

**Lee County Board Of County Commissioners  
Agenda Item Summary**

**Blue Sheet No. 20061500**

**1. ACTION REQUESTED/PURPOSE:** Approve Change Order No. 5 to Contract #2585 for **CN-02-31 Colonial Boulevard PD&E Study-McGregor Blvd to I-75 (fka Burnt Store Road)** with Post, Buckley, Schuh, and Jernigan, Inc. in the amount of \$1,430,247.00. This Change Order was anticipated and funds are available. Authorize Chairwoman to execute Change Order on behalf of the Board.

**2. WHAT ACTION ACCOMPLISHES:** This change order changes the eastern limit of the Colonial Boulevard PD&E from east of Metro Parkway to east of I-75 and adds a Toll Facility Planning and Evaluation Study for the entire project.

**3. MANAGEMENT RECOMMENDATION: Staff Recommends Approval**

<b>4. Departmental Category:</b> 09 Transportation <span style="font-size: 1.5em; margin-left: 20px;">C9A</span>		<b>5. Meeting Date:</b> DEC 12 2006
<b>6. Agenda:</b> <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Administrative <input type="checkbox"/> Appeals <input type="checkbox"/> Public <input type="checkbox"/> Walk-On	<b>7. Requirement/Purpose: (specify)</b>	
	<input type="checkbox"/> Statute	
	<input type="checkbox"/> Ordinance	
	<input checked="" type="checkbox"/> Admin. Code <u>AC-4-4</u>	
	<input type="checkbox"/> Other	
		<b>8. Request Initiated:</b> Commissioner _____ Department <u>Transportation</u> Division _____ By: <u>Scott Gilbertson, Director</u>

**9. Background:**

On September 9, 2003 the Board of County Commissioners entered into a contract with Post, Buckley, Schuh and Jernigan, Inc. under CN-02-31 Burnt Store Road-Veterans' Parkway-Colonial Boulevard Corridor Study in the amount of \$780,766.00.

Change Order #2 was approved by the Board on March 14, 2006 to perform a PD&E study on Colonial Boulevard from west of McGregor Boulevard to east of Metro Parkway in order to maintain eligibility for federal funding.

This change order will add two tasks to the existing contract and changes the project name to Colonial Boulevard PD&E Study from west of McGregor Boulevard to east of I-75.

Task 1 will extend from eastern limit of the PD&E study from east of Metro Parkway to east of I-75. Fee for Task 1 is not to exceed \$1,096,292.00.

Task 2 adds a scope of services for Toll Facility Planning and Evaluation for the entire project. Fee for Task 2 is not to exceed \$333,955.00.

The total fee for Change Order #5 is not to exceed \$1,430,247.00.

Funds are available in account #20505430721.506510

Attachments: Two (2) Original Change Order No. 2 for Execution.

**10. Review for Scheduling:**

Department Director	Purchasing or Contracts	Human Resources	Other	County Attorney	Budget Services	County Manager/P.W. Director								
		NA			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Analyst</td> <td>Risk</td> <td>Grants</td> <td>Mgr.</td> </tr> <tr> <td><i>[Signature]</i></td> <td><i>[Signature]</i></td> <td><i>[Signature]</i></td> <td><i>[Signature]</i></td> </tr> </table>	Analyst	Risk	Grants	Mgr.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	11-17-06
Analyst	Risk	Grants	Mgr.											
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>											

**11. Commission Action:**

Approved  
 Deferred  
 Denied  
 Other

RECEIVED BY COUNTY ADMIN:  
 11-20-06 2:00 pfe  
 11-20-06 9:00 AK  
 COUNTY ADMIN FORWARDED TO:

Rec. by CoAtty  
 Date: 11/17/06  
 Time: 4:08 PM  
 Forwarded to: 11/17/06 4:45 PM

LEE COUNTY PROFESSIONAL SERVICE/SERVICE PROVIDER AGREEMENT  
CHANGE ORDER/SUPPLEMENTAL TASK AUTHORIZATION

Change Order  
 Supplemental Task Authorization

NO.: 5

(A Change Order or Supplemental Task Authorization Requires Approval by the Department Director for Expenditures Under \$50,000 or Approval by the County Manager for Expenditures Between \$50,000.01 and \$100,000 or Approval by the Board of County Commissioners for Expenditures over \$100,000)

CONTRACT/PROJECT NAME: Burnt Shore Road  
COLONIAL BOULEVARD PD&E STUDY – McGREGOR BOULEVARD to I-75

CONSULTANT: PBS&J PROJECT NO.: 5054

SOLICIT NO.: CN-02-31 CONTRACT NO.: 2585 ACCOUNT NO. 20505430721.506510

REQUESTED BY: Nicole Maxey, P.E. DATE OF REQUEST: 10/27/06

Upon the completion and execution of this Change Order or Supplemental Task Authorization by both parties the Consultant/Provider is authorized to and shall proceed with the following:

EXHIBIT "CO/STA-A" SCOPE OF PROFESSIONAL SERVICE: DATED: 10/27/06

EXHIBIT "CO/STA-B" COMPENSATION & METHOD OF PAYMENT: DATED: 10/27/06

EXHIBIT "CO/STA-C" TIME AND SCHEDULE OF PERFORMANCE: DATED: 10/27/06

EXHIBIT "CO/STA-D" CONSULTANT'S/PROVIDERS ASSOCIATED  
SUB-CONSULTANT(S)/SUB-CONTRACTORS: DATED: 10/27/06

EXHIBIT "CO/STA-E" PROJECT GUIDELINES AND CRITERIA DATED: 10/27/06

It is understood and agreed that the acceptance of this modification by the CONSULTANT/PROVIDER constitutes an accord and satisfaction.

RECOMMENDED:

By: [Signature] 11/1/06  
Date  
Department Director

By: [Signature] 11/7/06  
Date  
Contracts Management

ACCEPTED

By: [Signature]  
Date Accepted: 10/30/06  
Consultant/Provider  
**RICHARD M. GRUBEL**  
**Senior Vice President**

(CORPORATE SEAL)

COUNTY APPROVAL:

By: \_\_\_\_\_  
Date Approved: \_\_\_\_\_  
Department Director (Under \$50,000)

By: \_\_\_\_\_  
Date Approved: \_\_\_\_\_  
County Manager  
(Between \$50,000.01 and \$100,000)

APPROVED:

\*County Attorney's Office \_\_\_\_\_ Date

By: \_\_\_\_\_  
Date Approved: \_\_\_\_\_  
Chairwoman  
Board of County Commissioners  
(Over \$100,000)

\* County Attorney signature needed for over Board level expenditures only

CHANGE ORDER AGREEMENT No. 5  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_\_

EXHIBIT "CO/STA-A"

Date: October 27, 2006

SCOPE OF PROFESSIONAL SERVICES

for Colonial Boulevard PD&E Study - from West of McGregor Boulevard to East of I-75

SECTION 1.00 CHANGE(S) TO PROFESSIONAL SERVICES

The "Scope of Professional Services" as set forth in Exhibit "A" of the Professional Services Agreement, or Service Provider Agreement, referred to hereinbefore is hereby supplemented, changed or authorized, so that the CONSULTANT or SERVICE PROVIDER, shall provide and perform the following professional services, tasks, or work as a supplement to, change to, or authorized to, the scope of services previously agreed to and authorized:

This Change Order #5 (CO #5) adds two tasks to the existing contract and changes the project name to: Colonial Boulevard PD&E Study - from west of McGregor Boulevard to east of I-75.

Task 1 extends the limits of the PD&E Study, currently from West of McGregor Boulevard to East of Metro Parkway. The extended limits will be from West of McGregor Boulevard to East of I-75.

Task 2 adds Toll Facility Planning and Evaluation for the entire new project limits.

This CO also adds contract billing rates for PBS&J Sr. Toll Consultant (\$198.56), Toll Consultant (\$156.03), Program Manager (\$148.92) and Sr. Transportation Planner (\$112.04) as shown in Attachment 1 to COEXH-B.

This CO also updates contract billing rates for CRSPE, Inc., as shown in Attachment 2 to COEXH-B.

This CO also updates contract billing rates for FR Aleman, Inc as shown in Attachment 3 to COEXH-B

The total additional fee for CO #5, Task 1 is not to exceed \$1,096,292

The total additional fee for CO #5, Task 2 is not to exceed \$333,955

The total additional fee for CO #5 is \$ 1,430,247

The total revised contract amount is \$3,543,644

**EXHIBIT A**

**SCOPE OF SERVICES**

**TASK 1: PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY**

**Extend Colonial Boulevard PD&E Study along SR 884  
From East of Metro Parkway to East of I-75**

**AND**

**TASK 2: TOLL FACILITY PLANNING AND EVALUATION**

**Lee County, Florida**

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## **SCOPE OF SERVICES TASK 1**

### **CONSULTING ENGINEERING SERVICES PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY**

This Exhibit forms an integral part of the agreement between the LEE COUNTY Department of Transportation (hereinafter referred to as LEE COUNTY) and PBS&J (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

#### **Extend Colonial Boulevard PD&E Study along SR 884 From East of Metro Parkway to east of I-75 Lee County, Florida**

#### **PURPOSE**

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the CONSULTANT and the LEE COUNTY in connection with the Preliminary Engineering (Conceptual Design), and Environmental Studies necessary to comply with Florida Department of Transportation (hereinafter referred to as FDOT) procedures and to obtain Federal Highway Administration (FHWA) Location and Design Concept Acceptance (LDCA) of proposed improvements to this transportation facility.

The Project Development Process shall follow the FDOT publication titled "Project Development and Environment Manual", published 07/01/88 and all subsequent revisions. Throughout this Scope of Services portion of this CONSULTANT Contract, the publication will be referred to as the "PD&E Manual". All tasks identified in this scope of work will be done in accordance with the FDOT's PD&E Manual, unless otherwise stated.

The PD&E Manual incorporates all the requirements of the National Environmental Policy Act (NEPA); Federal law and executive orders; applicable Federal regulations included in the Federal Highway Administration Federal-Aid Policy Guide; and applicable State laws and regulations including Chapter 339.155 of the Florida Statutes. The project documentation prepared by the CONSULTANT in accordance with the PD&E Manual shall therefore be in compliance with all applicable State and Federal laws, executive orders, and regulations.

The CONSULTANT shall perform those engineering services required for LDCA studies, including consideration of all social, economic, environmental effects, and mitigation as required by the FHWA and/or the PD&E Manual, along with the required environmental documents, engineering reports, preliminary plans, public hearing, and right-of-way maps.

Sections 1 through 5 of the Scope of Services will establish which items of work described in the PD&E Manual are specifically included in this contract, and which of the items of work will be the responsibility of the CONSULTANT or the COUNTY.

LEE COUNTY will provide contract administration and provide management services and technical reviews of all work associated with the development and preparation of the engineering/environmental study reports for the transportation facility.

