

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**

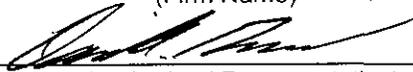
**THIS PAGE IS TO BE COMPLETED AND INCLUDED AS THE COVER SHEET FOR YOUR RESPONSE TO THE REQUEST FOR PROPOSALS.**

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.

CPH Engineers, Inc.  
\_\_\_\_\_  
(Firm Name)  
BY   
\_\_\_\_\_  
(Authorized Representative)  
David A. Gierach, P.E., CGC  
\_\_\_\_\_  
(Printed or Typed Name)  
ADDRESS 1031-C 2 23rd Street  
\_\_\_\_\_  
CITY, STATE, ZIP Panama City, FL 32405  
\_\_\_\_\_  
TELEPHONE 850.563.1490  
\_\_\_\_\_  
FAX 850.563.1495  
\_\_\_\_\_

**ADDENDA ACKNOWLEDGMENTS: (IF APPLICABLE)**

Addendum #1 dated 3/3/11 Initials  Addendum #3 dated \_\_\_\_\_ Initials \_\_\_\_\_  
Addendum #2 dated 3/8/11 Initials  Addendum #4 dated \_\_\_\_\_ Initials \_\_\_\_\_

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

- |  |   |
|--|---|
| <input type="checkbox"/> a. Stormwater Engineering                           | <input type="checkbox"/> h. Surveying   |
| <input type="checkbox"/> b. Roadway Design                                   | <input checked="" type="checkbox"/> i. Subdivision and Site Development Engineering |
| <input type="checkbox"/> c. Traffic and Intersection Engineering             | <input checked="" type="checkbox"/> j. Parks and Recreational Facility Engineering  |
| <input type="checkbox"/> d. Structural Engineering                           | <input checked="" 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 |   |

March 17, 2011

Leon County  
Purchasing Division  
1800-3 Blair Stone Road  
Tallahassee, Florida 32308



1031-C W 23<sup>rd</sup> Street  
Panama City, Florida 32405  
Phone: 850.563.1490  
Fax: 850.563.1495

[www.cphengineers.com](http://www.cphengineers.com)

Re: Civil Engineering Services, Continuing Supply  
BC-03-17-11-25

Dear Selection Committee Members:

CPH Engineers, Inc. (CPH) is pleased to respond to Leon County' Request for Proposals for the Civil Engineering Services, Continuing Supply Contract. It would be our pleasure to provide services to the County. CPH is submitting qualification information to be considered for the Utility Engineering, Subdivision and Site Development Engineering, and Parks and Recreational Facility Engineering categories. We are certain that CPH exceeds Leon County' qualification requirements for the following reasons:

**CPH's Ability to Meet the County's Requirements Are Unmatched.** CPH is a multi-disciplinary engineering firm recognized for providing superior quality services to our clients in an efficient and effective manner. CPH has been providing consulting services for over 30 years; we believe that this experience is imperative to successfully execute the wide variety of projects that this contract may bestow. With a nearby office in Panama City and support staff members in Jacksonville and Palm Coast; CPH is eager and ready to provide services for any project under this contract. We have an available staff of over 240 personnel and are ready to serve Leon County.

**Experience:** CPH has assembled a vastly diverse and highly qualified team with experience in all discipline areas requested by the County. Our team is capable of providing services for every project that will emerge under this contract. CPH realizes and understands that each project has its individual characteristics and will need specialized expertise. Therefore, CPH has assembled a team composed of engineers, environmental scientists, contractors, inspectors, surveyors, and administrative staff; which will bring a significant assortment of knowledge to the contract. CPH has experience in areas such as: roadway design, stormwater management, water and wastewater treatment, utility design, structural analysis, transportation, planning, and environmental services.

**Experience Working Under Continuing Contracts:** We have worked with many of our clients for 30 years. These long-term relationships have afforded us many opportunities to meet our clients' needs and perform municipal engineering services. Our team has extensive experience in working under continuing contracts and is available for planned projects as well as unplanned emergencies. We are currently serving the municipalities of Punta Gorda, North Port, Tampa, Lake Alfred, Daytona Beach, Palm Coast, Edgewater, Orlando, Sanford, Casselberry, Winter Springs, Lake Mary, Oviedo, Eustis, Titusville, Cape Coral, Deland, and Fort Myers; Bay, Volusia, Lee, and Orange Counties; and the Bay, Volusia, Seminole, Lake, and Polk County School Districts, as their Continuing Services Engineer. We are very proud of our continuing relationships.



**Budget and Schedule:** CPH places a high level of emphasis on meeting or exceeding the County's goals. The team understands the significance of completing projects on schedule and within budget. In order to ensure a cost-effective, timely, and successful project, CPH has assigned a Program Manager, Jason Toole, P.E., LEED AP, whom is responsible for ensuring that each project is properly performed and exceeds the expectations and standards of the County.

**CPH's Local Availability and National Support.** CPH has team members located 96 miles away from the County at 1031-C W 23<sup>rd</sup> Street, Panama City, Florida 32405. These staff members have active working experience in and around Leon County. Our team is very familiar with local conditions, design guidelines; and has excellent working relationships with County staff as well as regulatory/review agencies.

As requested, we have provided one complete copy with this letter, and three (3) sets of general information and information specific to the work categories for which our firm would like to be considered (Utility Engineering, Subdivision and Site Development Engineering, and Parks and Recreational Facility Engineering)

We appreciate the opportunity to submit our qualifications and look forward to working with Leon County.

Sincerely,  
CPH Engineers, Inc.

A handwritten signature in black ink, appearing to read 'David A. Gierach', is written in a cursive style.

David A. Gierach, P.E.  
President

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### 1. General Information

- a. Contractor Information
- b. Executive Summary
- c. Required Forms

### 2. Specific Proposal Information

#### 1. Utility Engineering

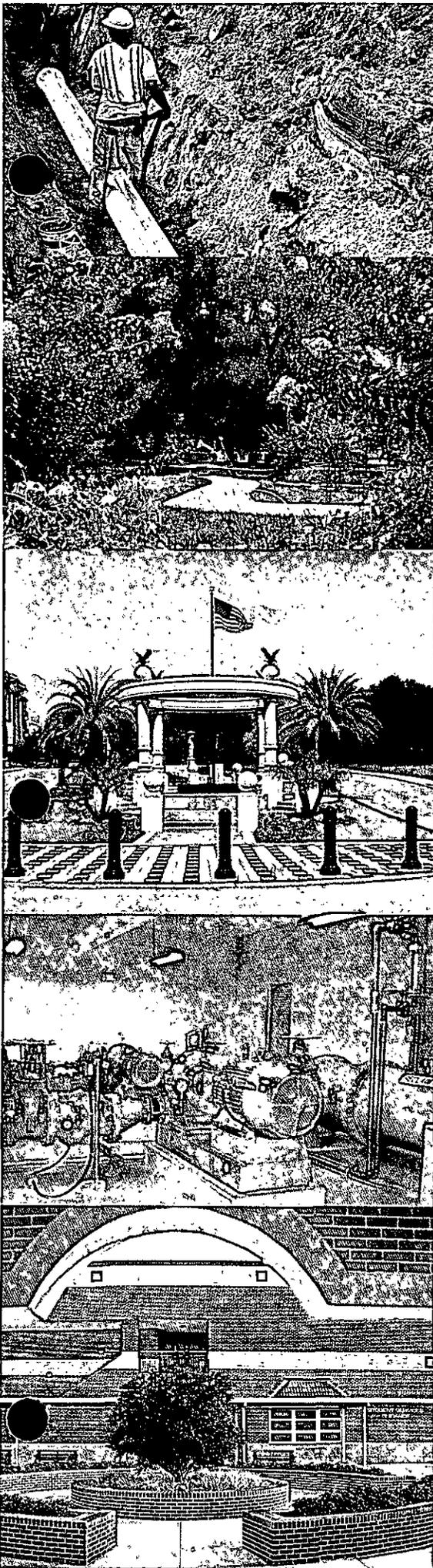
- a. Ability of Professional Personnel
- b. Experience with Projects of a Similar Type and Size
- c. Willingness to Meet Schedule and Budget Requirements
- d. Effect of Firm's Recent, Current and Projected Workload
- e. Effect of Project Team Location
- f. Approach to the Project

#### 2. Subdivision and Site Development Engineering

- a. Ability of Professional Personnel
- b. Experience with Projects of a Similar Type and Size
- c. Willingness to Meet Schedule and Budget Requirements
- d. Effect of Firm's Recent, Current and Projected Workload
- e. Effect of Project Team Location
- f. Approach to the Project

#### 3. Parks and Recreational Facility Engineering

- a. Ability of Professional Personnel
- b. Experience with Projects of a Similar Type and Size
- c. Willingness to Meet Schedule and Budget Requirements
- d. Effect of Firm's Recent, Current and Projected Workload
- e. Effect of Project Team Location
- f. Approach to the Project



# A. Contractor Information

CPH Engineers, Inc.

