

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply  
Proposal Number: BC-03-17-11-25  
Opening Date: Thursday, March 17, 2011 at 2:00 PM

**PROPOSAL RESPONSE COVER SHEET**

**THIS PAGE IS TO BE COMPLETED AND INCLUDED AS THE COVER SHEET FOR YOUR RESPONSE TO THE REQUEST FOR PROPOSALS.**

The Board of County Commissioners, Leon County, reserves the right to accept or reject any and/or all bids in the best interest of Leon County.

Keith M. Roberts, Purchasing Director

John Dailey, Chairman  
Leon County Board of County Commissioners

This bid response is submitted by the below named firm/individual by the undersigned authorized representative.

Diversified Design & Drafting Services, Inc.

(Firm Name)

BY



(Authorized Representative)

Pamela W. Nobles, PSM

(Printed or Typed Name)

ADDRESS

2374 Capital Circle NE

CITY, STATE, ZIP

Tallahassee, Florida 32308

TELEPHONE

(850) 385-1133

FAX

(850) 385-1236

**ADDENDA ACKNOWLEDGMENTS: (IF APPLICABLE)**

Addendum #1 dated 3-3-11 Initials PN Addendum #3 dated \_\_\_\_\_ Initials \_\_\_\_\_

Addendum #2 dated 3-8-11 Initials PN Addendum #4 dated \_\_\_\_\_ Initials \_\_\_\_\_

**PLEASE MARK WHICH CATEGORIES FOR WHICH YOU WISH TO BE CONSIDERED:**

- |  |  |
|--|--|
| <input type="checkbox"/> a. Stormwater Engineering                           | <input checked="" type="checkbox"/> h. Surveying                         |
| <input type="checkbox"/> b. Roadway Design                                   | <input type="checkbox"/> i. Subdivision and Site Development Engineering |
| <input type="checkbox"/> c. Traffic and Intersection Engineering             | <input type="checkbox"/> j. Parks and Recreational Facility Engineering  |
| <input type="checkbox"/> d. Structural Engineering                           | <input type="checkbox"/> k. Utility Engineering                          |
| <input type="checkbox"/> e. Geotechnical Services                            |  |
| <input type="checkbox"/> f. Environmental Support Services                   |  |
| <input type="checkbox"/> g. Construction Engineering and Inspection Services |  |



2374 Capital Circle NE Tallahassee, FL 32308  
PHONE: (850) 385-1133 FAX: (850) 385-1236

March 17, 2011

Leon County  
Board of County Commissioners  
301 South Monroe Street  
Tallahassee, Florida 32301

RE: RFP for Civil Engineering Services, Continuing Supply  
Proposal Number BC-03-17-11-25

Dear County Commissioners:

It is my pleasure to present the following information in response to the above referenced Request for Proposals for the work category of Surveying under your Civil Engineering Services, Continuing Supply Contract.

A. CONTRACTOR INFORMATION

1. Diversified Design & Drafting Services, Inc.  
2374 Capital Circle NE, Tallahassee, Florida 32308  
(850) 385-1133  
Pamela W. Nobles, PSM  
e-mail: [pam@ddsinc.com](mailto:pam@ddsinc.com)
2. Work will be performed at the address above.

B. EXECUTIVE SUMMARY

Diversified Design & Drafting Services, Inc. (3DS) is a comprehensive survey services firm that is both locally and woman owned. 3DS is celebrating 20 years of providing support services to engineering companies in CADD production work as well as in software training. As 3DS evolved, we began providing court room exhibits, plotting services and personnel for engineering firms in need of employees with specific software package expertise. In 1998, 3DS began offering a full array of professional surveying services specializing in full topographic design surveys. As our survey department has grown, we have added to its collection of services to include photogrammetry, LiDAR processing, mobile LiDAR and high definition scanning.

Historically providing FDOT surveys for design professionals, 3DS also has extensive experience in geodetic control surveys, boundary surveys, construction layout, as-built surveys, CEI surveys, right-of-way surveys and wetland jurisdiction surveys. One of the things that makes 3DS unique is that many of these surveys can be performed either traditionally, through photogrammetric methods, through high definition laser scanning or mobile LiDAR.

In 2003, 3DS added the full accompaniment of photogrammetric abilities to be able to provide accurate, cost-effective surveys to better serve our clients. Our photogrammetry department has



**Baker**



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performed many topographic surveys for design of roadways in high density, high traffic areas in and around Atlanta, Georgia. In 2005, 3DS performed the first ever LAMP (low altitude mapping photography) survey for the expansion of the roadway to include high occupancy vehicle lanes on I-20 and I-285 in Atlanta. Using LAMP allowed 3DS to produce accuracies between 0.07' to 0.05' while saving time and keeping survey personnel out of a congested roadway.

Always thinking ahead, 3DS continuously looks for revolutionary, ground-breaking technology to better serve our client's project needs. While specializing in producing topographic maps from various data sources, we analyze each project individually to determine which method would be most effective; be it traditional survey, terrestrial LiDAR, aerial photogrammetry, low altitude photogrammetry or a combination of these methods. 3DS is dedicated to finding the right solution for each individual project and client.

In 2008, 3DS added a complete complement of TerraSolid software, which gives us the ability to process LiDAR data to produce topographic maps over large-scale areas, provide airports with approach obstruction surveys, as well differentiate ground cover, bare earth and other various land/use, land/cover categories.

3DS has performed many surveys throughout Leon County over the years. This work includes the Leon County/City of Tallahassee Infrastructure Inventory Mapping, Tallahassee Airport, Thomas P. Smith Wastewater Treatment Facility, Capital Cascades Parks, several different portions of Capital Circle, I-10, North Monroe Street, Killearn Lakes Sewer Lines, and many, many others. Our office is conveniently located on Capital Circle NE with easy access to all of Leon County's major arteries. This enables 3DS to respond to the County's needs in an efficient and timely manner reducing transportation costs and response time.

3DS has the *in-house capabilities to utilize high definition scanning, LiDAR, photogrammetry and traditional survey solutions.* This allows 3DS to match the method of data collection to Leon County's and the project's needs enabling us to economize in both dollars and time.

In short, 3DS has been operating in Leon County for the past 20 years and is a Woman-Owned Business. 3DS has completed a large number of projects in Leon County successfully. We are sure that you will find 3DS well qualified to respond to all of the County's survey needs.

I would like to thank you in advance for your consideration of our proposal for this contract. We look forward to working with Leon County.

Sincerely,  
DIVERSIFIED DESIGN & DRAFTING SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Pamela W. Nobles', written over a white background.

Pamela W. Nobles, PSM  
President



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**AFFIDAVIT CERTIFICATION  
IMMIGRATION LAWS**

Leon County will not intentionally award County contracts to any contractor who knowingly employs unauthorized alien workers, constituting a violation of the employment provisions contained in 8 U.S.C. Section 1324 A(e) {Section 274a(e) of the Immigration and Nationality Act ("INA").