## **STUDY OBJECTIVE**

The CONSULTANT is currently under contract with the COUNTY to perform a PD&E Study along CR 884 from west of McGregor Boulevard to Cleveland Avenue (US 41) and SR 884 from Cleveland Avenue (US 41) to east of Metro Parkway. This Scope of Services is specific to extending the project limits eastward to east of I-75 to study the expressway concepts:

- elevated mainline and at-grade frontage roads
- new overpasses at Veronica Shoemaker Boulevard, Challenger Parkway, Winkler Avenue, Ortiz Avenue, I-75, and Forum Boulevard
- Modified bridge over Six Mile Cypress Preserve
- Evaluate new interchange concepts at I-75

## **STUDY REQUIREMENTS AND PROVISIONS FOR WORK**

### **Governing Regulations**

The services performed by the CONSULTANT shall be in compliance with all applicable FDOT Manuals and Guidelines. The FDOT's Manuals and Guidelines incorporate by requirement or reference all applicable State and Federal regulations. The current edition, including updates, of the following FDOT Manuals and Guidelines shall be used in the performance of this work. It is understood that American Association of State Highway Transportation Officials (AASHTO) criteria shall apply as incipient policy.

- Florida Statutes
- Florida Administrative Codes
- Applicable federal regulations and technical advisories
- Project Development and Environment Manual
- Plans Preparation Manual
- Roadway Traffic and Design Standards
- Highway Capacity Manual
- Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways
- Bicycle Facilities Planning and Design Manual
- Right-of-Way Mapping Handbook
- Location Survey Manual
- EFB User Guide
- Drainage Manual
- Outline Specifications - Aerial Surveys/Photogrammetry

- Soils and Foundations Manual
- Structures Design Guidelines
- CADD Manual (No. 625-050-001)
- CADD Production Criteria Handbook
- Florida's Level of Service Standards and Guidelines Manual for Planning (No. 525-000-005)
- Equivalent Single Axle Load Guidelines (No. 525-030-121)
- Design Traffic Procedure (No. 525-030-120)
- K-Factor Estimation Process
- Project Traffic Forecasting Guidelines
- Florida Highway Landscape Guide
  - Basis of Estimates Manual

### **Liaison Office**

LEE COUNTY will designate a Project Manager who shall be the LEE COUNTY representative for the Project. While it is expected the CONSULTANT shall seek and receive advice from various State, regional, and local agencies, the final direction on all matters of this Project remain with the Project Manager.

### **Key Personnel**

The CONSULTANT'S work shall be performed and directed by the key personnel identified in the attached organization chart. Any changes in the indicated personnel shall be subject to review and approval by LEE COUNTY.

### **Meetings and Presentations**

The CONSULTANT shall attend a Notice to Proceed Meeting with LEE COUNTY representatives, where relevant project information will be provided by LEE COUNTY, along with procedures for administering the contract. The CONSULTANT staff shall also be available with no more than a five workday notice to attend meetings or make presentations at the request of LEE COUNTY. Such meetings and presentations may be held at any hour between 8:00 A.M. and 12:00 midnight on any day of the week. The CONSULTANT may be called upon to provide maps, press releases, advertisements, audiovisual displays and similar material for such meetings.

### **Quality Control**

The CONSULTANT shall be responsible for insuring that all work products conform to LEE COUNTY and FDOT standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall insure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work.

Prior to submittal of the first invoice, the CONSULTANT shall submit to LEE COUNTY's Project Manager for approval the proposed method or process of providing Quality Control for all work products. The Quality Control Plan (attached) shall identify the products to be reviewed, the personnel who perform the reviews, and the method of documentation.

## Correspondence

Copies of all written correspondence between the CONSULTANT and any party pertaining to this study shall be provided to LEE COUNTY for their records within one (1) week of the receipt of said correspondence.

## Submittals

The CONSULTANT shall provide copies of the required documents as listed below. These are the anticipated printing requirements for the project. This tabulation will be used for estimating purposes, and the Project Manager will determine the number of copies required prior to each submittal.

### Engineering Items:

	<u>Draft</u>	<u>Final</u>
Design Traffic Technical Memorandum	2	5
First Draft Preliminary Engineering Report	2	5
Second Draft Preliminary Engineering Report	2	5
Final Preliminary Engineering Report (Signed and Sealed)	2	5
Location Hydraulics Report	2	5
Drainage Report	2	5
Conceptual Design Roadway Plan Set	(Included w/ PER)	
Geotechnical Report	2	5
Typical Section Package	2	5

### Environmental Items:

	<u>Draft</u>	<u>Final</u>
Advance Notification Package	2	3
Public Involvement Plan	2	3
Comments and Coordination Report	3	5
Class of Action Determination	3	5
Environmental Assessment	3	5
Section 4(f) Determination of Applicability	3	5
Section 4(f) Report	3	5
Noise Study Report	3	5
Air Quality Report	3	5
Contamination Screening Evaluation Report	3	5
Conceptual Stage Relocation Plan	3	5
Public Hearing Transcript	1	3
Endangered Species Biological Assessment	2	5
Wetlands Evaluation Report	2	5
Cultural Resource Assessment	2	5

Upon completion of the study, the CONSULTANT shall deliver to LEE COUNTY, in an organized manner, all project files, maps, sketches, worksheets, and other materials used or generated during the study process. Final reports will be delivered on a CD in PDF format to both LEE COUNTY and FDOT. FDOT will also receive a CD copy of each Final Report.

## **Computer Automation**

The project will be developed utilizing Computer Aided Drafting and Design (CADD) systems. The CONSULTANT will submit final documents and files as described therein. All computer disks shall be scanned for viruses prior to submitting to LEE COUNTY.

## **Coordination with Other Consultants and Entities**

The CONSULTANT is to coordinate their work with any ongoing and/or planned projects that may affect this study.

The CONSULTANT is to coordinate with local governmental entities to ensure design and right-of-way (ROW) requirements for the project are compatible with local public works improvements and ROW activities.

## **1.0 PUBLIC INVOLVEMENT**

Public involvement includes communicating to and receiving information from all interested persons, groups, and government organizations information regarding the development of the project. The CONSULTANT shall coordinate and perform the appropriate level of public involvement for this project as outlined in Part 1, Chapter 8, and Part 2, Chapter 9 of the PD&E Manual and the following sections.

### **1.1 Public Involvement Program**

The CONSULTANT shall prepare for review by LEE COUNTY a Public Involvement Plan.

### **1.2 Public Involvement Data Collection**

In addition to public involvement data collection, the CONSULTANT shall assist LEE COUNTY in preparing responses to any public inquiries as a result of the public involvement process.

### **1.3 Notice of Intent – N/A**

### **1.4 Advance Notification**

At the beginning of the project, the CONSULTANT shall prepare the Advance Notification and transmittal letter as per Part 1, Chapter 2 of the PD&E Manual for the LEE COUNTY Project Manager to submit to the State Clearing House. The Consultant will prepare a summary of all comments received.

### **1.5 Scheduled Public Meetings**

The CONSULTANT shall provide all support necessary for the LEE COUNTY to hold or participate in up to four public meetings, which may include but not limited to:

- Scoping Meetings

- Elected Officials/Agency Kick-off Meeting
- Small Group/Civic Organization Meetings
- Alternatives Public Workshop

For any of the above type meetings, the CONSULTANT shall prepare and/or provide:

- Scripts or agenda for presentation
- Handouts
- Graphics for presentation
- Meeting equipment set-up and teardown
- Legal and/or display advertisements (The CONSULTANT will pay the cost of publishing)
- Letters for notification of elected and appointed officials, property owners and other interested parties (The CONSULTANT will pay the cost of first class postage)
- News releases, for use three to five days prior to meeting
- Summary notes of meetings
- Briefing and debriefing of LEE COUNTY staff

The CONSULTANT will investigate potential meeting sites to advise LEE COUNTY on their suitability. LEE COUNTY will pay all costs for meeting site rents and insurance.

The CONSULTANT will attend the meetings with an appropriate number of personnel to assist LEE COUNTY'S Project Manager.

It is estimated for this project there will be one Alternatives Public Workshop during the study.

#### **1.6 Unscheduled Public and Agency Meetings**

In addition to scheduled public meetings, the CONSULTANT may be required to participate in unscheduled meetings with the public, elected officials, or public agencies. The CONSULTANT's participation will be limited to participation during the meeting, note taking, and summarizing the meeting in a memo to the file. It is estimated for this project there will be four (4) meetings during the study.

#### **1.7 Public Hearing**

The CONSULTANT shall provide all the support services listed in Sections 1.2 and 1.5 above, and in addition shall prepare:

Public officials and Agency letters: The CONSULTANT will prepare the letters, insert them in envelopes, and address the envelopes. The CONSULTANT will pay for first class postage

Property owner letters: The CONSULTANT will provide marked tax maps of the project alternatives and identify the names and addresses of the property owners from county tax rolls. The CONSULTANT will prepare the letters, insert them in envelopes, and address the envelopes. The CONSULTANT will pay for first class postage, and provide:

- All elements of the multi-media presentation including a PowerPoint or Video presentation
- Graphics and display boards
- Displays of plans and report(s) for the public display
- Brochures or handouts
- Prepare public advertisements
- Court Reporter
- Briefing and debriefing of LEE COUNTY staff

The CONSULTANT will procure a verbatim transcript of the Public Hearing. The CONSULTANT will combine the transcript with any letters received by LEE COUNTY as part of the public hearing record, and affidavits of publication of legal ads, and will provide copies of the transcript.

#### **1.8 Newsletters**

The CONSULTANT shall prepare four newsletters to be distributed at the following times:

- At the beginning of the study
- Prior to the Public Workshop
- Prior to the Public Hearing
- Upon completion of the PD&E Study summarizing the Public Hearing and announcing LDCA

#### **1.9 Special Public Involvement Requirements**

The CONSULTANT will prepare a Comments and Coordination Report to document the public participation accomplished throughout the study. The Comments and Coordination Report will summarize and respond to the comments received from public involvement meetings, Advance Notification, and permit coordination efforts as per Part 2, Chapter 31 of the PD&E Manual.

##### **Web Site**

The CONSULTANT will create a project web site for this project. The project is expected to take 18 months. This site will have a distinct address on the World Wide Web (i.e. [www.xxxx.com](http://www.xxxx.com)). A link will be established on the Lee County Department of Transportation home page as well as the CONSULTANT'S home page. To allow for input via E-mail links, meeting information and report summaries will be available for viewing and downloading. Limited graphics will be available due to the size and downloading time for many graphical applications. The web site must be updated monthly.



The web site will contain a minimum of five pages:

- A facts page (home page)
  - A PD&E definition page
  - A project information page
  - A public involvement paged
  - A project schedule page
- a. The facts page will be a brief overview of what the project is, and the need for the project.
  - b. A link to this site will appear wherever the acronym PD&E appears on any of the subsequent pages. It will give a brief overview of how a PD&E project is done and the outcomes possible from it.
  - c. The project information page will have specific project information as well as results of workshops, hearings, etc. This will be updated to add or delete alternatives being considered as necessary.
  - d. The public involvement page will contain a general overview of proposed meetings. This will include Public Information Meetings, Public Workshops, Speaker's Bureau, Neighborhood Homeowners Association Meetings, Public Hearing, and any other meeting LEE COUNTY would like added to the site. The page will also contain an area where viewers may enter their name and address (both are to be mandatory inputs) to be added to the mailing database. The Project Manager's name will be listed as a contact with his/her Lee County mailing, and E-mail addresses listed as well as his/her telephone and fax at the County Office. This page will also contain all above information listed for LEE COUNTY's Project Manager on the subscription page. All pages will be linked to the public involvement page.
  - e. The project schedule will contain a brief generalization of the milestones for this project. Milestones will be taken from the schedule developed by the CONSULTANT, as approved by LEE COUNTY. List milestones by seasons of the year rather than by actual dates. Shifts in the schedule will be reflected in this page as they occur.

