121.54</b> | <b>\$96.82</b> | <b>\$87.55</b> | <b>\$80.34</b> | <b>\$64.89</b> |
|-----------------------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|

| Task Description  | Classification                |                                |                               |                         |             |                          | Total |
|---|-------------------------------|--------------------------------|-------------------------------|-------------------------|-------------|--------------------------|-------|
|   | Environmental Project Manager | Sr. Environmental Scientist II | Sr. Environmental Scientist I | Environmental Scientist | GIS Analyst | Administrative Assistant |       |
| <b>1.0 SWPPP Editorial Revisions, Inspections &amp; Training</b>    |                               |                                |                               |                         |             |                          |       |
| <b>Palm Beach International Airport &gt; Total Hours</b>            | 9                             | 21                             | 145                           | 33                      | 4           | 42                       | 254   |
| 1.1 In-House Data Collection  | 2                             | 2                              | 15                            | 0                       | 0           | 12                       | 31    |
| 1.2 Annual Compliance Inspections (44 Tenants)                      | 0                             | 2                              | 40                            | 25                      | 0           | 0                        | 67    |
| 1.3 Report Preparation  | 6                             | 16                             | 76                            | 8                       | 4           | 22                       | 132   |
| 1.4 Training Workshop   | 1                             | 1                              | 14                            | 0                       | 0           | 8                        | 24    |
| <b>North County General Aviation Airport (F45) &gt; Total Hours</b> | 8                             | 11                             | 110                           | 26                      | 5           | 31                       | 191   |
| 1.1 In-House Data Collection  | 2                             | 2                              | 10                            | 0                       | 0           | 5                        | 19    |
| 1.2 Annual Compliance Inspections (9 Tenants)                       | 0                             | 0                              | 22                            | 16                      | 0           | 0                        | 38    |
| 1.3 Report Preparation  | 5                             | 8                              | 64                            | 10                      | 5           | 18                       | 110   |
| 1.4 Training Workshop   | 1                             | 1                              | 14                            | 0                       | 0           | 8                        | 24    |
| <b>Palm Beach County Park Airport (Lantana) &gt; Total Hours</b>    | 8                             | 13                             | 119                           | 25                      | 4           | 28                       | 197   |
| 1.1 In-House Data Collection  | 1                             | 2                              | 10                            | 0                       | 0           | 4                        | 17    |
| 1.2 Annual Compliance Inspections (20 Tenants)                      | 0                             | 0                              | 23                            | 17                      | 0           | 0                        | 40    |
| 1.3 Report Preparation  | 5                             | 10                             | 73                            | 8                       | 4           | 16                       | 116   |
| 1.4 Training Workshop   | 2                             | 1                              | 13                            | 0                       | 0           | 8                        | 24    |
| <b>Palm Beach County Glades Airport &gt; Total Hours</b>            | 6                             | 9                              | 84                            | 4                       | 3           | 20                       | 126   |
| 1.1 In-House Data Collection  | 1                             | 0                              | 9                             | 0                       | 0           | 4                        | 14    |
| 1.2 Annual Compliance Inspections (1 Tenant)                        | 0                             | 1                              | 11                            | 0                       | 0           | 0                        | 12    |
| 1.3 Report Preparation  | 4                             | 7                              | 55                            | 4                       | 3           | 14                       | 87    |



**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS**  
 2014 Environmental Compliance Monitoring, Inspection & Training Services  
 Prepared: 05-06-14

