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**SEMINOLE COUNTY GOVERNMENT  
AGENDA MEMORANDUM**

**SUBJECT:** Work Order #10 for PS-2249-07/BHJ - Construction Engineering and Inspection Services (for construction projects less than \$1,000,000.00) with PB Americas, Inc.

**DEPARTMENT:** Administrative Services

**DIVISION:** Purchasing and Contracts

**AUTHORIZED BY:** Frank Raymond

**CONTACT:** Jacqui Perry

**EXT:** 7114

**MOTION/RECOMMENDATION:**

Approve Work Order #10 for PS-2249-07/BHJ - Construction Engineering and Inspection Services (for construction projects less than \$1,000,000.00) in the amount of \$111,208.82 with PB Americas, Inc. of Tampa, Florida.

County-wide

Ray Hooper

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**BACKGROUND:**

PS-2249-07/BHJ provides for Construction, Engineering and Inspection Services for construction projects less than \$1,000,000.00, and ensures these projects are constructed in reasonable conformity with the plans, specifications and agreement provisions.

Work Order#10 will provide CEI services for the construction of left turn lanes at seven (7) locations. These locations include the extension of the existing SB left turn lane at E.E.Williamson Rd., a NB left turn lane at Parsons Rd., NB and SB left turn lane at Hunters Trail, a SB turn lane at Old Post Rd. (both southern and northern entrances), and a SB left turn lane at Windsor Isle Rd. This construction project will provide motorists a safer left turn from a County collector roadway, while allowing for a continual flow of traffic pursuant to the Seminole County Comprehensive Plan. The project originally included a center lane to allow continuous left turn movement throughout the alignment. However, based on local concerns and to reduce the construction costs, the center lane was replaced by left turn lanes in seven (7) locations.

This is a budgeted project and funds are available in W. Markham Woods (Account #077541.560670, CIP#00192015).

**STAFF RECOMMENDATION:**

Staff recommends that the Board approve Work Order #10 for PS-2249-07/BHJ - Construction Engineering and Inspection Services (for construction projects less than \$1,000,000.00) in the amount of \$111,208.82 with PB Americas, Inc. of Tampa, Florida.

**ATTACHMENTS:**

1. PS-2249-07\_BHJ - Work Order #10 (PB Americas)

**Additionally Reviewed By:**

County Attorney Review ( Ann Colby )

**Board of County Commissioners  
SEMINOLE COUNTY, FLORIDA**

**WORK ORDER**

Work Order Number: 10

Master Agreement No.: PS-2249-07/BHJ Dated: April 3, 2008  
Master Agreement Title: CEI Services for Construction Projects Less Than 1 Million Dollars  
Project Title: Continuous Contract for CEI Services

Consultant: PB Americas, Inc.  
Address: 5405 West Cypress Street, Suite 300  
Tampa, Florida 33607

ATTACHMENTS TO THIS WORK ORDER:  
 drawings/plans/specifications  
 scope of services  
 special conditions  
 \_\_\_\_\_

METHOD OF COMPENSATION:  
 fixed fee basis  
 time basis-not-to-exceed  
 time basis-limitation of funds  
 retainage shall be withheld

TIME FOR COMPLETION: The services to be provided by the CONSULTANT shall commence upon execution of this Work Order by the parties, and shall be completed **30 Days After Final Acceptance of Construction Project**. Failure to meet the completion time shall be grounds for Termination of both the Work Order and the Master Agreement for Default.

WORK ORDER AMOUNT: ONE HUNDRED ELEVEN THOUSAND TWO HUNDRED EIGHT DOLLARS AND 82/100 (\$111,208.82)

IN WITNESS WHEREOF, the parties hereto have made and executed this Work Order on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, for the purposes stated herein.

(THIS SECTION TO BE COMPLETED BY THE COUNTY)

ATTEST:

PB Americas, Inc

\_\_\_\_\_  
, Secretary

By: \_\_\_\_\_  
, President

(CORPORATE SEAL)

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

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BOARD OF COUNTY COMMISSIONERS  
SEMINOLE COUNTY, FLORIDA

ATTEST:

\_\_\_\_\_  
MARYANNE MORSE  
Clerk to the Board of County Commissioners of  
Seminole County, Florida

By: \_\_\_\_\_  
Bob Dallari, Chairman

Date: \_\_\_\_\_  
As authorized for execution by the Board of County  
Commissioners at their \_\_\_\_\_, 20\_\_\_\_  
regular meeting.