This project will be linked to the Lee County web site in accordance with LEE COUNTY rules and specifications. The CONSULTANT is directed to contact Lee County's Office of Information Services through the Project Manager before setting up the web site. All web site development activities will be coordinated with LEE COUNTY.

### **Renderings**

The CONSULTANT will provide a 3-D computer generated (Vissim) visualization "fly through" for the recommended I-75 interchange alternative.



## **Focus Group Meetings/Surveys**

Focus Group meetings and surveys are not included as part of this scope, but may be added as Optional Services.

## **2.0 ENGINEERING ANALYSIS AND REPORTS**

The CONSULTANT shall coordinate and perform the appropriate level of engineering analysis for this project as outlined in Part 1, Chapter 9 of the PD&E Manual and the following sections.

### **Data Collection**

Immediately following the Advance Notification, the CONSULTANT shall begin preliminary assessments of the study corridor from an engineering standpoint. This task is largely of a data gathering nature. This activity consists of collecting various information and materials relative to the performance of engineering analyzes within the study area. The information should include all data necessary to perform adequate evaluation of the location and design of a transportation facility.

### **2.1 Field Review**

The CONSULTANT shall conduct all anticipated field trips needed to collect engineering data

### **2.2 Aerial Photography**

Aerial Photography shall be used as a basis for plotting various data necessary for both engineering and environmental analysis, alternative corridor and design studies, and the development of the preliminary plans of conceptual design. Copies of aerial photography are the prime source of information used to convey project considerations to the public at public meetings.

LEE COUNTY will furnish the necessary black and white aerial raster photography to be used in the study. Aerial photography shall be prepared for the following uses at the noted ratios:

Public Meeting Materials	1"=100' Roll Plots
Alternative Plans	1"=200' 11"x17" plan sheets

### **2.3 Survey Coordination**

This task is for the CONSULTANT to coordinate with the survey sub consultant regarding project requirements, review of survey data, and scheduling.

## **2.4 Existing Roadway Characteristics**

The CONSULTANT shall determine existing roadway characteristics including:

- Typical sections
- Posted speed
- Sidewalk width and locations
- Lighting conditions
- Access management features/classification

## **2.5 Existing Structure Characteristics**

The CONSULTANT shall determine existing structural characteristics including:

- Age, type and condition of existing structures
- Suitability of widening/modifying existing structures

## **2.6 Traffic Data**

LEE COUNTY will furnish the following initial traffic data:

- Current corridor traffic counts
- 20-year Design Corridor System Traffic with K & D Factors
- Volume of trucks (medium and heavy), motorcycles and buses for existing, opening, interim years and design year

The CONSULTANT will develop level of service (LOS) "C" traffic volumes at anticipated posted speed if LOS D, E, or F is anticipated during the life of the project (for noise study).

The CONSULTANT will analyze the 2030 traffic projections, provided initially by the LEE COUNTY Metropolitan Planning Organization (MPO), and report to the Project Manager concerning apparent inconsistencies. The CONSULTANT will provide the Project Manager with support and advice in procuring acceptable revised Traffic Projections.

The CONSULTANT will furnish 72-hour bidirectional classification traffic machine counts (approach volumes at 15-minute increments) at the following locations at a minimum:

- Colonial Boulevard between Metro Parkway and Winkler Avenue
- Colonial Boulevard between Ortiz Avenue and I-75 SB ramps
- Colonial Boulevard between I-75 NB ramps and Forum Boulevard

The CONSULTANT will furnish 24-hour traffic machine counts (approach volumes at 15-minute increments) at the following intersection locations at a minimum:

- Colonial Boulevard/Veronica Shoemaker Boulevard
- Colonial Boulevard/Challenger Parkway
- Colonial Boulevard/Winkler Avenue
- Colonial Boulevard/Ortiz Avenue

- All ramps and intersections of Colonial Boulevard with I-75
- Colonial Boulevard/Forum Boulevard
- Colonial Boulevard/Treeline Avenue

Based on an analysis of the 24-hour traffic machine counts and evaluation of current and future development trends (traffic generators) the CONSULTANT will then perform 4-hour manual vehicle turning movement counts for the AM and PM peak hours (2 hours for each peak) at those intersections where required.

## **2.7 Crash Data**

The CONSULTANT shall obtain available data from Lee County for various highway segments required for the previous three years. The data collected shall include the number and type of accidents, accident locations, number of fatalities and injuries, and estimates of property damage and economic loss.

## **2.8 Existing Signage Inventory – N/A**

## **2.9 Utilities**

In accordance with Part 2, Chapter 10 of the PD&E Manual.

## **2.10 Railroads**

In accordance with Part 2, Chapter 10 of the PD&E Manual.

## **2.11 Transportation Plans**

The CONSULTANT shall obtain plans for all modes of transportation including surface, transit and non-motorized modes. The following plans or studies should be obtained:

- Urban Area Transportation Study; If applicable, Lee County 2030 Cost Feasible and Needs Plans
- Local Comprehensive Plans; city and county
- Transit; rail, bus, other
- Non-motorized modes, including bikeways and pedestrian walkways

## **2.12 Soils**

The CONSULTANT shall review the United States Department of Agriculture, Geological Survey, Soil Conservation Service Maps and summarize the findings.

The Geotechnical subconsultant will review readily available published topographic and soils information, including the “Soil Survey of Lee County, Florida” published by the United States Department of Agriculture (USDA) Soil Conservation Services (SCS) and any other available data to obtain information on the existing subsurface conditions at the proposed project site and develop a project specific field exploration program adequate to support a 15 percent plan submittal.

A Roadway Soil Survey will be necessary for this project. Collect and test Limerock Bearing Ratio (LBR) samples from the areas of new pavement construction. The frequency of sampling for these tests will be based on guidelines given in *Soils & Foundation Handbook - April 2004* or latest version. A soil survey for pond sites will not be prepared.

Approximately 20 auger borings will be advanced to a depth of approximately five feet below ground surface and eight Standard Penetration Test (SPT) Borings shall be advanced to a depth of approximately 15 feet below ground surface to confirm soil type. Limited laboratory testing will be performed to establish the soil properties along the roadway alignment (not ponds) and summarized in the report.

Approximately four SPT borings shall be advanced to a depth of approximately 100 feet below existing grade along the proposed elevated roadway corridor. The borings will be utilized to identify possible foundation alternatives for the proposed bridge structure.

The CONSULTANT shall provide the COUNTY with electronic copies of all reports and laboratory results.

This task also includes the CONSULTANT coordination with the geotechnical subconsultant regarding project requirements, review of geotechnical data, and scheduling.

### **2.13 Base Map**

The CONSULTANT shall develop a CADD database that includes existing characteristics. CADD data base information shall be compatible for use on aerial photography used for public hearing presentations, corridor maps, and alternative plans.

### **2.14 Safety**

Based on the information obtained from the crash data the CONSULTANT shall identify project needs associated with the safety of the existing facility.

### **2.15 Analysis of Existing Conditions**

The CONSULTANT shall analyze the existing conditions in order to identify any deficiencies that are to be identified in the Needs section. This includes the following phases.

#### **Phase 1 – Data Compilation**

The data requirements of this analysis will be extensive in order to develop an accurate picture of travel conditions and patterns in the study area. A preliminary study area has been generally defined as Colonial Boulevard from west of McGregor Boulevard to east of Forum Boulevard and would include all intersecting roadways along the corridor for which traffic counts have been conducted, as noted previously. The data requirements are based upon the data

needs of the proposed evaluation tools that will be used to assess the impact of existing and future traffic conditions. Five basic types of data will be required:

- Traffic volume data (collected as part of the traffic count effort)
- Roadway geometric data (collected as part of the traffic count effort and then field verified)
- Traffic control data (to be provided by the COUNTY and then field verified)
- Travel time/speed data
- Land use data (use of aerials and then field verified)

Traffic volume data will be collected as part of the existing conditions data collection. The 72-hour bidirectional vehicle classification counts, 24-hour bidirectional approach counts and four-hour intersection turning movement counts outlined earlier in the scope should be sufficient for developing existing traffic volumes.

The roadway geometric characteristics of the facilities in the study area will need to be determined. It is assumed that current aerial photography with sufficient resolution to ascertain number of lanes and lane width is available. The necessary geometric characteristics will be obtained from the aerial photography and quality controlled with sample field checks, as necessary.

Data concerning the traffic control for each of the intersections in the study area will be required. These data will include the type of traffic control employed at each intersection (sign or signal). For the signalized intersections, the type of control (pre-timed, semi-actuated, or fully actuated) will be required along with the signal phasing and timings. It is assumed that the COUNTY will provide these data to the CONSULTANT. These signal phasing and timing data will be field checked for quality control, as necessary.

Travel time data are essential in the calibration of the traffic simulation model that will be developed as part of this study. This traffic simulation model will serve as the primary evaluation tool for the assessment of travel conditions in the study area for all alternatives. This travel time/speed data will be obtained using GPS data collection units specifically designed to collect travel time/speed data. Data will be collected by vehicles equipped with special GPS units, which obtain travel time/speed data at two-second increments as they travel along specific routes within the study area. Colonial Boulevard from west of McGregor Boulevard to east of Forum Boulevard will be traveled six times during each of two time periods (morning peak and afternoon peak) in each direction. These observations will be made on a weekday (Tuesday, Wednesday, or Thursday).

Land use activities will be important features that will provide information relative to vehicles entering and exiting the roadways along the major routes in the study area. Aerial photography together with field review will be used to identify the locations of vehicles entering and exiting the roadways along the roadways in the study area at major activity nodes. This information will be

critical in the development of the traffic simulation model for an accurate representation of travel conditions.

## **Phase 2 – Traffic Model Development**

The data collected in Phase 1 will allow the development of a traffic micro simulation model that accurately portrays the travel conditions in the study area. This process will include:

- Development of study area traffic micro simulation model network
- Development of study area trip tables
- Calibration of the traffic micro simulation model
- Identification of evaluation measures

The CONSULTANT will develop a traffic micro simulation model for the study area. This network will include the roadway geometry and traffic control information obtained in Phase 1. The CORSIM micro simulation model will be used as the software platform for this application. The selection of this software platform is based upon its ability to provide detailed operating statistics for individual vehicle types on the roadway network and is consistent with the FDOT Interchange Handbook guidelines, which will be used for the Colonial Boulevard/I-75 interchange operational analysis report (IOAR).

