

Lee County Board Of County Commissioners

Agenda Item Summary

Blue Sheet No. 20031329

1. REQUESTED MOTION:

ACTION REQUESTED: Approve Change Order No. 2 to Contract No. 1983, with Pitman-Hartenstein & Associates, Inc. in the amount of \$567,574.29 for surveying and design services for widening of Bonita Beach Road from four to six lanes beginning east of Lime St., proceeding approximately 4,800 feet west to Old US 41. Also, approve transfer from Reserves in the amount of \$750,000.00.

WHY ACTION IS NECESSARY: Board approval required.

WHAT ACTION ACCOMPLISHES: Provides surveying and design services for the widening of a portion of Bonita Beach Road from four to six lanes. The proposed project will begin east of Lime St., and proceed approximately 4,800 feet west to Old US 41.

2. DEPARTMENTAL CATEGORY:

2. Transportation

COMMISSION DISTRICT #: 3

*C9C*

3. MEETING DATE:

*12-02-2003*

4. AGENDA:

- CONSENT
- ADMINISTRATIVE
- APPEALS
- PUBLIC
- WALK ON
- TIME REQUIRED:

5. REQUIREMENT/PURPOSE:  
(Specify)

- STATUTE
- ORDINANCE
- ADMIN. CODE
- OTHER

6. REQUESTOR OF INFORMATION:

- A. COMMISSIONER
- B. DEPARTMENT Transportation
- C. DIVISION
- BY: Scott Gilbertson, Director

7. BACKGROUND:

Approval is required for this Change Order (CO) No. 2 under CN-01-16, Bonita Beach Rd. Six Laning from I-75 to Imperial, for \$567,574.29 to Pitman-Hartenstein & Associates, Inc.

This CO will provide a Consultant for surveying and design services for widening of Bonita Beach Road beginning east of Lime St. (where the County's existing project ends), and proceeding approximately 4,800 feet west to Old US 41. This segment of Bonita Beach Road was identified in the 2003 Concurrency Management Report prepared by Lee County Department of Community Development as projected to fail to meet required level of service standards in the near future, which could affect development permitting for the City of Bonita Springs. Although funds have not yet been identified for the right-of-way and construction phases for this segment, completion of the design phase using our existing consultant will help make it production-ready should funds become available.

Funds will be available from account string: 20404418808.506510

Attachments: 1. CO #2 for execution.

8. MANAGEMENT RECOMMENDATIONS:

9. RECOMMENDED APPROVAL:

A Department Director	B Purchasing or Contracts	C Human Resources	D Other	E County Attorney	F Budget Services			G County Manager
					OA	OM	Risk	GC
<i>11/13/03</i>	<i>[Signature]</i>	<i>N/A</i>	<i>560</i> <i>11/14/03</i>	<i>[Signature]</i>	<i>11/13/03</i>	<i>11/18/03</i>	<i>11/18/03</i>	<i>11/19-03</i>
								<i>[Signature]</i> <i>11-14-03</i>

10. COMMISSION ACTION:

- APPROVED
- DENIED
- DEFERRED
- OTHER

Rec. by CoAtty  
Date: *11/17/03*  
Time: *3:05*  
Forwarded To:  
*[Signature]*  
*11/17/03 4:03*

RECEIVED BY  
COUNTY ADMIN: *[Signature]*  
*11-17-03*  
*4:30*  
COUNTY ADMIN  
FORWARDED TO:  
*[Signature]*



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

Change Order  
 Supplemental Task Authorization

NO: 2

(A Change Order or Supplemental Task Authorization Requires Approval by the Department Director for Expenditures Under \$25,000 or Approval by the County Manager for Expenditures Between \$25,000 and \$50,000 or Approval by the Board of County Commissioners for Expenditures over \$50,000)

CONTRACT/PROJECT NAME: Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street

CONSULTANT: Pitman-Hartenstein & Assoc., Inc.

PROJECT NO.: 4044

SOLICIT NO.: CN-01-16 CN NO.: 1983

ACCOUNT NO. 20404418808.50570

REQUESTED BY: DOT

DATE OF REQUEST: 9/24/03

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: 9/24/03

EXHIBIT "CO/STA -B": COMPENSATION & METHOD OF PAYMENT: DATED: 9/24/03

EXHIBIT "CO/STA -C": TIME AND SCHEDULE OF PERFORMANCE: DATED: 9/24/03

EXHIBIT "CO/STA -D": CONSULTANT'S/PROVIDERS ASSOCIATED  
SUB-CONSULTANT(S)/SUB-CONTRACTORS: DATED: 9/24/03

EXHIBIT "CO/STA -E": PROJECT GUIDELINES AND CRITERIA: DATED: 9/24/03

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

RECOMMEND:  
By: [Signature] 11/19/03  
Date  
Department Director

ACCEPTED:  
By: [Signature]  
Date Accepted: 9-25-03  
Consultant/Provider  
Alan Hartenstein  
Executive Vice President

APPROVED:  
By: \_\_\_\_\_  
Date Approved: \_\_\_\_\_  
Department Director  
(Under \$25,000)

By: [Signature] 11/14/03  
Date  
Contracts Mgmt

By: \_\_\_\_\_  
Date Approved: \_\_\_\_\_  
County Manager (Between  
\$25,000 and Under \$50,000)

APPROVED: Corporate Seal

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

By: \_\_\_\_\_  
Date Approved: \_\_\_\_\_  
Chairman  
Board of County Commissioners

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

CHANGE ORDER AGREEMENT No. 2  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No.

EXHIBIT "CO/STA-A"

Date: 9/24/03

SCOPE OF PROFESSIONAL SERVICES

for **Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street - C.O. #2**

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:

**See attached Scope of Services.**

\* Attach additional pages, if needed

Date: 9/19/2003**SCOPE OF PROFESSIONAL SERVICES****for BONITA BEACH ROAD SIX-LANING FROM Old US 41 to Lime Street****BASIC SERVICES****Section 1. GENERAL SCOPE STATEMENT**

The Consultant shall provide and perform the following professional services, which shall constitute the GENERAL SCOPE of the BASIC SERVICES under the covenants, terms and provisions of this PROFESSIONAL SERVICES AGREEMENT.

The CONSULTANT shall conduct surveys, development design alternatives, prepare an environmental impact summary, develop traffic data, prepare right of way maps, final plans and specifications, coordinate all utility system adjustments, prepare cost opinions, bid documents, contract documents, prepare government permit applications which may be required from the U.S. Army Corp. of Engineers, the South Florida Water Management District and Lee County Department of Community Development (Development Order) for the following roadway project:

The Scope of this project will encompass the widening of Bonita Beach Road from existing four lanes to six lanes beginning at the east side of the Old US 41 Intersection and extending to the newly widen portion near the Lime Street intersection. The design speed shall be 45 MPH and a typical section shall be developed to include future landscaping in the median.

This Contract Document does not entitle any firm to exclusive rights to County contracts. The County reserves the right to perform any and all required work in house or by any means it so desired.

**Section 2. TASKS**

Pursuant to the General Scope of the Basic Services stated hereinabove, the CONSULTANT shall perform services and/or work necessary to complete the following task(s) and/or provide the following item(s) which are enumerated to correspond to the task(s) and/or item(s) set forth in EXHIBIT "B" entitled "COMPENSATION AND METHOD OF PAYMENT."

**TASK INDEX**

- 1.00 Public Involvement Program
- 2.00 Engineering & Land Surveys
- 3.00 Geotechnical Services
- 4.00 Environmental Inventory and Impact Summary
- 5.00 Traffic Data
- 6.00 Roadway and Bridge Plans
- 7.00 Utility Adjustment Plans
- 8.00 Right-of-Way Plans
- 9.00 Signalization and Street Lighting Plans
- 10.00 Signing and Pavement Marking Plans
- 11.00 Permits
- 12.00 Final Bidding and Contract Documents
- 13.00 Advisory Services During Bidding
- 14.00 Construction Contract Administration and Inspection Services

**TASK 1.00 - PUBLIC INVOLVEMENT PROGRAM**

The CONSULTANT shall undertake a Public Involvement program, which shall include the following:

- Task 1.01 Develop and maintain a mailing list of elected and appointed officials in the local area, permit and review agencies, property owners, and any other interested parties.

Task 1.02 The CONSULTANT shall:

- a. Prepare exhibits, attend and participate in a preliminary Public Information Meeting conducted by the County at the completion of the Grades and Geometrics submittal stage (Task 6.01). The CONSULTANT shall send a notification of this meeting to all parties on the mailing list.
- b. Prepare presentation boards with alignment depicted thereon for use as visual aids during the meeting.
- c. A written narrative suitable for hand-out at the Public Information Meeting and for general information. The narrative shall address the following topics.
  - i) Description of the Proposed Project.
  - ii) Environment consequences related to
    - Social, economic and cultural resources
    - Physical and natural environment
  - iii) Relationship to Comprehensive Plan, Development Standards and other adopted County Policies and Ordinances.
  - iv) Unavoidable Adverse Environmental Affects and Proposed Mitigation Measures.
  - v) Any irreversible and irretrievable resource commitments and the long-term and short-term effects of these commitments.

Task 1.03 Evaluate and consider identified concerns or challenges to the project alignment or concept obtained at the Public Information Meeting and revise the above exhibits accordingly as approved by the County. Assemble the Task 1.02 work product into a booklet. Participate in a Board of County Commissioners Meeting or City of Bonita Springs Council meeting to accept study and adopt findings.

## **TASK 2.00 - ENGINEERING AND LAND SURVEYS**

The CONSULTANT shall perform engineering and land survey, services necessary for the subject project as outlined; reference all centerline survey control points; establish the bench line on North American Vertical Datum (1929) throughout the project. Horizontal data will be referenced to the State plane coordinate system, Florida West Zone, NAD 1983, 1990 adjustment. Survey work shall be performed under the responsible charge of a Professional Land Surveyor registered in the State of Florida and shall be accomplished in accordance with the Florida Department of Transportation Policy 760,000-760.012, and Florida Department of Transportation Location Manual. Work must comply with the minimum technical standards for Land Surveyors Rule 2IHH-6, Florida Statute 472.027; Field measurements will be recorded with electronic data collection equipment.

Task 2.01 Roadway Survey

Provide engineering and land surveys necessary to establish the roadway alignments and intersecting streets within the project limits and obtain topography, cross sections, underground utilities, signs and pavement markings, signal pole and equipment locations, light pole locations, right-of-way, land ties and required drainage information for existing and proposed drainage systems.

The design survey limits will be from Old US 41 to Lime Street, including 25 feet outside of the right-of-way limits.

The design survey will also include up to two pond sites once the sites are identified in the design process.

Task 2.02      Underground Utilities

- a.      CONSULTANT shall field locate only the at-grade or above ground features of the existing underground utilities. It is the County's desire that horizontal and vertical location of underground utilities be limited from Old U.S. 41 to Lime Street. This information should be obtained from the Utility Companies prior to completion of the 60% plans. This task includes coordination with various utility companies and assumes that the respective utility shall be responsible for "pot holing," said underground systems. The horizontal and vertical location of each utility will be surveyed, based on the "pot-holing" performed by the respective utility company and incorporated into the design survey when supplied by utility.

Task 2.03      Jurisdictional Wetlands Survey

After jurisdictional wetland lines have been flagged and verified by the agencies, the jurisdictional line will be located and included in the design survey.

Task 2.04      Planimetric

The Consultant shall provide planimetrics and DTM of the project area sufficient to define topographical (three dimensional) details along the proposed roadway for the width noted in Task 2.01.

**TASK 3.00 - GEOTECHNICAL SERVICES**

The CONSULTANT shall furnish soils investigation and analysis necessary for the design and preparation of construction plans for this project. A report shall be prepared with recommendations and pertinent soils data, including the water table, and shall be submitted to the COUNTY for its record. This report will address or incorporate work performed by the county in the development of the scope of this project.