Leon County may consider the employment by any Contractor of Unauthorized Aliens a violation of Section 274A(e) of the INA. **Such violation by the Recipient of the employment provision contained in Section 274A(e) of the INA shall be ground for unilateral cancellation of the contract by Leon County.**

BIDDER ATTESTS THAT THEY ARE FULLY COMPLIANT WITH ALL APPLICABLE IMMIGRATION LAWS (SPECIFICALLY TO THE 1986 IMMIGRATION ACT AND SUBSEQUENT AMENDMENTS).

Company Name: Diversified Design & Drafting Services, Inc.

Signature: \_\_\_\_\_

Title: President

STATE OF Florida  
COUNTY OF Leon

Sworn to and subscribed before me this 17<sup>th</sup> day of March, 2011.

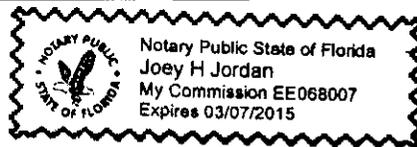
Personally known

OR Produced identification

Notary Public - State of Florida

My commission expires: 3-7-2015

(Type of identification)



Printed, typed, or stamped  
commissioned name of notary public

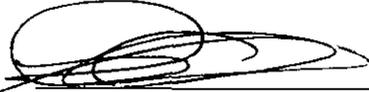
The signee of this Affidavit guarantees, as evidenced by the sworn affidavit required herein, the truth and accuracy of this affidavit to interrogatories hereinafter made.

**LEON COUNTY RESERVES THE RIGHT TO REQUEST SUPPORTING DOCUMENTATION,  
AS EVIDENCE OF SERVICES PROVIDED, AT ANY TIME.**

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**EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT**

1. The contractors and all subcontractors hereby agree to a commitment to the principles and practices of equal opportunity in employment and to comply with the letter and spirit of federal, state, and local laws and regulations prohibiting discrimination based on race, color, religion, national region, sex, age, handicap, marital status, and political affiliation or belief.
2. The contractor agrees to comply with Executive Order 11246, as amended, and to comply with specific affirmative action obligations contained therein.

Signed: 

Title:

President

Firm:

Diversified Design & Drafting Services, Inc.

## INSURANCE CERTIFICATION FORM

To indicate that Bidder/Respondent understands and is able to comply with the required insurance, as stated in the bid/RFP document, Bidder/Respondent shall submit this completed Insurance Certification Form, signed by the company Risk Manager or authorized manager with risk authority.

- A. Is/are the insurer(s) to be used for all required insurance (except Workers' Compensation) listed by Best with a rating of no less than A:VII?

YES     NO

Commercial General  
Liability:

Indicate Best Rating:

  A  

Indicate Best Financial Classification:

  XV  

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Business Auto:

Indicate Best Rating:

  A++  

Indicate Best Financial Classification:

  XV  

- 
1. Is the insurer to be used for Workers' Compensation insurance listed by Best with a rating of no less than A:VII?

YES     NO

Indicate Best Rating:

  A  

Indicate Best Financial Classification:

  XV  

If answer is NO, provide name and address of insurer:

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2. Is the Respondent able to obtain insurance in the following limits (next page) for this professional services agreement?

YES     NO

Insurance will be placed with Florida admitted insurers unless otherwise accepted by Leon County. Insurers will have A.M. Best ratings of no less than A:VII unless otherwise accepted by Leon County.

### Required Coverage and Limits

The required types and limits of coverage for this bid/request for proposals are contained within the solicitation package. Be sure to carefully review and ascertain that bidder/proposer either has coverage or will place coverage at these or higher levels.

### Required Policy Endorsements and Documentation

Certificate of Insurance will be provided evidencing placement of each insurance policy responding to requirements of the contract.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the County. At the option of the County, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the County, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

Endorsements to insurance policies will be provided as follows:

Additional insured (Leon County, Florida, its Officers, employees and volunteers) -  
General Liability & Automobile Liability

Primary and not contributing coverage-  
General Liability & Automobile Liability

Waiver of Subrogation (Leon County, Florida, its officers, employees and volunteers)- General  
Liability, Automobile Liability, Workers' Compensation and Employer's Liability

Thirty days advance written notice of cancellation to County - General Liability,  
Automobile Liability, Worker's Compensation & Employer's Liability.

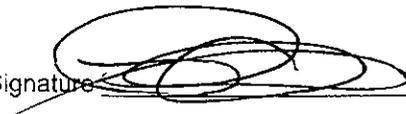
Professional Liability Policy Declaration sheet as well as claims procedures for each applicable policy to be provided

Please mark the appropriate box:

Coverage is in place  Coverage will be placed, without exception

The undersigned declares under penalty of perjury that all of the above insurer information is true and correct.

Name Pamela W. Nobles  
Typed or Printed

Signature 

Date March 14, 2011

Title President  
(Company Risk Manager or Manager with Risk Authority)

**LOCAL VENDOR CERTIFICATION**

The undersigned, as a duly authorized representative of the vendor listed herein, certifies to the best of his/her knowledge and belief, that the vendor meets the definition of a "Local Business." For purposes of this section, "local business" shall mean a business which:

- a) Has had a fixed office or distribution point located in and having a street address within Leon, Gadsden, Wakulla, or Jefferson County for at least six (6) months immediately prior to the issuance of the request for competitive bids or request for proposals by the County; and
- b) Holds any business license required by Leon County (or one of the other local counties), and, if applicable, the City of Tallahassee; and
- c) Is the principal offeror who is a single offeror; a business which is the prime contractor and not a subcontractor; or a partner or joint venturer submitting an offer in conjunction with other businesses.

Please complete the following in support of the self-certification and submit copies of your County and City business licenses. Failure to provide the information requested will result in denial of certification as a local business.

Business Name: Diversified Design & Drafting Services, Inc.	
Current Local Address: 2374 Capital Circle NE Tallahassee, Florida 32308	Phone: (850) 385-1133  Fax: (850) 385-1236
If the above address has been for less than six months, please provide the prior address.	
Length of time at this address:	
Home Office Address: Same as above	Phone:  Fax:

[Signature] \_\_\_\_\_ March 14, 2011 \_\_\_\_\_  
Signature of Authorized Representative Date

STATE OF Florida  
COUNTY OF Leon

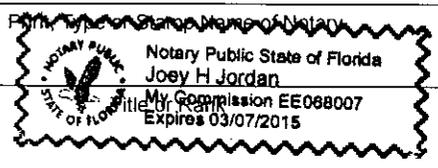
The foregoing instrument was acknowledged before me this 14<sup>th</sup> day of March, 2011.

By Pamela W. Nobles, President of Diversified Design + Drafting  
(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

a Florida corporation, on behalf of the corporation. He/she is personally known to me  
(State or place of incorporation)

or has produced \_\_\_\_\_ as identification  
(type of identification) [Signature]  
Signature of Notary

**Return Completed form with supporting documents to:**  
  
Leon County Purchasing Division  
1800-3 Blair Stone Road  
Tallahassee, Florida 32308



Serial Number, If Any

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**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,  
And OTHER RESPONSIBILITY MATTERS  
PRIMARY COVERED TRANSACTIONS**

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
  - a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - b) Have not within a three-year period preceding this been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of these offenses enumerated in paragraph (1)(b) of this certification; and
  - d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.
3. No subcontract will be issued for this project to any party which is debarred or suspended from eligibility to receive federally funded contracts.