The CONSULTANT will develop two sets of trip tables for the study area. The first set of trip tables will be prepared assuming the existing transportation system is in place. The second set of trip tables will be developed assuming the four proposed roadway improvements options outlined earlier have been implemented. These trip tables will be developed using several data sources, including traffic counts, existing travel demand models, and projected development activity from the land use data. A base trip table will be developed that will be validated using traffic counts. This base trip table will be allocated to individual locations on the study area network where traffic will be assumed to entering and exiting the network. This validated base trip table will then be used to adjust the trip tables for the networks with the four proposed roadway improvement options.

To insure that the micro simulation model is accurately replicating the travel on the roadway network in the study area, a detailed calibration procedure will be employed. This procedure will insure that the micro simulation model is providing an accurate representation of total volumes, individual turning movement volumes, speeds, travel times and vehicle mix (autos and trucks). Appropriate model parameters will be adjusted until the model provides estimates of observed conditions within predefined levels of accuracy.

The CONSULTANT will develop a list of transportation system performance measures that will be used in the evaluation of the transportation system operation characteristics. Evaluation measures to be considered will include such items as:

- Study area vehicle-miles of travel by vehicle type
- Study area speeds by vehicle type
- Study area travel time by vehicle type

- Study area delay by vehicle type
- Intersection levels of service
- Arterial/expressway levels of service
- Ramp/weave area levels of service
- Travel times from locations entering the study area to specific locations within study area by vehicle type

## **2.16 Development of Needs Statement**

The CONSULTANT shall develop the Purpose and Need statement in accordance with Part 2, Chapter 5 of the PD&E Manual.

### **Design Analysis**

Utilizing the data collected as part of this scope of work, the CONSULTANT shall perform the engineering analysis necessary to complete the project development process. The task of engineering analysis will be ongoing throughout the duration of the project and will be performed with consideration to the results of the environmental impacts analysis.

The CONSULTANT shall develop and analyze alternate conceptual design alternatives using the concepts identified in the Final Phase II Concept Report. The development of the design alternatives shall consider the desires of the community with respect to landscaping, aesthetics, or other special features. Viable alternatives shall be developed along the corridor.

The CONSULTANT shall develop and evaluate all viable alternatives in order to address the project needs.

## **2.17 Corridor Analysis**

The CONSULTANT shall document that the existing corridor is the only feasible corridor for the project, and that other corridors were not considered.

## **2.18 Traffic Analysis**

### **Design Traffic**

The CONSULTANT is responsible for developing the AM and PM peak hour traffic projections to be used to establish the basic design requirements for roadway typical sections, intersection, and interchange design.

The CONSULTANT will obtain the Annual Average Daily Traffic (AADT) volumes from URS for the following years and alternatives:

- Opening year (2010)
- Design year (2030) twenty years from opening the new facility

The following alternatives will be considered for each future analysis years:

- No-Build Alternative (assume E+C improvements outlined for Colonial Boulevard and SPUI at I-75)
- Arterial Alternative (assume 2030 MPO Cost Feasible Plan improvements for Colonial Boulevard and SPUI at I-75)
- Non-Toll Expressway Alternative (assume Non-Toll Expressway concept for Colonial Boulevard and SPUI at I-75)
- Toll Expressway Alternative (assume Toll Expressway concept for Colonial Boulevard and SPUI at I-75)

The CONSULTANT will develop AM and PM peak hour volumes for future years and alternatives listed previously.

### **Traffic Operational Analysis**

The CONSULTANT shall also perform the following activities in connection with the traffic for both the AM and PM peak hours for future years 2010 and 2030.

- Capacity analyses at the intersections/interchanges listed in Section 2.6
- Identification of weaving sections to evaluate future conditions
- Identification of ramp merge and diverge conditions to evaluate future conditions
- Roadway segment and intersection LOS
- Queue lengths at all approaches to the intersections listed in Section 2.6 for the future year 2030 only

### **Design Traffic Memo**

The CONSULTANT will prepare a Design Traffic Technical Memorandum in accordance with the Project Traffic Forecasting Procedure (# 525-030-120-g). This memorandum will document the methodology used in developing the traffic demand and multi-modal splits, if applicable. The memorandum shall also identify the future AM and PM peak hour traffic volumes for each interchange alternative may include combinations with other modes of transportation.

The CONSULTANT will use the results of the traffic data collection activities described in Section 2.6 of this scope of services, and the initial traffic data furnished by LEE COUNTY and the LEE COUNTY MPO.

After LEE COUNTY and FDOT approval of the Design Traffic Technical Memorandum, those traffic projections will be used during the study of



conceptual design alternatives and for the analysis of any impacts which depend on traffic inputs (i.e. noise impacts and air quality assessments).

The existing and future year 2010 and 2030 traffic analyses will be completed using CORSIM software. The CORSIM validated network discussed in Section 2.15 will be used as a base to code the future alternatives. Evaluation of the future conditions will include summarizing the measures of effectiveness from CORSIM. A Traffic Memorandum will be prepared summarizing the result of the traffic analysis. In addition, the preferred alternative will be visually depicted using the VISSIM software for any future public workshops/presentations.

### **Interchange Operational Analysis Report (IOAR)**

#### **Design Traffic for IOAR**

The future AADT and AM and PM peak hour volumes will be used to establish the basic requirements for an interchange design. The following future year and design alternatives will be considered for the IOAR:

- Opening year (2010)
- Interim year (2020)
- Design year (2030) twenty years from opening the new facility

The following alternatives will be considered for each future analysis years:

- No-Build Alternative (SPUI at I-75 with E+C improvements outlined for Colonial Boulevard)
- SPUI at I-75 with Arterial Alternative (assume 2030 MPO Cost Feasible Plan improvements for Colonial Boulevard)
- One Interchange Concept with Non-Toll Expressway Alternative (assume Non-Toll Expressway concept for Colonial Boulevard)
- One Interchange Concept with Toll Expressway Alternative (assume Toll Expressway concept for Colonial Boulevard)

The CONSULTANT will conduct modeling effort and provide the AADT volumes in graphical format for all the approaches for interchange concepts (i.e., interstate mainline, ramps and arterials). The CONSULTANT will use the AADT volumes, appropriate K and D factors and turning movement percentages to develop AM and PM peak hour turning movement volumes for the future years and design alternatives listed previously.

## **Traffic Operational Analysis for IOAR**

The CONSULTANT shall also perform the following activities in connection with the traffic for both the AM and PM peak hours for existing and future years 2010, 2020, and 2030.

- Capacity analyses at the interchange intersections
- If applicable, identification of weaving sections along the arterial segment at the interchange
- Identification of ramp merge and diverge conditions to evaluate future conditions
- Roadway segment and intersection LOS
- Queue lengths at all approaches to the intersections associated with the interchange for the future year 2030 only

### **2.19 Typical Section Analysis**

Using the Phase II Concept Report as a basis, the CONSULTANT shall develop all appropriate typical section alternatives for the project. These will include typical sections that result in minimizing ROW or costs.

### **2.20 Roadway Design Alternatives**

The CONSULTANT will define alternatives evaluating horizontal and vertical geometry to assess land acquisition needs and connections to adjacent projects. The final Recommended Alternative may include interim staging alternatives depending on funding and timing issues with adjacent projects

### **2.21 Prepare Concept Plans**

The CONSULTANT will overlay Concept Plans on the base maps. At a minimum, the concept plans should include roadway and structure layout, intersection approach laneage, conceptual profiles, and proposed right-of-way lines.

### **2.22 Drainage Analysis Report**

The CONSULTANT shall perform preliminary drainage design and prepare a Drainage Analysis Report in order to determine potential outfall locations and preliminary sizes (volume and area) of required detention and/or retention facilities for storm water treatment or attenuation. The general location and size of potential detention/retention areas will be determined for all viable alternate alignments. Ponds located under proposed bridge structures will be evaluated and compared qualitatively to an alternative site.

The impacts to existing water management facilities (WMF) are to be evaluated with the proposed alignment alternatives. The additional WMF requirements for the proposed alignment alternatives are to be calculated and preliminary pond sites (not specific parcel locations) identified for each alternative. The pond site selection will be based upon preliminary design information, drainage needs and hydraulic adequacy within each basin.

### **2.23 Structures**

The CONSULTANT will evaluate conceptual structures vertical and horizontal alignments, superstructure type, length, cost, and consider preliminary locations of mast arms for signals and signs at the major intersections. Complete signal reconstruction with mast arm assemblies, internally illuminated overhead street name signs, (servicing all applicable directions), and full pedestrian features at the signalized intersections shall be included in construction cost estimate.

### **2.24 Access Management**

The CONSULTANT shall review the FDOT's State Highway System Access Management Classification System and Standards (Rule 14-97) and determine their application to the project. The CONSULTANT shall determine the proper access classification and standard to be applied to the project and coordinated with the FDOT's Access Management Review Committee.

The proposed access management plan shall be presented as part of the public involvement process. If an Access Management Classification/Reclassification Public Hearing is required, it will be combined with another public meeting.

### **2.25 Multi-modal Accommodations**

The CONSULTANT will coordinate with transit and local government officials in order to determine what multi-modal accommodations will be studied and evaluated as part of the project alternatives. This task only includes existing and planned multi-modal facilities.

### **2.26 Maintenance of Traffic Analysis**

The CONSULTANT will analyze the design alternatives for constructability and the ability to maintain traffic. If the analysis indicates that there will be a substantial cost to maintain traffic, this cost will be included in the final estimate for that alternative.

### **2.27 Geotechnical Coordination**

This task includes the CONSULTANT coordination with the geotechnical sub-consultant regarding project requirements, review of geotechnical data, and scheduling.

### **2.28 Intelligent Transportation Systems**

The CONSULTANT will review the potential for incorporating Intelligent Transportation System (ITS) components in the study corridor. This will include qualitative analysis of potential benefits. Quantitative analysis, such as IDAS modeling, is not contemplated as part of this task; however, it may be added as additional services. This task will include coordination with the County and FDOT on ITS components, if, any, currently under consideration for inclusion in the study corridor. The results of this task will be documented within the Design Traffic Memorandum.

## **2.29 Comparative Analysis and Evaluation Matrix**

After developing the viable alternatives and costs, the CONSULTANT will prepare a matrix comparing the impacts and costs of the alternatives evaluated, with a recommendation of the most viable alternative(s). The CONSULTANT shall present their recommendations to LEE COUNTY for consideration. LEE COUNTY will determine which viable alternative(s) will be evaluated further through the public involvement process and environmental analysis. The possibility exists that the No-Build alternate may be selected at this point.

## **2.30 Selection of Preferred Alternative(s)**

The CONSULTANT shall recommend a preferred alternative(s) based on a review and analysis of all engineering, environmental, and public involvement issues related to the project. LEE COUNTY will make the final selection of the Preferred Alternative.

## **2.31 Conceptual Design Plans (Preferred)**

The CONSULTANT will finalize concept plans for the preferred alternative that include refinements from the public hearing to include proposed typical sections, plan layout, mainline profiles, ramp profiles, and frontage road profiles.

## **2.32 Identify Construction Segments**

The CONSULTANT will recommend design and construction segments commensurate with reasonable funding, maintenance of traffic and construction staging scenarios.

## **2.33 Value Engineering – N/A**

## **2.34 Construction Cost Estimates**

The CONSULTANT shall develop construction cost estimates for each design alternative. The cost estimate is to be developed using the FDOT's long-range estimating (LRE) program or engineer's estimate.