Task 3.01      Soil Borings and Laboratory Testing

- a.      Soil Auger Borings shall be obtained alternating about the centerline on 100' stations of the adopted alignment from Old US 41 to Lime Street. Auger Borings shall be a minimum of 5 feet deep with soil classifications. All auger borings are to stop if rock is encountered.
- b.      In areas where unsuitable material, such as muck, is found, probings shall be taken at each station every 25 feet across the entire width of the proposed right-of-way to determine the extent of the unsuitable stratum.
- c.      A minimum of two (20 feet) test borings complete with soil classifications and blow counts will be obtained within the construction limits of the box culvert extension at Oak Creek.
- d.      A minimum of two (15 feet) test borings per pond complete with soil classifications and blow counts will be obtained within the construction limits of the stormwater detention ponds (assumes two (2) ponds.)
- e.      Laboratory testing, sufficient to enable a Geotechnical Engineer registered in the State of Florida, to analyze subsurface soil conditions and make design recommendations, shall be performed. Such tests may include, but shall not be limited to, grain size analysis, Atterberg limits, organic content, etc.

Task 3.02      Reports

Prepare a report summarizing the findings and provide recommendations for roadway design, and box culvert design. Consultant shall also provide soil survey sheet for the roadway plans and core boring sheets for inclusion in the box culvert extension plans. Note borings and evaluation of borings for strain poles are not included.

Task 3.03 Level 1 Contamination Screening Evaluation

For right of way parcels that have yet to be obtained by the County, a Level 1 Contamination Screening Evaluation will be performed. The limits of the evaluation will be from Old US 41 to Lime St. For each parcel, the contamination screening evaluation will consist of a site assessment, data collection, determination of potential contamination and a contamination evaluation screening report. The report for each parcel will be provided to the County with a recommendation for further evaluation if it is determined during the Level 1 Contamination Screening Evaluation that there is a potential for contamination.

**TASK 4.00 - ENVIRONMENTAL INVENTORY**

The CONSULTANT shall furnish a report summarizing the impact of the project on Hydrology, Vegetation, Wildlife, Soils, Wetlands, Floodplains or Riverine Areas, Land Use, Scenic Views, and Archaeology of the area. The report shall contain the following:

Task 4.01 Hydrology

- a. A diagram depicting the hydrology of the area.
- b. A description of the potential impact to ground and surface water resulting from the project.

Task 4.02 Vegetation

- a. A listing of vegetation found within the project limits.
- b. An aerial map of the vegetation associations.

Task 4.03 Wildlife

- a. An inventory of wildlife found within the project limits.

Task 4.04 Soils

- a. An aerial map of the soils within the project limits identified by Soil Series and Field Mapping Unit Name established by the United States Department of Agriculture's Soil Conservation Service.

Task 4.05 Wetlands

- a. An aerial of the wetland area within and adjacent to the project limits. Jurisdictional limits of permitting agencies such as, but not necessarily limited to, the Florida Department of Environmental Regulation and United States Army Corp. of Engineers shall be shown as well as the extent of Resource Protection Areas as defined by the Lee County Comprehensive Plan, Policy IX.D.5.
- b. A description of the impact on wetland by the project and mitigation requirements to offset adverse impacts.

Task 4.06 Floodplains or Riverine Areas

- a. An aerial map showing the extent of floodplains or riverine areas impacted by the project.
- b. A description of the impact on floodplains or riverine areas by the project and mitigation requirements to offset adverse impacts.

Task 4.07 Land Use

- a. A description of any variances that may be required from provisions of the Lee County Comprehensive Plan or implementing ordinances.



- Task 4.08 Historic Resources/Parks and Recreation Facilities
- a. A description of Historic Resources and any Parks or Recreation Facilities located within or adjacent to project limits.
  - b. A description of potential adverse impacts on these resources as a result of the project and what actions will be taken to avoid or minimize these impacts.
- Task 4.09 Archaeology
- a. An aerial map showing the location of any archaeological sites that are within or adjacent to the project limits.
  - b. A description of the archaeological site(s), any adverse impacts created by the project and mitigation requirements to offset the adverse impacts.

### **TASK 5.00 - TRAFFIC DATA AND GEOMETRIC CONCEPTS**

The CONSULTANT shall utilize Traffic Report developed in the previous Bonita Beach Road Widening (Mango to I-75) project by Tindale Oliver and Associates to obtain or develop the following:

- Task 5.01 Project Traffic - K, D and T factors, line volumes, and turning movements for the following years: Existing, post construction and 20 years after construction (Design Year).
- Task 5.02 Establish Typical Sections - with consideration of Level of Service, type of area (rural vs. urban), density of development, and available right-of-way, develop the cross-section elements for roadway in accordance with design and safety criteria.
- Task 5.03 Establish at-grade intersection geometry for all signalized intersections per the Traffic Report along the alignment.
- Task 5.04 Implement access management plan developed in Traffic Report.
- Task 5.05 Prepare report on the right-of-way impacts of alignment utilized in the widening design. The alignments to be considered are right, left, and center widening.

### **TASK 6.00 - ROADWAY AND BRIDGE PLANS**

The Consultant shall furnish design services necessary to perform project design and prepare roadway and bridge/culvert construction plans and specifications as set forth in Exhibit E and in accordance with the highway design and plans preparation standards in effect on the date this Agreement is approved by the COUNTY as set forth in the Florida Department of Transportation Standard Specifications, Florida Department of Transportation Roadway Plans Preparation Manual, Drainage Manual, and Federal Highway Planning Manual, 6-7-3-2. Plans shall be accurate, legible and complete in design.

Roadway plans shall be prepared to include: plotting of survey data; establishment of profile grades; preparation of key map, plan-profile sheets (including geometric calculations), typical section sheets, summary of quantities (including computation booklet), maintenance of traffic plans, cross-section sheets (including earthwork computations) and other detail sheets necessary to convey the intent of the design for the Scope of Services outlined herein.

The CONSULTANT shall submit design notes and computations to document the design conclusions reached during the development of the final construction plans.

The design notes and computations shall be recorded in 8-1/2" x 11" computation sheets, fully titled, numbered, dated, indexed, and signed by the designer and checker. Computer output forms and other oversized sheets shall be folded or otherwise reduced to 8-1/2" x 11" size. The data shall be bound for submittal to the County.

One copy of the appropriate design notes and computations shall be submitted to the COUNTY at each plan review stage. When the plans are submitted for final review, the design notes and computations, corrected for any COUNTY comments, shall be resubmitted. At the project completion, a final set of the design notes and computations shall be submitted with the record set of plans and tracings.

The design notes and calculations shall include, but not be limited to, the following data:

1. Design criteria used for this project.
2. Geometric design calculations for horizontal alignment that is not included in the quantity computation booklet.
3. Vertical geometry calculations with rationale for establishment of minimum pavement elevations.
4. Drainage computations.
5. Earthwork calculations not included in the quantity computation booklet.
6. Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
7. Calculations of quantities for all items set forth in the Bid Form.
8. Pavement design.

Each drawing of each submittal shall be signed by the appropriate Professional Engineer for the type of work depicted on the drawings. Each set of plans and each page of the design computations and quantity computation booklet shall be signed and checked by an appropriate design professional in accordance with the Florida Department of Transportation's Roadway Plan Preparation Manual. Each submittal called for below shall be delivered with a transmittal letter signed by the CONSULTANT's Project Manager stating that the submittal package is complete. Work may not proceed on the next submittal until written review comments from the COUNTY have been given to the CONSULTANT and appropriate modifications have been made by the CONSULTANT to the plans, designs, etc.

The CONSULTANT shall conduct project plan reviews with the COUNTY, as a minimum, at the Grades and Geometrics (30%), Basic Plan (60%), and Detail Plan (90%) stages, or Plan development at the respective submittal stages shall conform to the following:

Task 6.01 Grades and Geometrics (30%)

The CONSULTANT shall submit to the COUNTY four (4) sets of prints (11"x17") for review purposes. The plans shall depict existing topographical features, existing right-of-way and easement lines and shall contain the following:

- a. Plan and Profile Sheets (1" = 40') for the roadway section being widened.
- b. Existing project cross-section sheets (100' intervals) for the portion of the project to be widened, including cross sections at all roadway and drive intersections.
- c. Drainage maps depicting existing drainage areas, existing drainage structures, and existing flow patterns (1" = 200').
- d. Proposed typical section or sections and pavement design for these sections.
- e. Proposed preliminary additional right-of-way.
- f. Proposed preliminary intersection geometry.
- g. Proposed preliminary vertical alignment.

- h. Proposed preliminary access management plan showing median openings and any potential driveway/access problems.
- i. Plan showing location of any proposed box culvert extension structure(s).

The CONSULTANT shall submit an ORDER OF MAGNITUDE OPINION of the cost of constructing the project.

Task 6.02 Basic Plans (60%)

The CONSULTANT shall submit to the COUNTY four (4) sets of prints (11"x17"). The submittal shall reflect development of:

- a. Design Cross Sections.
- b. Storm Drainage System
- c. Drainage Structures and Drainage Outfalls
- d. Box Culvert Plans
- e. Retention Pond Plans
- f. Plan and profiles
- g. Preliminary Signing and Marking Plans
- h. Preliminary Signalization Plans
- i. Preliminary Lighting Plans
- j. Draft Maintenance of Traffic Plan
- k. Reports and calculations required to document design decisions reached during development of plans.
- l. Drafts of all Environmental Permits required by various permit agencies complete with required sketches, drawings and description.

The submittal shall include all drainage calculations, stormwater attenuation/detention requirements, storm sewer tabulation sheets, and a BUDGET ESTIMATE of the cost of constructing the project. All known utility conflicts shall be identified and the CONSULTANT shall notify affected utilities in accordance with Task 7.00, Utility Relocation Plan.

Task 6.03 Detail Plans (90%)

The CONSULTANT shall submit four (4) sets of prints (11"x17") to the COUNTY for review. The plans shall be complete construction plans, including a plan for maintenance of traffic, Box culvert extension, signing and marking, signalization plans, lighting plans, and utility adjustments with the exception that quantity computation booklet and summary of quantities of all items required for the construction of project and made a part of the final contract documents (Task 12.00) will not be included. Reports and calculations required to document design decisions reached during the development of plans shall be submitted along with the plans.

The draft bid documents shall be reviewed by the COUNTY's Project Sponsoring Department, Public Works, Legal Department and Division of Risk Management for compliance with the County's procurement policies and practices, insurance requirements and other regulations or requirements.

## **TASK 7.00 - UTILITY ADJUSTMENT PLANS**

The requirements of the various utility services shall be recognized and properly coordinated by the CONSULTANT during the project design. The CONSULTANT shall provide to the COUNTY such representation and technical assistance as may be necessary for coordination and/or negotiation with utility owners affected by the project. Utility adjustment plans shall be prepared on the roadway plans to show the proposed utility locations when adjustment is required. The required utility relocation will be designed by each utility and provided by the affected utilities (water, sanitary sewer, power, gas, electrical, telephone, cablevision, etc.) on prints of roadway plans provided to the utility by the CONSULTANT after the basic plan review. The contract schedule (Exhibit "C") is based upon receipt of the relocation design from the utilities within 90 calendar days from submission of the roadway Basic Plans to the utilities for their use in showing their proposed adjustments. Copies of all correspondence to or from all utilities shall be supplied by the CONSULTANT to the COUNTY. Work under this task shall include the following:

### **Task 7.01 Utility Notification**

Upon completion of the Grades and Geometrics (30%) plans review, the Consultant will transmit a copy to the utility companies requesting their submittal of a marked-up plan of their existing facilities, either by as-builts or field location, along with their comments and proposed relocations relative to the proposed project.