**OC #804243**

**ON # 22803**

## **WORK ORDER TERMS AND CONDITIONS**

- a) Execution of this Work Order by the COUNTY shall serve as authorization for the CONSULTANT to provide, for the stated project, professional services as set out in the Scope of Services attached as Exhibit "A" to the Master Agreement cited on the face of this Work Order and as further delineated in the attachments listed on this Work Order.
- b) Term: This Work Order shall take effect on the date of its execution by the COUNTY and expires upon final delivery, inspection, acceptance, and release of the final payments and encumbrances of the last approved amount of this Work Order, unless terminated earlier in accordance with the termination provisions herein.
- c) The CONSULTANT shall provide said services pursuant to this Work Order, its Attachments, and the cited Master Agreement (as amended, if applicable) which is incorporated herein by reference as if it had been set out in its entirety.
- d) Whenever the Work Order conflicts with the cited Master Agreement, the Master Agreement shall prevail.
- e) METHOD OF COMPENSATION - If the compensation is based on a:
  - (i) FIXED FEE BASIS, then the Work Order Amount becomes the Fixed Fee Amount and the CONSULTANT shall perform all work required by this Work Order for the Fixed Fee Amount. The Fixed Fee is an all-inclusive Firm Fixed Price binding the CONSULTANT to complete the work for the Fixed Fee Amount regardless of the costs of performance. The work to be performed by the CONSULTANT shall be based on the Labor Hour Rates established in the Master Agreement that are in effect on the date of the CONSULTANT'S price proposal for this project. In no event shall the CONSULTANT be paid more than the Fixed Fee Amount.
  - (ii) TIME BASIS WITH A NOT-TO-EXCEED AMOUNT, then the Work Order Amount becomes the Not-to-Exceed Amount and the CONSULTANT shall perform all the work required by this Work Order for a sum not exceeding the Not-to-Exceed Amount. In no event is the CONSULTANT authorized to incur expenses exceeding the not-to-exceed amount without the express written consent of the COUNTY. Such consent will normally be in the form of an Amendment to this Work Order. The CONSULTANT's compensation shall be based on the actual work required by this Work Order and the Labor Hour Rates established in the Master Agreement that are in effect on the date of the CONSULTANT'S price proposal for this project.
  - (iii) TIME BASIS WITH A LIMITATION OF FUNDS AMOUNT, then the Work Order Amount becomes the Limitation of Funds amount and the CONSULTANT is not authorized to exceed the Limitation of Funds amount without prior written approval of the COUNTY. Such approval, if given by the COUNTY, shall indicate a new Limitation of Funds amount. The CONSULTANT shall advise the COUNTY whenever the CONSULTANT has incurred expenses on this Work Order that equals or exceeds eighty percent (80%) of the Limitation of Funds amount. The CONSULTANT's compensation shall be based on the actual work required by this Work Order and the Labor Hour Rates established in the Master Agreement.
  - (iv) The CONSULTANT may utilize labor categories that are not included in the attached fee proposal, but that have been approved in the Master Agreement. If a substitution is necessary, the work shall be completed within the approved Time Basis (Not-To-Exceed or Limitation of Funds) Work Order Amount, and in no event shall the Work Order Amount be modified as a result of any changes in labor categories. The CONSULTANT shall submit a written request to the County's Project Manager for approval of any substitution prior to the utilization of any labor category for service, and the County Project Manager's approval of any substitution must take place prior to submission of the invoice. Any approved labor category substitution shall be based on the prevailing labor categories and their associated

hourly rates established in the Master Agreement that are in effect on the date of the County's approval for any substitution.

- f) Payment to the CONSULTANT shall be made by the COUNTY in strict accordance with the payment terms of the referenced Master Agreement.
- g) It is expressly understood by the CONSULTANT that this Work Order, until executed by the COUNTY, does not authorize the performance of any services by the CONSULTANT and that the COUNTY, prior to its execution of the Work Order, reserves the right to authorize a party other than the CONSULTANT to perform the services called for under this Work Order; if it is determined that to do so is in the best interest of the COUNTY.
- h) The CONSULTANT shall sign the Work Order first and the COUNTY second. This Work Order becomes effective and binding upon execution by the COUNTY and not until then. A copy of this Work Order will be forwarded to the CONSULTANT upon execution by the COUNTY.