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
President  
Title

\_\_\_\_\_  
Diversified Design & Drafting Services, Inc.  
Contractor/Firm

\_\_\_\_\_  
2374 Capital Circle NE, Tallahassee, Florida 32308  
Address



2374 Capital Circle NE Tallahassee, FL 32308  
PHONE: (850) 385-1133 FAX: (850) 385-1236

A. ABILITY OF PROFESSIONAL PERSONNEL

- 1. We will dedicate two licensed Florida Professional Surveyors and Mappers working in our Tallahassee office to this project. Both Pamela W. Nobles and Jason D. Hill will be available on short notice to perform tasks that the County requires. 3DS also has a subcontract agreement with Michael Baker, Inc. (Baker) to provide additional support services as needed. Baker can provide two additional licensed professionals, as well as a mobile LiDAR unit for large amounts of data acquisition in short amounts of time.

**Pamela W. Nobles, PSM**  
*President*

Ms. Nobles has been involved in surveying and mapping since 1991 and is the owner of Diversified Design & Drafting Services, Inc. (3DS), which specializes in finished topographic maps for use in engineering design. Ms. Nobles has been with 3DS since 1999 and has worked for City of Tallahassee and the Florida Department of Environmental Protection previous to that. Ms. Nobles oversees all aspects of both Surveying and Photogrammetry operations by serving as Project Manager and Principle-in-Charge for both divisions as well as Business Manager for the Company. She also spends considerable time contributing and promoting the profession of Surveying and Mapping. She has served on the Florida Board of Professional Surveyors and Mappers, serving three years as chair. With this tenure, she helped institute and write a photogrammetric exam for licensure in the State of Florida. Ms. Nobles also participates on the National Council of Examiners of Engineers and Surveyors Exam Committee for Professional Surveyors as a Subject Matter Expert.

**EDUCATION**

University of Florida, Gainesville, Florida.  
Surveying and Mapping BS

**PROFESSIONAL LICENSES**

Professional Surveyor and Mapper, State of Florida, 1996, Certification No. 5645

Professional Land Surveyor, State of Alabama, 2006, Certification No. 27945-S

Professional Surveyor Photogrammetrist, Commonwealth of Virginia, Certification No. 118

**RELEVANT PROJECT EXPERIENCE**

**Capital Circle NW/SW, 2006 – 2011, H.W. Lochner Engineering, Inc.**  
Tallahassee, Florida

Is serving as *Project Manager* for this full topographic design survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet south of Tennessee Street to Orange Avenue in Leon County, Florida. This project also includes wetlands and boundary surveys for several pond sites along the corridor. (Fee \$926,652)





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**Leon County GPS/LIDAR Mapping, 2005 to 2009, Merrick Engineering Co.**  
Tallahassee, Florida.

*Principle-In-Charge* of this complete Blue Booking project involving GPS control network, target control and mapping check points for LIDAR mapping. This project create the initial database for the entire GIS system for Leon County. This system included planimetrics, contours and parcel mapping. 3DS has held the contract along with Merrick, Inc. for all updates performed since the initial program began. (Fee \$229,094)

**Hurst Hammock, 2008, Natchez & Associates, Inc.**

Cantonment, Florida

Served as *Project Manager* for which she oversaw the production of color infrared photography to identify foliage and swampy areas. 3DS also provided horizontal and vertical geodetic control throughout the 2700 acre project area to support orthophoto production. (Fee \$13,500)

**I – 10 Design Survey, Leon County, 2003, Carter-Burgess**

Tallahassee, Florida

Served as *Project Manager* for this full topographic design survey for the expansion of interstate from 4 lanes to 6 lanes. This project involved two survey firms and an aerial photogrammetry firm for which all data was merged into one database for delivery to FDOT. The 3DS team completed this nine mile project on an accelerated schedule of just six months from Notice to Proceed to delivery. (Fee \$154,535)

**I-20/I-285 High Occupancy Vehicle Lanes, 2004, Earthtech**

Fulton and Douglas Counties, Georgia

Served as *Principle-in-Charge* for this topographic aerial survey for the addition of a High Occupancy Vehicle lane along the interstate. (Fee \$193,743)

**Panama City Airport Authority Mitigation Project, 2008 – 2011, St. Joe Company**

Panama City, Florida

Currently serving as *Principle-in-Charge* for this project for which 3DS is producing color infrared mosaic photography to determine and document the health of various trees and foliage. 3DS is also providing horizontal and vertical geodetic control throughout the project area to support orthophoto production. On a bi-annual basis 3DS is providing oblique flights and photography of the project area as well. (Fee \$97,400)

**I-85 and I-75, 2005, J.B. Trimble**

Newton County, Georgia

Served as *Principle-in-Charge* and governed quality assurance practices for both of these topographic design aerial surveys, for which we provided 1 foot contours and 1" = 50' mapping for 15 miles of I-85 and 10 miles of I-75. (Fee \$98,688)



**Baker**



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**Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 1, 2006,  
Woolpert, Inc.**

Tallahassee, Florida

Served as *Principle-in-Charge* for this project which consisted of four pilot areas. Each area required location, identification and mapping of stormwater infrastructure. The purpose of this project was to assess the costs approach and resources needed to complete a city-wide stormwater infrastructure inventory mapping of the City of Tallahassee's stormwater WFR. (Fee \$48,200)

**Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, 2011,  
Woolpert, Inc.**

Tallahassee, Florida

Currently serving as *Principle-in-Charge* for this project consisting of sixteen areas covering twenty-five square miles, each of which requires location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR. (Fee \$441,876)

**PROFESSIONAL ACHIEVEMENTS**

*Board Member:* Board of Professional Surveyors and Mappers Department of Agriculture and Consumer Services, Oct 2009 – Present.

*Board Member:* Board of Professional Surveyors and Mappers Department of Business and Professional Regulation. 2000-2008. Board Chair, 2001 – 2005.

Board Chair 2002 – 2005

Vice Chair – 2001

*Member:* Committee for Examinations for Professional Surveyors, National Council of Examiners for Engineering and Surveying. 2001 – Present.

*Member:* Exam Committee, Florida Board of Professional Surveyors and Mappers, 2001 – Present.

*Member:* CPC Task Force National Council of Examiners for Engineering and Surveying 2005 - 2006

*Member:* Special Committee on PAKS – Land Surveying, National Council of Examiners for Engineering and Surveying, 2002-2003.

*Member:* Management Association for Private Photogrammetric Surveyors. Since 2005.

*President:* Florida Surveying and Mapping Society, Northwest Chapter. 2000

*Member:* Florida Surveying and Mapping Society. Since 1990.

*Member:* Florida National Society of Professional Surveyors. Since 1998.

*Secretary:* American Congress on Surveying and Mapping/Florida Society of Professional Land Surveyors, Student Chapter. 1990-1991.