### **Task 7.02 Utility Coordination**

The CONSULTANT shall, by certified, return receipt requested mail, send Basic Roadway Plans (60%) to each utility for their review requesting them to return plans showing additions or corrections to existing facilities and their proposed relocations where adjustments are necessary.

### **Task 7.03 Final Utility Adjustment Plans**

Upon receipt of Basic Plans reviewed and signed off by the utilities within 90 calendar days after written request is made, any additions and/or corrections will be made to the roadway plans. Utility adjustments provided by the utilities will be shown in the CONSULTANT's Detail Plans submittal. If no response is received by the CONSULTANT by an agreed upon time limit after submission to the utilities, the CONSULTANT shall so notify the COUNTY. The COUNTY shall then, by certified, return receipt requested mail notify said utilities that the future costs of relocation, delays or redesign necessitated by their failure to respond shall be borne solely by them. Copies of such letters shall be given to the CONSULTANT.

The 90% plan will show the existing and proposed location of the utilities provided to the Consultant by the utility company.

## **TASK 8.00 RIGHT-OF-WAY MAPS**

The CONSULTANT shall prepare the right-of-way maps according to Lee County standards. Right-of-way maps shall be prepared from Old US 41 to Lime St. The parcel surveys are limited to 10 parcels. Boundary Surveys requested in addition to the 10 parcels will be provided as additional services. Proposed right-of-way lines and easement lines will be shown on the construction plans. Right of way maps shall be referenced to the State Plane Coordinate System, Florida West Zone, N.A.D. 1983, 1990 adjustment.

The COUNTY will provide all title abstracts and tax receipts to the CONSULTANT sufficient for use in preparing the right-of-way maps and legal descriptions. The COUNTY will provide copies of right-of-way maps in its possession. Plans will be submitted for review as follows:

### **Task 8.01 Preliminary Right-of-Way Maps**

Four (4) sets of prints of right-of-way maps showing existing right-of-way and land ties shall be provided to the COUNTY for their review. The CONSULTANT shall identify necessary additional right-of-way, easements, or other land interests needed to construction and maintain the project

and to meet requirements identified during the permitting agencies field review. Additional land requirements shall be shown and detailed by stationing and dimensioning on a reproducible copy of the right-of-way maps. These will include key maps (1" = 400') and details plans (1" = 40') and shall be provided to the COUNTY at the Grades and Geometrics Plans (30%) review stage. The 30% right-of-way maps shall also include jurisdictional areas claimed by affected agencies.

Task 8.02 Final Right-of-Way Maps

One (1) set of Mylars for final right-of-way plans will be provided by the CONSULTANT and four (4) sets of prints, signed and sealed. Easements for grading outside the right-of-way to conform adjacent property to the proposed construction will be addressed as either necessary for construction or as desirable for aesthetics. These plans include key maps (1" = 400') detailed right-of-way maps (1" = 40') and a sheet with a listing of takings for right-of-way and required construction and drainage easements.

Final right-of-way maps including roadway, and structure easements and drainage easements shall be prepared and submitted by the CONSULTANT within thirty (30) calendar days of receipt of the Basic Plans (60%) submittal review comments from the County, including all legal descriptions and parcel sketches.

Task 8.03 Survey of Parcel of Taking

Two (2) copies of a Survey of each parent tract, acquisition parcel, and remainder required for right-of-way, drainage easement, construction easement, mitigation or combination thereof shall be provided by the CONSULTANT at an appropriate scale on 8 1/2 x 14 paper. The fee includes a one-time staking of the physical right-of-way taking when requested by the COUNTY for land acquisition or other purposes; the COUNTY will determine the timing.

Task 8.04 Right-of-Way Monumentation

- a. Monument and reference final right-of-way lines throughout project according to FDOT procedures. County shall provide consultant parcels data of actually purchased limits prior to monumentation.
- b. Assign coordinates to each right-of-way monument based on the state plane coordinate system and record on final right-of-way.
- c. Monumentation to occur upon notification of substantial completion of construction.

**TASK 9.00 - SIGNALIZATION AND STREET LIGHTING PLANS**

The CONSULTANT shall furnish design services and prepare a complete set of construction plans for the signalization of intersections identified by the COUNTY. This is limited to the Old US 41, and Racetrack Rd. signalized intersections. These signalized intersections are anticipated to be retimed and refurbished as necessary. New signal design will utilize strain pole systems. Mast arm designs will be provided as additional services if requested. Existing turn lanes will be improved as recommended by the traffic analysis/report. The project will also include street lighting with decorative lights as selected by the City of Bonita Springs from Old US 41 to Lime Street. All Signalized intersections will have street lighting as well. Plans will be prepared in accordance with the Florida Department of Transportation Plans Preparation Manual, District One guidelines for development of signalization requirements, and criteria for Providing Illumination of Intersections and the American Association of State Highway and Transportation Officials "Guide to Roadway Lighting," and submitted for review as follows:

Task 9.01 Basic Signal Plans

The CONSULTANT shall submit to the COUNTY four (4) sets of prints (11" x 17") of the preliminary plans for review. Plans will include:

- a. Plan sheet showing poles, signal heads, controllers, loop or camera locations, luminaries

and appurtenances.

- b. Copies of intersection design volumes, recommended signal phasing, timing, illumination intensity and capacity analysis.
- c. Existing signal system interconnects and proposed signal interconnects, to include evaluation of signals and proposed signals along the alignment with recommendations for interconnection and progression.

These plans will be submitted with the Basic Plans 60% under Task 6.02.

**Task 9.02 Detail Signal Plans**

The consultant shall submit to the COUNTY four (4) sets of prints (11" x 17") of the signal and street lighting plans with the Details Plans (90%) under Task 6.03 for review.

**Task 9.03 Lighting Plans**

The CONSULTANT shall furnish design services and prepare construction plans for lighting plans for the project from Old US 41 to Lime Street. All signalized intersections within the project limits will be designed for lighting as well. The lighting design will incorporate decorative light fixtures. A lighting plan concept report will be submitted to the County for review at the 30% roadway plans stage. Plans (4 sets) shall be submitted with the 60% and 90% review stages and with the final roadway plans in accordance with the Florida Department of Transportation Roadway and Traffic Design Standards for review.

**TASK 10.00 - SIGNING AND PAVEMENT MARKING PLANS**

The CONSULTANT shall furnish design services and prepare construction plans for ground-mounted traffic signs and pavement markings for the entire project. Plans (4 sets)(11"x17") shall be submitted with the 60% and 90% review stages and with the final roadway plans in accordance with the Florida Department of Transportation Roadway and Traffic Design Standards for review.

**TASK 11.00 - PERMITS**

The CONSULTANT shall prepare permit applications, data and drawings required for submittal by the COUNTY to local, state and federal agencies having permit jurisdiction. The anticipated permit authorities are the Lee County Department of Community Development, U.S. Army Corp. of Engineers, the E.P.A., and the South Florida Water Management District.

Drainage design shall include stormwater treatment and attenuation required to comply with rules of the South Florida Water Management District (S.F.W.M.D.). The prerequisite stormwater permit applications shall be prepared in accordance with Chapter 17-25, REGULATION OF STORMWATER DISCHARGE, FLORIDA ADMINISTRATIVE CODE, and Chapters 40E-4 and 40E-40 of S.F.W.M.D. The COUNTY shall review the permit applications and shall have a representative at all conferences between the CONSULTANT and the permitting agency and shall be copied on all correspondence between the CONSULTANT and the permitting agencies.

The County will be responsible to find and pay all related permit fees as may be required by the various permitting agencies having jurisdiction over the project.

The Coordination and Permitting process shall be as follows:

**Task 11.01 Permit Applications and Initial Meeting with Permitting Agencies**

Permitting agencies shall be notified of the proposed project prior to submittal of Grades and Geometrics (30%) design. A meeting will be held with representatives of the agencies to review the proposed project in the field and to obtain their comments and areas of concern which shall be included in the Grades and Geometrics plans review with the COUNTY.

Task 11.02 Permit Applications

Permit application form including required design information and data shall be completed by the CONSULTANT thirty (30) calendar days prior to the Basic Plans (60%) review, and submitted to the COUNTY for its approval and appropriate signature. The CONSULTANT shall then submit the Permit Application to the appropriate agencies after COUNTY approval of the Basic Plans (60%). The CONSULTANT shall advise the COUNTY well in advance of the application as to the amount of the permit fee so as not to delay the submission.

Task 11.03 Permit Revisions

The CONSULTANT shall respond up to two agency review comments (RFI), revise applications and Basic Plans, final right-of-way plans including legal descriptions and parcel sketches and submit additional material required to support the proposed design if required, and coordinate with the COUNTY and permitting agencies to obtain approval of the permits. Such response shall be made within thirty (30) calendar days subsequent to the agency requests. Response to additional RFIs will be done so as additional services. Requirements of permitting agencies shall be incorporated into final contract documents including storm water treatment and attenuation as may be required.

**TASK 12.00 - FINAL BIDDING AND CONTRACT DOCUMENTS**

Once the final roadway, box culvert plans, signalization, street lighting, and signing and pavement marking plans have been approved by the COUNTY, one final set of bidding and contract documents will be prepared for the construction of the improvement. All plans will be delivered in 11" x 17" format. This task will include the following:

- Task 12.01 Final roadway and box culvert plans, a quantity computation booklet and summary of quantities, pay item list, and CONSTRUCTION COST OPINION.
- Task 12.02 Final signalization, signing and marking plans, and lighting plans summary of quantities, pay item list and CONSTRUCTION COST OPINION.
- Task 12.03 Special provisions and other appropriate contract documents for incorporating Florida Department of Transportation specifications, U.S. Army Corps of Engineers, Department of Environmental Protection and South Florida Water Management District, or D.O. permit requirements in the bid documents.
- Task 12.04 Complete bidding and contract documents ready for bid including all forms, general conditions, all approved permits and other material required by the Lee County Contract Manual, the Department of Public Works, Legal Department and Risk Management.

**TASK 13.00 - ADVISORY SERVICES DURING BIDDING**

After approval of construction plans and bidding documents by the COUNTY, the CONSULTANT shall perform the following services:

- Task 13.01 Attend and participate with the COUNTY in scheduling and presenting a Pre-Bid Conference. Minutes of the pre-bid conference will be prepared and distributed by the Consultant. Provide the COUNTY with six (6) sets of complete bidding and contract documents for its use.
- Task 13.02 Consultant to issue one sign and sealed complete bidding and contract documents to the County. Consultant to provide 25 sets of plans (11"x17") and contract documents to the County and identify a fee to be charged.
- Task 13.03 Respond to Bidders' inquiries and prepare addenda for issuance by the COUNTY.
- Task 13.04 Evaluate the bids receiving by the COUNTY and the bidders and provide written recommendations to the COUNTY.
- Task 13.05 Provide the COUNTY with a Unit Price Bid Tabulation, which includes all bonafide bidders.

**TASK 14.00 - POST-DESIGN SERVICES**

During the construction phase, the CONSULTANT shall furnish professional services of Construction Contract Administration and/or Inspection Services as requested by the County. These services if requested will be provided as additional services that are to be negotiated at a later date.

Task 14.01 Pre-construction Conference & Site Visits

The CONSULTANT shall attend all preconstruction conferences. Minutes of the conferences will be prepared and distributed by the County. The consultant shall also make visits to the site at intervals appropriate to the various stages of construction to observe as an experienced and qualified design professional the progress and quality of the executed work of CONTRACTOR (S) and to determine if work is proceeding in substantial accordance with the contract documents. On the basis of such on-site observations as the COUNTY's consultant, the CONSULTANT shall keep the COUNTY informed of the progress of the work and shall endeavor to protect the COUNTY against observed defects or deficiencies in the work or delays of the CONTRACTOR.