## EXHIBIT A

### CE&I SCOPE OF SERVICES

For

Construction engineering and Inspection Master Agreement for Construction projects  
cost of \$1,000,000 or less.

#### **GENERAL**

It shall be the responsibility of the CONSULTANT to provide services as necessary to administer the construction contract in the manner so as to determine that the project is constructed in reasonable conformity with the plans, specifications and contract provisions.

#### **PRE-CONSTRUCTION ACTIVITIES**

It is the intent of the county to have the CONSULTANT perform activities prior to the start of construction. The activities will be but not limited to: Constructibility Review, Utility Coordination, Public Involvement with the stake holders and Bid review.

#### **SURVEY CONTROL**

The CONSULTANT shall (1) make and record such measurements as are necessary to calculate and document quantities for items; and (2) perform incidental engineering surveys as may be necessary to carry out the services covered by the Agreement.

#### **TESTING**

The CONSULTANT, or approved subconsultant, shall perform sampling and testing of component materials and completed work items to the extent that will determine that the materials and workmanship incorporated into the project are in reasonable conformity with the plans, specifications and contract provisions.

Sampling, testing and laboratory methods shall be accomplished by the CONSULTANT as required by the Florida Department of Transportation Standard Specification or as modified by the contract provisions.

## **CONSTRUCTION ENGINEERING SERVICES**

The CONSULTANT shall perform management engineering services necessary:

(1) to assure that proper coordination of the activities of all parties involved will accomplish a complete project; (2) to maintain organized, complete, accurate records of all activities and events relating to the project; (3) to provide interpretations of the plans, specifications and contract provisions of a minor nature (Any other major interpretations that affect the integrity of the construction plans, specifications, and contract revisions, shall first be directed to the Design Consultant for their interpretations and recommendations); (4) to make recommendations to the COUNTY to resolve disputes which arise in relation to the construction contract; and (5) to maintain an adequate level of surveillance of the Contractor's activities. The CONSULTANT shall also perform any other construction engineering services normally or customarily assigned to a Resident Engineer that are required to fulfill its responsibilities under this Agreement. Construction engineering services for this project shall include, but are not necessarily limited to, the following:

The CONSULTANT shall provide a resident project engineer and the requisite inspection staff to observe the Contractor's on-site construction operations as required or necessary to determine that quality of workmanship and materials is such that the project will be completed in reasonable conformity with the plans, specifications, and other contract provisions. The project site staff to be under the direction of a registered professional engineer (Resident Engineer).

Prior to the start of construction, the CONSULTANT shall assist the COUNTY in review of the bids received for construction of the project. The review shall consist of an overview of the bid prices received and the qualifications of the apparent, qualified low bidder.

The CONSULTANT shall maintain records of all significant activities and events relating to the project and estimates of all work completed by the Contractor. The CONSULTANT shall immediately report to the COUNTY apparent significant changes in quantity, time or cost as they are noted.

The CONSULTANT shall maintain a Project Control Schedule for the work. The CONSULTANT shall, on a regular basis, report the status to the COUNTY on all major items of work requested of the Construction Contractor reflected on the Project Control Schedule.

The CONSULTANT shall review the Construction Contractor's schedule in detail and submit a report to the COUNTY as well as meet with and discuss with the Construction Contractor during the schedule review and approval process, and any updates thereto. Any subsequent Construction Contractor requests for major activity or construction contract time extensions shall be reviewed by and commented on by the CONSULTANT. Project Control Schedule runs to review the results of Contractor requests and/or CONSULTANT recommended alternatives shall be performed by the CONSULTANT, as required.

The CONSULTANT shall maintain a log of materials entering into the work and utilized in the work with proper indication of the basis of acceptance of each shipment of material.

The CONSULTANT shall maintain records of all sampling and testing accomplished under this Agreement and analyze such records required to ascertain acceptability of material and completed work items.

The CONSULTANT shall meet with the Construction Contractor on no less than a weekly basis (depending upon actual level of activity and/or progress) for project coordination and problem resolution.

The CONSULTANT shall record minutes of each meeting and forward a copy to the Contractor and to the COUNTY with the engineer's summary weekly report. Included in the report shall be noted activities accomplished, production achieved and shall list and describe those scheduled activities which were not accomplished, and what activities/events were planned for the next week. The CONSULTANT shall list separately any quality control problems or impediments to the work that would normally be noted in the engineer's weekly summary report.