1031-C W 23<sup>rd</sup> Street

Panama City, FL 32405

Phone: 850.563.1490

Fax: 850.563.1495

Email: [NJindal@cphengineers.com](mailto:NJindal@cphengineers.com)



**cph**

Engineer  
Architect  
Planner  
Surveyor  
Landscape Architect  
Transportation  
Environmental  
Construction

1031 W 23rd St.

C



**cph**

The County will have the direct  
commitment of the CPH Panama Office



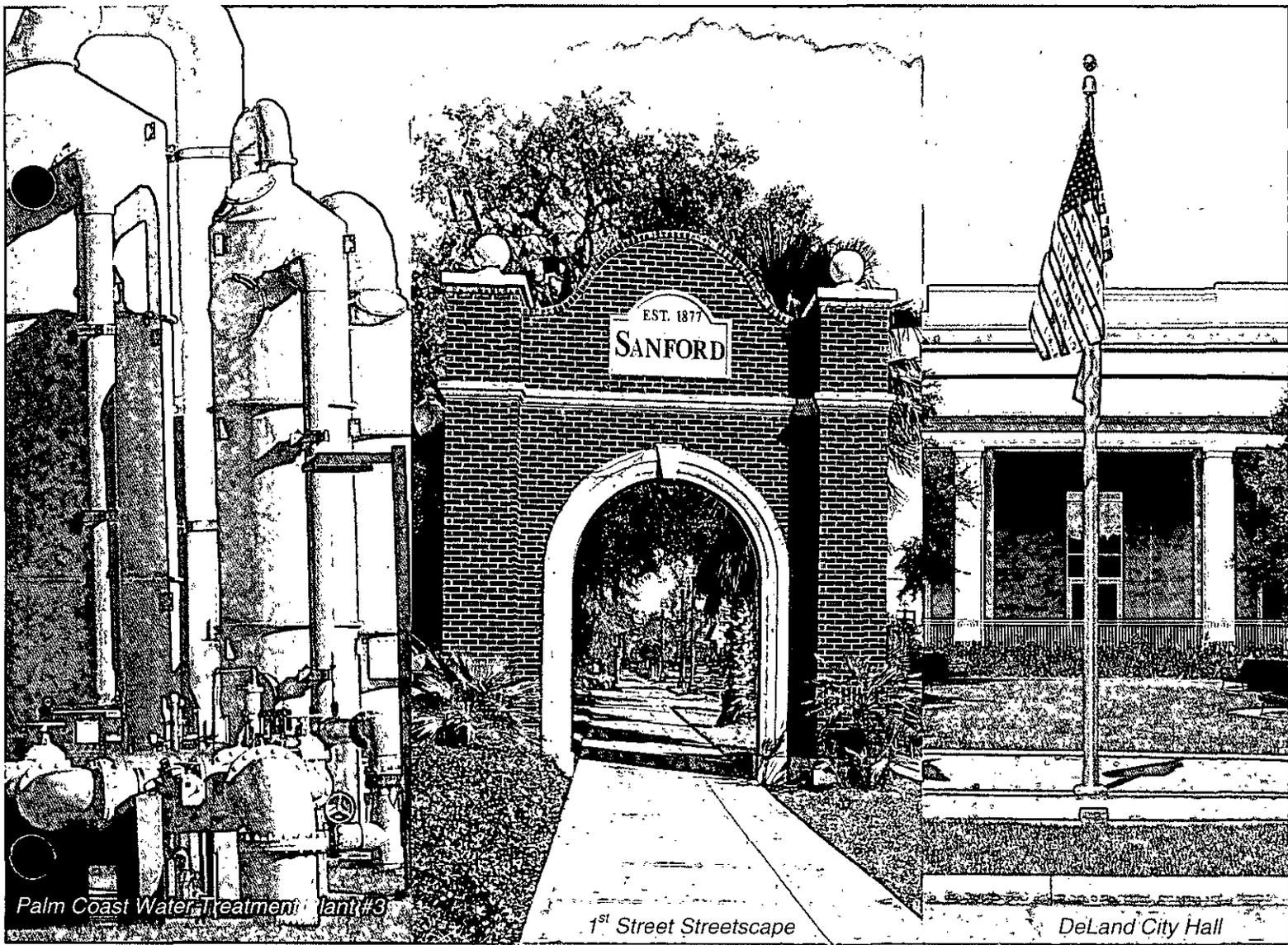
## B. Executive Summary

CPH Engineers, Inc. prides itself in its capability to “provide quality and innovation for design and construction.” In every aspect of the business, CPH takes pride in providing timely, cost effective and appropriate engineering services to support its clients and help them achieve their objectives. Known as a leading multi-disciplinary consulting engineering firm, CPH provides services in the following areas:

- Master Planning
- Engineering Services (Civil and Utilities)
- Architectural Services/Landscape Architecture
- Water/Wastewater/Reclaimed/Stormwater Systems
- Hydraulics and hydrology
- Environmental Sciences
- Transportation engineering including traffic planning and design
- Land Planning/Zoning
- Construction Engineering and Inspection/Construction Management
- Design/Build
- Surveying & Mapping
- Other related fields

The Firm has been providing services in the area since the 1960's and the Firm has been established since 1981 as a privately-owned Florida Corporation. In keeping with the company's philosophy to assure responsive and cost effective service, CPH has grown with branch offices housing approximately 240 employees in Florida, Connecticut, Maryland, and Puerto Rico with the firm's Corporate Headquarters located in Sanford, Florida. CPH's commitment to providing the highest level of service in an affordable manner has been achieved through emphasis on personalized services and direct involvement of top level CPH personnel, especially the owners of the corporation.





**Principals With Authority To Bind Firm**

Jason Toole, P.E. / Vice President/Associate  
David E. Mahler, P.E. / Sr. Vice President/Associate  
Stephen N. Romano, P.E. / Vice President/Associate  
James K. Winter, RLA, CLARB/Vice President  
John A. Baer, AIA, NCARB, LEED AP  
Terry Zaudtke, P.E./Chief Operating Officer  
David Gierach, P.E./President

1031-C W 23<sup>rd</sup> Street  
Panama City, FL 32405  
Phone: 850.563.1490  
Fax: 850.563.1495

This RFP for Leon County is in all respects fair and in good faith without collusion or fraud.

David A. Gierach, P.E., CGC  
Principal With Authority to Bind

3/15/11

Date



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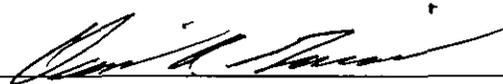
**AFFIDAVIT CERTIFICATION  
IMMIGRATION LAWS**

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).

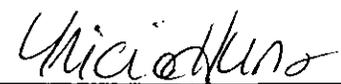
Company Name: CPH Engineers, Inc.

Signature:  Title: President

STATE OF Florida  
COUNTY OF Seminole

Sworn to and subscribed before me this 15 day of March, 2011

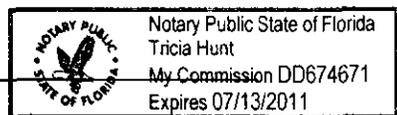
Personally known X

  
NOTARY PUBLIC

OR Produced identification \_\_\_\_\_

Notary Public - State of Florida

\_\_\_\_\_  
(Type of identification)

My commission expires: 

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.**

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

CPH Engineers, 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  

---

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:

  IX  

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

  FCCI Insurance Company  

  6300 University Parkway  

  Sarasota, FL 34240-8424  

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.

Will need endorsement.  
Can do if needed.

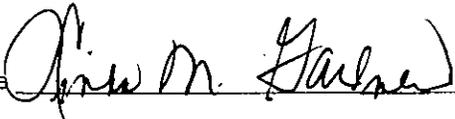
Professional Liability Policy Declaration sheet as well as claims procedures for each applicable policy to be provided

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 Linda M. Gardner  
Typed or Printed

Signature 

Date March 15, 2011

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



# CERTIFICATE OF LIABILITY INSURANCE

OP ID: KR

DATE (MM/DD/YYYY)

03/15/11

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Lykes Insurance, Inc. - WP P. O. Box 2703 Winter Park, FL 32790 Mark E. Jackson A129051		407-644-5722 407-628-1363	<b>CONTACT NAME:</b> Kristin Rodriguez <b>PHONE (A/C, No, Ext):</b> 407-478-4979 <b>E-MAIL ADDRESS:</b> krodriquez@lykesinsurance.com <b>PRODUCER CUSTOMER ID #:</b> CPHEN-1	<b>FAX (A/C, No):</b> 407-628-1363
<b>INSURED</b> CPH Engineers, Inc. 500 West Fulton Street Sanford, FL 32771		<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
		<b>INSURER A:</b> Liberty Ins. Underwriters		
		<b>INSURER B:</b>		
		<b>INSURER C:</b>		
		<b>INSURER D:</b>		
		<b>INSURER E:</b>		
		<b>INSURER F:</b>		

**COVERAGES**      **CERTIFICATE NUMBER:**      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADOL SUBR INSR WVP	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>GENERAL LIABILITY</b> <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COM/OP AGG \$ \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y / <input type="checkbox"/> N N/A				<input type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liab		AEE200397-0111	04/01/11	04/11/12	Ea claim 2,000,000 Aggregate 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
 Proposal No. BC-03-17-11-25 - Civil Engineering Services

<b>CERTIFICATE HOLDER</b>  LEON301  Leon County 301 South Monroe Street Tallahassee, FL 32301	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
---	--

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55 Water Street  
18<sup>th</sup> Floor  
New York, NY 10041  
Tel (212) 208-4100  
Fax (212) 208-2865

**BINDER TRANSMISSION**

DATE: March 16, 2011  
TO: Mark Jackson  
COMPANY: Lykes Insurance  
FROM: Nicholas Rodriguez  
Direct Dial: 212-208-2824  
E-Mail: Nicholas.Rodriguez@libertyiu.com  
RE: Account Name: CPH Engineers, Inc.

---

We are pleased to confirm that the captioned account is bound as follows:

Account Name: CPH Engineers, Inc.  
Insuring Company: Liberty Insurance Underwriters, Inc. (A, XV)  
Policy Number: AEE200397-0111  
Policy Period: April 01, 2011 – April 01, 2012

**A/E/E Professional Liability Insurance Terms:**

Limit of Liability (Each Claim/Aggregate)	Deductible (Each Claim)	Premium* (Policy Period)
\$2,000,000/\$2,000,000	\$150,000	

Policy Form: Architects/Engineers/Environmental Services Professional Liability Insurance. (AEE 002 05/2002)

**Retro Active Date:** Per Expiring - April 15, 1986.

**Knowledge Date:** April 01, 2011.

**This Binder is subject to receipt, review, and acceptance of the following information within 15 days of Binding:**

1. N/A.

A. Reporting of **Circumstances** That May Give Rise To A **Claim**

If during the **Policy Year** you become aware of a **Circumstance** that may reasonably be expected to give rise to a **Claim** against you, and if you report such **Circumstance** to us during the **Policy Year** in writing, then any **Claim** subsequently arising from such **Circumstance** duly reported in accordance with this paragraph shall be deemed under this Policy to be a **Claim** made during the **Policy Year**. Such written notice to us shall include:

1. particulars as to the reasons for anticipating such a **Claim**; and
2. the nature and dates of the alleged **Circumstance**; and
3. the alleged injuries or **Damages** sustained; and
4. the names of potential claimants, if available; and
5. the manner in which you first became aware of the specific **Circumstance**.