The CONSULTANT shall not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by the CONTRACTOR(S) or the safety precautions and programs incident to the work of the CONTRACTOR(S). The CONSULTANT shall not be responsible for the failure of the CONTRACTOR(S) to perform the work in accordance with the contract documents.

Task 14.02 Change Orders

The CONSULTANT shall prepare Change Orders as required and as may be initiated or recommended by the COUNTY, the CONSULTANT, or by the CONTRACTOR (S).

Task 14.03 Shop Drawings

The consultant shall review, reject and/or approve shop drawings, which each CONTRACTOR is required to submit, but only for conformance with the design concept of the project and compliance with the contract documents. Also determine the acceptability, subject to County approval, of substitute materials and equipment proposed by Contractors. All this work will be scheduled, transmitted and received by the COUNTY.

Task 14.04 Clarifications/Interpretations

The CONSULTANT will respond to requests of the COUNTY for necessary clarifications and interpretations of the contract documents. The CONSULTANT shall act as initial interpreter of the requirements of the contract documents, and render evaluations of the acceptability of the work there under. The compensation for the work in this paragraph is not intended to be applied as a remedy to any plan or document deficiencies that may become evident during the construction phase.

Task 14.05 Pay Requests

The CONSULTANT shall review payment requests submitted by the CONTRACTOR and determine the amount owed to the CONTRACTOR. The Consultant's recommendation for payment shall constitute a representation by the CONSULTANT to the COUNTY, based on the Consultant's qualified design professional and on the Consultant's review of the applications for payment and the accompanying data and schedules that the work has progressed to the point indicated; that to the best of the Consultant's knowledge, information and belief, the quality of the work is in accordance with the Contract Bid Documents and that the CONTRACTOR is entitled to the amount of payment recommended.



However, by recommending any such payments, the CONSULTANT shall not thereby be deemed to have represented that exhaustive or continuous on-site inspections have been made to check the quality or quantity of the work beyond the responsibilities specifically assigned to the CONSULTANT in the project's contract.

Task 14.06 Full-time Inspections

The County may ask for full-time inspection services as additional services to be negotiated at a later date. In this task, the CONSULTANT shall, in addition to the services provided under Task 14.01, provide daily on-site inspection services to review the progress of the work. Bound daily field inspection logs and reports in Lee County format shall be provided to the COUNTY on a monthly basis, noting observations on the character of the work, work progress, observed deficiencies, defects, delays and problems. The CONSULTANT shall provide a written report, submitted monthly, for work completed during the reporting period. The report shall recap the status of construction, whether ahead or behind the approved construction schedule, status of guarantees, warranties, review of material test results, need for contract modification, if necessary, and impact on project budget.

Alternatively, as additional services to be negotiated at a later date, the CONSULTANT will provide qualified personnel of various ability to work directly under the supervision of the COUNTY's Construction Administration staff. This will be determined on a project-by-project case. The credentials and experience of all such individuals must be reviewed and approved, and he/she may be personally interviewed.

Task 14.07 Final Inspection/Certifications

Participate in a pre-final inspection for the purpose of determining if the project is substantially complete, and participate with the COUNTY in the preparation of a written "punch list" of all incomplete, defective or deficient items.

Participate in a final inspection together with County and Contractor representatives to assure that all "punch list" items are completed and the work is indeed completed in accordance with all contract documents. Upon completion of the final inspection, certify, in writing to the COUNTY, that the work in place is acceptable, subject to any conditions therein expressed.

After satisfactory completion of the project, the CONSULTANT shall prepare certification and/or notification of the completion of construction to the satisfaction of any permitting agency requiring such a submittal.

Task 14.08 Record Drawings

Consultant shall prepare record drawings delineating the dimensions, locations, elevations, etc. of the facilities as constructed. In preparing these drawings, the CONSULTANT will revise the original contract drawings utilizing information provided by the COUNTY from the contractor who will upgrade "as built" information periodically as the construction effort progresses, and as supplemented by appropriate observation or survey work by the CONSULTANT. The consultant shall provide the COUNTY with one set of electronic disks and two (2) sets of 11" x 17" prints of the record drawings clearly marked "as built."

These record drawings shall not show any changes from the original plans, which do not exceed tolerances listed:

- Elevation Greater than .0833 feet.
- Horizontal Stationing Greater than 1.0 foot.
- Distances Greater than 1.0 foot.
- Structure dimensions Greater than .0833 feet.
- Material Changes All.
- Product Changes All.

The COUNTY shall coordinate the above noted tolerances with the CONTACTOR prior to the CONTRACTOR preparing any as-built information. Based on record drawing information furnished by the CONTRACTOR, the CONSULTANT shall prepare certification letters to permit agencies.

CHANGE ORDER AGREEMENT No. 2  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No.

EXHIBIT "CO/STA-B"

Date: 9/24/03

COMPENSATION AND METHOD OF PAYMENT

for Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street - C.O. #2

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.	Public Involvement Program	\$20,119.48	NTE	W.I.P.P.
2.	Engineering and Land Surveys	\$ 108,072.64	NTE	W.I.P.P.
3.	Geotechnical Services	\$ 20,300.00	NTE	W.I.P.P.
4.	Environ. Inventory/Impact Summary	\$ 12,200.00	NTE	W.I.P.P.
5.	Traffic Data	\$ 8,360.00	NTE	W.I.P.P.
6.	Roadway Plans	\$ 214,014.00	NTE	W.I.P.P.
6.	Bridge Plans	\$ 10,944.00	NTE	W.I.P.P.
7.	Utility Adjustment Plans	\$ 14,192.00	NTE	W.I.P.P.
8.	Right-of-way Plans	\$ 53,576.17	NTE	W.I.P.P.
9.	Signalization and Street Lighting Plans	\$ 43,333.00	NTE	W.I.P.P.
10.	Signing & Pav't Marking Plans	\$ 18,801.00	NTE	W.I.P.P.
11.	Permits	\$ 25,662.00	NTE	W.I.P.P.
12.	Final Bidding/Contract Documents	\$ 10,000.00	NTE	W.I.P.P.
13.	Advisory Services During Bidding	\$ 5,000.00	NTE	W.I.P.P.
14.	Const. Contract Admin/Inspection Srvcs	\$ 0.00	NTE	W.I.P.P.
	Expenses	\$ 3,000.00	LS	W.I.P.P.
TOTAL (Unless list is continued on next page)		<b>\$567,574.29</b>	NTE	

CHANGE ORDER AGREEMENT No. **2**

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 Change Order Nos. <u>1</u>	Adjustment(s) due to this CO or STA	Summary of Changed Compensation
<b>Bonita Beach Rd. Six Laning (Old U.S. 41 to Imperial St.)</b>		\$ 1,024,926.71	\$ 108,980.76		\$1,133,907.47
<b>BBR Six Laning from Old U.S. 41 to Lime St.</b>					
1.	Public Involvement Program			\$20,119.48	\$20,119.48
2.	Engineering and Land Surveys			\$ 108,072.64	\$108,072.64
3.	Geotechnical Services			\$ 20,300.00	\$20,300.00
4.	Environ. Inventory/Impact Summary			\$ 12,200.00	\$12,200.00
5.	Traffic Data			\$ 8,360.00	\$8,360.00
6.	Roadway Plans			\$ 214,014.00	\$214,014.00
6.	Bridge Plans			\$ 10,944.00	\$10,944.00
7.	Utility Adjustment Plans			\$ 14,192.00	\$14,192.00
8.	Right-of-way Plans			\$ 53,576.17	\$53,576.17
9.	Signalization/ Street Lighting Plans			\$ 43,333.00	\$43,333.00
10.	Signing & Pav't Marking Plans			\$ 18,801.00	\$18,801.00
11.	Permits			\$ 25,662.00	\$25,662.00
12.	Final Bidding/Contract Documents			\$ 10,000.00	\$10,000.00
13.	Advisory Services During Bidding			\$ 5,000.00	\$5,000.00
14.	Const. Contract Admin/Inspection Svcs.			\$ 0.00	\$0.00
	Expenses			\$ 3,000.00	\$3,000.00
<b>TOTAL</b>		<b>\$1,024,926.71</b>	<b>\$108,980.76</b>	<b>\$567,574.29</b>	<b>\$1,701,481.76</b>

CHANGE ORDER AGREEMENT No. 2  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No.

EXHIBIT "CO/STA-C"

Date: 9/24/03

TIME AND SCHEDULE OF PERFORMANCE

for **Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street - C.O. #2**

**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 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
1.	Public Involvement Program	120	210
2.	Engineering and Land Surveys	120	120
3.	Geotechnical Services	90	150
4.	Environ. Inventory/Impact Summary	180	180
5.	Traffic Data	90	150
6.	Roadway & Bridge Plans	260	380
7.	Utility Adjustment Plans	200	380
8.	Right-of-way Plans	180	425
9.	Signalization/ Street Lighting Plans	180	380
10.	Signing & Pav't Marking Plans	180	380
11.	Permits	150	380
12.	Final Bidding/Contract Documents	45	425
13.	Advisory Services During Bidding	60	485
14.	Const. Contract Admin/Inspection Svcs.	N/A	N/A

CHANGE ORDER AGREEMENT No. 2  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No.

EXHIBIT "CO/STA-C"

Date: 9/24/03

TIME AND SCHEDULE OF PERFORMANCE

for Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street - C.O. #2

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:

Phase and/or Task Reference as Enumerated in EXHIBIT "A" and Exhibit "CO/STA-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
1.	Public Involvement Program	120	210
2.	Engineering and Land Surveys	120	120
3.	Geotechnical Services	90	150
4.	Environ. Inventory/Impact Summary	180	180
5.	Traffic Data	90	150
6.	Roadway & Bridge Plans	260	380
7.	Utility Adjustment Plans	200	380
8.	Right-of-way Plans	180	425
9.	Signalization/ Street Lighting Plans	180	380
10.	Signing & Pav't Marking Plans	180	380
11.	Permits	150	380
12.	Final Bidding/Contract Documents	45	425
13.	Advisory Services During Bidding	60	485
14.	Const. Contract Admin/Inspection Svcs.	N/A	N/A

CHANGE ORDER AGREEMENT No. 2  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No.

EXHIBIT "CO/STA-D"

Date: 9/24/03

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

for Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street - C.O. #2

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 work "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
Limited Phase II Environmental Site Assessment	<b>Ardaman &amp; Associates, Inc. 9970 Bavaria Road Fort Myers Florida 33913</b>		<b>X</b>			<b>X</b>
Surveying Services	<b>AIM Engineering &amp; Surveying, Inc. 5300 Lee Blvd. Lehigh Acres, Florida 33971</b>		<b>X</b>			<b>X</b>
Traffic & Signalization Services	<b>Tindale-Oliver &amp; Associates 1000 N. Ashley Drive, Suite 100 Tampa, Florida 33602</b>		<b>X</b>			<b>X</b>

CHANGE ORDER AGREEMENT No. 2  
or  
 SUPPLEMENTAL TASK AUTHORIZATION No.