| <b>Hourly Billing Rate (2014)</b>                                    |                               |                                |                               |                         |                   |                          |                    |
|--|-------------------------------|--------------------------------|-------------------------------|-------------------------|-------------------|--------------------------|--------------------|
|  | <b>\$200.00</b>               | <b>\$121.54</b>                | <b>\$96.82</b>                | <b>\$87.55</b>          | <b>\$80.34</b>    | <b>\$64.89</b>           |                    |
| Task Description   | Classification                |                                |                               |                         |                   |                          | Total              |
|  | Environmental Project Manager | Sr. Environmental Scientist II | Sr. Environmental Scientist I | Environmental Scientist | GIS Analyst       | Administrative Assistant |                    |
| 1.4 Training Workshop  | 1                             | 1                              | 9                             | 0                       | 0                 | 2                        | 13                 |
| <b>1.0 SWPPP Editorial Revisions, Inspections &amp; Training Fee</b> | <b>\$6,200.00</b>             | <b>\$6,563.16</b>              | <b>\$44,343.56</b>            | <b>\$7,704.40</b>       | <b>\$1,285.44</b> | <b>\$7,851.69</b>        | <b>\$73,948.25</b> |
| <b>2.0 Special Services</b>  | N/A                           | N/A                            |                               | N/A                     | N/A               | N/A                      | N/A                |
| <b>3.0 Client Coordination, Meetings and Management</b>              |                               |                                |                               |                         |                   |                          |                    |
| 3.1 - 3.2 Coordination & Meetings with PBCDOA > Hours                | 24                            | 24                             | 64                            | 12                      | 4                 | 4                        | 132                |
| 3.3 Project status reports > Hours                                   | 12                            | 12                             | 12                            | 0                       | 0                 | 12                       | 48                 |
| <b>3.0 Client Coordination, Meetings and Management Fee</b>          | <b>\$7,200.00</b>             | <b>\$4,375.44</b>              | <b>\$6,196.48</b>             | <b>\$1,050.60</b>       | <b>\$321.36</b>   | <b>\$1,038.24</b>        | <b>\$20,182.12</b> |
| <b>Labor Totals</b>  |                               |                                |                               |                         |                   |                          |                    |
| <b>Total Estimated Hours:</b>  | <b>67</b>                     | <b>90</b>                      | <b>534</b>                    | <b>100</b>              | <b>20</b>         | <b>137</b>               | <b>948</b>         |
| <b>Sub-Total Estimated Labor Costs:</b>                              | <b>\$13,400</b>               | <b>\$10,939</b>                | <b>\$50,540</b>               | <b>\$8,755</b>          | <b>\$1,607</b>    | <b>\$8,890</b>           | <b>\$94,130.37</b> |
| <b>Sub-consultants</b>   | N/A                           | N/A                            |                               | N/A                     | N/A               | N/A                      | N/A                |
| <b>Expenses</b>  |                               |                                |                               |                         |                   |                          |                    |
| Expenses (3.9%)  | \$522.60                      | \$426.61                       | \$1,971.06                    | \$341.45                | \$62.67           | \$346.71                 | \$3,671.08         |
| Agency Permit Fee (NPDES - NOI) - N/A                                |                               |                                |                               |                         |                   |                          | \$0                |
| <b>TOTAL</b>   |                               |                                |                               |                         |                   |                          | <b>\$97,801.45</b> |

**EXHIBIT "C"**  
**AMENDMENT NO. 5**  
**PROPOSED SCHEDULES**

# PALM BEACH COUNTY GENERAL CONSULTING SERVICES

## EXHIBIT C

### Proposed Schedules

#### **TASK I-14-DOA-C-023**

North Palm Beach County General Aviation,  
Palm Beach County Park, and  
Palm Beach County Glades Airports  
Runway Signage and Marking Re-Designation  
Design and Bidding Services

Completion Time: 175 Calendar Days

#### **TASK I-14-PBI-C-024**

Palm Beach International Airport  
Terminal and Concourse Interior Expansion  
Joint Replacement  
Design, Bidding, and Construction  
Administration Services

Completion Time: 180 Calendar Days

#### **TASK I-14-DOA-C-025**

Palm Beach County Department of Airports  
Palm Beach International Airport,  
North Palm Beach County General Aviation Airport,  
and Palm Beach County Glades Airport  
ADA Facility Compliance Assessment (Phase 2)

Completion Time: 120 Calendar Days

#### **TASK I-14-PBI-C-026**

Palm Beach International Airport  
Airfield Circuitry Master Plan Drawings Update