## **2.35 Right-of-Way Cost Estimates**

LEE COUNTY is to prepare estimates of the cost for ROW acquisition, and cost estimates for relocations and business damages. The estimates will contain factors accepted and certified by the FDOT, District One.

## **2.36 Typical Section Package – N/A**

The CONSULTANT will identify typical sections, but a formal FDOT exception/variation request will not be prepared.

## **2.37 Design Exceptions and Variances**

The CONSULTANT will identify exceptions and variances, but a formal FDOT exception/variation request will not be prepared.

### **2.38 Preliminary Engineering Report (PER)**

The CONSULTANT shall prepare a First Draft PER documenting the Introduction (Section 2), Purpose and Need (Section 3), Existing Conditions (Section 4), Design Criteria (Section 5), Traffic (Section 6), Corridor Analysis (Section 7), and Alternatives Alignment Analysis (Section 8 including evaluation matrix) for public review at the Public Workshop.

The CONSULTANT shall prepare a Second Draft PER documenting the selection of the Preferred Alternative (Complete Section 8) for public review prior to and at the Public Hearing.

The CONSULTANT shall prepare a Final PER documenting the Recommendations and Commitments (Section 1) and Preliminary Design Analysis (Section 9).

### **2.39 Interchange Operational Analysis Report (IOAR)**

The CONSULTANT will prepare an IOAR in accordance with *The Interchange Handbook* (Second Edition: December 2002). This report will document the methodology used in developing the traffic demand. In addition, the report will document the following:

- Opening year, interim year and design year traffic volumes
- Proposed phasing or improvements
- Traffic operating conditions analysis with laneage and configuration proposed to be in place during each project phase
- Year the improvements are needed based on the operational standards if the phasing does not ensure adequate operational performance
- Phasing justification based on anticipated geometric and traffic operating conditions

## **3.0 ENVIRONMENTAL ANALYSIS AND REPORTS**

The CONSULTANT shall coordinate and perform the appropriate level of environmental analysis for this project as outlined in the PD&E Manual and the following sections.

The CONSULTANT shall utilize the Lee County GIS Department and Florida Geographic Data Library (FGDL), or other appropriate; database that includes all existing features. This data base information shall be compatible for use on base maps used for public hearing presentations, corridor maps, and alternative plans.

### **Social Impacts**

In accordance with Part 2, Chapter 9 of the PD&E Manual, unless otherwise noted.

- 3.1 Land Use Changes**
- 3.2 Community Cohesion**
- 3.3 Community Services**
- 3.4 Social and Economic Impacts**
- 3.5 Relocation Potential**

The CONSULTANT shall collect the data and perform the analysis necessary to complete a Conceptual Stage Relocation Plan for the proposed alternatives as outlined in the FDOT ROW Procedures Manual.

**3.6 Archaeological and Historical Sites**

The CONSULTANT shall collect data necessary to completely analyze the impacts to all cultural and historic resources by all proposed alternatives and prepare a Cultural Resource Assessment Request Package as described in Part 2, Chapter 12, of the PD&E Manual.

**3.7 Section 4(f)**

The CONSULTANT shall prepare a Section 4(f) Determination of Applicability in accordance with Part 2, Chapter 13 of the PD&E Manual. Should a Section 4(f) evaluation be necessary, the CONSULTANT will prepare a Section 4(f) Report.

**3.8 Visual Impacts and Aesthetics**

In accordance with Part 2, Chapter 15 of the PD&E Manual.

**3.9 Utilities and Railroads**

Based on the coordination with the utility companies along the project the CONSULTANT shall prepare a Utility Assessment Package as described in Part 2, Chapter 10 of the PD&E Manual. The CONSULTANT will also address impacts to existing and proposed railroads.

Natural Impacts

**3.10 Wetlands**

In accordance with Part 2, Chapter 18 of the PD&E Manual.

**3.11 Conceptual Mitigation Plans**

In accordance with Part 2, Chapter 18 of the PD&E Manual.

**3.12 Water Quality**

In accordance with Part 2, Chapter 20 of the PD&E Manual.

**3.13 Outstanding Florida Waters, Wild and Scenic Rivers, and Aquatic Preserves**

In accordance with Part 2, Chapters 19, 21, and 23, of the PD&E Manual, respectively.

**3.14 Floodplains**

In accordance with Part 2, Chapter 24 of the PD&E Manual.

**3.15 Coastal Barrier Resources – N/A**

There are no Coastal Barrier Resource Units as defined by the Governor's Executive Order 81-105 and the Federal Coastal Barrier Resource Act near the study area.

**3.16 Wildlife and Habitat**

In accordance with Part 2, Chapter 27 of the PD&E Manual.

**3.17 Essential Fish Habitat – N/A**

**3.18 Identify Permit Conditions**

The CONSULTANT shall identify permit conditions, and type of permits required. This task includes the review of maps and data in order to determine permit related information for the project.

**3.19 Farmlands**

In accordance with Part 2, Chapter 28 of the PD&E Manual.

Physical Impacts

**3.20 Noise**

In accordance with Part 2, Chapter 17 of the PD&E Manual.

**3.21 Air Quality**

In accordance with Part 2, Chapter 16 of the PD&E Manual.

**3.22 Construction Impact Analysis**

In accordance with Part 2, Chapter 30 of the PD&E Manual.

**3.23 Contamination**

The CONSULTANT shall perform the necessary analysis to complete the Contamination Screening Evaluation for all proposed alternatives and complete the Contamination Screening Evaluation Report as described in Part 2, Chapter 22, of the PD&E Manual.



## **Environmental Reports**

The Environmental Documents prepared by the CONSULTANT will comply with the procedures listed in the PD&E Manual, Part 1, and will also follow the format and include content described in Part 2 of the PD&E Manual. The task of documentation includes the preparation of draft and interim reports prepared by the CONSULTANT for review and comment upon by LEE COUNTY and FDOT prior to producing final reports and documents.

### **3.24 Class of Action Determination**

The CONSULTANT will prepare a Class of Action Determination (Form 650-040-02) as described in Part 1, Chapter 3 of the PD&E Manual. Once this is completed and the determination of document type has been determined by FHWA, the CONSULTANT will prepare the Environmental Document, as described below.

### **3.25 Environmental Assessment**

A Type II Categorical Exclusion (CE) is the expected level of environmental documentation required for this project. The CONSULTANT shall prepare a Type II CE as described in Part 1, Chapter 3 of the PD&E Manual. After the Type II CE is accepted by LEE COUNTY and the FDOT, it must be sent to FHWA with all the supporting documents for their review and comment. LEE COUNTY will be responsible for coordination with FDOT as necessary for processing the Class of Action and Type II CE through FHWA. All comments made by FHWA must be addressed by the CONSULTANT. Once the document has been signed by FHWA, the CONSULTANT will prepare a Notice of Availability.

### **3.26 Finding of No Significant Impact – N/A**

## **4.0 MISCELLANEOUS SERVICES**

### **4.1 Contract and Project Files**

Project Management efforts for complete setup and maintenance, developing monthly progress reports, schedule updates, work effort to develop and execute sub-consultant agreements etc. Progress reports shall be delivered to LEE COUNTY prior to or with submission of the corresponding invoice. Judgment on whether work of sufficient quality and quantity has been accomplished will be made by the Project Manager.

Within 10 days after the Notice to Proceed, the CONSULTANT shall provide a schedule of calendar deadlines.

### **4.2 Project Management Meetings and Coordination**

The CONSULTANT shall meet with LEE COUNTY as needed throughout the life of the project. It is anticipated 18 monthly progress meetings will be needed.



These meetings will include progress and miscellaneous review and other coordination activities with LEE COUNTY.

#### **4.3 Project Introductory Meeting**

Prior to beginning work, the CONSULTANT shall meet with LEE COUNTY; the purpose of this introductory meeting is three-fold:

- LEE COUNTY shall render all relevant information in its possession. This may include previous correspondence, environmental reports, ROW maps, wetlands maps, and contamination site locations.
- LEE COUNTY shall review with the CONSULTANT how the CONSULTANT will conduct the study process.
- LEE COUNTY shall review with the CONSULTANT the financial administration of the Contract, method of progress reporting and invoice preparation.

#### **4.4 Kickoff Letter**

Within 30 days of project initiation, a Kickoff (Introductory) Letter will be mailed by the CONSULTANT to the task force members and elected officials. The letter will describe the study intent and schedule and provide contact information for further information.

### **5.0 SURVEYING**

The CONSULTANT shall perform survey tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda.

The CONSULTANT shall submit all survey notes and computations to document the surveys. All field survey work shall be recorded in approved media and submitted to the COUNTY. Field books submitted to the COUNTY must be of an approved type. The field books shall be certified by the surveyor in responsible charge of work being performed before the final product is submitted.

The survey notes shall include documentation of decisions reached from meetings, telephone conversations or site visits. All like work (such as bench lines, reference points, etc.) shall be recorded contiguously. The CONSULTANT will survey section corners, platted subdivision lot and block corners, alignment control points, alignment control reference points and certified section corner references by true line, traverse, parallel offset, or Global Positioning System (GPS) measurements.

Survey data will be provided in LEE COUNTY required digital format and supplied to EOR for design purposes.

**5.1 Horizontal Project Network Control (HPNC)**

Establish or recover HPNC, for the purpose of establishing horizontal control on the Florida State Plane Coordinate System or datum approved by the COUNTY; may include primary or secondary control points. Includes analysis and processing of all field collected data, and preparation of forms.

**5.2 Vertical Project Network Control (VPNC)**

Establish or recover VPNC, for the purpose of establishing vertical control on datum approved by LEE COUNTY; may include primary or secondary vertical control points. Includes analysis and processing of all field collected data, and preparation of forms.

**5.3 Alignment and/or Existing Right-of-Way Lines**

Establish, recover or re-establish project alignment. Also includes analysis and processing of all field-collected data, existing maps, and/or reports for identifying mainline, ramp, offset, or secondary alignments. Depict alignment and existing ROW lines (in required format) per LEE COUNTY or FDOT ROW Maps, platted or dedicated rights of way; includes recovery of ROW monumentation sufficient to depict current existing ROW.

**5.4 Aerial Targets – N/A**

**5.5 Reference Points**

Recover, reset or establish reference points for alignment control points.

**5.6 Topography (2-D) – N/A**

**5.7 Digital Terrain Model (DTM) - N/A**

**5.8 Roadway Cross Sections/Profiles – N/A**

**5.9 Side Street Surveys – N/A**

**5.10 Underground Utilities – N/A**

**5.11 Outfall Survey – N/A**

**5.12 Drainage Survey – N/A**

**5.13 Bridge Survey – N/A**

**5.14 Channel Survey – N/A**

**5.15 Pond Site Survey – N/A**

**5.16 Mitigation Survey – N/A**

- 5.17 Jurisdiction Line Survey – N/A**
- 5.18 Geotechnical Support – N/A**
- 5.19 Sectional/Grant Survey – N/A**
- 5.20 Subdivision Location – N/A**
- 5.21 Maintained Right-of-Way – N/A**
- 5.22 Boundary Survey – N/A**
- 5.23 Water Boundary Survey – N/A**
- 5.24 Right-of-Way Staking – N/A**
- 5.25 Right-of-Way Monumentation – N/A**
- 5.26 Line Cutting – N/A**
- 5.27 Work Zone Safety**

Provide work zone as required by LEE COUNTY and FDOT standards.