**Baker**



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**Jason D. Hill, PSM**  
*Survey Project Manager*

Jason Hill has 23 years of experience in surveying and mapping, working primarily on Florida Department of Transportation projects for the past 15 years. Mr. Hill has worked for 3DS since 2009, previous to that he worked with McKim & Creed and Aim Engineering. His experience encompasses: design surveys; right-of-way surveys; horizontal and vertical control surveys, topographic surveys; including utilization of electronic field book; jurisdictional delineation; and geodetic and construction surveying. As a Project Manager he has the responsibility of managing multiple projects, ensuring detailed attention and quality assurance to each one. His duties include: client contact; scheduling, manpower allocation; quality control and project budgets. Mr. Hill has worked with various city and county governments, the Florida Department of Transportation, and a variety of private sector clients. Mr. Hill specializes in the overall supervision and production of FDOT topographic design surveys.

#### RELEVANT PROJECT EXPERIENCE

**SR 61/US 319 from Timberwolf Crossing to the Georgia State Line, Leon County, Florida, 2010:**

Jason was the Project Manager for this project for which 3DS provided typical 3R project surveying services. These tasks included 2D planimetrics using photogrammetry. *FPN 42460913201 (Fee \$133,000)*

**Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, Tallahassee, Florida, 2011:** Mr. Hill is the Project Manager for this project which consists of sixteen areas covering twenty-five square miles, which require location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR. (Fee \$441,876)

**Bellview Avenue over Turner's Creek Bridge Replacement (Bridge No. 484073) and Bauer Road over Unnamed Branch Bridge Replacement (Bridge No. 484078), Escambia County, 2009:** Jason served as Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included a topographic survey and preparing a Control Survey map. *FPN 42131113201 & 42289513201 (Fee \$95,471)*

**SR10 (US90) Design Resurfacing, Walton County, Florida, 2010:** Jason was the Project Manager for this project for which 3DS provided typical 3R project surveying services. Tasks included 2D planimetrics using photogrammetry. *FPN 42461313201 (Fee \$101,010)*

**SR30A (US98/Back Beach Rd) from Heather Dr to West of SR30 (US98/Front Beach Rd), Bay County, Florida, 2010:** Mr. Hill was the Project Manager for this project for which 3DS provided typical 3R project surveying services. These services included a 3D topographic survey. *FPN 41931213201 (Fee \$120,212)*



**Baker**



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**City of Tallahassee/Blueprint 2000 Capital Circle NW/SW, Leon County, Florida, 2011:** Mr. Hill provided surveying services for the full topographic design survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet south of Tennessee Street to Orange Avenue in Leon County, Florida. This project also includes wetlands and boundary surveys for several pond sites along the corridor. (Fee \$926,652)

**FDOT District Three, Group 10-7 Bridge Replacements, Leon County, Florida, 2010:** Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacements. These services included a topographic survey and preparing a Control Survey map. FPN 41349113201 & 42450913201 (Fee \$64,980)

**SR8 (I-10) Resurfacing from the Walton County Line to the West end of the Choctawhatchee River Bridge, Holmes County, Florida, 2010:** Jason was the Project Manager for this project for which 3DS provided typical 3R project surveying services. These services included a 2D topographic survey including drainage structures and cross sections. FPN 42527723201 (Fee \$72,540)

**SR8 (I-10) from East of CR183 Overpass to Holmes County Line, Walton County, Florida, 2009:** Jason was the Project Manager for this project for which 3DS provided typical surveying services for this 3R project. These services included a 2D topographic survey including drainage structures and cross sections. FPN 42527713201 (Fee \$28,810)

**SR291 (Davis Street) from Wright Street to Hart Drive, Escambia County, Florida, 2010:** Jason was the Project Manager for this project which included boundary location for the preparation of a control survey. FPN 41537813201 (Fee \$36,355)

**Resurfacing, Rehabilitation and Restoration of SR369 from Wakulla County Line to South of SR61, Leon County, Florida, 2009 –** Mr. Hill was the Project Manager for this project for which we provided full design survey and Right of Way Control Survey for multilane reconstruction and property acquisition. Services included preparation of Right of Way Control Survey maps and Formal Jurisdictional Wetland Determination Maps. FPN 21988123201 (Fee \$39,400)

**SR20 (Blountstown Highway) from the Ochlockonee River Bridge to SR263 (Capital Circle), Leon County, Florida, 2010 –** As Project Manager for this project, Jason provided typical surveying services for this 3R project. These services included 3R cross-section and data collection of utilities, drainage structures and 2D planimetrics. FPN 42306713201 (Fee \$122,555)

#### PROFESSIONAL ACHIEVEMENTS

Professional Surveyor and Mapper, State of Florida, Certification No. 6008



**Baker**



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**Stephen J. Clancy, PSM, GISP**  
*Project Manager*  
Michael Baker, Jr., Inc.

Mr. Clancy is a Florida licensed Professional Surveyor and Mapper, as well as a Certified GIS Professional with an extensive background in LiDAR, GPS and traditional surveying and mapping. In addition to serving in various capacities in surveying and GIS related activities, Mr. Clancy also has 5 years of University teaching experience in the fields of Geomatics, Photogrammetry and GIS. Mr. Clancy has a diverse and broad background in the Geospatial Sciences and most recently has been charged with the management of the operation of Baker's Mobile LiDAR system.

#### EDUCATION

University of Florida, Gainesville, Florida.  
Geomatics, B.S.  
Graduate Coursework, Geomatics, Interdisciplinary GIS

#### PROFESSIONAL LICENSES

Professional Surveyor and Mapper, State of Florida, Certification No. 6450

#### RELEVANT EXPERIENCE

##### **East Haven Subdivision, 2009, Internal Client, Water Resources**

Houston, Texas

*Project Supervisor/Data Collection.* Responsible for managing and collecting Mobile LiDAR data in a 1 square mile subdivision in Houston. Performed static and rapid static collection and processing to develop control framework for constraining collection. Processed trajectory of vehicle and reviewed positional accuracies in support of LiDAR processing. (Fee \$50,000)

##### **Florida Forever Ownership Mapping, 2009, Florida Department of Environmental Protection** Statewide, Florida

*Principle-in-Charge/Database Architect/Lead Mapper.* Developed parcel and ownership database of lands within Florida Forever Project Boundaries. Compiled project boundaries and other ancillary data for use in creating maps for Project Teams review. Developed document management system for storing and retrieving information for due diligence in the land acquisition process including deeds, plats, surveys, appraisals and site photographs. Created ArcIMS website on .NET framework for querying and displaying parcel ownership information. Developed seamless Image Catalog of high resolution photography for use in site assessment. (Fee \$300,00)



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**Florida Forever Triage, 2009, Florida Department of Environmental Protection**  
Statewide, Florida

*Principle-in-Charge/Database Architect.* Developed a statewide land acquisition analysis model used by the Division of State Lands to prioritize land acquisition decisions in the Florida Forever Land Conservation Program. The model includes 30 variables to compare and prioritize land use across the State's entire acquisition portfolio. The analysis is automated using the Model Builder in ArcGIS. (Fee \$150,000)