B. Notice

In the event of a **Claim**, you shall:

1. Promptly notify us pursuant to Item 8 of the Declarations in writing of any **Claim**.
2. Immediately forward to us every demand, notice, summons or other process including institution of arbitration proceedings that you receive.
3. Provide particulars sufficient to identify you and the claimant and full information with respect to the time, place and circumstances of the event complained of, and the names and addresses of the injured, and of available witnesses to us as soon as practicable.



WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY

Insured Name: CPH ENGINEERS INC .  
Policy Number: 001-WC06A-12510  
Agency Name: 18, Willis of Florida, Inc.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

SCHEDULE

All persons or organizations that, in a written contract executed by both parties prior to the date of the injury covered by this policy, require you to obtain this agreement from us.

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise noted.

Issued by: FCCI Insurance Company 24570

Endorsement Number: 000001

Effective Date: 01/01/2011

Date Issued: 12/02/2010

Countersigned by

*Francis M. Hite*  
Authorized Representative



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

### BLANKET ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - WITH PRODUCTS-COMPLETED OPERATIONS COVERAGE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

#### SCHEDULE (OPTIONAL)

Name of Additional Insured Persons Or Organizations
(As required by "written contract" per Paragraph A. below.)

Locations of Covered Operations
(As per the "written contract", provided the location is within the "coverage territory" of this Coverage Part.)

**A. Section II - Who is An Insured** is amended to include as an additional insured:

1. Any person or organization whom you are required by "written contract" to add as an additional insured on this Coverage Part; and
2. The particular person or organization, if any, scheduled above.

**B. The insurance provided to the additional insured is limited as follows:**

1. The person or organization is an additional insured only with respect to liability for "bodily injury", "property damage", or "personal and advertising injury" caused in whole or in part by:
  - a. Your acts or omissions; or
  - b. The acts or omissions of those acting on your behalf in the performance of your ongoing operations specified in the "written contract"; or
  - c. "Your work" that is specified in the "written contract" but only for "bodily injury" or "property damage" included in the "products-completed operations hazard", and only if:
    - (1) The "written contract" requires you to provide the additional insured such coverage; and
    - (2) This Coverage Part provides such coverage.

2. We will not provide the additional insured any broader coverage or any higher limit of insurance than the least that is:

- a. Required by the "written contract";
- b. Described in **B.1.** above; or
- c. Afforded to you under this policy.

3. This insurance is excess of all other insurance available to the additional insured whether on a primary, excess, contingent or any other basis. But if required by the "written contract", this insurance will be primary and non-contributory relative to insurance on which the additional insured is a Named Insured.

4. The insurance provided to the additional insured does not apply to "bodily injury", "property damage", or "personal and advertising injury" arising out of:

- a. The rendering of, or the failure to render, any professional architectural, engineering, or surveying services, including:
  - (1) The preparing, approving, or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
  - (2) Supervisory, inspection, architectural or engineering activities; or
- b. Any premises or work for which the additional insured is specifically listed as an



additional insured on another endorsement attached to this Coverage Part.

**C. SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS** is amended as follows:

1. The **Duties In The Event of Occurrence, Offense, Claim or Suit** condition is amended to add the following additional conditions applicable to the additional insured:

An additional insured under this endorsement will as soon as practicable:

- (1) Give us written notice of an "occurrence" or an offense which may result in a claim or "suit" under this insurance, and of any claim or "suit" that does result;
- (2) Except as provided in Paragraph B.3 of this endorsement, agree to make available any other insurance the additional insured has for a loss we cover under this Coverage Part;
- (3) Send us copies of all legal papers received, and otherwise cooperate with us in the investigation, defense, or settlement of the claim or "suit"; and
- (4) Tender the defense and indemnity of any claim or "suit" to any other insurer or self insurer whose policy or program applies to a loss we cover under this Coverage Part. But if the "written contract" requires this insurance to be primary and non-contributory, this provision (4) does not apply to insurance on which the additional insured is a Named Insured.

We have no duty to defend or indemnify an additional insured under this endorsement until we receive from the additional insured written notice of a claim or "suit".

2. With respect only to the insurance provided by this endorsement, the first sentence of Paragraph 4.a. of the Other Insurance Condition is deleted and replaced with the following:

**4. Other Insurance**

**a. Primary Insurance**

This insurance is primary and non-contributory except when rendered in excess by endorsement G-140331-C, or when Paragraph b. below applies.

- D. Only for the purpose of the insurance provided by this endorsement, **SECTION V – DEFINITIONS** is amended to add the following definition:

"Written contract" means a written contract or written agreement that requires you to make a person or organization an additional insured on this Coverage Part, provided the contract or agreement:

1. Is currently in effect or becomes effective during the term of this policy; and
2. Was executed prior to:
  - a. The "bodily injury" or "property damage"; or
  - b. The offense that caused the "personal and advertising injury"for which the additional insured seeks coverage under this Coverage Part.

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY  
CG 24 04 05 09

## WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

### SCHEDULE

**Name Of Person Or Organization:**

ANY PERSON OR ORGANIZATION WITH WHOM YOU  
AGREE IN WRITING TO WAIVE YOUR RIGHT TO  
RECOVER AGAINST THEM. YOU MUST AGREE TO  
THIS WAIVER PRIOR TO THE DATE OF LOSS.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph 8. **Transfer Of Rights Of Recovery Against Others To Us** of Section IV – Conditions:

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard." This waiver applies only to the person or organization shown in the Schedule above.

20020007040256832707889



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

## DESIGNATED CONSTRUCTION PROJECT(S) GENERAL AGGREGATE LIMIT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

### SCHEDULE

Designated Construction Projects:

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

- A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under COVERAGE A (SECTION I), and for all medical expenses caused by accidents under COVERAGE C (SECTION I), which can be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:
1. A separate Designated Construction Project General Aggregate Limit applies to each designated construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
  2. The Designated Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under COVERAGE A, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under COVERAGE C regardless of the number of:
    - a. Insureds;
    - b. Claims made or "suits" brought; or
    - c. Persons or organizations making claims or bringing "suits".
  3. Any payments made under COVERAGE A for damages or under COVERAGE C for medical expenses shall reduce the Designated Construction Project General Aggregate Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project General Aggregate Limit for any other designated construction project shown in the Schedule above.
4. The limits shown in the Declarations for Each Occurrence, Fire Damage and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project General Aggregate Limit.
- B. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under COVERAGE A (SECTION I), and for all medical expenses caused by accidents under COVERAGE C (SECTION I), which cannot be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:
1. Any payments made under COVERAGE A for damages or under COVERAGE C for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-Completed Operations Aggregate Limit, whichever is applicable; and
  2. Such payments shall not reduce any Designated Construction Project General Aggregate Limit.
- C. When coverage for liability arising out of the "products-completed operations hazard" is provided, any payments for damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard" will reduce the Products-Completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Construction Project General Aggregate Limit.

D. If the applicable designated construction project has been abandoned, delayed, or abandoned and then restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.

E. The provisions of Limits Of Insurance (SECTION III) not otherwise modified by this endorsement shall continue to apply as stipulated.

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

**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 statues 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

CPH Engineers, Inc.  
\_\_\_\_\_  
Contractor/Firm

1031-C W 23rd Street, Panama City, FL 32405  
\_\_\_\_\_  
Address

**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: <span style="float: right;">Not Applicable to CPH Engineers, Inc.</span>	
Current Local Address:	Phone:
	Fax:
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:	Phone:
	Fax:

\_\_\_\_\_  
Signature of Authorized Representative \_\_\_\_\_  
Date

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

By \_\_\_\_\_, of \_\_\_\_\_,  
(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

a \_\_\_\_\_ 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 of Notary

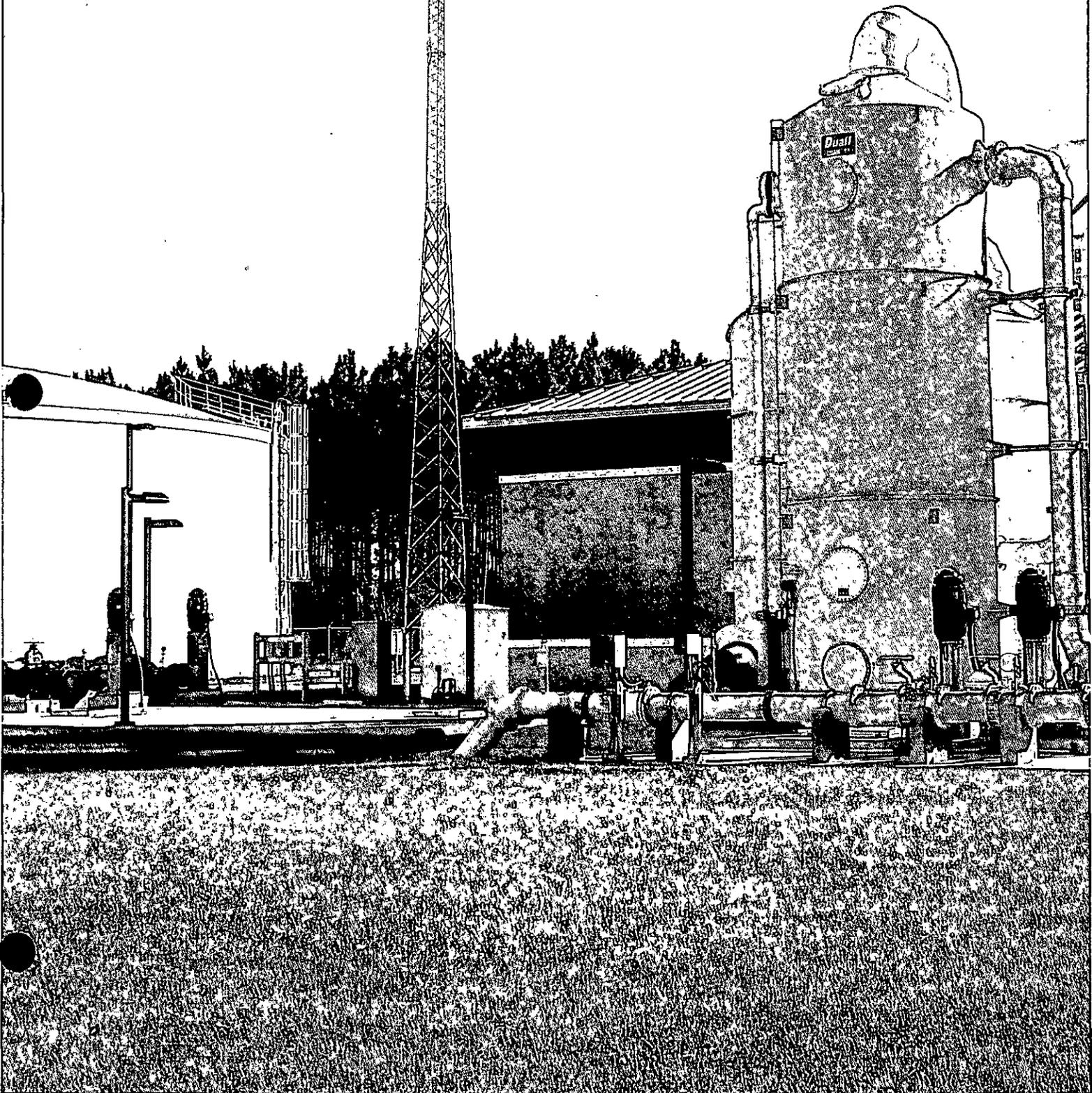
\_\_\_\_\_  
Print, Type or Stamp Name of Notary