EXHIBIT "CO/STA-E"

Date: 9/24/03

PROJECT GUIDELINES AND CRITERIA

for **Bonita Beach Road Six Laning from Old U.S. 41 to Lime Street - C.O. #2**

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.**



**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Bonita Beach Road Widening from Old US 41 to Lime Street  
 County: Lee  
 FPN: N/A  
 FAP No.: N/A

Consultant Name: Pitman Harterstein and Associates  
 Consultant No.: 20121.L  
 Date: 9/19/2003  
 Estimator: Dan Craig

Staff Classification	Total Staff Hours From Summary -	Chief Engineer	Project Manager	Senior Engineer	Project Engineer	Engineer	Senior Tech	Tech	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General Tasks	254	4	176	50	0	0	24	0	0	0	0	0	0	254	\$28,556	\$116.36
4. Roadway Analysis	855	0	100	310	273	160	12	0	0	0	0	0	0	855	\$89,344	\$104.50
5. Roadway Plans	938	0	80	170	0	100	400	188	0	0	0	0	0	938	\$75,236	\$80.21
6. Drainage Analysis	588	1	64	233	0	210	80	0	0	0	0	0	0	588	\$57,794	\$98.29
7. Utilities	148	0	24	44	0	48	32	0	0	0	0	0	0	148	\$14,192	\$95.89
8. Environmental Permits	129	1	24	40	0	44	20	0	0	0	0	0	0	129	\$12,742	\$98.78
9. Structure Summary	19	0	6	13	0	0	0	0	0	0	0	0	0	19	\$2,220	\$116.84
10. Structures - BDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	100	0	16	24	0	0	60	0	0	0	0	0	0	100	\$8,724	\$87.24
19. Signing & Marking Analysis	201	0	16	12	0	20	113	40	0	0	0	0	0	201	\$14,867	\$74.06
20. Signing & Marking Plans	54	0	4	0	0	0	40	6	0	0	0	0	0	54	\$3,914	\$72.48
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	123	0	11	24	72	16	0	0	0	0	0	0	0	123	\$12,649	\$102.84
24. Lighting Plans	74	0	8	12	0	0	54	0	0	0	0	0	0	74	\$5,970	\$80.68
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	<b>3,483</b>	<b>6</b>	<b>529</b>	<b>832</b>	<b>348</b>	<b>588</b>	<b>835</b>	<b>234</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,483</b>	<b>\$327,228.00</b>	<b>\$93.95</b>
<b>Total Staff Cost</b>		<b>\$900.00</b>	<b>\$65,067.00</b>	<b>\$105,248.00</b>	<b>\$34,900.00</b>	<b>\$50,630.00</b>	<b>\$55,945.00</b>	<b>\$13,338.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$327,228.00</b>	<b>\$93.95</b>

Form Revised 11/16/92

SALARY RELATED COSTS:

Check = \$327,228.00

**EXPENSES :**

**SUBTOTAL ESTIMATED FEE:**  
 Subconsultant: Tirdale Oliver \$330,228.00  
 Subconsultant: Alm \$22,714.00  
 Subconsultant: Ardaman \$157,048.05  
 Subconsultant: Passarella \$18,300.00  
 Subconsultant: Cella \$23,120.00  
 Subconsultant: \$16,163.24  
 Subconsultant: \$0.00  
**SUBTOTAL ESTIMATED FEE:** \$237,346.29

**GRAND TOTAL ESTIMATED FEE:**

\$567,574.29

### Project Activity 3: General Tasks

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street  
0

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
3.1	Public Involvement	LS	1	34	34	Boards, Prep and attendance
3.2	Joint Project Agreements	EA	0	0	0	none identified
3.3	Specifications Package Preparation	LS	1	48	48	
3.4	Contract Maintenance	LS	1	64	64	16 plus 4x12
3.5	Value Engineering (Multi-discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	108	108	1x3x3x12
<b>3. General Tasks Total</b>					<b>254</b>	

**Project Activity 4: Roadway Analysis**

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	8	8	Match phase 1
4.2	Pavement Design Package	LS	1	8	8	Match phase 1
4.3	Access Management	LS	1	8	8	Incorporate Phase 1 report
4.4	Horizontal /Vertical Master Design Files	LS	1	120	120	
4.5	Cross Section Design Files	LS	1	184	184	assumes 2 ponds and 4 outfalls, 120+32+32
4.6	Traffic Control Analysis	LS	1	120	120	
4.7	Master TCP Design Files	LS	1	80	80	Assumes a couple phases
4.8	Design Variations and Exceptions	LS	1	0	0	
4.9	Design Report	LS	1	120	120	Includes separate report for alignment analyses for R/W impact ( 80 hrs. )
4.10	Computation Book & Quantities	LS	1	80	80	
4.11	Cost Estimate	LS	1	16	16	3 estimates
4.12	Technical Special Provisions	LS	1	0	0	
<b>Roadway Analysis Technical Subtotal</b>					<b>744</b>	
4.13	Field Reviews	LS	1	12	12	2x3x2
4.14	Technical Meetings	LS	1	40	40	
4.15	Quality Assurance/Quality Control	LS	%	2.5%	19	
4.16	Independent Peer Review	LS	%	0%	0	
4.17	Supervision	LS	%	2.5%	19	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>90</b>	
4.18	Coordination	LS	%	2.5%	21	
<b>4. Roadway Analysis Total</b>					<b>855</b>	

**Project Activity 5: Roadway Plans**

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street

0

Task No.	Task	Scale	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
5.1	Key Sheet		Sheet	1	6	1	6	
5.2	Summary of Pay Items-including Quantity Input		Sheet	0	16	0	0	
5.3	Drainage Map		Sheet	4	40	4	160	
5.4	Interchange Drainage Map		Sheet	0	0	0	0	
5.5	Typical Section Sheets		Sheet	2	12	2	24	
5.6	General Notes/Pay Item notes		Sheet	1	16	1	16	
5.7	Summary of Quantities		Sheet	4	16	4	64	
5.8	Box Culvert Data Sheet		Sheet	1	4	1	4	
5.9	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	0	
5.10	Summary of Drainage Structures		Sheet	2	16	2	32	
5.11	Optional Pipe/ Culvert Material		Sheet	0	0	0	0	Not included
5.12	Project Layout		Sheet	4	8	4	32	
5.13	Plan/Profile Sheet	40	Sheet	9	16	9	144	4900 feet +/-
5.14	Profile Sheet		Sheet	0	0	0	0	
5.15	Plan Sheet		Sheet	0	0	0	0	
5.16	Special Profile		Sheet	0	0	0	0	
5.17	Back of Sidewalk Profile Sheet		Sheet	0	0	0	0	
5.18	Interchange Layout Sheet		Sheet	0	0	0	0	
5.19	Ramp Terminal Details (Plan View)		Sheet	0	0	0	0	
5.20	Intersection Layout Details		Sheet	2	8	2	16	per signalized intersection
5.21	Miscellaneous Detail Sheets		Sheet	1	8	1	8	
5.22	Drainage Structure Sheet (per Structure)		EA	30	2		60	
5.23	Miscellaneous Drainage Detail Sheets		Sheet	1	16	1	16	

**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
5.24	Lateral Ditch Plan/Profile		Sheet	4	8	4	32	four outfalls
5.25	Lateral Ditch Cross sections		EA	16	0.5	4	8	
5.26	Retention/Detention Ponds Detail Sheet		Sheet	2	16	2	32	2 ponds
5.27	Retention Pond Cross Sections		EA	12	0.5	4	6	
5.28	Cross-section Pattern Sheet		Sheet	0	0	0	0	
5.29	Roadway Soil Survey Sheet		Sheet	1	1	1	1	
5.30	Cross Sections		EA	55	0.5	19	28	
5.31	Traffic Control Plan Sheets		Sheet	18	6	18	108	2 major phases
5.32	Traffic Control Cross Section Sheets		EA	0	0		0	
5.33	Traffic Control Detail Sheets		Sheet	3	12	3	36	Typicals and notes
5.34	Utility Adjustment Sheets	40	Sheet	9	5	9	45	
5.35	Selective Clearing and Grubbing		Sheet	0	0	0	0	
5.36	Erosion Control Plan		Sheet	0	0	0	0	
5.37	SWPPP		Sheet	3	4	3	12	
5.38	Project Control Network Sheet		Sheet	0	0	0	0	
5.39	Interim Standards		LS	1	4		4	
5.40	Utility Verification Sheet (SUE data)		Sheet	0	0	0	0	not included
<b>Roadway Plans Technical Subtotal</b>						<b>99</b>	<b>894</b>	
5.41	Quality Assurance/Quality Control		LS	%	2.5%		22	
5.42	Supervision		LS	%	2.5%		22	
<b>5. Roadway Plans Total</b>						<b>99</b>	<b>938</b>	

**Project Activity 6: Drainage Analysis**

Estimator: Dan Craig

Form Revised 11/18/02

Bonita Beach Road Widening from Old US 41 to Lime Street  
0

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
6.1	Determine Base Clearance Water Elevation	Per Location	0	0	0	utilize existing roadway
6.2	Pond Siting Analysis and Report	Per Basin	4	24	96	2 ponds offsite and 2 onsite in ditch
6.3	Design of Cross Drains	EA	4	16	64	four outfalls being extended for widening
6.4	Design of Roadway Ditches	Per Ditch Mile	2	16	32	
6.5	Design of Outfalls	EA	4	16	64	From ponds to existing outfalls
6.6	Design of Stormwater Management Facility (Offsite Pond)	EA	2	40	80	Assumes 2 pond sites
6.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per System	2	24	48	
6.8	Design of Flood Plain Compensation Area	Per Encroachment	0	0	0	not included
6.9	Design of Storm Drains	EA	30	3	90	includes control structures
6.10	Optional Culvert Material	LS	0	0	0	not included
6.11	French Drain Systems	Per 1000 Feet of French Drain	0	0	0	not applicable
6.12	Drainage Wells	EA	0	0	0	
6.13	Drainage Design Documentation Report	LS	1	42	42	
6.14	Preparation of Bridge Hydraulic Report	EA	0	0	0	
6.15	Temporary Drainage Analysis	LS	1	0	0	
6.16	Cost Estimate	LS	1	0	0	included with roadway
6.17	Technical Special Provisions	LS	1	0	0	none anticipated

**Project Activity 6: Drainage Analysis**

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
<b>Drainage Analysis Technical Subtotal</b>					<b>516</b>	
6.18	Field Reviews	LS	1	16	16	
6.19	Technical Meetings	LS	1	16	16	
6.20	Quality Assurance/Quality Control	LS	%	2.5%	13	
6.21	Independent Peer Review	LS	%	0%	0	
6.22	Supervision	LS	%	2.5%	13	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>58</b>	
6.23	Coordination	LS	%	2.5%	14	
<b>6. Drainage Analysis Total</b>					<b>588</b>	

## Project Activity 7: Utilities

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street

0

Task No.	TASK	Units	No of Units	Hours / Unit	Total Hours	Comments
7.1	Kickoff Meeting	LS	1	0	0	Combine with Preliminary Meeting
7.2	Identify Existing UAOs	LS	1	2	2	Confirm from Phase 1
7.3	Make Utility Contacts	LS	1	5	5	BSU, FPL, TECO, Sprint, ATT
7.4	Exception Coordination	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	16	16	
7.6	Individual/Field Meetings	LS	1	15	15	5 x 3
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	5	5	
7.8	Subordination of Easements Coordination	LS	1	0	0	none anticipated
7.9	Utility Design Meeting	LS	1	16	16	
7.10	Review Utility Markups, Work Schedules, Processing of Schedules and Agreements	LS	1	20	20	
7.11	Utility Coordination / Followup	LS	1	40	40	
7.12	Utility Constructability Review	LS	1	24	24	
7.13	Additional Utility Services	LS	1	0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	Assumes no JPA
7.15	Contract Plans to UAO(s)	LS	1	5	5	
7.16	Certification/Close-out	LS	1	0	0	
<b>7. Utilities Total</b>					<b>148</b>	