**Land Records Modernization, 2008, Florida Department of Environmental Protection**  
Statewide, Florida

*Principle-in-Charge/Project Manager.* Performed coordinate geometry on thousands of land records of the Board of Trustees of the Internal Improvement Trust Fund (Owner of record of State Lands – Governor and Cabinet) which included acquisitions, dispositions, easements, leases and other document types. Obtained any references mentioned in descriptions which included rights-of-way, deeds, plats, coordinates and obscure references. (Fee \$250,000)

**Brevard Coastal Scrub Ecosystem, 2002, Florida Department of Environmental Protection**  
Brevard County, Florida

*Project Manager.* Responsibilities included GPS control network planning and execution of static GPS utilizing 10 simultaneous field crews, GLO retracement surveying of 12 PLSS sections and location of all fixed improvements. Prepared ownership database of 6,000 parcels in project boundary that included parcel details and title work. Wrote custom Visual Basic applications to streamline mapping process including automatic labeling, table creation and area calculations. Created document management system utilizing GIS to compile deeds, descriptions, easements, plats and other pertinent documents. (Fee \$360,000)



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**Aaron J. Morris, GISP**  
*GIT Program Manager*  
Michael Baker, Jr., Inc.

Mr. Morris is a Geographic Information Technology (GIT) Program Manager, Business Line Manager for Baker's Mobile LiDAR (Light Detection and Ranging), and GPS Specialist with an extensive background in GPS collection, source document research, and linear referencing systems. In addition to managing projects and staffing logistics across several U.S. States, Mr. Morris also manages Baker's GeoLink Technical Support and GPS Software Engineering Departments and is responsible for the design, development, deployment and training seminars for GeoLink®, GPS, and GIS. His expertise in the standardization of field data is unparalleled and his willingness to work in any office at anytime has strengthened Baker's GIS/GPS capabilities over the past 13 years. He also acts as the primary technical lead for GPS mapping and E-911 projects for the company, and provides consulting expertise on various GPS/GIT and LiDAR projects for local, state, and federal governments.

**EDUCATION**

Frostburg State University  
Geography and Urban Planning, B.S.  
University of Pittsburgh  
Project Management, Master's Certificate

**PROFESSIONAL LICENSES**

Certified GIS Professional, 2008

**RELEVANT EXPERIENCE**

**Statewide Roadway Inventory, 2009, Mississippi Department of Transportation**

Statewide, Mississippi  
*Project Manager.* Baker performed and managed the collection of roadway feature data along approximately 30,000 miles of designated highway and other classified roads within the state of Mississippi. The field inventory process was accomplished via custom Global Positioning System-based video collection technology that facilitated the capture of digital images along each roadway, while simultaneously referencing the images to their associated real-world location, to enable viewing by both GIS-based and web-based users. (Fee: 3,086,000)

**George County Roadway Imaging, 2009, Brunini, Grantham, Grower & Hewes, PLLC**

Jackson, Mississippi  
*Project Manager.* Baker performed and managed the collection of roadway feature data along approximately 60 miles of designated roadway within George County, MS. The field inventory process was accomplished via custom Global Positioning System-based video collection technology that facilitated the capture of digital images along each roadway, while simultaneously referencing the images to their associated real-world location, to enable viewing by end-users through application. (Fee: \$51,000)

**GIS Conversion and GPS Mapping System, 2008, Covington County E-911**

Collins, Mississippi  
*Project Manager.* Baker was contracted by the Covington County, MS 911 Department to update/replace their existing 911 database software application, perform a data conversion from un-referenced CADD





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drawings to "spatially-intelligent" GIS data, implement a Geographic Information System (GIS) and Global Positioning System (GPS) mapping service, to improve the integrity and reliability of their data and community response. (Fee: \$42,000)

**GPS Implementation Consulting, 2008, Prince William County Service Authority**

*Task Manager.* Responsible for conducting a one-day, on-site training course on the basics of GPS and Geodesy. Additionally responsible for developing custom questionnaire to assess the GPS and GIS needs of PWCSA. (Fee: \$7,000)

**Census ACDC MOD 015, 2007**

Various Locations in CA, IL, LA, MD, MN, MS, MO, NM, NC, OH, PA, SC, TN, WA and WI

*Assistant Project Manager.* Baker managed the dispatch of field crews for GPS point collections, which are performed at the center of street intersections with Baker's patented GeoLink® GPS/GIS Mapping Software. The GPS collected data was sent through a rigorous Quality Assurance/Quality Control (QAQC) process, in which the data is assessed for spatial and tabular content, to support the Census Bureau's efforts on the MAF/TIGER Accuracy Improvement Program (MTAIP) initiative. (Fee: \$435,000)

A. ABILITY OF PROFESSIONAL PERSONNEL

3. Michael Baker, Jr. Inc. (sub-consultant)  
Citiplace Centre 1  
2600 Citiplace Drive, Suite 450  
Baton Rouge, LA 70808  
Phone: 225-923-8280  
Fax: 225-923-8381

Michael Baker Corporation (Baker) was founded in 1940 by Michael Baker Jr., and quickly attained recognition as a premiere engineering design and survey firm through superior project performance for the U.S. military, preceding World War II. Following the death of the founder in 1977 and a corporate restructuring in 1984, major ownership and control shifted to an Employee Stock Ownership Plan (ESOP), and the Company began a period of steady growth in size, scope of services, and financial stability.

Today, Baker provides engineering, design, planning and construction services for its clients' most complex challenges worldwide. The firm's primary business areas are architecture, aviation, defense, environmental, geospatial, homeland security, municipal & civil, pipelines & utilities, rail & transit, transportation and water.

The skills, talents, and knowledge of our people are the real value in the innovative solutions we provide to a broad spectrum of clients—solutions that consider the environment first.





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Headquartered near Pittsburgh, PA, Baker employs over 2,900 in over 90 U.S. and international offices. Baker is publicly traded on the NYSE Amex exchange under the symbol, BKR. In 2009, Baker's continuing operations achieved contract revenues of \$445.2 million. Engineering News-Record (ENR) magazine currently ranks Baker in the top 10 percent of the 500 largest U.S. engineering design firms (currently 36st) and in the top 25 of numerous individual markets.

Michael Baker Jr., Inc. is recognized as one of the largest and most respected, full service geospatial-IT providers. Baker currently employs over 300 employees skilled and experienced in the geospatial disciplines.

Baker is a leader in the surveying profession, utilizing the latest technology to provide our clients with innovative solutions. We deploy survey crews to perform GPS or conventional surveys across the United States and internationally and serve a wide variety of clients. We provide geodetic grade GPS surveys and GIT data acquisition surveys to sub-meter accuracy. All field crews are equipped with total stations including on-board electronic data collectors and other conventional equipment and supplies. Baker employs over 50 Registered/Licensed Land Surveyors throughout the United States.