Once each month, the CONSULTANT shall prepare a tabulation of the quantity of each pay item satisfactorily completed to date. Quantities shall be based on daily records or calculations. Calculations shall be retained. The tabulation will be used for preparation of the monthly progress Estimate. The CONSULTANT shall submit the completed tabulation to the COUNTY.

Shop drawings and other submittals will be reviewed and approved by the CONSULTANT for conformance to the intent of the design concept of the project plans and specifications. Shop drawings/sample submittals and approvals shall be tracked by the CONSULTANT. Tracking shall include, but not be limited to, maintaining cognizance of the status of each submittal as it progresses through the review and approval process and procedures. The CONSULTANT shall actively encourage all reviewers to accomplish reviews promptly.

The CONSULTANT shall provide to the Contractor, interpretations of the plans, specifications and contract provisions. The CONSULTANT shall consult with the COUNTY when interpretation involves complex or otherwise significant issues or may have an impact on the cost of performing the Work. When warranted by the COUNTY, the COUNTY shall request an interpretation from the Design Consultant prior to any major changes of the plans specifications and contract revisions being clarified to the Contractor by the CEI Consultant. The COUNTY shall coordinate all requests for involvement of the Design Consultant.

The CONSULTANT shall analyze any and all problems that arise on the project and proposals submitted by the Contractor and shall prepare and submit a recommendation to the COUNTY.

The CONSULTANT shall analyze changes to the plans, specifications or contract provisions and extra work which appear to be necessary to carry out the intent of the contract when it is determined that a change or extra work is necessary and such work is clearly within the scope of the original contract. The CONSULTANT shall recommend such changes to the COUNTY for approval/disapproval.

When it is determined that a modification to the original contract for the project is required due to necessary change in the character of the Work, the CONSULTANT shall negotiate prices with the Contractor and prepare and submit for approval/disapproval by the COUNTY a Supplemental Agreement or change order.

In the event that the Contractor for a project submits a claim for additional compensation, the CONSULTANT shall analyze the submittal and prepare a recommendation to the COUNTY covering and analyzing the validity and reasonableness of the charges and shall conduct negotiations leading to a recommendation for settlement of the claim.

In the event that the Contractor submits a request for extension of the allowable contract time, the CONSULTANT shall analyze the request and prepare a recommendation to the COUNTY covering the accuracy of statement and the actual effect of the delay on the completion of the controlling work items and the costs to the COUNTY.

The CONSULTANT shall prepare and submit to the COUNTY for further processing a final estimate and two (2) sets of record plans for the construction contract.

The CONSULTANT shall monitor the construction contract to the extent necessary to observe construction activities in order to verify general compliance with the requirements of permits. The COUNTY will provide the CONSULTANT with a copy of each permit within the project limits.

Upon identification of a prospective changed condition or construction contract change, the extent of change shall be analyzed by the CONSULTANT and in order of magnitude estimate of cost and time of change, if any, will be prepared by the CONSULTANT.

The CONSULTANT shall negotiate all changes with the Contractor using the CONSULTANT - prepared estimate as a basis. The CONSULTANT shall submit the results to the COUNTY within two (2) weeks of start of negotiations or report the major differences to the COUNTY, if agreement is not reached. The CONSULTANT shall prepare supplement and change order documents and track the status of each one until executed.

### **PERSONNEL**

The CONSULTANT shall provide an agreed upon number of qualified personnel to effectively carry out its responsibilities under this Agreement. The CONSULTANT shall utilize only competent personnel who are qualified by experience and education.

### **STAFFING**

The CONSULTANT shall maintain an appropriate staff after completion of construction to complete the final Estimate and Record Plans. No personnel other than those

designated herewith, shall be assigned to the project by the CONSULTANT unless authorized by the COUNTY.

Construction engineering and inspection forces shall be required to be retained by or under contract to the CONSULTANT at all times while the Contractor is working on the construction contract. If the construction contract is suspended, the CONSULTANT'S forces shall be adjusted, to correspond with the type of suspension; provided, however, that no member of the CONSULTANT'S forces shall be deemed to be a COUNTY employee.

### **PHOTOGRAPHS**

The CONSULTANT shall take and submit two (2) prints of each progress photograph taken each month. Views and timing of photographs shall be to show maximum progress. Photographs shall be clean, sharp and clearly show details. Photographs shall be submitted in sets with each photograph numbered in sequence beginning with the numeral one (1). Photographs shall be enclosed in a clear plastic protector punched to fit a standard 8 1/2-inch by 11-inch three-ring binder.