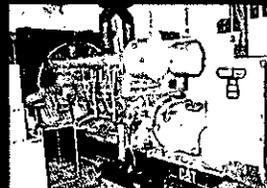
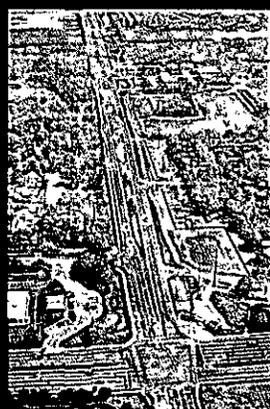
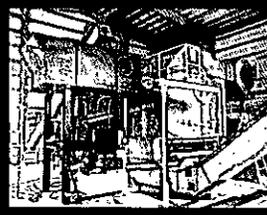
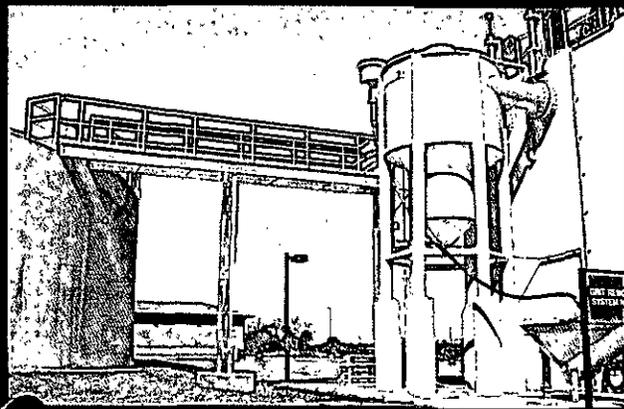
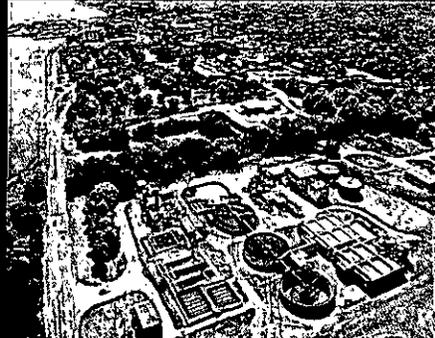
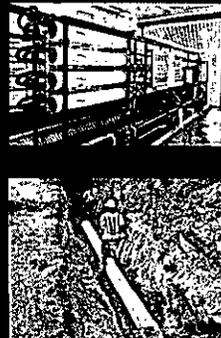
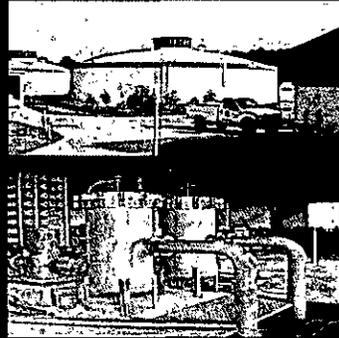
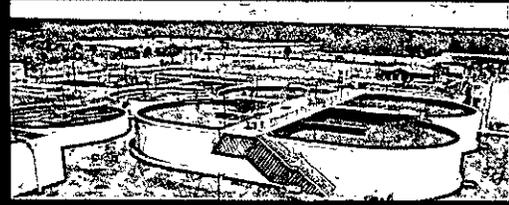
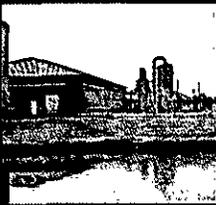
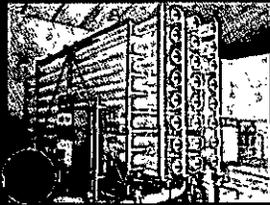
\_\_\_\_\_  
Title or Rank

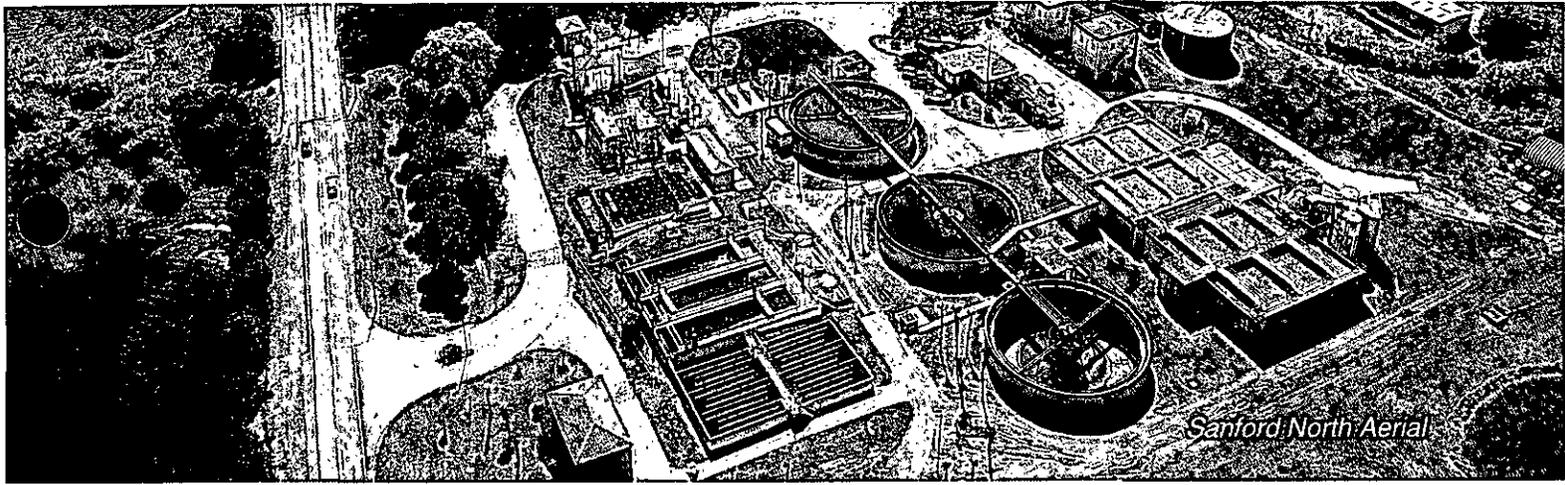
\_\_\_\_\_  
Serial Number, If Any

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

# Utility Engineering







# A. Ability of Professional Personnel

## 1. Number of Professional

CPH has reviewed the scope of services and has developed ideas for staffing the projects. Based on our recent experience, and our project manager's experience, we feel comfortable in meeting the scope requirements. The Panama staff is available to complete the Continuing Engineering Contract for Utility Engineering Services as outlined in the scope of work.

CPH has the personnel and resources immediately available to carry the Continuing Contract for Utility Engineering Services to successful completion. In addition to our 240 staff members, our available personnel equals approximately 70 (including engineers, environmental scientists, and survey personnel). The firm's Panama office can provide approximately 960 manhours per month and CPH's corporate monthly availability is approximately 56,000 manhours a month. The CPH Panama office has more than adequate personnel and availability to provide the services to Leon County.

The team proposed to provide services to Leon County has adequate time available to dedicate to the successful completion of the Continuing Contract for Utility Engineering Services.

Key Personnel	Current Availability	Availability in 6 Months	Availability in 12 months
David A. Gierach, P.E., CGC	50%	65%	75%
Jason Toole, P.E., LEED AP	65%	75%	85%
Yvonne Paguada, P.E.	60%	75%	80%
Julio Paguada	70%	75%	85%
Scott A. Breitenstein, P.E.	75%	70%	80%
William C. Goucher, P.E.	60%	70%	80%
David E. Mahler, P.E.	50%	60%	72%
Lawrence O. Pultz, P.E.	55%	60%	75%
William Wade Wood III, P.E.	65%	70%	85%
Stephen N. Romano, P.E.	65%	75%	85%
Terry M. Zaudtke, P.E., BCEE	70%	75%	80%
Charles A. Jensen, CET	65%	75%	80%
Gerald M. Cox, CGC, CUC	70%	75%	85%
Thomas J. Galloway, PSM	60%	65%	75%
Randall "Randy" L. Roberts, PSM	70%	75%	80%
Amy E. Daly	60%	70%	80%
Aaron Moore	70%	75%	80%