Baker's mapping services include airborne and mobile based LiDAR, film-based and digital aerial photography, high resolution image scanning, control extension by analytical aerotriangulation, digital terrain modeling (DTM), profiling and cross sectioning by digitizing or extraction from DTM, digital planimetric and topographic mapping, and color, color infrared, and black and white digital orthophotography. Baker has also utilized low altitude, helicopter based LiDAR and digital camera technology with great success to map linear corridor projects.

Baker has invested over \$2,000,000 in the acquisition of both mobile and airborne Light Detection and Ranging (LiDAR) technology. The Mobile LiDAR investment is an example of the cutting edge technology that Baker continually evaluates and adopts to maintain our leadership position and bring our clients state of the art surveying and mapping capabilities. Baker's Mobile Light Detection and Ranging (LiDAR) provides an efficient survey-grade solution, superior to static LiDAR or traditional surveys (realize up to 40 percent in savings), for collecting mapping data for large areas and makes it possible to survey at highway-speeds and digitally capture everything in a single pass with survey grade accuracy.



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**B. EXPERIENCE WITH PROJECTS OF A SIMILAR TYPE AND SIZE**

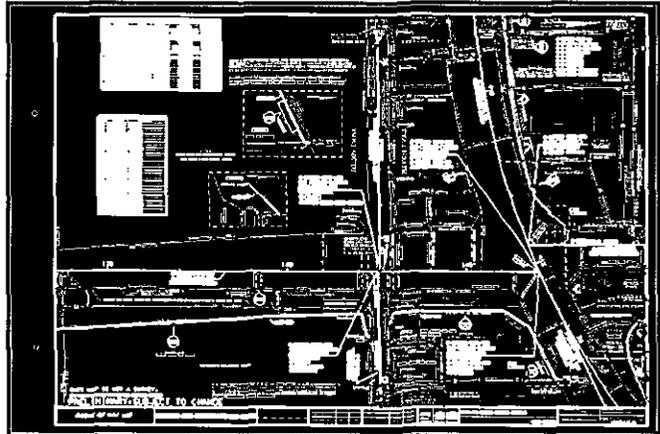
**Capital Circle NW/SW SR263 from south of SR317/Orange Avenue to SR10/Tennessee Street Tallahassee, Florida**

**Client:**  
Blueprint 2000 Intergovernmental Agency  
1311 Executive Center Drive, Suite 109  
The Koger Center  
Tallahassee, Florida 32301

**Contact:**  
**Ms. Deborah Shiro**  
(850) 891-1880  
[Debra.Schiro@blueprint2000.org](mailto:Debra.Schiro@blueprint2000.org)

**Contract Duration:**  
2004 to 2011

**Contract Amount:**  
\$926,652



This project includes a complete design topographic survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet South of Tennessee Street to Orange Avenue. This project also includes wetlands and boundary surveys for several pond sites along the corridor. This project is expected to be completed in early 2011.

**I-10 Design Survey, Leon County – Florida Department of Transportation, District 3 Leon County, Florida**

**Client:**  
Carter-Burgess  
1000 Legion Place, Suite 1400  
Orlando, Florida 32801

**Contract Duration:**  
2002 to 2003

**Contact:**  
Ralph S. Bove, Jr. or Kevin Moss  
(407) 514-1455

**Contract Amount:**  
\$154,535

This project consisted of 9 miles of full topographic survey for expansion of interstate from 4 lanes to 6 lanes. This project combined three different firms' work into one deliverable to the district. 3DS worked on traditional survey along with Nobles Consulting Group, Inc. (formerly Allen Nobles & Associates, Inc.) to combine ground collected topographic information with data collected by Aerial Cartographics of America, Inc. (ACA) through LAMP (low altitude mapping photography) for one integrated product. 3DS and the rest of the team finished this nine mile project on an accelerated schedule of just six months from notice to proceed to delivery.





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**Leon County/City of Tallahassee  
Stormwater Infrastructure Inventory Map,  
Phase 1 and Phase 2  
Tallahassee, Florida**

**Client:**

Woolpert, Inc.  
10900 NW 25<sup>th</sup> Street, Suite 100  
Miami, Florida 33172

**Contact:**

John Cestnick  
(305) 418-9370  
[john.cestnick@woolpert.com](mailto:john.cestnick@woolpert.com)

**Contract Duration:**

Phase 1 – 2006  
Phase 2 - 2009 to 2011

**Contract Amount:**

\$490,076



*Phase 1* of this project consisted of four pilot areas, which required location, identification and mapping of stormwater infrastructure. Its purpose was to assess the costs approach and resources needed to complete a city-wide stormwater infrastructure inventory mapping of the city of Tallahassee's stormwater WFR.

*Phase 2* consisted of sixteen areas covering twenty-five square miles, which require location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR. This project is scheduled to be completed in early 2011.





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**City of Tallahassee Master Sewer Plan  
Tallahassee, Florida**

**Client:**

Hatch Mott MacDonald  
3800 Esplanade Way, Suite 150  
Tallahassee, Florida 32311

**Contact:**

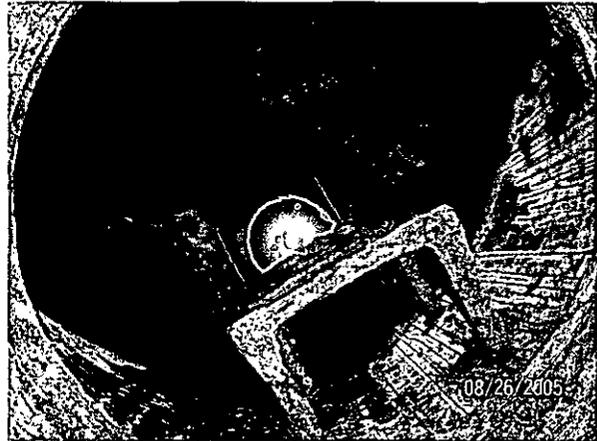
Michael Murphy, P.E.  
(850) 222-0334  
[mike.murphy@hatchmott.com](mailto:mike.murphy@hatchmott.com)

**Contract Duration:**

2005 to 2006

**Contract Amount:**

\$110,850



The purpose of this project was to establish elevations on designated sanitary sewer manholes and collect invert elevations. We also performed as-built surveys, provided horizontal location and material size and type data on each manhole and pump station in designated areas. This data was used to update the City of Tallahassee Master Sewer Plan.





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**Leon County GPS/LiDAR Mapping**  
Leon County, Florida

**Client:**  
Merrick Engineering Co.  
2450 South Peoria Street  
Aurora, Colorado 80014-5472

**Contract Duration:**  
2005 to 2009

**Contract Amount:**  
\$229,094

**Contact:**  
Doug Jacoby  
(303) 353-3903  
[doug.jacoby@merrick.com](mailto:doug.jacoby@merrick.com)

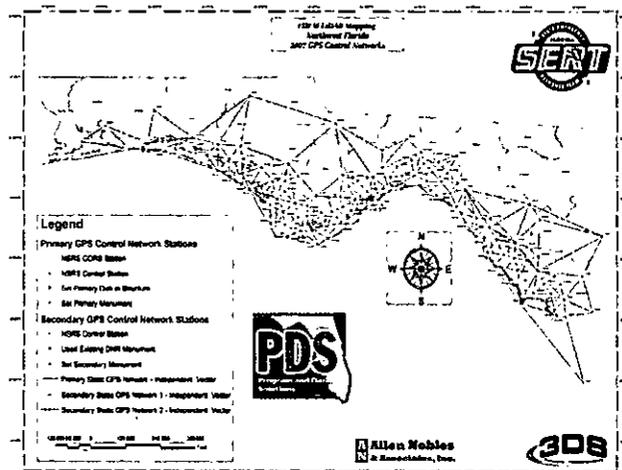
This was a complete horizontal and vertical control point densification throughout Leon County. The resulting control network was "Blue Booked" with NGS. 3DS provided a GPS control network, target control, and mapping check points for both photogrammetric and LiDAR mapping.