Completion Time: 90 Calendar Days

**TASK I-14-LNA-C-027**

Palm Beach County Park Airport  
Airport Redevelopment – Phase 2  
Hangar, Apron, Taxilane and Access Driveway  
Design and Bidding Services

Completion Time: 360 Calendar Days

**TASK I-14-PBI-C-028**

Palm Beach International Airport  
Concourse C Passenger Checkpoint Modification  
Bidding and Construction Administration Services

Completion Time: 150 Calendar Days

**TASK I-14-PBI-C-029**

Palm Beach International Airport  
Construct Taxiway W  
Supplemental Design Services

Completion Time: 90 Calendar Days

**TASK I-14-PBI-C-030**

Palm Beach International Airport  
Taxiway D & E Rehabilitation / Reconstruction  
Supplemental Design Services

Completion Time: 165 Calendar Days

**TASK I-14-PBI-C-031**

Palm Beach County Dept. of Airports  
Palm Beach International Airport  
Air Service Support – Task 7

Completion Time: 120 Calendar Days

**TASK II-14-DOA-C-003**

Palm Beach County Department of Airports  
2014 Annual Environmental Compliance Monitoring,  
Inspection and Training Services

Completion Time: 395 Calendar Days

**EXHIBIT "D"**

**AMENDMENT NO. 5**

**DBE**

**SCHEDULE 1 - PARTICIPATION BY DBE**

**SCHEDULE 2 - LETTERS OF INTENT**

**SCHEDULE 1(A)  
LIST OF PROPOSED DBE FIRMS  
(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Dept. of Airports General Consulting Services Contract

Name of Respondent: CH2M Hill, Inc. Change Order/Task/Amendment No. (if applicable): Amendment No. 5

Contact Person: Daniel Tompkins, P.E. E-mail Address: dtompkin@ch2m.com

Address: 3001 PGA Boulevard, Suite 300, Palm Beach Gardens, FL 33410 Phone No.: 561.904.7510 Fax No.: 561.904.7401

| Name, Address & Phone No. of DBE Firm   | Description of Type of Work  | Classification<br>(Check applicable box)   | Percentage of DBE Participation |          |         |                           |
|---|--|--|---------------------------------|----------|---------|---------------------------|
|   |  |  | Black                           | Hispanic | Women   | Other<br>(Please Specify) |
| ADA Engineering, Inc.<br>1800 Old Okeechobee Road,<br>Suite 202<br>West Palm Beach, FL 33409<br>Ph: 561-615-8880                              | Drainage Design and Permitting   | <input type="checkbox"/> Prime Consultant<br><input checked="" type="checkbox"/> Subcontractor<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Manufacturer | _____ %                         | 4.62%    | _____ % | _____ %                   |
| Brown & Phillips, Inc.<br>1860 Old Okeechobee Road,<br>Suite 509<br>West Palm Beach, FL 33409<br>Ph: 561-615-3988                             | Topographic Land Surveying and Mapping                                   | <input type="checkbox"/> Prime Consultant<br><input checked="" type="checkbox"/> Subcontractor<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Manufacturer | 1.36%                           | _____ %  | _____ % | _____ %                   |
| Cyriacks Environmental Consulting Services, Inc.<br>3001 SW 15 <sup>th</sup> Street, Suite B<br>Deerfield Beach, FL 33442<br>Ph: 954-571-0290 | Environmental Compliance Monitoring, Inspection, Training and Permitting | <input type="checkbox"/> Prime Consultant<br><input checked="" type="checkbox"/> Subcontractor<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Manufacturer | _____ %                         | _____ %  | 7.28%   | _____ %                   |

**Total Percentage of DBE Participation: 29.18%**

**Notes:**

- The percentages listed on this form for each DBE Firm must be supported by the percentages included on Schedule 2(A), "Letter of Intent to Perform as a Disadvantaged Business Enterprise", in order to be counted toward attainment of the DBE goal.
- Firms identified on this form must be certified as a DBE by the State of Florida's Unified Certification Program. Certification status can be verified on the Florida Department of Transportation's Biznet website at <https://www3.dot.state.fl.us/EqualOpportunityOffice/biznet/mainmenu.asp>.
- If materials or supplies are proposed to be purchased from a DBE regular dealer, the undersigned acknowledges that only sixty percent (60%) of the proposed expenditure will be counted toward attainment of the DBE goal.