## 2. Brief Resumes

Name	Title	Years of Experience/ Years with CPH	Education/Licenses
David A. Gierach, P.E., CGC	Principal-in-Charge	Total 29 With CPH 19	B.S.- Environmental Engineering, University of Florida, Licensed Professional Engineer- Florida (No. 38642), General Contractor License (No. CGCO60789)
Jason Toole, P.E., LEED AP	Project Manager	Total 10 With CPH 6	B.S., University of Florida, Civil Engineering Honors, Licensed Professional Engineer- Florida (No. 66531), LEED Accredited Professional, FDEP Stormwater Management Inspector
Yvonne Paguada, P.E.	Project Engineer	Total 10 With CPH 4	B.S., University of Florida, Environmental Engineering, Licensed Professional Engineer- Florida (No. 67437), FDEP Stormwater Management Inspector
Julio Paguada	Project Designer	Total 11 With CPH 6	Technical Degree in Architectural Engineering, West Side Technical FDEP Stormwater Management Inspector
David E. Mahler, P.E.	Project Engineer	Total 21 With CPH 12	B.S. Environmental Engineering, University of Central Florida, Licensed Professional Engineer - Florida (No. 50041)
Terry M. Zaudtke, P.E., BCEE	QA/QC	Total 34 With CPH 28	M.S. Civil Engineering, University of Minnesota, B.S. Civil Engineering, University of Minnesota, Professional Engineer States of Florida (No. 32928) and Minnesota
Scott A. Breitenstein, P.E.	Project Engineer	Total 19 With CPH 10	B.S. - Environmental Engineering, UCF Licensed Professional Engineer- Florida (No. 57402)
William C. Goucher, P.E.	Project Engineer	Total 34 With CPH 2	Licensed Professional Engineer- Florida (No. 20700)
Lawrence O. Pultz, P.E.	Project Engineer	Total 7 With CPH 7	B.S. Civil Engineering, University of Central Florida, Licensed Professional Engineer- Florida (No. 70947)
William Wade Wood III, P.E.	Project Engineer	Total 7 With CPH 7	B.S. Environmental Engineering, University of Central Florida, Licensed Professional Engineer -Florida (No. 69051)
Stephen N. Romano, P.E.	Project Engineer	Total 12 With CPH 12	B.S., University of Central Florida, Environmental Engineering Honors Professional Engineer, State of Florida
Charles A. Jensen, CET	Project Designer	Total 32 With CPH 28	Associate of Science in Engineering Technology, National Institute for Certification in Engineering Technologies
Gerald M. Cox, CGC, CUC	Project Designer	Total 35 With CPH 9	B.S.- Building Construction, University of Florida, Florida Certified General Contractor (No. CGC010771), Florida Certified Utility Contractor, (No. CUC051667)
Thomas J. Galloway, PSM	Project Surveyor	Total 17 With CPH 8	B.S. Surveying and Mapping, University of Florida, Professional Surveyor & Mapper LS 6549
Randall "Randy" L. Roberts, PSM	Project Surveyor	Total 36 With CPH 5	Honor Graduate of University of Florida Surveying Program, College of Engineering, Florida Professional Surveyor & Mapper #3144
Amy E. Daly	Environmental Scientist	Total 17 With CPH 6.5	B.S.- Biological Sciences, Florida State University, M.B.A.- FMU, Summa Cum Laude, U.S. Army Corps of Engineers Wetland Delineation Course, Florida Unified Mitigation Methodology Course, FDEP Certified Stormwater Inspector, Prescribed Burne
Aaron Moore	Environmental Scientist	Total 10 With CPH 5	B.S. Biology, 2001, UCF, Minor Studies, Chemistry, Authorized Gopher Tortoise Agent, (GTA -09-00125), Southwest Florida Water Management District, Soils Identification Course, Florida United Mitigation Assessment Methodology Course, ACOE Wetland Delineator

### 3. Experience of Individual

#### David A. Gierach, P.E., CGC

##### Projects:

- Palm Coast Water Treatment Plant #3
  - **Role:** Principal
  - **Cost:** \$17,671,911
- Palm Coast Wastewater Treatment Facility
  - **Role:** Principal
  - **Cost:** \$11.8 Million
- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Principal
  - **Cost:** \$18.5 Million
- Sanford South Water Resource Center
  - **Role:** Principal
  - **Cost:** \$20,000,000

#### Jason Toole, P.E., LEED AP

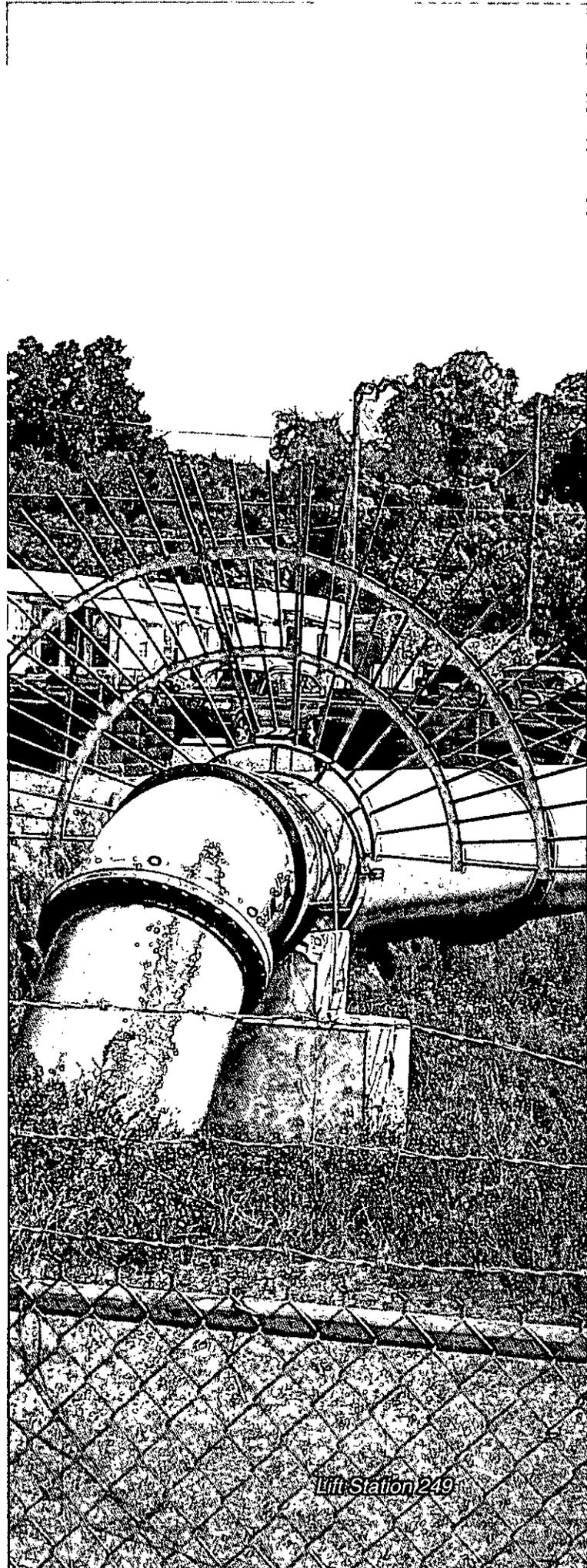
##### Projects:

- Southwood Lowe's (Project Died)
  - **Role:** Project Manager
  - **Cost:** \$6,683,700.00
- Southwood McDonald's
  - **Role:** Project Manager
  - **Cost:** Approximately \$1 Million
- Capital Circle McDonald's
  - **Role:** Project Manager
  - **Cost:** Approximately \$1 Million
- Governor's Square McDonald's
  - **Role:** Project Manager
  - **Cost:** Approximately \$1 Million

#### Yvonne Paguada, P.E.

##### Projects:

- Southwood Lowe's (Project Died)
  - **Role:** Project Engineer
  - **Cost:** \$6,683,700.00
- Southwood McDonald's
  - **Role:** Project Engineer
  - **Cost:** Approximately \$1 Million
- Capital Circle McDonald's
  - **Role:** Project Engineer
  - **Cost:** Approximately \$1 Million



- Governor's Square McDonald's
  - **Role:** Project Engineer
  - **Cost:** Approximately \$1 Million

**Julio Paguada**

Projects:

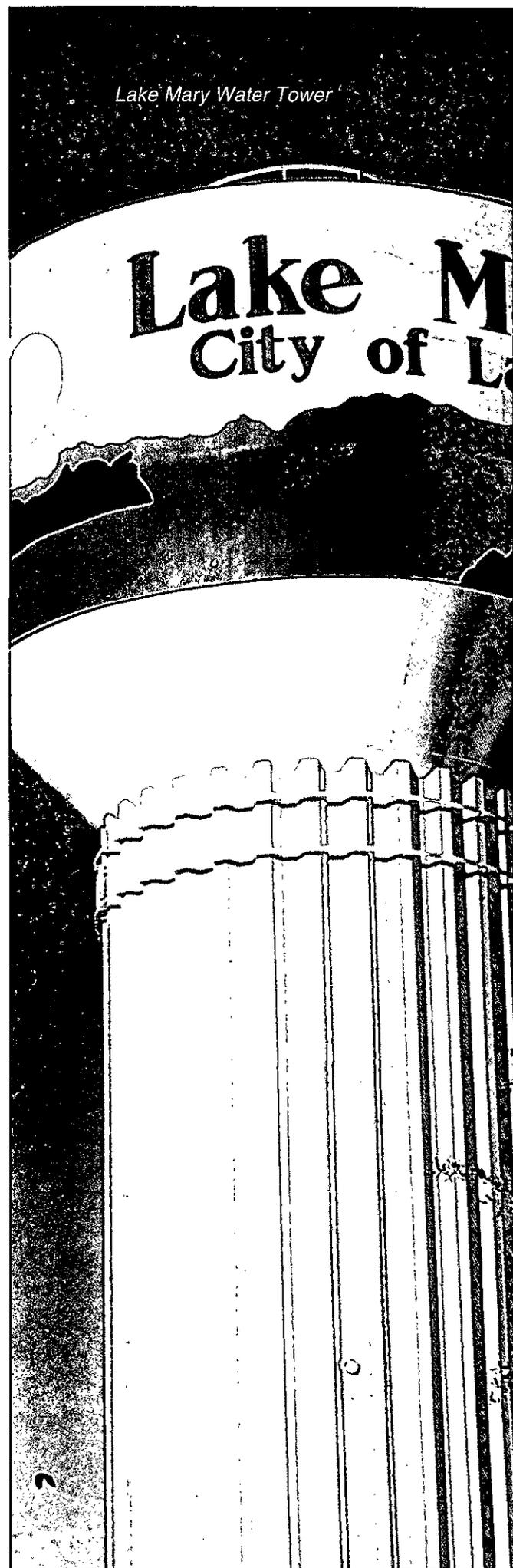
- Southwood Lowe's (Project Died)
  - **Role:** Project Designer
  - **Cost:** \$6,683,700.00
- Southwood McDonald's
  - **Role:** Project Designer
  - **Cost:** Approximately \$1 Million
- Capital Circle McDonald's
  - **Role:** Project Designer
  - **Cost:** Approximately \$1 Million
- Governor's Square McDonald's
  - **Role:** Project Designer
  - **Cost:** Approximately \$1 Million