**FDEM LiDAR Mapping Control**  
State of Florida Panhandle

**Client:**  
PBS&J, Inc.  
482 South Keller Road  
Orlando, Florida 32810

**Contact:**  
Glenn Bryan, PSM  
(407) 806-4279  
[GCBryan@pbsj.com](mailto:GCBryan@pbsj.com)

**Contract Duration:** 2007 to 2008  
**Contract Amount:** \$713,670



3DS completed the most detailed GPS control project in North Florida for the FDEM LiDAR mapping. This project was a detailed control survey of both horizontal and vertical control covering all of the southern area of the District. 3DS was also part of the QA/QC team for the LiDAR mapping of the project area. Under House Bill 7121, the Division of Emergency Management received funding to update all 11 regional evacuation studies. As part of the process, new coastal LIDAR data was gathered under separate contract and provided to update coastal surge/flood modeling tools including SLOSH. The SLOSH model processing was conducted by the National Weather Service. The Florida Department of Emergency Management (FDEM) is currently under contract with the Regional Planning Councils to begin the evacuation study project. 3DS is currently on the team contracted to provide the LiDAR mapping for the Apalachicola SLOSH Basin which covers over 5000 square miles of Florida Coastline. 3DS was responsible for providing ground control along with establishing check points to help verify the accuracy of the LiDAR mapping.





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**Tallahassee Regional Airport  
Tallahassee, Florida**

**Client:**  
Kimley-Horn & Associates, Inc.  
4431 Embarcadero Drive  
West Palm Beach, FL 33407

**Contact:**  
Dave Bardt  
(561) 845-0665  
[dave.bardt@kimley-horn.com](mailto:dave.bardt@kimley-horn.com)

**Contract Duration:**  
2007 to 2009

**Contract Amount:**  
\$140,520



3DS provided a complete topographic survey of all the aprons for the airport. 3DS has been working for the Tallahassee Regional Airport since 1998. In this particular survey the client requested for the survey to delineate the cracks in the apron for assessment. 3DS provided this information by utilizing a high definition scanner. To do this manually in the conventional mode would have taken days. However, utilization of the high definition scanner allowed 3DS to perform the survey in one day and provide the client with all the information they needed.

2. Projects for which the firm is currently under contract.

**Projects currently under contract:**

FDOT District 3, Group 11-08, Bridge Replacements in Washington County, Pitman-Hartenstein & Associates, Inc., Scheduled to be completed April, 2011

FDOT District 3, Group 11-02, Stantec/Wilson Miller, Scheduled to be completed June, 2011

FDOT District 3, Districtwide Minor Design Project, George & Associates Consultant Engineers, Inc., Scheduled to be completed March 2011

FDOT District 3, SR30 from SR30F Airport Road, LPA Group, Inc., Scheduled to be completed September 2011

FDOT District 3, SR20 from Okaloosa County line to CR83A, Fisher & Arnold, Inc., Scheduled to be completed July 2011

FDOT District 3, SR77 from SR75 (US231) to Bailey Bridge, Alday-Howell Engineering, Inc., Scheduled to be completed April 2011





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3. Firm's process and procedures for insuring current design standards, codes and other regulatory direction are utilized by staff in project design for Surveying.

All of both 3DS and Baker's employees follow a strict regimen of procedures to ensure that data is collected and processed properly. This includes strict adherence to Chapter 472 and 177 of the Florida Statutes and Chapter 5J-17 of the Florida Administrative Code. These procedures include a process that includes redundancy of measurements, utilizing adequate control and producing adequate field notes. Once the data is collected in the field, the data is reviewed in the office for errors and processed. After processing a finished product undergoes a rigorous QA/QC process by two reviewers before delivery to the County.

4. Firm's process and procedures for insuring current design standards, codes and other regulatory direction are utilized by staff in project design for Surveying.

Same as above.

5. Basic and special resources available to the firm for the performance of the duties that may be assigned in this work category.

3DS has many unique tools at its disposal. Along with the ability to equip four traditional survey crews, 3DS has the ability to provide high definition scanning, mobile LiDAR, photogrammetric surveys both analog and digitally. 3DS has two analog digital stereo plotters a Zeiss P1 and a Zeiss P3 for the compilation of topographic maps from film based aerial photography. 3DS also has Intergraph's Soft Copy for the compilation of topographic maps from digitally acquired aerial photographs. A complete list of 3DS's equipment is attached at the end of this proposal.

#### C. WILLINGNESS TO MEET SCHEDULE AND BUDGET REQUIREMENTS

3DS has access to ample staff to respond to the County's needs on time and within budget. Our current work load will allow a one to two week response time to projects once we receive a notice to proceed. 3DS's adaptability to utilize different methods of data collection allows us maximum flexibility to bring the project in with a budget agreeable to the County and deliver it on schedule.

#### D. EFFECT OF FIRM'S RECENT, CURRENT AND PROJECTED WORKLOAD

3DS and their sub-contractor, Baker, have the ability to redistribute the workload on a project to project basis. 3DS has the ability to put four field crews out for projects. This, in addition to our team's ability to redistribute the bulk of the work from the field to the office by utilizing other means of data collection such as mobile LiDAR, aerial photogrammetry, LAMP (low altitude mapping photography), or high definition scanning will allow the 3DS team to dedicate a workforce to meeting the County's surveying needs.



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**E. EFFECT OF PROJECT TEAM LOCATION**

Our office is conveniently located on Capital Circle NE with easy access to all of Leon County's major arteries. This enables 3DS to respond to the County's needs in an efficient and timely manner reducing transportation costs and response time.

**F. APPROACH TO THE PROJECT**

Diversified Design & Drafting Services, Inc. (3DS) is committed to providing complete and accurate survey information in a timely manner. All survey work will conform to the standards required by the County, the standards set forth in Chapter 472 and 177 F.S and Chapter 5J-17 Florida Administrative Code. All survey work will be submitted in a format acceptable to the County.