- 5.28 Miscellaneous Surveys – N/A**
- 5.29 Supplemental Surveys – N/A**
- 5.30 Document Research**

Perform research of documentation to support field and office efforts involving surveying and mapping.

**5.31 Field Review**

Perform verification of the field conditions as related to the collected survey data.

**5.32 Technical Meetings**

Attend meetings as required and negotiated by the Surveying and Mapping Department.

**5.33 Quality Control/Quality Assurance**

Establish and implement a QAQC plan. Also includes sub consultant review, response to comments and any resolution meetings if required, preparation of submittals for review, etc.

### **5.34 Supervision**

Perform all activities required to supervise and coordinate project. These activities must be performed by the project supervisor, a Florida Professional Surveyor.

### **6.0 METHOD OF COMPENSATION**

Payment for the work accomplished will be in accordance with Exhibit B of this contract. Invoices shall be submitted to the LEE COUNTY, in a format prescribed by LEE COUNTY. The LEE COUNTY Project Manager and the CONSULTANT shall monitor the cumulative invoiced billings to insure the reasonableness of the billings compared to the project schedule and the work accomplished and accepted by LEE COUNTY.

### **7.0 SERVICES TO BE PERFORMED BY LEE COUNTY**

LEE COUNTY will provide those services and materials as set forth below:

- Assist the CONSULTANT for processing all reviews and coordination with the FDOT as necessary or required for FHWA approvals.
- Project data currently on file.
- All available information in the possession of LEE COUNTY pertaining to utility companies whose facilities may be affected by the proposed construction.
- All future information that is in possession or may come to LEE COUNTY pertaining to existing property lines and subdivision plans, etc.
- Existing as-Built plans and ROW maps.
- Any available crash data.
- Project aerial raster imagery.
  - CADD design files for Metro Parkway Queue Jump.

## **SCOPE OF SERVICES TASK 2**

### **CONSULTING ENGINEERING SERVICES TOLL FACILITY PLANNING AND EVALUATION**

Lee County has been studying proposals for tolling projects for several years and has been successfully operating several toll bridges. In conjunction with The Florida Department of Transportation (FDOT) and the Federal Highway Administration (FHWA), Lee County has pioneered one of the first variable pricing projects with an objective of spreading traffic during peak periods. As construction costs and urban congestion continuously increase, traditional transportation funding cannot keep pace. Lee County continues to examine innovative financing and alternative project delivery methods.

This Scope of Services has been prepared in response to the toll facility planning and evaluation needs of Lee County as discussed between PBS&J staff and representatives of the Lee County Public Works Department. Three specific areas of work have jointly identified which are described in the following sections. For the purposes of this Scope of Services, Lee County is referred to as the COUNTY and PBS&J as the CONSULTANT.

#### **TASK 2A: TOLL CONCEPT PACKAGE**

The CONSULTANT shall develop or aggregate existing information to develop a Toll Concept Package. The Toll Concept Package describes the policy issues related to toll collection for staff and possibly elected officials to approve, and provides the basis for a reasonable projection of costs.

The concept package will address issues such as:

- How tolls are assessed
- What the toll system must be able to accomplish
- Accepted methods of payment
- Business rules
- Basic system architecture
- Essentials of operations architecture

The Toll Concept Package will be the basis for Tasks B2 through B5 and provide a framework to support COUNTY toll expansion.

#### **TASK 2B: REVIEW OF EXISTING TOLLING STUDIES**

The CONSULTANT will review existing toll studies completed on behalf of the COUNTY and document these reviews with clear and concise conclusions and, if necessary, recommendations for modifications or additional work that may include

additional revenue forecasts, cost/feasibility evaluations, financing options, and project definitions (i.e. phasing). These reviews will address all aspects of the existing studies including, but not limited to:

- Validation of the travel demand models used
- Key assumptions related to the demand forecasts
- Tolling parameters and toll collection schemes
- Toll elasticity and toll diversion models

This task includes a review of the recent sub-area model validation for the Colonial Boulevard PD&E Study to assess the financial capacity of the facility. This review will include an analysis of the corridor from the perspective of what configuration generates the best financial scenario including affordability, phasing toll collection options, and increasing bridge tolls to support the proposed project. In addition, this task includes an evaluation of additional tolling of the existing facility and proposed Colonial Boulevard improvements east of I-75.

#### **Product(s)**

1. Technical memoranda summarizing each of the toll studies reviewed including findings and recommendations.
2. A brief report on the Colonial Project including findings, and recommendations supported by graphics and tabular data as necessary. Recommendations would include free lane configuration, tolled lane configuration, ramp locations, and toll locations.

#### **TASK 2C: EVALUATION OF THE DISCOUNT PROGRAM**

The CONSULTANT will collect the COUNTY's existing traffic and revenue data for the toll discount program including existing studies and reports. In addition, state and federal funding agreements will be reviewed as input to this evaluation.

Using the data collected, the CONSULTANT will assess the effectiveness of the program by examining traffic and revenue both with and without the discount. This evaluation will also examine the operational consequences of each case and the institutional issues that may be part of the existing state and federal funding agreements. This task will project increased revenues available as a result of eliminating the discount program. If increased revenues are identified, they will be incorporated into Task 2.

**Product(s)**

1. A brief report on the evaluation of the discount program including findings, conclusions, and recommendations. In the event that additional data collection and evaluations are needed, these will be identified in this report.

**TASK 2D: REVIEW OF LEGAL / INSTITUTIONAL ISSUES**

The CONSULTANT will review and examine legislation and precedents for tolling existing facilities, capacity expansion projects, and new facilities. This examination will include federal, state, and local government requirements.

**Products**

1. A presentation of results of the review using PowerPoint, or other relevant presentation methods.
2. A brief technical memorandum summarizing the results of the legal/institutional review.

**TASK 2E: TOLL FEASIBILITY EVALUATION OF EXISTING AND PLANNED CORRIDORS**

The CONSULTANT will evaluate the feasibility of tolling identified existing and planned corridors within Lee County using the new CUBE Voyager Bi-County model if it has been approved by FDOT and the COUNTY. If the new CUBE Voyager model is not ready for use, then the existing FSUTMS model based on TRANPLAN will be used. A methodology meeting with the COUNTY will be held to discuss our recommended modeling approach

**Task 2E(a)**

The following arterial corridors may be evaluated on a system wide basis to identify the initial tolling candidates. We anticipate that the result of this analysis will be tolling scenarios consisting of groupings of facilities to be tested for tolling. A workshop with the COUNTY should be conducted at the end of this task to finalize the groupings of facilities to be tested.

INITIAL TOLLING CANDIDATES			
	STREET	FROM	TO
1	Alico Road	South Tamiami Trail	Lee Road
	Alico Road	Lee Road	Three Oaks Parkway
	Alico Road	Three Oaks	I-75
	Alico Road	I-75	Treeline Avenue (Ben Hill Griffin Parkway)
	Alico Road	Ben Hill Griffin Parkway (Treeline Avenue)	Corkscrew Road
2	Bayshore Road	Business 41	Hart Road
	Bayshore Road	Hart Road	Slater Road
	Bayshore Road	Slater Road	Williams Road
	Bayshore Road	Williams Road	Williamsburg Drive
	Bayshore Road	Williamsburg Drive	I-75
	Bayshore Road	I-75	Leetana Road
	Bayshore Road	Leetana Road	Nalle Road
	Bayshore Road	Nalle Road	SR 31
3	Ben Hill Griffin Parkway	Corkscrew Road	Alico Road
4	Buckingham Road	SR 82	Alvin Avenue
	Buckingham Road	Alvin Avenue	Orange River Road
	Buckingham Road	Orange River Road	Orange River Boulevard
	Buckingham Road	Orange River Boulevard	Palm Beach Boulevard
5	Burnt Store Road	Pine Island Road	Embers Parkway
	Burnt Store Road	Embers Parkway	Tropicana Parkway



INITIAL TOLLING CANDIDATES			
	STREET	FROM	TO
	Burnt Store Road	Tropicana Parkway	Yucatan Parkway
	Burnt Store Road	Yucatan Parkway	Diplomat Parkway
	Burnt Store Road	Diplomat Parkway	Gulfstream Parkway
	Burnt Store Road	Gulfstream Parkway	Van Buren Parkway
	Burnt Store Road	Van Buren Parkway	Kismet Parkway
	Burnt Store Road	Kismet Parkway	Caloosa Parkway
	Burnt Store Road	Caloosa Parkway	Charlotte County Line
6	College Parkway	McGregor Boulevard	Winkler Road
	College Parkway	Winkler Road	Whiskey Creek Drive
	College Parkway	Whiskey Creek Drive	Summerlin Road
	College Parkway	Summerlin Road	Cleveland Avenue
7	Corkscrew Road	South Tamiami Trail	Three Oaks Parkway
	Corkscrew Road	Three Oaks Parkway	I-75
	Corkscrew Road	I-75	Ben Hill Griffin Parkway
	Corkscrew Road	Ben Hill Griffin Parkway	Wildcat Run Drive
	Corkscrew Road	Wildcat Run Drive	Alico Road
	Corkscrew Road	Alico Road	Katydid Lane
8	Daniels Parkway	Cleveland Avenue	Metro Parkway
	Daniels Parkway	Metro Parkway	Six Mile Cypress Parkway
	Daniels Parkway	Six Mile Cypress Parkway	Eagle Ridge Drive
	Daniels Parkway	Eagle Ridge Drive	Fiddlesticks Boulevard
	Daniels Parkway	Fiddlesticks Boulevard	I-75

<b>INITIAL TOLLING CANDIDATES</b>			
	<b>STREET</b>	<b>FROM</b>	<b>TO</b>
	Daniels Parkway	I-75	Treeline Avenue
	Daniels Parkway	Treeline Avenue	Chamberlin Parkway
	Daniels Parkway	Chamberlin Parkway	Commonwealth Drive
	Daniels Parkway	Commonwealth Drive	SR 82
9	Fowler Street	South Cleveland Avenue	Fowler Street
	Fowler Street	Fowler Street	North Airport Road
	Fowler Street	North Airport Road	Colonial Boulevard
	Fowler Street	Colonial Boulevard	Winkler Avenue Ext
	Fowler Street	Winkler Avenue	Hanson Street
	Fowler Street	Hanson Street	Dr MLK Boulevard/SR 82
	Fowler Street	Dr MLK Boulevard/SR 82	First Street
10	Gladiolus Drive	San Carlos Boulevard	Pine Ridge Road
	Gladiolus Drive	Pine Ridge Road	A & W Bulb Road
	Gladiolus Drive	A & W Bulb Road	Bass Road
	Gladiolus Drive	Bass Road	Winkler Road
	Gladiolus Drive	Winkler Road	Lakewood Boulevard
	Gladiolus Drive	Lakewood Boulevard	Summerlin Road
	Gladiolus Drive	Summerlin Road	Tamiami Trail
11	Gunnery Road South	SR 82	23rd Street Southwest
	Gunnery Road North	23rd Street Southwest	Lee Boulevard
	Gunnery Road North	Lee Boulevard	Buckingham Road
12	Hancock Bridge Parkway	Del Prado Boulevard	Southeast 24 <sup>th</sup> Avenue