**David E. Mahler, P.E.**

- City of Winter Springs Water Treatment Plant
  - **Role:** Project Manager
  - **Cost:** \$450,000
- Lake Alfred WWTF Upgrade and Expansion Project
  - **Role:** Project Manager
  - **Cost:** \$4.6 Million
- S.R. 50 Utility Relocation Project
  - **Role:** Project Manager
  - **Cost:** \$16.5 Million (Design)
- S.R. 426 Utility Relocation Project
  - **Role:** Project Manager
  - **Cost:** \$3.2 Million

**Terry M. Zaudtke, P.E., BCEE**

- City of Winter Springs Water Treatment Plant
  - **Role:** Principal
  - **Cost:** \$450,000
- Lake Alfred WWTF Upgrade and Expansion Project
  - **Role:** Principal
  - **Cost:** \$4.6 Million
- City of Eustis Wastewater Treatment Facility Expansion
  - **Role:** Project Manager



- **Cost:** \$6.5 Million
- Casselberry Water Reclamation Facility
  - **Role:** Project Manager
  - **Cost:** \$1.3 Million

**Scott A. Breitenstein, P.E.**

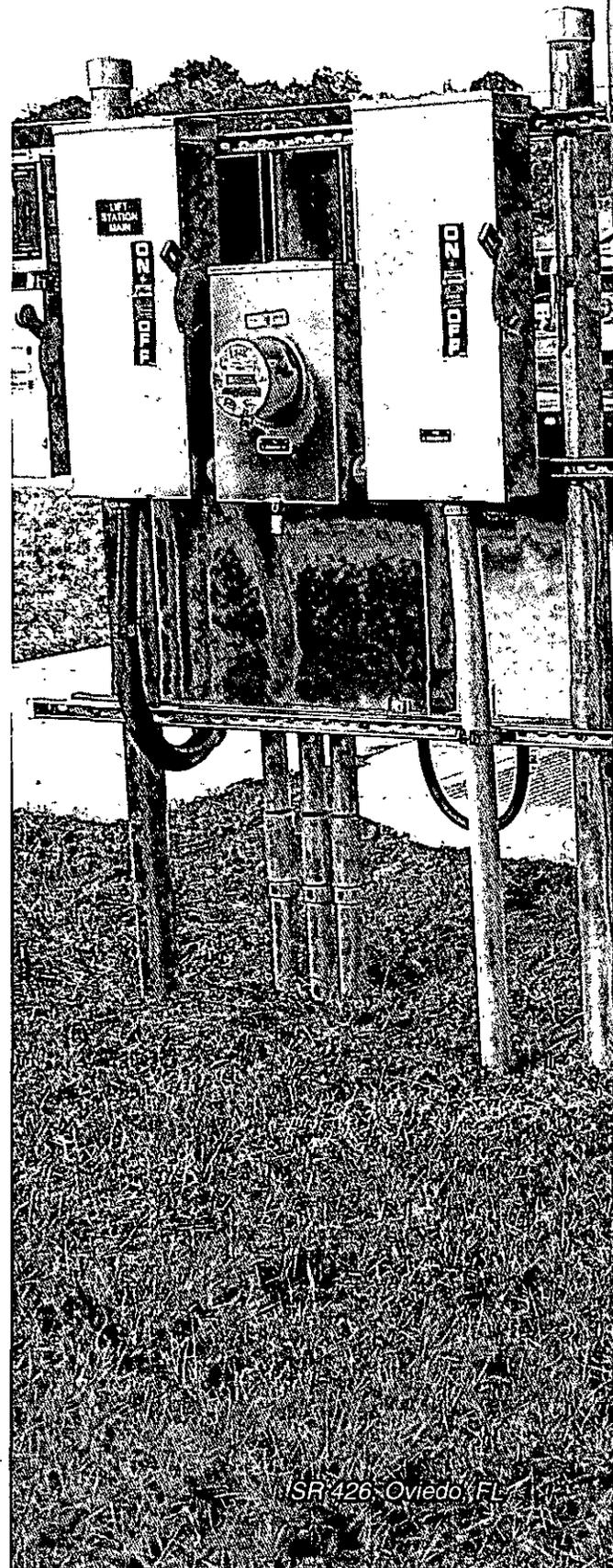
- Lake Alfred WWTF Upgrade and Expansion Project
  - **Role:** Project Engineer
  - **Cost:** \$4.6 Million
- City of Eustis Wastewater Treatment Facility Expansion
  - **Role:** Project Engineer
  - **Cost:** \$6.5 Million
- Casselberry Water Reclamation Facility
  - **Role:** Project Engineer
  - **Cost:** \$1.3 Million

**William C. Goucher, P.E.**

- City of Eustis Wastewater Treatment Facility Expansion
  - **Role:** Project Engineer
  - **Cost:** \$6.5 Million
- Casselberry Water Reclamation Facility
  - **Role:** Project Engineer
  - **Cost:** \$1.3 Million

**Lawrence O. Pultz, P.E.**

- City of Winter Springs Water Treatment Plant
  - **Role:** Project Engineer
  - **Cost:** \$450,000
- Lake Alfred WWTF Upgrade and Expansion Project
  - **Role:** Project Engineer
  - **Cost:** \$4.6 Million
- S.R. 50 Utility Relocation Project
  - **Role:** Project Engineer
  - **Cost:** \$16.5 Million (Design)
- S.R. 426 Utility Relocation Project
  - **Role:** Project Engineer
  - **Cost:** \$3.2 Million



### **William Wade Wood III, P.E.**

- Lake Alfred WWTF Upgrade and Expansion Project
  - **Role:** Project Engineer
  - **Cost:** \$4.6 Million
- S.R. 426 Utility Relocation Project
  - **Role:** Project Engineer
  - **Cost:** \$3.2 Million

### **Stephen N. Romano, P.E.**

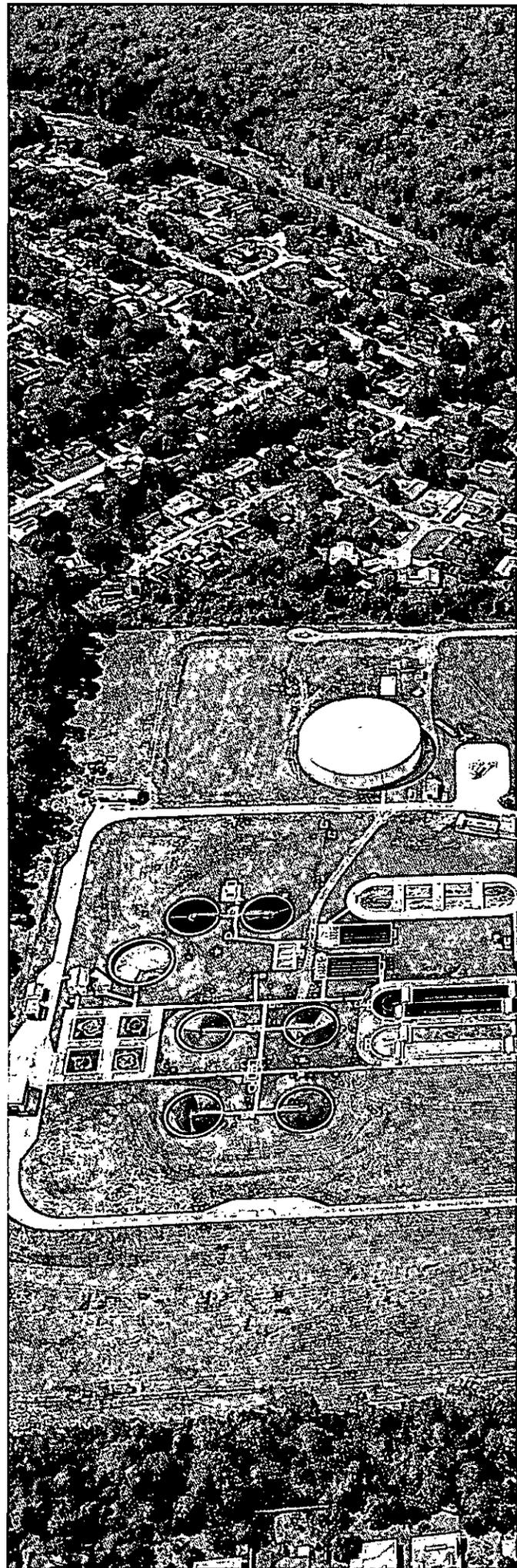
- Lake Groves WTP
  - **Role:** Project Manager
  - **Cost:** \$6 Million

### **Charles A. Jensen, CET**

- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Designer
  - **Cost:** \$18.5 Million
- City of Palm Coast Biosolids, Reclaimed Water and Aerobic Digestion Improvements
  - **Role:** Designer
  - **Cost:** \$5.3 Million
- Southwest Wastewater Treatment Plant
  - **Role:** Project Manager
  - **Cost:** \$11 Million
- Northeast Regional Water Reclamation Facility Expansion
  - **Role:** Project Manager
  - **Cost:** \$4 Million

### **Gerald M. Cox, CGC, CUC**

- Palm Coast Water Treatment Plant #3
  - **Role:** Project Manager
  - **Cost:** \$17,671,911
- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Project Manager
  - **Cost:** \$18.5 Million



### Thomas J. Galloway, PSM

- Palm Coast Water Treatment Plant #3
  - **Role:** Surveyor
  - **Cost:** \$17,671,911
- Sanford, Lake Mary and Seminole County Tri-Party Reclaimed Water Distribution System
  - **Role:** Surveyor
  - **Cost:** \$5 Million (Sanford Portion)

