

**WORK AUTHORIZATION # CM1414-WA04  
NASSAU COUNTY  
BOARD OF COUNTY COMMISSIONERS  
RFQ/BID NO. NC08-015**

<b>Consultant:</b>	PBS&J
<b>Contract Number:</b>	CM1414
<b>Contact Name:</b>	Michael Holcomb, Office Leader/Associate Vice President
<b>Contact Number:</b>	904-363-8460
<b>Email:</b>	meholcomb@pbsj.com

<b>CURRENT WORK AUTHORIZATION</b>			
<b>Project Short Title: Design Services – Lem Turner Road @ Spring Lake Drive</b>			
		<b>CONTRACT OVERVIEW</b>	
<b>Date Submitted</b>	09/22/09	<b>Total of Previous Authorizations</b>	\$139,576.89
<b>Amount</b>	\$56,053.47	<b>This Work Authorization</b>	\$56,053.47
<b>Scheduled Completion: Design/Final Const. plans within 120 calendar days of the NPT</b>		<b>Current Contract Total</b>	\$195,630.36

This Work Authorization is to the AGREEMENT between Nassau County and the Consultant known as the Continuing Contract for Professional Engineering Services for Nassau County, Florida, dated March 23, 2009. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

The intent of this project is to provide final construction documents and all required permits for the proposed roadway improvements for the Lem Turner (SR 115) / Spring Lake Drive intersection which is located in western Nassau County. The Scope of Services and project is furthermore described in Exhibit A attached hereto and in the Transportation Impact Fee Study dated 07/08/09 prepared by King Engineering and provided to the Consultant.

ARTICLE 2. Time Schedule

All elements contained in this scope shall be satisfactorily completed and submitted to the County within 120 calendar days of the Notice to Proceed (NTP) from the County, excepting Bid Phase and Post Design services which shall be performed in a timely manner, as required and prior to billing for those services.

ARTICLE 3. Budget

Compensation for this work authorization is based upon a combination of lump sum task and task under a limiting amount (not to exceed) as provided in the Estimate of Work Effort and Fee, Attached as Exhibit B. Lump Sum Total for Task 1 – 12 is \$50,940.35; Limiting Amount for Task 13 is \$5,113.12; for a Total Project cost \$56,053.47.

Article 4. Other Provisions

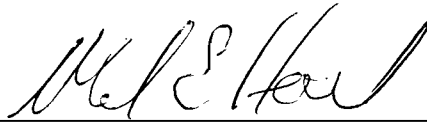
The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

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In presenting this Work Authorization, Consultant agrees that:

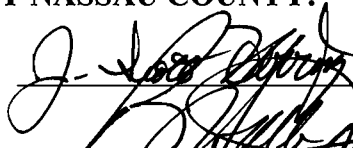
Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services is attached.

AGREED TO BY:

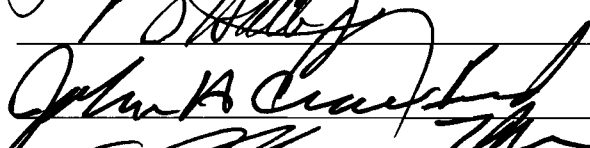
BY:   
Print Name: Michael E. Holcomb  
Title: Associate Vice President  
Date: 10/01/09

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

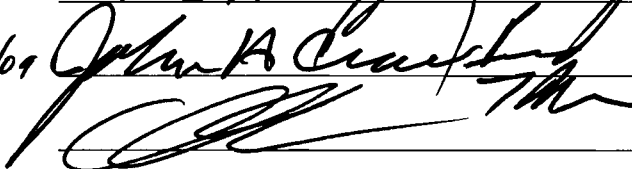
Director of Engineering Services:



Board of County Commissioners, Chair:



Ex-Officio Clerk:

EBM 10/26/09 

County Attorney:



APPROVED by the BOARD OF COUNTY COMMISSIONERS, the 26th day of October, 2009

EXHIBIT A  
SCOPE OF SERVICES  
ENGINEERING SERVICES  
FOR  
LEM TURNER ROAD @ SPRING LAKE DRIVE  
NASSAU COUNTY, FLORIDA

September 3, 2009

**A. PROJECT DESCRIPTION**

1. The intent of this project is to provide final construction documents and all required permits for the proposed roadway improvements for the Lem Turner (SR 115) / Spring Lake Drive intersection which is located in western Nassau County. The project is furthermore described in the Transportation Impact Fee Study dated 7/08/2009 prepared by King Engineering and provided to the Consultant.
2. The project limits extend approximately 700 feet east and 1200 feet west on Lem Turner (SR115) and approximately 150 feet north on Spring Lake Drive.
3. The scope of this project is based on recommendations included in a Transportation Impact Fee Study Dated 7/08/09 provided to the Consultant by the County. These improvements include the following:
  - a. Construct an eastbound left turn lane on Lem Turner Road onto northbound Spring Lake Dr.
  - b. Construct a westbound right turn lane on Lem Turner Road onto northbound Spring Lake Dr.