INITIAL TOLLING CANDIDATES			
	STREET	FROM	TO
	Hancock Bridge Parkway	Southeast 24th Avenue	Orange Grove Boulevard
	Hancock Bridge Parkway	Orange Grove Boulevard	Moody Road

	Hancock Bridge Parkway	Moody Road	Palm Avenue
	Hancock Bridge Parkway	Palm Avenue	North Cleveland Avenue
13	Homestead Road South	SR 82	Nimitz Boulevard
	Homestead Road South	Nimitz Boulevard	Jaguar Boulevard
	Homestead Road South	Jaguar Boulevard	Parkdale Boulevard
	Homestead Road South	Parkdale Boulevard	Milwaukee Boulevard
	Homestead Road South	Milwaukee Boulevard	Alabama Road
14	Homestead Road North	Alabama Road	Beth Stacey Boulevard
	Homestead Road North	Beth Stacey Boulevard	Lee Boulevard
15	Joel Boulevard	Leeland Heights Boulevard	23rd Street East
	Joel Boulevard	23rd Street East	SR 80
16	Lee Boulevard	SR 82	Leonaroad Boulevard
	Lee Boulevard	Leonaroad Boulevard	Gunnery Road
	Lee Boulevard	Gunnery Road	Sunshine Boulevard
	Lee Boulevard	Sunshine Boulevard	Homestead Road
	Lee Boulevard	Homestead Road	Williams Avenue
	Lee Boulevard	Williams Avenue	Delaware Road
	Lee Boulevard	Delaware Road	Leeland Heights Boulevard
17	Ortiz Avenue	Colonial Boulevard	SR 82

INITIAL TOLLING CANDIDATES			
	STREET	FROM	TO
	Ortiz Avenue	SR 82	Ballaroad Street
	Ortiz Avenue	Ballaroad Street	Tice Street
	Ortiz Avenue	Tice Street	SR 80
18	Plantation Road	Six Mile Cypress Parkway	Daniels Parkway
	Plantation Road	Daniels Parkway	Idlewild Street
	Plantation Road	Idlewild Street	Abbott Street
19	Pondella Road	Pine Island Road	Orange Grove Boulevard
	Pondella Road	Orange Grove Boulevard	Moody Road
	Pondella Road	Moody Road	Betmar Boulevard
	Pondella Road	Betmar Boulevard	Palm Avenue
	Pondella Road	Palm Avenue	North Cleveland Avenue (US 41)
	Pondella Road	US 41	Business 41
20	Six Mile Cypress Parkway	Metro Parkway	Daniels Parkway
	Six Mile Cypress Parkway	Daniels Parkway	Winkler Extension
	Six Mile Cypress Parkway	Winkler Extension	Challenger Boulevard
	Six Mile Cypress Parkway	Challenger Boulevard	Colonial Boulevard
21	Summerlin Road	McGregor Boulevard	John Morris Road
	Summerlin Road	John Morris Road	Kelly Cove Drive
	Summerlin Road	Kelly Cove Drive	San Carlos Boulevard
	Summerlin Road	San Carlos Boulevard	Pine Ridge Road
	Summerlin Road	Pine Ridge Road	Bass Road

<b>INITIAL TOLLING CANDIDATES</b>			
	<b>STREET</b>	<b>FROM</b>	<b>TO</b>
	Summerlin Road	Bass Road	Winkler Road
	Summerlin Road	Winkler Road	Gladiolus Drive
	Summerlin Road	Gladiolus Drive	Cypress Lake Drive
	Summerlin Road	Cypress Lake Drive	College Parkway
	Summerlin Road	College Parkway	Brantley Road
	Summerlin Road	Brantley Road	Park Meadows Drive
	Summerlin Road	Park Meadows Drive	Boy Scout Drive
	Summerlin Road	Colonial Boulevard	Boy Scout Drive
22	Three Oaks Parkway	Coconut Road	Corkscrew Road
	Three Oaks Parkway	Corkscrew Road	San Carlos Boulevard
	Three Oaks Parkway	San Carlos Boulevard	Alico Road
23	Treeline Avenue	Daniels Parkway	EOP
24	Treeline Avenue South	Alico Road	Daniels Road
25	Veterans Parkway	Southwest Pine Island Road	Surfside Boulevard
	Veterans Parkway	Surfside Boulevard	Chiquita Boulevard
	Veterans Parkway	Chiquita Boulevard	Skyline Boulevard
	Veterans Parkway	Skyline Boulevard	Santa Barbara Boulevard
	Veterans Parkway	Santa Barbara Boulevard	Country Club Boulevard
	Veterans Parkway	Country Club Boulevard	Del Prado Boulevard
	Veterans Parkway	Del Prado Boulevard	Toll Plaza
	Veterans Parkway	Toll Plaza	Cape Coral Shoreline

### **Task 2E(b)**

Modeling and evaluation of combinations of corridors, approved by the COUNTY, to determine what groupings will be the most toll feasible. It is anticipated no more than five model runs of combinations will be conducted, each run including up to five intersections/interchanges. A workshop with the COUNTY will be conducted to present the findings of the analysis.

### **Task 2E(c)**

This portion of Task 2E will consist of preparing a Summary Report documenting the findings of the analyses.

## **OPTIONAL TASK 2F: COLONIAL BOULEVARD FOCUS GROUP**

### **Focus Groups**

A series of focus groups in conjunction with the feasibility study may be held as apart of Task B5. If held, the focus groups would occur after task B5(a) completion.

The focus groups will be held in various locations to facilitate public participation from the entire region. A total of five focus groups are recommended. Four focus groups will be held with members of the general public. Locations for focus groups will be sought to serve populations in Cape Coral, Lehigh Acres/eastern Lee County, Fort Myers, Bonita Springs/southern Lee County and North Fort Myers. Locations that two or more areas can easily access will be sought. One focus group will be held for representatives of businesses.

Focus groups would probe public attitudes regarding tolling to finance needed road construction, facilities to be tolled, toll rates and methods of collection, and opinions on other financing mechanisms.

CRSPE, Inc. would recruit focus group participants by telephone in a manner to develop a random sample of participants. Participants will, however, be assigned to the focus groups held in the geographic area most convenient for the participant. Participants will be screened for eligibility. The screening criteria used by CRSPE will be reviewed with COUNTY and CONSULTANT staff as requested. Up to 12 participants will be recruited for each focus group session with the goal of obtaining a minimum of six participants in any given session. An honorarium of \$25 for each participant in the focus groups for members of the public and \$50 for each participant in the business focus groups will be provided by CRSPE. Additionally, snacks and beverages for participants will also be provided by CRSPE. This is in keeping with standard focus group practice in Southwest Florida.

CRSPE will develop focus group questions and provide an experienced facilitator for the focus groups. Additionally, CRSPE will capture participant comments in a computerized

format, which provides instant feedback to focus group participants as well as a foundation for reporting the focus group results. CRSPE will videotape each focus group session (up to three static camera angles) and provide to the COUNTY, in DVD format, the video of the focus groups (each in their entirety) as captured by the primary camera. Up to five DVD copies of each focus group will be provided.

One video camera (the primary camera) in each focus group will be wirelessly connected to a television in a nearby room. This will allow representatives from the COUNTY and/or the CONSULTANT team to view the focus groups in real time. Approximately 15 minutes before the end of each focus group, the facilitator will call a break and check with COUNTY and/or CONSULTANT team staff viewing the focus group to determine if there are any additional areas, they would like to probe with the focus group then occurring. It should be noted that the use of the wireless video allows focus groups to be conducted in facilities that are not specifically developed for focus group use. Experience has shown that participants are not likely to be inhibited by the video, and possibly less inhibited than they are by the presence of a more traditional one-way mirror.

CRSPE will produce a written summary of focus group findings in addition to the video summary discussed above. CRSPE staff will also be available to meet with the COUNTY or the CONSULTANT team to discuss the results of the focus groups.

As an optional task, CRSPE will also provide a combined video executive summary in DVD format of the focus groups that highlights recurring themes from the focus groups. Up to five (5) DVD copies of the summary will be provided.

For purposes of preparing the fee associated with this task, it has been assumed that public facilities will be available to CRSPE at no cost for each focus group. It is also assumed that any graphics used in the focus groups to explain project concepts to participants will be developed by other members of the project team. The fee for Optional Services is not included with this Scope of Services.

CHANGE ORDER AGREEMENT No. 5  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_

EXHIBIT "CO/STA-B"

Date: October 27, 2006

COMPENSATION AND METHOD OF PAYMENT

for

COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of I-75

SECTION 1.00 CHANGE(S) IN COMPENSATION

The compensation the CONSULTANT, or SERVICE PROVIDER, shall be entitled to receive for providing and performing the supplemented, changed or authorized services, tasks, or work as set forth and enumerated in the Scope of Services set forth in this CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto shall be as follows:

NOTE: A Lump Sum (L.S.) or Not-to-Exceed (N.T.E.) amount of compensation to be paid the CONSULTANT should be established and set forth below for each task or sub-task described and authorized in Exhibit "CO/STA-A". In accordance with Professional Services Agreement Article 5.03(2) "Method of Payment", tasks to be paid on a Work-in-Progress payment basis should be identified (WIPP).