**Project Activity 8: Environmental Permits**

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street  
0

Task No.	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
8.1	Preliminary Project Research	LS	1	8	8	
8.2	Complete Permit Involvement Form	LS	1	0	0	
8.3	Establish Wetland Jurisdictional Lines	LS	1	0	0	Passeralla
8.4	Agency Verification of Wetland Data	LS	1	0	0	Passeralla
8.5	Complete And Submit All Required Permit Applications	LS	1	80	80	Includes up to 2 RAI
8.6	Prepare Dredge and Fill Sketches	LS	1	24	24	Assist Passeralla
8.7	Prepare USCG Permit Sketches	LS	1	0	0	Not Applicable
8.8	Prepare Easement Sketches	LS	1	0	0	Not Applicable
8.9	Prepare RW Occupancy Sketches	LS	1	0	0	Not Applicable
8.10	Prepare Coastal Construction Control Line (CCCL) Permit Sketches	LS	1	0	0	Not Applicable
8.11	Prepare Tree Permit Information	LS	1	0	0	Not Applicable
8.12	Mitigation Coordination and Meetings	LS	1	0	0	Not anticipated
8.13	Mitigation Design	LS	1	0	0	Not anticipated
8.14	Environmental Clearances	LS	1	0	0	
<b>Environmental Permits Technical Subtotal</b>					<b>112</b>	
8.15	Technical Meetings	LS	1	8	8	
8.16	Quality Assurance/Quality Control	LS	%	2.5%	3	
8.17	Supervision	LS	%	2.5%	3	
<b>Environmental Permits Nontechnical SubTotal</b>					<b>14</b>	
8.18	Coordination	LS	%	2.5%	3	
<b>8. Environmental Permits Total</b>					<b>129</b>	

**Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings**

Estimator: Scott Jones

Beach Road Widening from Old US 41 to Lime Street

0

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
<b>General Drawings</b>											
9.1	Index of Drawings	sheet	0	0	0	0					
9.2	Project Layout	sheet	0	0	0	0					
9.3	General Notes and Bid Item Notes	sheet	0	0	0	0					
9.4	Incorporate FDOT Standards	sheet	1	2	1	2					
9.5	Incorporate Report of Core Borings	sheet	0	0	0	0					
9.6	Existing Bridge Plans	LS	1	0		0					
9.7	Computation Book and Quantities	LS	1	4		4					
9.8	Cost Estimate	LS	1	4		4					
9.9	Technical Special Provisions	LS	1	0		0					
<b>Structures - Miscellaneous Tasks &amp; Drawings Subtotal</b>					1	10					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	0	0	0	0	0	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
17	Retaining Walls	0								0	
18	Miscellaneous Structures	100									100
<b>Structures Technical Subtotals</b>		100	0	0	0	0	0	0	0	0	100
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
9.10	Field Reviews	LS	1	0	0						
9.11	Technical Meetings	LS	1	0	0						
9.12	Quality Assurance / Quality Control	LS	%	2.5%	3						
9.13	Independent Peer Review	LS	%	0%	0						
9.14	Supervision	LS	%	2.5%	3						
<b>Structures Non-Technical Subtotal</b>					6						
9.15	Coordination	LS	%	2.5%	3						
<b>9. Structures - Miscellaneous Tasks &amp; Drawings, Non-Technical, &amp; Coordination Total</b>					19						

**Project Activity 18: Miscellaneous Structures**

Estimate

Bonita Beach Road Widening from Old US 41 to Lime Street

0

Task No.	Task	Unit	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
<b>Concrete Box Culvert</b>							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA	1	48	1	48	
<b>Strain Poles</b>							
18.3	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.4	Concrete Strain Poles	Initial Config	1	28	1	28	
		EA Add'l Config	1	24		24	
<b>Mast Arms</b>							
18.5	Mast Arms	EA Pole	0	0		0	
<b>Overhead &amp; Cantilever Sign Structures</b>							
18.6	Cantilever Sign Structures	EA	0	0		0	
18.7	Overhead Span Sign Structures	EA	0	0		0	
18.8	Special (longspan) Overhead Span Sign Structures	EA	0	0		0	
18.9	Monotube Overhead Sign Structure	EA	0	0		0	
18.10	Bridge Mounted Signs (Attached to Superstr.)	EA	0	0		0	
<b>High Mast Lighting Fixtures</b>							
18.11	High Mast Lighting Structures	EA	0	0		0	
<b>Sound Barrier Walls (Ground Mount)</b>							
18.12	Horizontal Wall Geometry	EA Wall	0	0		0	
18.13	Vertical Wall Geometry	EA 500 feet of Wall	0	0		0	
18.14	Semi-Standard Drawings	Sheet	0	0		0	
18.15	Control Drawings	Sheet	0	0		0	

**Project Activity 18: Miscellaneous Structures**

18.16	Design for Wall Height Covered by Standards	EA Design	0	0		0	
18.17	Design for Wall Height Not Covered by Standards	EA Design	0	0		0	
18.18	Aesthetic Details	EA	0	0		0	
<b>Special Structures</b>							
18.19	Special Structures	LS	1	0		0	
<b>18. Miscellaneous Structures Total</b>					<b>2</b>	<b>100</b>	

**Project Activity 19: Signing and Pavement Marking Analysis**

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street  
0

Task No	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Reference and Master Design File	LS	1	136	136	45 + 83+8
19.4	Multi Post Sign Support Calculations	EA	0	0	0	
19.5	Sign Panel Design Analysis	EA	0	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	0	0	0	
19.7	Quantities	LS	1	28	28	
19.8	Computation Book	LS	1	0	0	No comp book for S&M
19.9	Cost Estimate	LS	1	8	8	3 estimates
19.10	Technical Special Provisions	LS	1	0	0	
<b>Signing &amp; Pavement Marking Analysis Technical Subtotal</b>					<b>172</b>	
19.11	Field Reviews	LS	1	8	8	
19.12	Technical Meetings	LS	1	8	8	
19.13	Quality Assurance/Quality Control	LS	%	2.5%	4	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	2.5%	4	
<b>Signing &amp; Pavement Marking Analysis Nontechnical Subtotal</b>					<b>24</b>	
19.16	Coordination	LS	%	2.5%	5	
<b>19. Signing &amp; Pavement Marking Analysis Total</b>					<b>201</b>	

**Project Activity 20: Signing and Pavement Marking Plans**

Estimator: Dan Craig

Bonita Beach Road Widening from Old US 41 to Lime Street

0

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	6	1	6	
20.2	Summary of Pay Items-including CES Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	1	12	1	12	
20.4	General Notes / Pay Item Notes		Sheet	1	6	1	6	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet	80	Sheet	5	4	5	20	4900'
20.7	Typical Details		EA	0	0		0	
20.8	Guide Sign Work Sheet (s)		EA	0	0		0	None anticipated
20.9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20.11	Special Service Point Detail		EA	0	0		0	
20.12	Special Details		LS	1	4		4	
20.13	Interim Standards		LS	1	4		4	
<b>Signing &amp; Pavement Marking Plans Technical Subtotal</b>						<b>8</b>	<b>52</b>	
20.14	Quality Assurance/Quality Control		LS	%	2.5%		1	
20.15	Supervision		LS	%	2.5%		1	
<b>20 Signing &amp; Pavement Marking Plans Total</b>						<b>8</b>	<b>54</b>	

### Project Activity 23: Lighting Analysis

Estimator: C. Petterson

Bonita Beach Road Widening from Old US 41 to Lime Street

0

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	1	0	0	
23.2	Lighting Analysis Report	LS	1	32	32	Analyze photometrics of widen typical section and adjust distribution type/lamps as necessary. Coordinate with manufacturer.
23.3	Aeronautical Evaluation	LS	1	0	0	
23.4	Voltage Drop Calculations	LS	1	12	12	Verify voltage drop requirements are met if lamp/ballast type is modified.
23.5	FDEP Coordination & Report	LS	1	0	0	
23.6	Reference and Master Design Files	LS	1	24	24	
23.7	Temporary Lighting	LS	1	0	0	
23.8	Design Documentation	LS	1	8	8	
23.9	Quantities	LS	1	10	10	Five plans sheets at two hours each.
23.10	Cost Estimate	LS	1	6	6	Three submittals at two hours each.
23.11	Technical Special Provisions	LS	1	0	0	
<b>Lighting Analysis Technical Subtotal</b>					<b>92</b>	
23.12	Field Reviews	LS	1	16	16	
23.13	Technical Meetings	LS	1	8	8	
23.14	Quality Assurance/Quality Control	LS	%	2.5%	2	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	2.5%	2	
<b>Lighting Analysis Nontechnical Subtotal</b>					<b>28</b>	
23.17	Coordination	LS	%	2.5%	3	
<b>23. Lighting Analysis Total</b>					<b>123</b>	

**Project Activity 24: Lighting Plans**

Estimator: C. Petterson

Bonita Beach Road Widening from Old US 41 to Lime Street

0

Task No.	Task	Scale	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	1	6	1	6	
24.2	Summary of Pay Items - including CES Input		Sheet	0	0	0	0	
24.3	Tabulation of Quantities		Sheet	1	12	1	12	
24.4	General Notes/Pay Item notes		Sheet	1	6	1	6	
24.5	Pole Data, Legend & Criteria		Sheet	1	16	1	16	Relocation of approximately (35) Decorative Poles
24.6	Service Point Details		Sheet	0	0	0	0	Existing Services Points
24.7	Project Layout		Sheet	1	4	1	4	
24.8	Plan Sheet	1"=80'	Sheet	5	4	5	20	Three Double Plan Sheets
24.9	Special Details		Sheet	1	6	1	6	Relocation Details, Decorative Lighting details
24.10	Temporary Lighting Data & Details		Sheet	0	0	0	0	
24.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	1	0		0	
<b>Lighting Plans Technical Subtotal</b>						<b>11</b>	<b>70</b>	
24.13	Quality Assurance/Quality Control		LS	%	2.5%		2	
24.14	Supervision		LS	%	2.5%		2	
<b>24. Lighting Plans Total</b>							<b>11</b>	<b>74</b>



## Bonita Beach Road Wideing

### Change Order #2

Pitman-Hartenstein Subconsultant Fees  
September 19, 2003

AIM Engineering	\$ 157,049.05
Cella & Associates	\$ 16,163.24
Outside Productions, Inc.	\$ 0.00
Ardaman & Associates	\$ 18,300.00
Tindale-Oliver & Associates	\$ 22,714.00
Passarella & Associates	\$ 23,120.00
<b>Total:</b>	<b>\$237,346.29</b>



**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: N/A

FAP Number: N/A

Project Name: Design and RW Survey Bonita Beach Rd. from W. of Old US41 to E. of Line St.

Date: 9/5/2003

Name of Consultant: AIM Engineering & Surveying, Inc.

WORK ACTIVITY	Hours from Summary Sheet		EMPLOYEE CLASSIFICATION																TOTAL STAFF HOURS RANGE	ON-CALL PERCENT						
	Firm Total Hours	PLS Hours	Staff Class. Location 1	Staff Class. Location 2	Staff Class. Location 3	Staff Class. Location 4	Staff Class. Location 5	Staff Class. Location 6	Staff Class. Location 7	Staff Class. Location 8	Staff Class. Location 9	Staff Class. Location 10	Staff Class. Location 11	Staff Class. Location 12	TOTAL											
			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours		Hours	Hours									
3. Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Environmental Permits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Structures - BDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Structures - Short Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. Structures - Medium Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. Structures - Structural Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. Structures - Segmental Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signing & Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. Signing & Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Survey (Field & Office Support)	433	22	153	283	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29. Mapping	653	30	232	318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTALS</b>	<b>1,101</b>	<b>55</b>	<b>385</b>	<b>651</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Field Survey Estimate

65 4-man crew days

Firm Total

1. This work is estimated on the basis of a review of the information provided and is not intended to be a contract.  
 2. Personnel for this work is estimated on the basis of the information provided and is not intended to be a contract.  
 3. Total Staff Hours (column 1) may not match total hours from summary worksheet (column 1) due to rounding.  
 4. Personnel under "Total Staff Hours Range" (column 1) may be subject to provide a costed range.