**B. PROJECT SCOPE**

1. Data Collection
  - a. Geotechnical - Two (2) Pavement core and six foot deep auger boring as well as one SPT boring will be performed. Laboratory classification testing, index property testing and LBR tests will then be performed on samples obtained from the borings to help classify the soils

and allow correlations with various engineering properties. An engineering report will be prepared that will include a review of available project information, a discussion and results of the conducted field and laboratory services, a discussion of site and subsurface conditions, recommendations for pavement milling depth, and resurfacing and recommendations for remediation of any distressed pavement.

- b. Survey / Right -of-Way Mapping – The consultant shall provide survey services within the projects limits as follows:
  - a. Establish Horizontal and Vertical Control.
  - b. Establish Baseline of survey.
  - c. Establish project Benchmarks.
  - d. Locate existing right-of-way lines.
  - e. Design Survey within project limits, right-of-way line to right-of-way line, including all above ground features together with drainage structures.
  - f. Survey sub-surface (underground) utilities within project limits.
  - g. Provide survey data by electronic files.
- c. Traffic Data - Traffic data from the Transportation Impact Fee Study will be utilized for the design of his project and thus no additional data will be necessary.

## 2. Project General Tasks

- a. **Notice to Proceed Meeting** - The Consultant team shall prepare for and attend one Notice to Proceed Meeting with Nassau County staff.
- b. **Project Status Meetings** - The appropriate members of the Consulting team shall attend up to three monthly progress meetings with the County staff to discuss project progress and status, upcoming events and activities. The purpose of these meetings is to maintain clear communication between the County and the Project Team. The Consultant shall prepare and distribute meeting minutes following each of these meetings.
- c. **Other Coordination Meetings** - The appropriate members of the Consulting team shall attend other additional meetings with adjacent agencies and/or their consultants as appropriate.

- d. **Project Schedule** - The Consultant shall prepare and submit a project schedule for this project identifying major tasks, their duration and tasks relationships. The schedule shall be updated monthly and at other appropriate intervals.
- e. **Invoices/Progress Report** - Invoices shall be prepared in the format prescribed by the County. Progress reports shall be submitted with each monthly invoice.
- f. **Quality Assurance/Quality Control** - The Consultant shall designate appropriate staff to conduct Quality Assurance/Quality Control (QA/QC) reviews of all work products prior to submittals to the County.

### 3. Roadway Analysis and Plans

The Consultant will perform the necessary roadway analyses and prepare construction plan sheets, notes and details for a complete set of roadway construction documents to convey the intent and scope of the project for the purposes of construction. The consultant will develop a pavement design based on the existing traffic data provided by the County and pavement cores obtained as part of this scope. Included herein are also the analyses, plans and design details necessary for a safe and effective Maintenance of Traffic (MOT) Plan to move vehicular, traffic during all phases of construction. The design will be prepared in accordance with the FDOT Green Book, County Standards and the FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System (Topic No. 625-010-003), latest editions, as applicable. This task will also include the preparation of Standard Specifications and Special Provisions.

### 4. Drainage Analysis

The Consultant will provide final drainage design services necessary to design roadside ditches that will support the proposed roadway improvements. The consultant's drainage analysis includes the following provisions:

- a. The Consultant will be responsible for the preparation of final design analyses for a complete drainage system. All design work will be in compliance with the FDOT Drainage Manual, County Standards, and the requirements of the regulatory agencies. This work includes only the design of roadside ditches as other improvements are assumed not to be required.
- b. The Consultant will meet with the SJRWMD to verify the assumption that since this project is classified as a safety improvement, no permit and associated stormwater treatment facilities will be required and thus are not included herein.
- c. The Consultant will account for all off-site drainage currently flowing to the roadway and accommodate for same in the design.
- d. The Consultant will provide a signed and sealed Drainage Design Report. It will be a record set of all drainage computations, both hydrologic and hydraulic.