Task Number	Task Title	Amount of Compensation	Indicate Basis of Compensation LS or NTE	If Applicable Indicate (W.I.P.P.)
1	Extend PD&E – PBS&J	\$957,752	NTE	
1	Extend PD&E – ACI	\$3,555	NTE	
1	Extend PD&E – Cella, Molnar & Associates, Inc.	\$4,837	NTE	
1	Extend PD&E – CRSPE, Inc.	\$89,915	NTE	
1	Extend PD&E – F.R. Aleman, Inc.	\$14,560	LS	
1	Extend PD&E – Tierra	\$25,673	NTE	
2	Toll Facility Planning Eval. – PBS&J	\$280,735	NTE	
2	Toll Facility Planning Eval. – CRSPE	\$25,000	NTE	
2	Toll Facility Planning Eval. – F.R. Aleman	\$28,220	LS	
<b>TOTAL</b>		<b>\$1,430,247</b>	<b>NTE</b>	

(Unless list is continued on next page)



CHANGE ORDER AGREEMENT No. 5  
 or  
 SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_\_

**SECTION 2.00 SUMMARY OF CHANGE(S) IN COMPENSATION**

Pursuant to and in consideration of the change(s) in the Scope of Professional Services set forth in the CHANGE ORDER or AGREEMENT, Exhibit "CO/STA-A", the compensation the COUNTY has previously agreed to pay to the CONSULTANT, or SERVICE PROVIDER, as set forth in Exhibit "B" of the Professional Services Agreement, or Service Provider Agreement, shall be changed to be as follows:

Section/Task Number	Section/Task Name	Compensation In the Basic Agreement	Adjustment(s) by Previous CO or STA No. 1	Adjustment(s) Due to this CO or STA	Summary of Changed Compensation
<b>Phase I</b>	<b>Project Traffic Development</b>				
Task 1	Preliminary Matters	\$37,593	\$2,660	\$0	\$40,253
Task 2	Public & Agency Coordination	\$39,005	\$17,075	\$0	\$56,080
Task 3	Existing Traffic Highway Conditions	\$28,853	\$11,184	\$0	\$40,037
Task 4	Express Corridor Evaluation	\$53,442	\$0	\$0	\$53,442
Task 5	Travel Demand Forecast	\$45,772	\$18,600	\$0	\$64,372
Task 6	Develop Design Traffic	\$16,115	\$4,479	\$0	\$20,594
Task 7	Identification of Needs	\$48,363	\$16,705	\$0	\$65,068
Task 8	Project Traffic Report/QC	\$42,376	\$12,517	\$0	\$54,893
<b>Phase II</b>	<b>Conceptual Alternatives Analyses</b>				
Task 1	Preliminary Matters	\$69,145	\$1,783	\$0	\$70,928
Task 2	Public & Agency Coordination	\$119,058	\$51,319	\$0	\$170,377
Task 3	Develop Design Hour Volumes	\$16,741	\$7,376	\$0	\$24,117
Task 4	Express Corridor Evaluation	\$29,628	\$0	\$0	\$29,628
Task 5	Future Traffic Conditions	\$45,533	\$21,072	\$0	\$66,605
Task 6	Environmental Analyses	\$37,593	\$23,709	\$0	\$61,302
Task 7	Engineering Analyses	\$75,080	\$34,036	\$0	\$109,116
Task 8	Concept Alt Analyses Report/QC	\$76,469	\$32,478	\$0	\$108,947
<b>Phase III</b>	<b>PD&amp;E Study</b>				
Task 1	Public Inv – PBS&J	\$0	\$82,036	\$0	\$82,036
Task 1	Public Inv – Cella & Assoc.	\$0	\$129,197	\$0	\$129,197
Task 2	Engineering – PBS&J	\$0	\$450,708	\$0	\$450,708
Task 2	Eng./Traffic Count – FR Aleman	\$0	\$8,920	\$0	\$8,920
Task 2	Engineering/Geotech – Tierra	\$0	\$16,968	\$0	\$16,968
Task 3	Env Analysis –PBS&J	\$0	\$217,690	\$0	\$217,690
Task 3	Env Analysis/Cultural - ACI	\$0	\$12,739	\$0	\$12,739
Task 4	Miscellaneous – PBS&J	\$0	\$59,807	\$0	\$59,807
Task 5	Surveying – PBS&J	\$0	\$55,671	\$0	\$55,671
Task 6	Expenses – PBS&J	\$0	\$18,442	\$0	\$18,442
Task 7	Traffic Counts – FR Aleman	\$0	\$18,260	\$0	\$18,260
Task 7	Traffic Counts – Crossroads	\$0	\$7,200	\$0	\$7,200
<b>Phase IV</b>	<b>Extend PD&amp;E Study to I-75</b>				
Task 1	Extend PD&E – PBS&J	\$0	\$0	\$957,752	\$957,752
Task 1	Extend PD&E – ACI	\$0	\$0	\$3,555	\$3,555
Task 1	Extend PD&E – Cella, Molnar Ass.	\$0	\$0	\$4,837	\$4,837
Task 1	Extend PD&E – CRSPE, Inc.	\$0	\$0	\$89,915	\$89,915
Task 1	Extend PD&E – F.R. Aleman, Inc.	\$0	\$0	\$14,560	\$14,560
Task 1	Extend PD&E – Tierra	\$0	\$0	\$25,673	\$25,673
Task 2	Toll Facility Planning Eval. – PBS&J	\$0	\$0	\$280,735	\$280,735
Task 2	Toll Facility Planning Eval. – CRSPE	\$0	\$0	\$25,000	\$25,000
Task 2	Toll Facility Planning - FRAleman	\$0	\$0	\$28,220	\$28,220
<b>TOTAL</b>		<b>\$780,766</b>	<b>\$2,113,397</b>	<b>\$1,430,247</b>	<b>\$3,543,644</b>

CONSULTANT'S PERSONNEL HOURLY RATE SCHEDULE \*\*\*

for

COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of I-75

PBS&amp;J

(A separate Attachment No. 1 should be included for each Sub-Consultant)

(1) Project Position or Classification (Function to be Performed)	(2) Current Direct* Payroll Average Hourly Rate	(3) Multiplier**	(4) Hourly Rate To Be Charged (Column 2x3)
Sr. Toll Consultant	\$67.31	2.95	\$198.56
Toll Consultant	\$52.89	2.95	\$156.03
Program Manager	\$50.48	2.95	\$148.92
Sr. Transportation Planner	\$37.98	2.95	\$112.04

\*NOTE: Direct Payroll hourly rate means the actual gross hourly wage paid.

\*\*NOTE: Indicate applicable multiplier for indirect personnel costs, general administrative and overhead costs, and profit.

\*\*\*NOTE: A separate personnel hourly rate schedule should also be attached for each Sub-Consultant listed in Exhibit "D".

CMO:033  
09/25/01

CONSULTANT'S PERSONNEL HOURLY RATE SCHEDULE \*\*\*

for

COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of I-75

CRSPE, Inc.

(A separate Attachment No. 1 should be included for each Sub-Consultant)

(1) Project Position or Classification (Function to be Performed)	(2) Current Direct* Payroll Average Hourly Rate	(3) Multiplier**	(4) Hourly Rate To Be Charged (Column 2x3)
Senior Professional	\$48.08	3.12	\$150.00
Senior Planner	\$31.03	2.90	\$ 90.00
Technician/Office Manager	\$14.00	3.00	\$ 42.00

\*NOTE: Direct Payroll hourly rate means the actual gross hourly wage paid.

\*\*NOTE: Indicate applicable multiplier for indirect personnel costs, general administrative and overhead costs, and profit.

\*\*\*NOTE: A separate personnel hourly rate schedule should also be attached for each Sub-Consultant listed in Exhibit "D".

CMO:033  
09/25/01

CONSULTANT'S PERSONNEL HOURLY RATE SCHEDULE \*\*\*

for

COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of Metro Pkwy.

F.R. Aleman, Inc.

(A separate Attachment No. 1 should be included for each Sub-Consultant)

(1) Project Position or Classification (Function to be Performed)	(2) Current Direct* Payroll Average Hourly Rate	(3) Multiplier**	(4) Rate To Be Charged (Column 2x3)
4-hour turning movement counts (per intersection)			\$600.00
24-hour approach counts (per intersection)			\$420.00
72-hour bi-directional counts (per count)			\$380.00
Travel Time Study Run (per 18 runs)			\$467.78
4-hour Intersection Turning Movement Count and Maximum Queue Estimate (per 20 intersections)			\$990.00

\*NOTE: Direct Payroll hourly rate means the actual gross hourly wage paid.

\*\*NOTE: Indicate applicable multiplier for indirect personnel costs, general administrative and overhead costs, and profit.

\*\*\*NOTE: A separate personnel hourly rate schedule should also be attached for each Sub-Consultant listed in Exhibit "D".

CHANGE ORDER AGREEMENT No. 5  
 SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_\_

EXHIBIT "CO/STA-C"

Date: October 27, 2006

TIME AND SCHEDULE OF PERFORMANCE

for COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of I-75

SECTION 1.00 CHANGES FOR THIS CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT

The time and schedule of completion for the various phases or tasks required to provide and perform the services, tasks, or work set forth in this CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", entitled "Scope of Professional Services" attached hereto is as follows:

Phase and/or Task Reference as Enumerated in EXHIBIT "A"	Name or Title of Phase and/or Task	Number of Calendar Days For Completion of Each Phase and/or Task	Cumulative Number of Calendar Days For Completion from Date of Notice to Proceed For this CO or STA
<b>Phase III</b>	<b>PD&amp;E Study</b>		
All Tasks	All Tasks	540 (18 mos)	540

CMO:027  
09/25/01

CHANGE ORDER AGREEMENT No. 5  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_\_

EXHIBIT "CO/STA-C"

Date: October 27, 2006

TIME AND SCHEDULE OF PERFORMANCE

for BURNT STORE ROAD – VETERANS PARKWAY – COLONIAL BOULEVARD

**SECTION 2.00 SUMMARY OF THE IMPACT OF CHANGE(S) IN PROFESSIONAL SERVICES ON THE OVERALL PROJECT TIME AND SCHEDULE OF PERFORMANCE**

Pursuant to and in consideration of the changes in the Scope of Professional Services in this CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", the time and schedule the COUNTY and the CONSULTANT, or SERVICE PROVIDER, has previously agreed to for all of the work to be done under this Professional Services Agreement, or Service Provider Agreement, shall be changed to be as follows:

<b>Phase and/or Task Reference as Enumerated in EXHIBIT "A" and EXHIBIT "CO/STA-A"</b>	<b>Name or Title of Phase and/or Task</b>	<b>Number of Calendar Days For Completion of Each Phase and/or Task</b>	<b>Cumulative Number of Calendar Days For Completion From Date of Notice to Proceed</b>
<b>Phase III</b>	<b>PD&amp;E Study</b>		
All Tasks	All Tasks	540 (18 mos)	540

CHANGE ORDER AGREEMENT No. 5  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_\_

EXHIBIT "CO/STA-D"

Date: October 27, 2006

CONSULTANT'S, OR SERVICE PROVIDER'S, ASSOCIATED SUB-CONSULTANT(S) AND SUBCONTRACTOR(S)

for COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of I-75

CONSULTANT, or SERVICE PROVIDER, intends to engage the following sub-consultant(s) and/or sub-contractor(s) to assist the CONSULTANT, or SERVICE PROVIDER, in providing and performing the services, tasks, or work required under this CHANGE ORDER, or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT.

(If none, enter the word "none" in the space below.)

Service and/or Work to be Provided or Performed	Name and Address of Individual or Firm	Disadvantaged, Minority or Women Business Enterprise, (If Yes, Indicate Type)			Sub-Consultant Services are Exempted from Prime Consultant's Insurance Coverage	
		Yes	No	Type	Yes	No
NONE						

CHANGE ORDER AGREEMENT No. 5

or

SUPPLEMENTAL TASK AUTHORIZATION No. \_\_\_\_\_

EXHIBIT "CO/STA-E"

Date: October 27, 2006

PROJECT GUIDELINES AND CRITERIA

for COLONIAL BOULEVARD PD&E STUDY – West of McGregor Blvd. to East of I-75

As a supplement, or change, to the Project Guidelines and Criteria set forth in the Professional Services Agreement, or Service Provider Agreement, Exhibit "E", the COUNTY has established the following Guidelines, Criteria, Goals, Objectives, Constraints, Schedule, Budget, and/or Requirements which shall serve as a guide to the CONSULTANT, or SERVICE PROVIDER, in performing the professional services, tasks, or work to be provided pursuant to the professional services set forth hereinbefore in CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto:

(If none, enter the word "None" in the space below.)

ITEM No. 1

None