**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: N/A

FAP Number: N/A

Project Name: Design and RW Survey Bonita Beach Rd. from W. of Old US41 to E. of Line St.

Date: 9/5/2003

Name of Consultant: AIM Engineering & Surveying, Inc.

Staff Hour Distribution Percentages - Firm Total														
	Hours lost - Summary sheet Firm Total	Senior PLS	PLS	CADD Tech	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
0. Project General Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
1. Roadway Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
2. Roadway Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
3. Drainage Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
5. Environmental Permits	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6. Structure Summary	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Structures - BJR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Short Span Concrete	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Medium Span Concrete	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Structural Steel	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Segmental Concrete	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Arch Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Signaling & Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Survey (Field & Office Support)	430	5.0%	35.0%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
24. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Mapping	853	5.0%	35.0%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
26. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: Design and ROW Survey Bonita Beach Rd. from W. of Old US41 to E. of Lane St.  
 County: Lee  
 FPM: N/A  
 FAP No.: N/A

Consultant Name: Aim Engineering & Surveying, Inc.  
 Consultant No.: N/A

Dates: 9/8/2003

Estimator: Bob L. Poller, PSM

Staff Classification	Total Staff Hours From Summary Form	Sanbar PLS	PLS	CADD Tech	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost by Activity	Average Rate Per Task
3. Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Grading Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Environmental Permits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structure Summary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Structures - BOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Structures - Short Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. Structures - Medium Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. Structures - Structural Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. Structures - Segmented Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Structures - Archable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signaling & Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. Signaling & Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Survey	438	22	153	250	0	0	0	0	0	0	0	0	0	438	\$11,274	\$25.76
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29. Mapping	853	32	202	388	0	0	0	0	0	0	0	0	0	853	\$17,884	\$20.78
30. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Staff Hours</b>	<b>1,101</b>	<b>55</b>	<b>355</b>	<b>651</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,101</b>	<b>\$25,517.82</b>	<b>\$23.17</b>
<b>Total Staff Cost</b>		<b>\$2,024.00</b>	<b>\$17,340.83</b>	<b>\$13,850.53</b>	<b>\$0.00</b>	<b>\$0.30</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$25,517.82</b>	<b>\$23.17</b>

Form Revised 11/00

**SALARY RELATED COSTS:**  
 OVERHEAD: 166%  
 SUBTOTAL:  
 OPERATING MARGIN: 12%  
 FCCM (Facilities Capital Cost Money): 1.50%  
 EXPENSES (Note 2):  
 SUBTOTAL ESTIMATED FEE:  
 Survey (Field) 65  
 Geotechnical Field and Lab Testing  
 SUBTOTAL ESTIMATED FEE:  
 Optional Services  
 GRAND TOTAL ESTIMATED FEE:

\$28,307.89  
 \$47,807.64  
 \$75,945.52  
 \$9,413.46  
 \$425.07  
 \$0.00  
 \$55,414.05  
 \$71,565.89  
 \$0.00  
 \$157,043.05  
 \$0.00  
 \$187,043.05

- Notes:  
 1. This sheet to be used by Subconsultant to calculate its fee.  
 2. Provide backup for the expense calculation in a format acceptable to the Department.

*Est cost survey 105,572.64  
 for maps 157,043.05*



Project Activity 27: Survey

Task No.	Task	Units	No. of Units	1 Person Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.12	Drainage Survey	EA			0.00		0.00		0.00	N/A
27.13	Bridge Survey	EA			0.00		0.00		0.00	N/A
	Minor / Major	EA			0.00		0.00		0.00	N/A
27.14	Channel Survey	EA			0.00		0.00		0.00	N/A
27.15	Pond Site Survey	EA	2.00	2.75	5.50	2.00	11.00	4.50	24.75	Two Ponds
27.16	Mitigation Survey	Mile			0.00		0.00		0.00	N/A
27.17	Artificially Lined Survey	Mile	1.00	1.00	1.00	2.00	2.00	4.00	4.00	Locate Flagged and Approved Wetlands.
27.18	Geotechnical Support	EA	2	1	2.00	2.00	4.00	2.00	4.00	Locate offsite Geotechnical work.
27.19	Sectional / Grant Survey	Mile	4.00	1.75	7.00	2.00	14.00	4.00	28.00	Survey two Sections and Recover two sections
27.20	Subdivision Location	Block	7	1.8	12.60	2.00	25.20	4.00	50.40	Approximately seven block files.
27.21	Maintained RW	Mile			0.00		0.00		0.00	N/A
27.22	Boundary Survey	EA	10.00	2.00	20.00	2.00	40.00	4.00	80.00	Ten Boundary Surveys
27.23	Water Boundary Survey	EA			0.00		0.00		0.00	N/A
27.24	RAW Staking	EA/Mile			0.00		0.00		0.00	N/A
27.25	Parcel / RW Line	Point			0.00		0.00		0.00	N/A
27.26	Line Calling	Mile			0.00		0.00		0.00	N/A
27.27	Work Zone Safety	LS	26.05	0.125	3.25					
27.28	Miscellaneous Surveys	LA			0.00		0.00		0.00	

**Project Activity 27: Survey**

Task No.	Task	Units	No of Units	4 Person Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments	
<b>Survey Subtotal</b>					<b>Crew Days</b>	<b>64.61</b>	<b>Field Support Hours</b>	<b>122.20</b>	<b>Office Support Hours</b>	<b>246.65</b>	
27.29	Supplemental Surveys	LA	64.61	0%	0.00		0.00		0.00		
27.30	Document Research	LA							8.00		
27.31	Field Reviews	LS							16.00		
27.32	Meetings	LS							8.00		
27.33	Quality Assurance / Quality Control	LS						5%	12.33		
27.34	Supervision	LS						5%	20.04		
27.35	Coordination	LS						2%	5.00		
<b>27. Survey Total</b>					<b>Crew Days</b>	<b>65</b>	<b>Field Support Hours</b>	<b>122</b>	<b>Office Support Hours</b>	<b>316</b>	<b>21 Sr PLS, 146 PLS, 25 C/CADD Tech</b>

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AIM ENGINEERING

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**Project Activity 29: Mapping**

Estimator: Bob L. Potter, PSM Rev. 09-05-03

Design and R/W Survey Bonita Beach Rd. from W. of Old US41 to E. of Lime St.  
N/A

Task No.	Task	Units	No. of Hours/Unit		No. of Sheets	Total Hours	Comments
			Units	Unit			
<b>Master CADD File</b>							
29.1	Alignment	Mile	1	2		2	
29.2	Section and 1/4 Section Lines	Section	4	3		12	
29.3	Subdivisions	EA	3	10		30	
29.4	Existing R/W	Mile	1	18		18	
29.5	Topography	Mile	1	3		3	
29.6	Parent Tract Properties/Existing Easements	Parcel	10	5		50	
29.7	Proposed R/W Requirements	Parcel	10	3		30	
29.8	Limits of Construction	Mile	0	0		0	
29.9	Jurisdictional/Agency Lines	Linear Mile	1	6		6	
<b>Sheet Files</b>							
29.10	Control Survey Cover Sheet	Sheet	1	8	1	8	Right of Way Control Survey
29.11	Control Survey Key Sheet	Sheet	1	12	1	12	Right of Way Control Survey
29.12	Control Survey Detail Sheet	Sheet	4	20	4	80	Right of Way Control Survey
29.13	R/W Map Cover Sheet	Sheet	1	4	1	4	Right of Way Map
29.14	R/W Map Key Sheet	Sheet	1	2	1	2	Right of Way Map
29.15	R/W Map Detail Sheet	Sheet	6	18	6	108	Right of Way Map
29.16	Maintenance Map Cover Sheet	Sheet	0	0	0	0	
29.17	Maintenance Map Key Sheet	Sheet	0	0	0	0	
29.18	Maintenance Map Detail Sheet	Sheet	0	0	0	0	
29.19	Reference Point Sheet	Sheet	1	8	1	8	
29.20	Project Network Control Sheet	Sheet	0	0	0	0	
29.21	Table of Ownerships Sheet	Sheet	1	16	1	16	Right of Way Map

**Project Activity 29: Mapping**

Task No.	Task	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
<b>Miscellaneous</b>							
29.22	Parcel Sketches	Parcel	10	5		50	Prepare up to ten Sketch & Descriptions as Needed
29.23	TIITF Sketches	Parcel	0	0		0	
29.24	Other Specific Purpose Survey Map	EA	1	16		16	Specific Purpose Jurisdictional Line Survey
29.25	Boundary Survey(s) Map	EA	10	10		100	Prepare up to ten individual Boundary Surveys
29.26	R/W Monumentation Map	Mile	0	0		0	
29.27	Title Search Map	LS	1	0		0	
29.28	Title Search Report	LS	1	0		0	
29.29	Legal Descriptions	Parcel	5	3		15	
29.30	Final Maps/Plans Comparison	Sheet		0	0	0	
<b>Mapping Technical Subtotal</b>					<b>16</b>	<b>570</b>	
29.31	Field Reviews	LS	1	8		8	
29.32	Technical Meetings	LS	1	16		8	
29.33	Quality Assurance/Quality Control	EA	%	5%		29	
29.34	Supervision	EA	%	5%		29	
<b>Mapping Nontechnical Subtotal</b>						<b>74</b>	
29.35	Coordination	LS	%	3%		19	
<b>29- Mapping Total</b>					<b>16</b>	<b>663</b>	<b>28 St. PLS, 199 PLS, 341 CADD Tech.</b>

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ALM ENGINEERING

010

TITLE	PRJCT MANAGER	SR. PROFESSIONAL	PLANNER	TECHNICIAN	ADMIN	TOTAL
HOURLY RATE (INC. MULT.)	\$110.00	\$92.30	\$78.18	\$67.11	\$57.82	HOURS
TASK NO.	DESCRIPTION					
1.00	PUBLIC INVOLVEMENT PROGRAM					
1.01	Prepare Mailing List			8.0	8.0	24.0
1.02	Preparation & Attendance at Public Information Meeting	12.0	24.0	24.0	8.0	76.0
1.03	Evaluation & Revision of Exhibits Based on Task 1.02, Particip	2.0	6.0	8.0	4.0	25.0
1.04	Preparation & Attendance at Public Hearing	2.0	2.0	12.0	4.0	24.0
1.05	Coordination with City of Bonita Springs City Council	4.0	4.0	6.0	2.0	18.0
	Non-personnel Reimbursable Expenses					
	TOTAL	20.0	36.0	58.0	26.0	167.0

TOTAL
FEE
\$1,624.88
\$6,410.96
\$1,956.78
\$1,842.48
\$1,528.14
\$2,800.00
\$16,163.24



Ardaman & Associates, Inc.

Geotechnical, Environmental and  
Materials Consultants

Ardaman Proposal No. 03-624  
July 7, 2003

**TO:** Mr. Dan Craig, P.E.  
**Pitman-Hartenstein and Associates, Inc.**  
12701 World Plaza Lane, Building 80  
Fort Myers, Florida 33907

**SUBJECT:** Geotechnical Engineering Services  
Bonita Beach Road from Lime Street to Old 41  
Bonita Springs, Lee County, Florida

Gentlemen:

Ardaman & Associates, Inc. is pleased to submit this proposal for geotechnical engineering services for the Bonita Beach Road project from Lime Street to Old 41 in Bonita Springs, Lee County, Florida.