#### 5. Utility Coordination

The Consultant shall be responsible for coordinating all design with the affected utility companies in order to minimize utility conflicts. The following services will be included:

- a. **Utility Coordination** – The Consultant shall coordinate with the known private and public utility companies within the project corridor and obtain plans of their existing facilities within the project limits. The consultant shall re-contact these utilities and submit 60% design plans that include all known existing utilities. The consultant shall make a final contact with these utilities to submit 90% plans that show all existing and proposed utility relocations.
- b. **Subsurface Utility Exploration** – A visual inspection has been made along the anticipated project construction limits. There is no evidence of underground utilities, thus no SUE's are anticipated nor included in this scope of work.

#### 6. Signing and Pavement Marking Analyses and Plans

The Consultant will perform the necessary signing and pavement marking analyses and prepare construction plan sheets, notes and details for a complete set of signing and pavement marking documents to convey the intent and scope of the project for the purposes of construction.

7. Signalization Analyses and Plans

N/A as none are anticipated.

8. Permitting

The Consultant will be responsible for the following permitting efforts:

- a. The CONSULTANT shall provide the information necessary to submit the application for a National Pollutant Discharge Elimination System (NPDES) General Permit within 60 days of NTP.
- b. St. Johns River Water Management District
  - i. Attend and facilitate a pre-design meeting within 30 days of NTP.
  - ii. The consultant shall submit for a formal exemption from the stormwater permitting requirements of St. Johns River Water Management District under Chapter 40C-42.0225 (5)(c) F.A.C. within 60 days of NTP.
  - iii. Based on conversations with the County, no jurisdictional wetland mitigation or other such permitting issues are anticipated for this project. Should any such ecological science services be required of the Consultant, they will be included in addition to this scope and fee.
  - iv. Based on conversations with the County, no jurisdictional wetland mitigation or other such permitting issues are anticipated for this project. Should any such ecological science services be required of the Consultant, they will be included in addition to this scope and fee.
  - v. The consultant shall be responsible for responding to any requests for additional information regarding the above permit submittal
- c. FDOT
  - i. Prepare and submit an FDOT Drainage and Driveway Connection Permit within 60 days from NTP.
  - ii. The consultant shall be responsible for responding to any requests for additional information regarding the above permit submittals.

9. Roadway Lighting Analyses and Plans

Not included herein.

10. Landscape Analyses and Plans

Not included herein.

11. Right of Way Mapping

Not included herein.

12. Construction Cost Estimate

To be provided at 60% and final plan stages.

13. Bid Phase Services

The Consultant will prepare a bid package including front end documents, special provision and specification for the bidding of this project. The consultant will also formally respond to questions during the bidding phase of the project and prepare a recommendation of the lowest qualified bidder based on the county prepared bid tabulations.

14. Post Design Services

The Consultant will provide post design services to include shop drawing review and approval, response to contractor RAI's, as-built review and certification and filing of a NOT upon completion of the project.

**C. PROJECT DELIVERABLES**

The Consultant shall contact the County prior to making a submission to verify the number of copies to submit. Up to Five draft copies of the construction and required supporting documents (reports, design calculations, letters, memos, etc.) will be submitted at the 60%, 90% and final stages of design.

**D. PROJECT SCHEDULE**

All elements contained in this scope shall be satisfactorily completed and submitted to the County within 120 calendar days of the NTP from the County, excepting Bid Phase and Post Design services which shall be performed in a timely manner, as required and prior to billing for those services.



## **E. COMPENSATION**

Consultant will perform the scope of services outlined herein for a lump sum fee of \$XX.XXX.

## **F. COUNTY RESPONSIBILITIES**

- a. Documents- The County shall provide access to any available plans, maps and other pertinent information under its control essential to the satisfactory completion of the work indicated herein.
- b. Reviews- The County will provide timely reviews of The Consultant's work in accordance with the schedule agreed upon between the County and The Consultant. Each review period by the county shall be two weeks, at which time all comments will be forwarded to The Consultant.