### Amy E. Daly

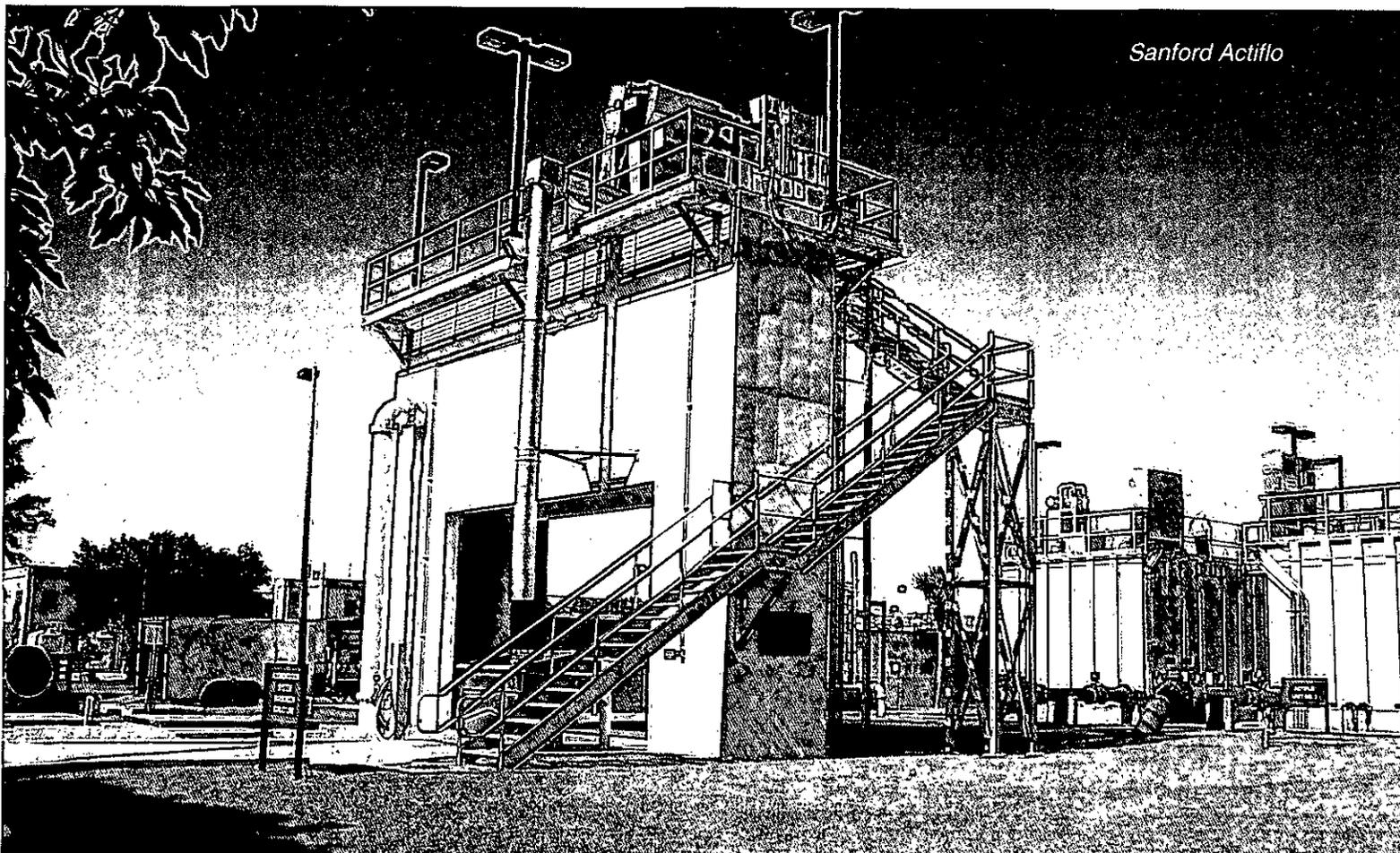
- Sanford South Water Resource Center
  - **Role:** Environmental Scientist
  - **Cost:** \$20,000,000
- Palm Coast Water Treatment Plant #3
  - **Role:** Environmental Scientist
  - **Cost:** \$17,671,911
- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Environmental Scientist
  - **Cost:** \$18.5 Million

### Randall "Randy" L. Roberts, PSM

- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Surveyor
  - **Cost:** \$18.5 Million

### Aaron Moore

- Palm Coast Water Treatment Plant #3
  - **Role:** Environmental Scientist
  - **Cost:** \$17,671,911
- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Environmental Scientist
  - **Cost:** \$18.5 Million



**Academic Credentials**

B.S. Environmental Engineering,  
University of Florida, Gainesville, Florida

**Licenses & Certifications**

Licensed Professional Engineer, Florida  
(No. 38642)  
General Contractor License CG-CO60789  
Licensed Professional Engineer,  
Connecticut (No. 0025574)

**Principal Areas of Expertise**

Master Water/Wastewater/Reclaimed  
Water Plans

Planning, Design and Engineering Services  
during construction for water, wastewater,  
and reclaimed water type projects

Road Design and Construction  
Engineering and Inspection

Design and Construction of water supply,  
treatment and distribution systems

Stormwater management, land  
development projects, recreational facility  
design

Major wastewater treatment plants, water  
reclamation facilities, wastewater collection  
systems, and reclaimed water systems

**Professional Activities**

ASCE  
Water Environment Federation  
North American Lake Management Society  
American Society of Testing Materials  
American Water Resources Associates

Mr. Gierach serves CPH Engineers, Inc. as President. He has specialized in planning, design and engineering services during construction for road projects, water, wastewater, and reclaimed water type projects. He has prepared Master Water/Wastewater/Reclaimed Water Plans for clients such as the City of Casselberry, Winter Springs, Volusia County, Seminole County, the U.S. Navy, and others. He has extensive experience in the design of major wastewater treatment plants, water reclamation facilities, wastewater collection systems, control and SCADA systems, and reclaimed water systems, and he has provided such services to clients including the Cities of Sanford, Lake Mary, Casselberry, Winter Springs, Orlando, the U.S. Navy and Volusia County for numerous projects. He has extensive experience in the design of water supply, treatment and distribution systems, and has provided services to the Cities of Sanford and Casselberry, Sanlando Utilities, Volusia County, and others. Mr. Gierach also has experience in stormwater management, land development projects, recreational facility design and road design. He has provided services in these fields to various private clients and to public clients such as the U.S. Navy, City of Lake Mary, Volusia County, Seminole County, and others.

Mr. Gierach served four years as an Officer in the United States Navy, Civil Engineer Corps before joining the firm of CPH. During his time in the Navy, Mr. Gierach served two years as the Assistant Officer in Charge of Construction at Naval Weapons Support Center, Crane, Indiana. His responsibilities in this position included assisting in the supervision and operation of a contract administration staff consisting of four engineers, seven construction inspectors, and four contract specialist personnel. In addition, he served as Project Manager in charge of the contract administration of construction contracts valued at over \$6 million annually. The project types varied from the construction of a \$2 million remote-controlled Plastic Bonded Explosive Production Facility to installation of force mains, water lines, and office facilities. He also served two years as an assistant to the Public Works Officer at Naval Support Activity, New Orleans, Louisiana. In this position, his primary responsibility was preparation and contract administration of over \$750,000 annually of Public Works maintenance contracts.

## Academic Credentials

B.S., University of Florida, 2003  
Civil Engineering Honors

## Licenses

Professional Engineer – State of Florida

## Certifications

LEED Accredited Professional  
FDEP Stormwater Management Inspector

## Principal Areas of Expertise

Commercial land development including general site planning, stormwater management modeling analysis, lift station design, and permitting of sites through various jurisdictional agencies.

## Professional Activities

Tau Beta Pi

Mr. Toole serves the firm of CPH Engineers, Inc. as a Project Manager/Engineer and the Branch Manager of the firm's Panama City office. He is responsible for design and engineering infrastructure, grading, drainage, potable water, sanitary sewer systems, lift station design, as well as the preparation and processing of permits through various regulatory agencies. While at CPH, Mr. Toole has served as principal, program manager, and project engineer for complex projects that have involved coordination with the public, government entities, and other consultants. Currently, he serves as Program Manager for the Firm's SunTrust Bank development program, where he manages various design teams for SunTrust's Florida Redevelopment program. Mr. Toole has over 8 years of experience and is a Registered Professional Engineer in Florida.

Prior to working with CPH Engineers, Inc., Mr. Toole worked as an intern for the Florida Department of Transportation. During this time he gained valuable experience in conducting roadway inspections, testing construction materials, and researching test methods and equipment.

Additional Experience includes:

**General Site Development Projects:** Planning and site layout, stormwater and utilities design, large & small-scale Comprehensive Plan amendments, rezoning, permitting, public presentation, pollution prevention plan preparation, construction estimating, and site inspection.

Recent development projects include:

**Lowe's, Ensley (Escambia County), FL** – Commercial Retail. Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**Wal-Mart, Estero, FL** – Commercial Retail. Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**Wal-Mart Neighborhood Market, Cape Coral, FL** – Commercial Grocery. Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**SunTrust Bank Program** – Serves as Program Manager for SunTrust's statewide development program. Responsible for coordinating the permitting efforts of all civil related activities for all new sites within the State of Florida.

**Academic Credentials**

B.S., University of Florida, 2003  
Environmental Engineering

**Licenses**

Professional Engineer – State of Florida  
No. 67437

**Certifications**

FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Stormwater Management Systems  
Utility Systems Modeling  
Land Development  
Transportation  
Permitting  
Construction Administration  
Construction Inspection

**Professional Activities**

Florida Engineering Society

**Modeling Software Experience**

ASAD, ICPR, Adds, HEC-RAS, Ponds,  
FlowMaster, CulvertMaster, WaterCAD,  
SewerCAD, AutoCAD, MicroStation,

Mrs. Paguada serves the firm of CPH Engineers, Inc. as a Senior Project Manager. She has over ten years of experience in project management, including the design and engineering of both public and private sector projects. She is experienced in large and small scale stormwater management design, large and small scale land development projects, construction administration and oversight involving inspection of SWPPP controls, utility installations, and reviewing as-built surveys. Mrs. Paguada's experience in land development projects include new and redeveloped sites which include site layout, grading, and design of the necessary utilities. Several of which include utility design and permitting for items such as lift stations, fire water main/tank, utility main extensions, and directional bore installations.