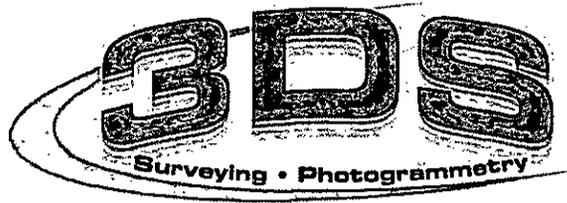
Every successful project starts with a clear understanding of the scope of service. This begins with good coordination with the County and other parties involved. 3DS's first step would be to meet with the County personnel to clearly define the scope of services and the goals of the County. After the project goals are defined the best method of data collection will be evaluated. 3DS will analyze each project and suggest the best method of data collection to minimize cost and maximize efficiency and economy for the County. Once the method of data collection is determined, a man-hour estimate will be prepared and then negotiated. After Notice To Proceed is given an in-house project initiation meeting will be held to insure everyone at 3DS has a clear understanding of the project, and a project schedule is developed.

3DS has a program in place to keep our employees up to date in safety training. An in-house safety program is established for each project by the project manager. Safety starts with planning the approach to a project during the man-hour estimate along with careful on-site evaluation of the project. This procedure aids us to determine the safest and most economical approach to a project.

A Quality Assurance and Quality Control plan is essential in providing surveying products based on sound principles and practices, reflecting the highest standards to ensure that work products conform to the scope and project documents, and to insure the void of errors and omissions. Quality will be controlled through daily checking and reviewing the entire team's work activities by the project manager. An additional QA/QC will be performed by the managing principal to insure that that County has the best possible product.



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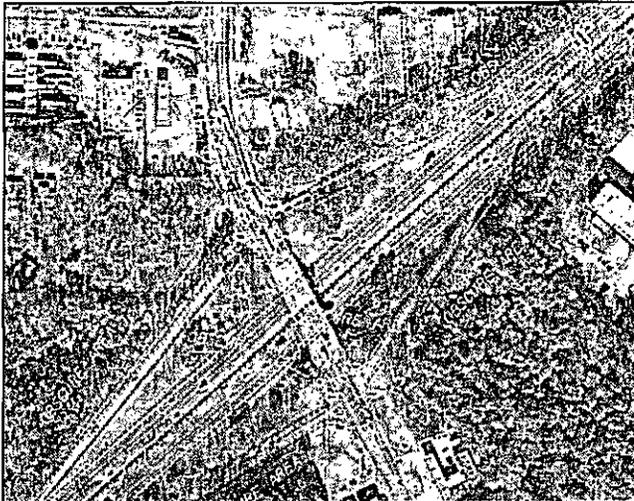
## 2010 Computer Hardware/Software

### Computer Hardware

15 workstations  
1 Hewlett Design Jet 1055 CM plotter  
Windows 2003 Server  
Terminal Server  
1 Canon ImagePrograph W8400 wide format plotter

### Stereo Plotters

Zeiss P-3 Analytical Stereo Plotter interfaced with CADMAP  
Zeiss P-1 Analytical Stereo Plotter interfaced with CADMAP  
ZI ImageStation Suite  
Intergraph Soft Copy Station  
HSA Soft Copy Station  
3 Softcopy Digital Mapping Systems  
Intermap Analytic Stereoplotter interfaced with CADMAP (PC-based)  
Wild Pug 3 with Zoom

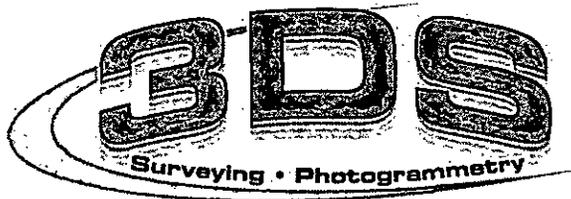


### Computer Monitors

1 - 31" HDTV monitor  
5 - 27" HDTV monitors  
2 - 26" HDTV monitors  
2 - 20" LCD monitors  
4 - 19" Stereo tube monitors  
1 - 19" LCD monitor  
3 - 17" LCD monitors

### Storage Capacity

20 Terrabytes



## 2010 Computer Software



Imagestation Ortho Pro 6.1  
Imagestation Automatic Triangulation 5.3  
Imagestation Automatic Elevations 5.3  
2 Imagestation Photogrammetric Manager 5.3  
Imagestation Feature Collection 5.3  
Imagestation DTM Collection 5.3  
Imagestation Stereo Display 5.3  
Imagestation Raster Utilities 5.3



2 – TerraSolid TerraScan 008.006  
TerraSolid TerraModeler 008.006  
TerraSolid TerraPhoto 008.006  
TerraSolid Survey 008.006  
TerraSolid Match 008.006



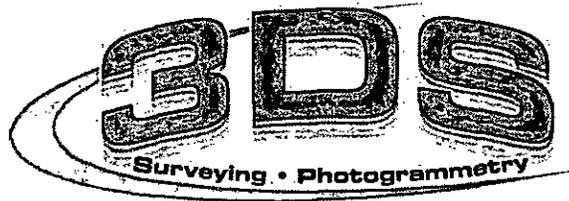
Intergraph - Microstation PC Version 8  
Microstation and GEOPAK - survey,  
engineering and design program  
7 MicroStation 7/J/SE  
2 MicroStation 8  
MicroStation Descartes  
MicroStation XM INROADS



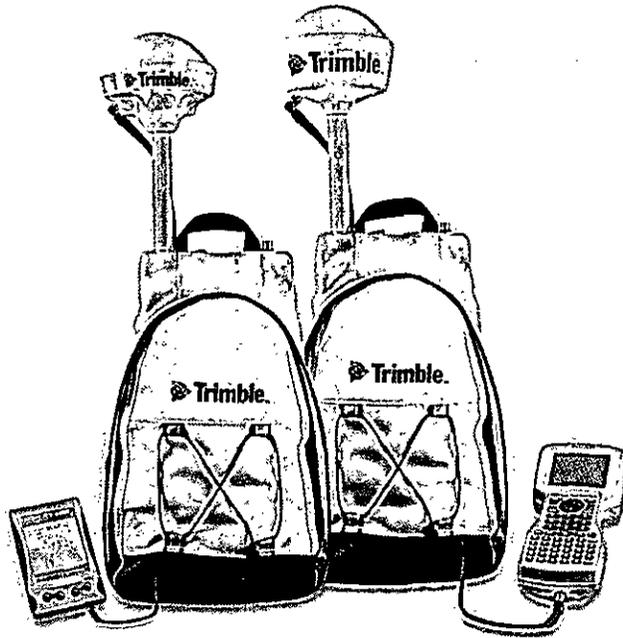
Transit Roadway Characteristics  
Extraction 2.0.5.1  
Transit Survey Creator/Viewer  
Module 2.0.5.12



ArcMap 9.3



## 2010 Survey Equipment



- Trimble R8 GPS Receiver
- Trimble GPS/GNSS Receiver
- Total Station Leica TC1105
- Total Station Leica TCR302
- Total Station Leica TC800
- (2) Level Leica NA728
- Level Leica NA2002
- (2) Huskies
- (2) Huskey w/TDS
- (3) Schonstedts
- (12) Motorola Radios
- (11) Single Prisms
- (9) Tri Brachs
- (9) Tripods
- 2 GeoBeacon Receiver
- 2 Panasonic Toughbook
- 2 PathfinderProXH GPS Receiver