### **OTHER SERVICES**

The CONSULTANT shall upon written authorization by the COUNTY, perform any additional services not otherwise identified in this Agreement as may be required by the COUNTY in connection with the project. The following items are not included as part of this Agreement, but may be required of the CONSULTANT by the COUNTY to supplement the CONSULTANT'S services under this Agreement:

- (1) The CONSULTANT shall, upon review, approval and written authorization by the COUNTY, make such changes and revisions to the plans and specifications as may be required in order to complete the construction activities.
- (2) The CONSULTANT shall, upon written request by the COUNTY, assist the COUNTY in preparing for arbitration hearings, or litigation that occurs during the CONSULTANT'S contract time in connection with the project covered by the Agreement.
- (3) The CONSULTANT shall, upon written request by the COUNTY, provide qualified engineers and/or engineering witnesses, provide exhibits and otherwise assist the COUNTY in any litigation or hearings in connection with the construction contract(s).

- (4) The CONSULTANT shall, upon written request by the COUNTY, provide overall program project control schedules for the purposes of assisting the COUNTY in overall planning and scheduling of construction projects.
- (5) The CONSULTANT shall, upon written request by the COUNTY, provide project cost and cash flow analysis services to assist the COUNTY with overall program financial management of the COUNTY'S proposed road construction/improvement program.
- (6) The COUNTY agrees to compensate the CONSULTANT for authorized additional services not included in this Agreement as a supplement to the basic fee for CE&I services. The amount of such fee and the specific scope of services will be negotiated prior to the CONSULTANT providing such additional services.



# Estimate of Consultant Work Effort

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	2009 Hours	2009 Rate	Total 2009	TOTAL
<b>CEI CORE STAFF:</b>				
PB SENIOR PROJECT ENGINEER	86.50	\$137.00	\$11,850.50	\$11,850.50
PB PROJECT ADMINISTRATOR	432.50	\$118.39	\$51,203.68	\$51,203.68
<b>CEI PROJECT STAFF:</b>				
PB INSPECTOR	692.00	\$62.42	\$43,194.64	\$43,194.64
<b>MATERIAL TESTING:</b>				
Williams Earth Sciences (Refer to Testing Fee Schedule)				

**PB Americas Total Salary Related Cost                    \$106,248.82**

**Seminole County Misc. CEI  
WO #10 - Markham Woods Road (Turn Lanes Widening)**



**CONSTRUCTION SERVICES FEE SCHEDULE**

30 Keyes Court Sanford, Florida 32773 Telephone: (321) 275-0491 Fax: (321) 275-0492 E-mail: awhite@williamsearthsciences.com  
CONSTRUCTION SERVICES FEE SCHEDULE