By signing this form the undersigned Respondent is committing to utilize the above referenced DBE Firms on the Project and that the Respondent will monitor the DBE Firms to ensure that the work is actually performed by the DBE Firms.

By:   
Signature

Date: 6/18/2014

Daniel Tompkins – Project Manager  
Print Name/Title of Person Executing on Behalf of the Respondent

**SCHEDULE 1(A)  
LIST OF PROPOSED DBE FIRMS  
(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Dept. of Airports General Consulting Services Contract

Name of Respondent: CH2M Hill, Inc. Change Order/Task/Amendment No. (if applicable): Amendment No. 5

Contact Person: Daniel Tompkins, P.E. E-mail Address: dtompkin@ch2m.com

Address: 3001 PGA Boulevard, Suite 300, Palm Beach Gardens, FL 33410 Phone No.: 561.904.7510 Fax No.: 561.904.7401

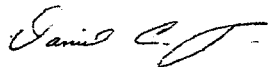
| Name, Address & Phone No. of DBE Firm   | Description of Type of Work                     | Classification<br>(Check applicable box)   | Percentage of DBE Participation |              |             |                                |
|---|---|--|---------------------------------|--------------|-------------|--------------------------------|
|   |   |  | Black                           | Hispanic     | Women       | Other<br>(Please Specify)      |
| F.R. Aleman & Associates, Inc.<br>10305 NW 41 Street, Suite 200<br>Miami, FL 33178<br>Ph: 305-591-8777          | Subsurface Utility<br>Engineering and Surveying | <input type="checkbox"/> Prime Consultant<br><input checked="" type="checkbox"/> Subcontractor<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Manufacturer | _____ %                         | _____ %      | _____ 0.81% | _____ %                        |
| Hillers Electrical Engineering, Inc.<br>23257 State Rd 7, Suite 100<br>Boca Raton, FL 33428<br>Ph: 561-451-9165 | Electrical Design                               | <input type="checkbox"/> Prime Consultant<br><input checked="" type="checkbox"/> Subcontractor<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Manufacturer | _____ %                         | _____ 12.71% | _____ %     | _____ %                        |
| Tierra South Florida, Inc.<br>2765 Vista Parkway, Suite 10<br>West Palm Beach, FL 33411<br>Ph: 561-687-8539     | Geotechnical Investigations                     | <input type="checkbox"/> Prime Consultant<br><input checked="" type="checkbox"/> Subcontractor<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Manufacturer | _____ %                         | _____ %      | _____ %     | _____ 2.40%<br>(Asian/Pacific) |

**Total Percentage of DBE Participation: 29.18%**

**Notes:**

- The percentages listed on this form for each DBE Firm must be supported by the percentages included on Schedule 2(A), "Letter of Intent to Perform as a Disadvantaged Business Enterprise", in order to be counted toward attainment of the DBE goal.
- Firms identified on this form must be certified as a DBE by the State of Florida's Unified Certification Program. Certification status can be verified on the Florida Department of Transportation's Biznet website at <https://www3.dot.state.fl.us/EqualOpportunityOffice/biznet/mainmenu.asp>.
- If materials or supplies are proposed to be purchased from a DBE regular dealer, the undersigned acknowledges that only sixty percent (60%) of the proposed expenditure will be counted toward attainment of the DBE goal.

By signing this form the undersigned Respondent is committing to utilize the above referenced DBE Firms on the Project and that the Respondent will monitor the DBE Firms to ensure that the work is actually performed by the by the DBE Firms.