## **G. ASSUMPTIONS**

- a. This effort included in this scope is not intended to meet the FDOT or the Federal NEPA process.
- b. This effort does not include any Contamination investigations or analysis. If areas are identified during the Phase I study requiring further analysis, they will be addressed separately.
- c. Utility relocation design services are not included in this scope of work. If relocations and/or upgrades are identified as necessary by utility agencies, the relocation design work will be addressed separately.
- d. Wetland mitigation and/or threatened and endangered species mitigation efforts and/or designs are not included with this scope. If necessary, efforts will be addressed separately.
- e. The County will be responsible for all agency permitting and/or application fees. These costs are not part of The Consultant's scope and proposal.



ESTIMATE OF WORK EFFORT AND FEE  
Lem Turner Road

cm1414-WA04

EXHIBIT "B"

No. / ACTIVITY	Sheets	Project Management		Engineer III		Engineer II		Designer		Clerical		Project Totals		
		Man Hours	Labor Cost	Man Hours	Labor Cost	Man Hours	Labor Cost	Man Hours	Labor Cost	Man Hours	Labor Cost	Hours	Costs	
<b>TASK 1 - DATA COLLECTION</b>														
1a Geotechnical														\$ 800.00
1b Survey / ROW Mapping														\$ 6,520.76
1c Traffic Data														\$ -
	Subtotal													\$ 7,320.78
<b>TASK 2 - PROJECT GENERAL TASKS</b>														
2a-c Meetings		4	\$ 654.28	8	\$ 931.98	4	\$ 487.32	0	\$ -	4	\$ 220.16	18	\$ 2,293.74	
2d-e Project Administration		16	\$ 2,617.12	0	\$ -	0	\$ -	0	\$ -	40	\$ 2,201.60	56	\$ 4,818.72	
2f QA/QC		4	\$ 654.28	8	\$ 1,242.64	0	\$ -	0	\$ -	4	\$ 220.16	16	\$ 2,117.08	
	Subtotal	24	\$ 3,926.68	14	\$ 2,174.62	4	\$ 487.32	0	\$ -	48	\$ 2,641.92	90	\$ 9,229.54	
<b>TASK 3 - ROADWAY ANALYSES AND PLANS</b>														
3a Field Review / Site Visit		4	\$ 654.28	4	\$ 621.32	8	\$ 974.64	8	\$ 737.60	0	\$ -	24	\$ 2,987.84	
3b Pavement Design		0	\$ -	0	\$ -	4	\$ 487.32	0	\$ -	0	\$ -	4	\$ 487.32	
3c Roadway Design Analysis		2	\$ 327.14	0	\$ -	24	\$ 2,923.92	12	\$ 1,106.40	0	\$ -	38	\$ 4,357.46	
3d Roadway Plans														
Key Sheet	1	0	\$ -	0	\$ -	0	\$ -	2	\$ 184.40	0	\$ -	2	\$ 184.40	
Summary of Quantities	1	0	\$ -	0	\$ -	2	\$ 243.66	2	\$ 184.40	0	\$ -	4	\$ 428.06	
Typical Sections Sheet	1	0	\$ -	0	\$ -	4	\$ 487.32	4	\$ 368.80	0	\$ -	8	\$ 856.12	
General Notes	1	0	\$ -	0	\$ -	3	\$ 365.49	2	\$ 184.40	0	\$ -	5	\$ 549.89	
Roadway Plans	2	2	\$ 327.14	0	\$ -	4	\$ 487.32	20	\$ 1,844.00	0	\$ -	26	\$ 2,658.46	
Special Details	1	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
Traffic Control Details	1	0	\$ -	0	\$ -	6	\$ 730.98	12	\$ 1,106.40	0	\$ -	18	\$ 1,837.38	
Erosion Control Plans	2	0	\$ -	0	\$ -	2	\$ 243.66	2	\$ 184.40	0	\$ -	4	\$ 428.06	
SWPPP and Erosion Control Detail Sheet	2	0	\$ -	0	\$ -	2	\$ 243.66	2	\$ 184.40	0	\$ -	4	\$ 428.06	
Signing and Pavement Marking Sheet	2	0	\$ -	0	\$ -	4	\$ 487.32	8	\$ 737.60	0	\$ -	12	\$ 1,224.92	
3e Design Documentation Report		2	\$ 327.14	0	\$ -	8	\$ 974.64	0	\$ -	16	\$ 880.64	26	\$ 2,182.42	
3f Pay Item Quantities		0	\$ -	0	\$ -	6	\$ 730.98	12	\$ 1,106.40	0	\$ -	18	\$ 1,837.38	
3g Specifications		2	\$ 327.14	0	\$ -	12	\$ 1,461.96	0	\$ -	24	\$ 1,320.96	38	\$ 3,110.06	
	Subtotal	12	\$ 1,862.84	4	\$ 621.32	89	\$ 10,842.87	86	\$ 7,929.20	40	\$ 2,201.60	231	\$ 23,557.83	
<b>TASK 4 - DRAINAGE ANALYSIS</b>														
	Subtotal	0	\$ -	24	\$ 3,727.92	0	\$ -	0	\$ -	0	\$ -	24	\$ 3,727.92	
<b>TASK 5 - UTILITY COORDINATION</b>														
	Subtotal	0	\$ -	4	\$ 621.32	0	\$ -	0	\$ -	8	\$ 440.32	12	\$ 1,061.64	
<b>TASK 6 - SIGNALIZATION</b>														
	Subtotal	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
<b>TASK 7 - PERMITTING</b>														
	Subtotal	0	\$ -	12	\$ 1,863.96	8	\$ 974.64	0	\$ -	0	\$ -	20	\$ 2,838.60	
<b>TASK 8 - LIGHTING</b>														
	Subtotal	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
<b>TASK 9 - LANDSCAPE ARCHITECTURE</b>														
	Subtotal	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
<b>TASK 10 - ROW MAPPING</b>														
	Subtotal	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
<b>TASK 11 - CONSTRUCTION COST ESTIMATES</b>														
	Subtotal	2	\$ 327.14	0	\$ -	4	\$ 487.32	0	\$ -	0	\$ -	6	\$ 814.46	
<b>TASK 12 - BID PHASE SERVICES</b>														
	Subtotal	0	\$ -	0	\$ -	16	\$ 1,949.28	0	\$ -	8	\$ 440.32	24	\$ 2,389.60	
	LUMP SUM TOTAL	38	\$ 6,215.66	58	\$ 9,009.14	121	\$ 14,741.43	86	\$ 7,929.20	104	\$ 5,724.16	407	\$ 50,940.35	
<b>TASK 13 - POST DESIGN SERVICES</b>														
	Subtotal	8	\$ 1,308.56	0	\$ -	24	\$ 2,923.92	0	\$ -	16	\$ 880.64	48	\$ 5,113.12	
	LIMITING AMOUNT TOTAL	8	\$ 1,308.56	0	\$ -	24	\$ 2,923.92	0	\$ -	16	\$ 880.64	48	\$ 5,113.12	
<b>PROJECT TOTALS</b>														
		46	\$ 7,524.22	58	\$ 9,009.14	145	\$ 17,665.35	86	\$ 7,929.20	120	\$ 6,604.80	455	\$ 56,053.47	