We understand that this project will encompass the widening of Bonita Beach Road from the existing four lanes to six lanes from Lime Street to Old U.S. 41—a distance of about 4,900 feet. Widening will occur within the existing median and south of the existing south edge of pavement. We propose to perform 5-foot deep auger borings on 100-foot centers alternating between new lanes. The box culvert at Oak Creek will require extending. Two SPT borings to 20 feet will be needed to define subsurface conditions. Also, two new ponds will be needed and we propose to perform two SPT borings to 15 feet in each pond area.

We have prepared the attached summary and estimated costs for geotechnical services. Based on our outlined scope of services, we suggest a budget of \$12,800. For the Level I Contamination Screening Evaluation along this corridor, we propose a lump sum cost of \$5,500. We will invoice in accordance with the unit fees for actual services rendered.

Please contact us if you should have any questions about this proposal. Please complete and return a signed copy of the attached Project/Proposal Acceptance form as our authorization to proceed.

Very truly yours,  
**ARDAMAN & ASSOCIATES, INC.**

Gary A. Drew, P.E.  
Branch Manager  
GAD/legs

Attachments:  
Project/Proposal Acceptance Form

Ardaman Proposal No. 03-624  
July 7, 2003

**SUMMARY OF SERVICES AND COSTS**  
**BONITA BEACH ROAD FROM LIME STREET TO OLD 41**

**TASK 3.01 - SOIL BORINGS AND LABORATORY TESTING**

**a.) Soil Auger Borings**

Mobilization of Drilling Crew & Equipment	\$200.00
50 Auger borings to 5 ft. on 100-foot centers alternating between new lanes @\$42.50/ea.	\$2,125.00
8 hrs. Senior Engineering Technician for Utility Clearance @\$60.00/hr.	\$480.00
<b>Subtotal:</b>	<b>\$2,805.00</b>

**b.) Muck Probes (guess 1 day of muck probes)**

Estimate 8 hours @\$60.00/hr.	\$480.00
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**c.) Box Culvert Extension (2 SPT borings to 20 ft.)**

Mobilization of Drilling Crew & Equipment	\$200.00
40 ft. from 0-25 ft. @\$12.00/ft.	\$480.00
2 hrs. Sr. Engineering Technician Time for Utility Clearance @\$60.00/hr.	\$120.00
Permit	\$100.00
<b>Subtotal:</b>	<b>\$900.00</b>

**d.) Stormwater Detention Ponds (2 SPT borings to 15', estimate  
two pond locations)**

60 ft. from 0 to 25 ft. @\$12.00/ft.	\$720.00
2 hrs. Sr. Engineering Technician Time for Utility Clearance @\$60.00/hr.	\$120.00
Permit	\$100.00
<b>Subtotal:</b>	<b>\$940.00</b>

**e.) Laboratory Testing**

8 hrs. Senior Engineering Technician for Soil Classification @\$60.00/hr.	\$480.00
15 Natural Moisture Content @\$10.50/ea.	\$157.50
15 Sieve Analysis @\$37.00/ea.	\$555.00
3 Organic Content @\$28.00/ea.	\$84.00
1 Atterberg Limits @\$85.00/ea.	\$85.00
3 Limerock Bearing Ratio Tests @\$310.00/ea.	\$930.00
<b>Subtotal:</b>	<b>\$2,291.50</b>



Ardaman Proposal No. 03-624  
July 7, 2003

**TASK 3.02 - REPORTS**

4 hrs. Senior Project Engineer @\$114.00/hr.	\$456.00
24 hrs. Project Engineer @\$102.00/hr.	\$2,448.00
3 hrs. Senior Engineering Technician @\$60.00/hr.	\$180.00
12 hrs. Technical Secretary @\$38.00/hr.	\$456.00
40 hrs. Technical Draftsman @\$44.00/hr.	<u>\$1,760.00</u>
<b>Total Reports:</b>	<b>\$5,300.00</b>

**Total: \$12,716.50**

**TASK 3.03 - LEVEL I CONTAMINATION SCREENING EVALUATION**

Perform a Level I Contamination Screening  
Evaluation in accordance with Chapter 22  
Contamination Impact of FDOT PD&E Manual.

**Lump Sum: \$5,500.00**



Tindale-Oliver

and Associates, Inc.

# Task Order

To: Dan Craig, Pitman Hartenstein and Associates, Inc.  
From: Bill Oliver, Tindale-Oliver and Associates, Inc.  
Subject: Bonita Beach Road/Racetrack Road and Bonita Beach Road/Old US-41 Signal Plans  
Date: July 9, 2002

Per the request of Lee County DOT, we understand that signal modification plans are to be prepared for the intersections of Bonita Beach Road with Racetrack Road and Old US-41 to accommodate the widening of Bonita Beach Road to six lanes from Old US-41 to Imperial Street. In response, we have prepared the following scope of services, schedule, and fee.

## Scope of Services

We will prepare up to three signal modification plan submittals (60%, 90%, and Final) for the subject intersections. The design of these intersections will include strain pole and span wire signal support systems and provisions for communication via 12-pair interconnect cable. The structural design of the signal support systems are not included.

We will develop default timings for these intersections compatible with the Lee County signal system.

We will develop cost estimates for the construction of the signal modifications.

## Schedule

We will commence work concurrent with receiving notice to proceed or receiving base intersection drawings, whichever is later, and anticipate providing 60% signalization plans within approximately two to three weeks. Subsequent submittals (i.e., 90% and Final) will be consistent with the schedule for the roadway plans preparation.

## Fee

We will undertake the above professional services for a fee of \$22,714. This fee includes the necessary labor and associated expenses required to complete the services identified above. If any additional services or meetings are required over and above the defined Scope of Services indicated above, they will be undertaken on a cost plus basis at our prevailing hourly rates identified in the Standard Provisions of our original contract.

To confirm your desire to have TOA perform the outlined scope of services, and to acknowledge your agreement with the scope and fee, please sign below as indicated and return this task order to our office at your earliest convenience. If you have any questions, please do not hesitate to telephone.

Sincerely,

TINDALE-OLIVER AND ASSOCIATES, INC.



William E. Oliver, P.E., PTOE  
Senior Vice President

In agreement with outlined services and fee,

PITMAN HARTENSTEIN AND ASSOCIATES, INC.

\_\_\_\_\_  
Dan Craig, P.E.

\_\_\_\_\_  
date



**MAN-HOUR & FEE PROPOSAL**

Description: Bonita Beach Road @ Old US-41 & Racetrack Road Signal Modification Plans  
 Project Phase: Final Design

Tindale-Oliver and Associates

Date: 07/09/03

TASK	DESCRIPTION	CATEGORY & CONTRACT RATE					Expenses	Labor	Total Budget
		PM \$ 145.71	Sr. Eng \$ 89.76	Eng \$ 70.68	Tech \$ 45.57	Sec \$ 40.00			
<b>9.00</b>	<b>Signalization Plans</b>						<b>\$0.00</b>	<b>\$16,723.00</b>	<b>\$16,723.00</b>
9.01	Basic Plans	8	60	0	90	2	\$0.00	\$10,732.00	\$10,732.00
9.02	Detail Plans	8	30	0	45	2	\$0.00	\$5,991.00	\$5,991.00
<b>12.00</b>	<b>Final Bidding and Contract Documents</b>						<b>\$0.00</b>	<b>\$5,991.00</b>	<b>\$5,991.00</b>
12.02	Final Signalization	8	30	0	45	2	\$0.00	\$5,991.00	\$5,991.00
<b>TOTAL TOA MAN-HOURS</b>		<b>24</b>	<b>120</b>	<b>0</b>	<b>180</b>	<b>6</b>			
								<b>TOA TOTAL FEES =</b>	<b>\$22,714.00</b>

J:\22803-BBR\_Design\Admin\Additional Signal Budget.xls]OLD41 & RT

**PASSARELLA AND ASSOCIATES, INC.**

**Consulting Ecologists**

9110 College Pointe Court  
 Fort Myers, FL 33919  
 Phone (239) 274-0067  
 Fax (239) 274-0069

**TO:** Dan Craig  
**FROM:** Ken Passarella *KCP*  
**DATE:** July 15, 2003  
 Revised September 17, 2003  
**RE:** Bonita Beach Road Widening  
 Lime Street to Old U.S. 41  
 Project No. 01PHA731

Per your recent conversation with Andy Woodruff, the following is a list of tasks and estimated man hours for the Bonita Beach Road Widening project from Lime Street to Old U.S. 41:

Task 1.0 - Vegetation

	Estimated Hours	Hourly Rate	Cost
Principal	0 hrs	\$110.00/hr.	\$ 0.00
Senior Ecologist	16 hrs	\$ 90.00/hr.	\$1,440.00
Ecologist	0 hrs	\$ 80.00/hr.	\$ 0.00
Environmental Technician	0 hrs	\$ 70.00/hr.	\$ 0.00
AutoCAD	32 hrs	\$ 60.00/hr.	\$1,920.00
Administrative	4 hrs	\$ 30.00/hr.	\$ 120.00

Sub-total Task 1.0: \$3,480.00

Task 2.0 - Wildlife

	Estimated Hours	Hourly Rate	Cost
Principal	0 hrs	\$110.00/hr.	\$ 0.00
Senior Ecologist	16 hrs	\$ 90.00/hr.	\$1,440.00
Ecologist	0 hrs	\$ 80.00/hr.	\$ 0.00
Environmental Technician	0 hrs	\$ 70.00/hr.	\$ 0.00
AutoCAD	6 hrs	\$ 60.00/hr.	\$ 360.00
Administrative	12 hrs	\$ 30.00/hr.	\$ 360.00

Sub-total Task 2.0: \$2,160.00

Mr. Dan Craig  
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Task 3.0 - Soils

	Estimated <u>Hours</u>	Hourly <u>Rate</u>	<u>Cost</u>
Principal	0 hrs	\$110.00/hr.	\$ 0.00
Senior Ecologist	4 hrs	\$ 90.00/hr.	\$360.00
Ecologist	0 hrs	\$ 80.00/hr.	\$ 0.00
Environmental Technician	0 hrs	\$ 70.00/hr.	\$ 0.00
AutoCAD	4 hrs	\$ 60.00/hr.	\$240.00
Administrative	0 hrs	\$ 30.00/hr.	\$ 0.00

Sub-total Task 3.0: \$600.00

Task 4.0 - Wetlands

	Estimated <u>Hours</u>	Hourly <u>Rate</u>	<u>Cost</u>
Principal	6 hrs	\$110.00/hr.	\$ 660.00
Senior Ecologist	24 hrs	\$ 90.00/hr.	\$2,160.00
Ecologist	0 hrs	\$ 80.00/hr.	\$ 0.00
Environmental Technician	0 hrs	\$ 70.00/hr.	\$ 0.00
AutoCAD	16 hrs	\$ 60.00/hr.	\$ 960.00
Administrative	6 hrs	\$ 30.00/hr.	\$ 180.00

Sub-total Task 4.0: \$3,960.00

Task 5.0 - Pursuit of Permit

	Estimated <u>Hours</u>	Hourly <u>Rate</u>	<u>Cost</u>
Principal	24 hrs	\$110.00/hr.	\$2,640.00
Senior Ecologist	56 hrs	\$ 90.00/hr.	\$5,040.00
Ecologist	10 hrs	\$ 80.00/hr.	\$ 800.00
Environmental Technician	0 hrs	\$ 70.00/hr.	\$ 0.00
AutoCAD	60 hrs	\$ 60.00/hr.	\$3,600.00
Administrative	28 hrs	\$ 30.00/hr.	\$ 840.00

Sub-total Task 5.0: \$12,920.00

Mr. Dan Craig  
July 15, 2003  
September 17, 2003  
Page 3

The total amount for Tasks 1.0 through 5.0 is twenty three thousand one hundred twenty dollars (\$23,120.00).

Should you have any questions, please do not hesitate to contact me.

AW/kf