<b>I. Soils</b>		
<b>A. Field Services</b>		
1. In-Place Density Test (Min. 4/Trip) .....	\$25.00 ea.	
2. Sampling.....	\$47.50/hr.	
<b>B. Laboratory Services</b>		
1. Modified or Standard Proctor Test.....	\$90.00 ea.	10 \$900.00
2. Florida Bearing Value (FBV) Test.....	\$35.00 ea.	
3. LBR or CBR Test (Including Modified Proctor).....	\$350.00 ea.	8 \$2,800.00
4. Full Grain Size (Excluding #200 Sieve) .....	\$65.00 ea.	
5. Wash Through #200 Sieve .....	\$30.00 ea.	
6. Natural Moisture Content .....	\$12.50 ea.	
7. Organic Content.....	\$35.00 ea.	
8. Liquid & Plastic Limits .....	\$75.00 ea.	
9. pH Test.....	\$30.00 ea.	
<b>II. Concrete</b>		
<b>A. Field Services</b>		
1. Sampling, Slump Testing, Molding Cylinders for Compressive Strength Tests, Temperature Testing, Air Content Tests, and Cylinder Pick-Up (up to 4 cylinders per set).....		
	\$47.50/hr. & \$40.00/set	
-Flexural Strength Beams (up to 3 per set) .....		
	\$47.50/hr. & \$60.00/set	
2. Coring (Vertical Coring) - Equipment Mobilization .....		
	\$200.00/trip	
Coring Fee (per man) .....		
	\$47.50/hr.	
<b>B. Laboratory Services</b>		
1. Additional Cylinders.....		
	\$20.00 ea.	
2. Additional Beams.....		
	\$30.00 ea.	
3. Curing, Capping, & Compressive Strength Testing of Concrete Cores .....		
	\$60.00 ea.	
<b>III. Soil-Cement</b>		
<b>A. Field Services</b>		
1. In-Place Density, Field Proctor, Molding Strength Specimens & Walk Through Soundings/Inspections (Min. 4 Hrs./Day) .....		
	\$47.50/hr.	
2. Coring Equipment Mobilization .....		
	\$200.00/trip	4 \$800.00
Coring Fee (per man) .....		
	\$47.50/hr.	4 \$190.00
<b>B. Laboratory Services</b>		
1. Tests to assess cement content using wet/dry & freeze/thaw test methods as prescribed by P.C.A. ....		
	\$2,000.00 ea.	
2. Curing, Capping, & Compressive Strength Testing of Field Molded Specimens (set of 3).....		
	\$60.00/set	
<b>IV. Asphaltic Concrete</b>		
<b>A. Field Services</b>		
1. Sampling Materials for Laboratory Tests.....		
	\$47.50/hr.	
2. Asphalt Placement and/or Plant Monitoring .....		
	\$55.00/hr.	
3. Coring - Equipment Mobilization .....		
	\$200.00/trip	
4. G.M.M. (RICE Test) of Bituminous Mixture.....		
	\$90.00/ea.	
5. Gyrotory Compacted Specimens of Bituminous Mixture (set of 2).....		
	\$90.00/set	
<b>B. Laboratory Services</b>		
1. Bitumen Extraction & Aggregate Gradation Test.....		
	\$100.00 ea.	
2. Marshall Stability Test .....		
	\$120.00 ea.	
3. Core Density and Thickness Test.....		
	\$60.00 ea.	
<b>V. Structural Steel &amp; Metal Decking</b>		
<b>A. Field Services</b>		
1. Visual Observations of Steel Weldments and/or Tension Tests of High Strength Bolted Connections (Min. 4 Hrs./Trip) .....		
	\$55.00/hr.	
2. Non-Destructive Tests of Welded Connections .....		
	Priced On Specific	
(M.T., P.T., U.T., R.T.) Project Requirements		
<b>VI. Professional &amp; Technical Services</b>		
<b>A. Principal Engineer .....</b>		
	\$150.00/hr.	
<b>B. Project Manager.....</b>		
	\$90.00/hr.	3 \$270.00
<b>C. Word Processing (Clerical) .....</b>		
	\$47.50/hr.	
<b>D. Sr. Field Technician .....</b>		
	\$55.00/hr.	
<b>E. Field Technician (Including Stand-By Time).....</b>		
	\$47.50/hr.	
<b>F. Threshold Inspector's Representative.....</b>		
	\$55.00/hr.	

<b>TOTAL SUBCONSULTANT TESTING</b>	<b>\$4,960.00</b>
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**SEMINOLE COUNTY Misc. CEI**  
**WORK ORDER #10: Markham Woods Road (Turn Lanes Widening)**

**Total CEI Budget**

(COMPENSATION - "TIME BASIS METHOD")

**CEI INSPECTION**

PB America **\$106,248.82**

**MATERIAL TESTING**

Williams Earth Science Testing Allowance **\$ 4,960.00**

**TOTAL MATERIAL TESTING** **\$ 4,960.00**

**TOTAL CONTRACT AMOUNT (Limiting Amount)** **\$111,208.82**

Bid	\$900,000.00
CEI	\$111,208.82
	12.4%

**Markham Woods Road add Center Turn Lane**  
**PB America**  
**CIP 00192015**  
**PS-2249-07**

1/7/09  


Position	Hours	Rate	Total Due
Resident Engineer	86.5	\$ 137.00	\$ 11,850.50
Project Administrator/Engineer	432.5	\$ 118.39	\$ 51,203.68
Senior Inspector		\$ 73.73	\$ -
Inspector	692	\$ 62.42	\$ 43,194.64

**TOTAL LABOR COSTS** \$ 106,248.82

**Williams Earth Sciences**

Modified/Standard Proctor	10	\$ 90.00	\$ 900.00
LBR	8	\$ 350.00	\$ 2,800.00
Asphalt Coring	4	\$ 200.00	\$ 800.00
Coring Man	4	\$ 47.50	\$ 190.00
Project Manager	3	\$ 90.00	\$ 270.00

**SUB CONTRACTOR TOTAL** \$ 4,960.00

**TOTAL WORK ORDER VALUE** \$ 111,208.82