## SURVEY ESTIMATION CHART

Consultant: CLARY & ASSOCIATES, INC.  
 Name of Job: Nassau County Intersections  
 Intersections: Lem Turner Road at Spring Lake Drive  
 Date: 8/10/2009  
 County(les) Nassau

SURVEY FUNCTIONS	CREW DAYS	SUBCON CREW DAYS	COMMENTS
Baseline Control			
Alignment			
Bench Levels			
Reference Points			
Section Line Ties			
Subdivision and Property Ties			
Side Street Surveys			
Topography	3		
Cross-Sections / Profiles			
Underground Utilities			
Special Surveys (ditches, canals, etc.)			
Stake Out for Borings			
Water Retention Area			
Supplemental Surveys			
Jurisdictional Line Surveys			
Aerial Targets			
<b>TOTAL</b>	<b>3</b>	<b>0</b>	

Survey T1hours      10 x \$150.00    3 Person Hourly Crew Rate = \$1,500.00 Day Rate

Survey Day Rate	<u>\$1,500.00</u>	x	<u>3</u>	=	<u>\$4,500.00</u>
Surveyor & Mapper	<u>\$173.21</u>	x	<u>5</u>	=	<u>\$866.05</u>
Cadd Tech/Computer Tech	<u>\$68.63</u>	x	<u>9</u>	=	<u>\$617.67</u>
Sr. Surveyor & Mapper	<u>\$214.47</u>	x	<u>2</u>	=	<u>\$428.94</u>
Secretary/Clerical	<u>\$54.05</u>	x	<u>2</u>	=	<u>\$108.10</u>
<b>TOTAL SURVEY COST</b>					<u>\$6,520.76</u>

Prepared by: Dennis Elswick

Date: August 10, 2009

Comments: \_\_\_\_\_