By:   
Signature

Date: 6/18/2014

Daniel Tompkins – Project Manager  
Print Name/Title of Person Executing on Behalf of the Respondent

**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Department of Airports – General Consulting Services

Change Order/Task /Amendment No. (if applicable): Amendment No. 5

Name of Prime Respondent: CH2M Hill

Name of DBE Firm: A.D.A. Engineering, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify) \_\_\_\_\_  
 Prime Consultant    Subcontractor    Manufacturer    Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Drainage Design and Permitting

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 4.62 %


and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

|                         |  |  |
|-------------------------|--|--|
| _____                   | _____ %                                  | <input type="checkbox"/> DBE Certified |
| (Name of Subcontractor) | (Percentage of work to be subcontracted) | <input type="checkbox"/> Non-DBE       |

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

A.D.A. Engineering, Inc.  
Printed Name of DBE Subcontractor

By:  ALEX VAZQUEZ  
Signature

Date: 6/16/2014





**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Department of Airports – General Consulting Services

Change Order/Task /Amendment No. (if applicable): Amendment No. 5

Name of Prime Respondent: CH2M Hill

Name of DBE Firm: Cyriacks Environmental Consulting Services, Inc

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify) \_\_\_\_\_  
 Prime Consultant    Subcontractor    Manufacturer       Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Environmental Compliance Monitoring, Inspection, Training and Permitting Services

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 7.28 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

\_\_\_\_\_ %    DBE Certified  
(Name of Subcontractor)      (Percentage of work to be subcontracted)       Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

Cyriacks Environmental Consulting Services, Inc  
Printed Name of DBE Subcontractor

By: [Signature]  
Signature

Date: 6/16/14

**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Department of Airports – General Consulting Services

Change Order/Task /Amendment No. (if applicable): Amendment No. 5

Name of Prime Respondent: CH2M Hill

Name of DBE Firm: F.R. Aleman & Associates, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify) \_\_\_\_\_  
 Prime Consultant    Subcontractor    Manufacturer    Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Subsurface Utility Engineering and Surveying

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 0.81 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

\_\_\_\_\_  
(Name of Subcontractor)      \_\_\_\_\_ %    DBE Certified  
(Percentage of work to be subcontracted)    Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

F.R. Aleman & Associates, Inc  
Printed Name of DBE Subcontractor

By: [Signature]  
Signature

Date: 6/16/2014

**SCHEDULE 2(A)  
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE  
(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Department of Airports – General Consulting Services

Change Order/Task /Amendment No. (if applicable): Amendment No. 5

Name of Prime Respondent: CH2M Hill

Name of DBE Firm: Hillers Electrical Engineering, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify) \_\_\_\_\_  
 Prime Consultant    Subcontractor    Manufacturer       Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Electrical Engineering

---

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 12.71 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

N/A \_\_\_\_\_      0 \_\_\_\_\_ %     DBE Certified  
 (Name of Subcontractor)      (Percentage of work to be subcontracted)     Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

Hillers Electrical Engineering, Inc.  
Printed Name of DBE Subcontractor

By: [Signature]  
Signature

Date: 6-16-14

**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Palm Beach County Department of Airports – General Consulting Services

Change Order/Task /Amendment No. (if applicable): Amendment No. 5

Name of Prime Respondent: CH2M Hill

Name of DBE Firm: Tierra South Florida, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- |   |  |                                       |   |
|---|--|---------------------------------------|---|
| <input type="checkbox"/> Black            | <input type="checkbox"/> Hispanic      | <input type="checkbox"/> Women        | <input checked="" type="checkbox"/> Other (Please Specify) <u>Asian/Pacific</u> |
| <input type="checkbox"/> Prime Consultant | <input type="checkbox"/> Subcontractor | <input type="checkbox"/> Manufacturer | <input type="checkbox"/> Supplier   |

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Geotechnical Investigations

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 2.40 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

\_\_\_\_\_  
(Name of Subcontractor)

\_\_\_\_\_ %  DBE Certified  
(Percentage of work to be subcontracted)  Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

Tierra South Florida, Inc.  
Printed Name of DBE Subcontractor

By: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_