Mrs. Paguada's representative projects include:

***Wal-Mart, Destin East (Walton County), FL – 10.15 acre site***

Mrs. Paguada served as the project engineer responsible for the design and permitting for a new Wal-Mart store. The stormwater management system consisted of a dry retention pond in order to provide for the necessary stormwater treatment and attenuation while not encouraging mosquito breeding. The utilities design included a new lift station, fire water tank and pump, and irrigation well. The project also included a new turn lane and driveway off of State Road 98 which required additional permitting and coordination between FDOT, FDEP, Walton Co. and the local utility companies.

***Lowe's, West Pensacola (Escambia County), FL – 10.02 acre site***

Mrs. Paguada served as a project engineer responsible for the design of the site grading, stormwater management system, utility layout involving a new lift station, nearly one mile of force main extension, and permitting of the site. The stormwater runoff for this project was designed to discharge to an Escambia County pond. This allowed us to work closely with Escambia County to update their ICPR and GIS shape files for this particular drainage basin.

***Poinciana Parkway, Polk and Osceola Counties, FL***

Mrs. Paguada served as project engineer performing stormwater management design and permitting for the 10-mile roadway corridor. Stormwater design included 7 wet detention ponds serving a combination of side swales and storm sewer throughout. Mrs. Paguada assisted in conducting culvert analysis and design to allow for the conveyance of existing wetland flow and habitat critter crossings since a portion of the project crossed through wetlands and a wetland mitigation bank. In addition, Mrs. Paguada completed floodplain compensation calculations for this project.

***Poinciana - Adult Retirement Community, Osceola County, FL***

Mrs. Paguada worked as a project engineer for the proposed 200+ acre retirement community to design the stormwater management master plan that would include interconnected wet detention ponds and conservation areas throughout. She was responsible for assessing the pre-development condition of the land by developing a ICPR model to represent the existing hydrology (areas of water storage and conveyance) of the land.

**Academic Credentials**

Technical Degree in Architectural Engineering, West Side Technical, 2000

**Certifications**

FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Land Development  
Utility Layouts and Details  
Roadway Layouts and Details  
Construction Plans Preparation  
Permitting  
Construction Administration  
Construction Inspection

**Professional Activities**

Florida Engineering Society

**Software Experience**

Autocadd, Autoturn, microsoft office,

Mr. Paguada serves the firm of CPH Engineers, Inc. as a Project Designer. Mr. Paguada has over 6 years of Civil Engineering experience and over 3 years of Architectural design experience. His experience includes mixed-use developments, residential neighborhoods, redevelopments of existing sites, and retail shopping centers. Mr. Paguada has expertise in site layout to achieve the best possible use of the land considering sound engineering, cost, public safety, and constructability. He is experienced with laying out roadways, buildings, grading, drainage (detention, retention, and underground systems), potable water, and sanitary sewer; and presenting them in plan, profile, and/or cross-sectional views. In addition, Mr. Paguada provides the supporting specs, details, SWPPP plans, demo plans, and/or MOT plans as necessary for the project. He is skilled with coordinating between the various parties necessary to complete the project design; such as, survey, landscaping, geotechnical, environmental, and/or structural. Furthermore, Mr. Paguada has experience in construction administration, coordination, and oversight involving inspection of SWPPP controls, utility installations, and reviewing as-built surveys.

Mr. Paguada's representative projects include:

**Lowe's, West Pensacola (Escambia County), FL**

This 27.76 acre project included 15 acres of wetlands. Mr. Paguada provided several alternative site layouts in order to achieve a layout to make best use of the property while impacting the least amount of wetlands. Off-site roadway improvements included approximately 0.5 mile of additional turn lanes and traffic signal on the abutting super elevated section of Blue Angel Parkway.

**Lowe's, Ensley (Escambia County), FL**

Mr. Paguada was responsible for laying out this site to include a Lowe's store, four outparcels, two driveway connections, and all of the necessary infrastructure. This project included a new lift station with approximately 1 mile of 4-inch force main. A detailed demolition plan was also needed for demolition of the existing homes, nursery, vacated roadways, and utilities. Offsite improvements to West Nine Mile Road included approximately 1 mile of additional turn lanes, realignment, and restriping.

**McDonald's, Capital Circle (City of Tallahassee), FL****McDonald's, Governor Square (City of Tallahassee), FL****SunTrust, Santa Rosa (City of Santa Rosa), FL**

**Academic Credentials**

Bachelor of Science in Environmental Engineering, University of Central Florida

**Licenses**

Licensed Professional Engineer - Florida (No. 50041)

**Principal Areas of Expertise**

Water Supply, Treatment, Pumping, Storage and Distribution  
Wastewater Collection, Treatment and Pumping  
Reclaimed Water Storage, Pumping and Distribution  
Utility System Relocations  
Utility Systems Modeling  
Land Development

**Professional Activities**

Florida Engineering Society  
Water Environmental Federation  
American Society of Civil Engineers

Mr. Mahler serves the firm of CPH Engineers, Inc. as Senior Vice President and Branch Manager of the Orlando Office. Mr. Mahler is a Project Manager/Project Engineer for municipal and private clients. Mr. Mahler has been involved with Planning, design and permitting for treatment facility improvements, collection and distribution system design, and modeling as well as utility coordination, utility line extension and relocation projects for both municipal and private clients. In addition, Mr. Mahler specializes in relocation of existing utilities associated with roadway projects. He has also been involved with utility system evaluations, SCADA control systems design and operations, as well as land development and roadway design and permitting for private clients.

Mr. Mahler has over 20 years of experience in consulting engineering experience in both municipal government and private industry. Some examples of projects completed are as follows:

*Orange County Utilities-S.R. 50 Utility Relocation (Phases 1, 2, and 3)*

Mr. Mahler is the Project Manager and Engineer of Record on all phases of the SR 50 Utility Relocation project. Combined, the projects include approximately 14 miles of water and sewer system installations and relocations. The size of the utility lines range from 4" to 30" and include water mains, gravity collection system and force mains. The project also included the addition of a master triplex pump station in the Phase 1 portion of the project. All three phases are Joint Project Agreements (JPA) between the FDOT and OCU.

*City of Oviedo – S.R. 426*

Mr. Mahler worked as Project Manager and Engineer of Record for this project which involved the design of 5,000 LF of gravity sewer, 4,000 LF of water main, 1,500 LF of force main as well as a duplex pump station. This project was a JPA project between the City of Oviedo and FDOT.

*Orange County Utilities- Universal Boulevard Force Main*

Mr. Mahler was the Project Manager and Engineer of Record for this project. The work included the design of 9,300 LF of 24" force main along Universal Boulevard, Point Plaza Ave, as well as crossings of International Drive, I-4 and Turkey Lake Road. The Interstate 4 crossing was a 330 LF - 42" jack and bore. The project also included approximately 2,300 LF of directional drills. The location of this project next to the Orange County Convention Center which made it a highly visible project. Special permitting and coordination had to be performed with multiple agencies and groups, including FDOT, FDEP, Orange County, City of Orlando, and the Convention Center. CPH successfully permitted this project through the coordination of all of these entities.

**Academic Credentials**

M.S. Civil Engineering  
University of Minnesota, 1979  
B.S. Civil Engineering  
University of Minnesota, 1976

**Licenses**

Professional Engineer  
States of Florida and Minnesota

**Principal Areas of Expertise**

Quality Assurance and Quality Control  
Water Supply, Pumping and Treatment  
Water Distribution  
Wastewater Collection, Transmission and  
Treatment  
Reclaimed Water Treatment and  
Distribution  
Collection System Rehab  
Municipal Engineering

**Professional Activities**

American Academy of Environmental  
Engineers – Board Certified Environmental  
Engineer  
Listed in Who's Who in Environmental  
Engineering  
American Society of Civil Engineers, Past  
Officer  
Construction Specification Institute  
American Concrete Institute  
Concrete Reinforcing Institute  
Chi Epsilon  
Quill and Scroll, an honorary Journalism  
Society  
VITA – Volunteers in Technical Assistance  
Water Environment Federation  
ACI – Certified Structural Masonry  
Inspector  
Engineers Without Borders Member

Mr. Zaudtke serves the firm of CPH Engineers, Inc. as Project Manager/Engineer for both public and private civil projects in his areas of expertise of Environmental and Civil Engineering. These projects include work in land development, municipal engineering, water and sewer facilities, drainage, waste treatment, and water supply.

Mr. Zaudtke has served as the Project Manager and Engineer for the City of Casselberry, U.S. Navy, City of Orlando, City of Winter Springs, City of Lake Alfred, City of Eustis, Seminole County, Orange County, Key Largo Wastewater Treatment District, and Utilities, Inc.

Mr. Zaudtke has over 33 years of consulting engineering experience, with technical duties ranging from feasibility studies through construction engineering activities. He has directly worked on all aspects of civil engineering projects, including studies, designs, permitting, inspections, financing and construction administration. The range of projects includes wastewater treatment, water treatment, water supply, water distribution, wastewater collection, sewer system rehabilitation, reclaimed water, storm drainage, and other municipal engineering activities.

For over 33 years, Mr. Zaudtke has been working as a consultant with public and private utilities on water, wastewater and reclaimed water systems. Mr. Zaudtke has been actively involved in the State of Florida SRF loan and grants program. He was the engineer of record on the first SRF loan issued in the State of Florida for the City of Sanford in 1987. He also was instrumental in obtaining Step 2 plus 3 grants (small community grants) in the early 1980's for the Cities of Eustis, Casselberry and Winter Springs. He has served on Technical Advisory Committees (TAC) for the State of Florida - Bureau of Local Government Financial Assistance. These TAC duties have kept him in the forefront of the rule making process.

Mr. Zaudtke was the Project Manager and Engineer for the Guam Sewer Project for the US Naval Station under a design/build contract and included design, wetlands permitting, and EC&I work throughout the project. We retrofit over ten miles of gravity and forcemain sewers.

Prior to joining CPH in 1982, Mr. Zaudtke worked as the Research Engineer for the City of Duluth, Minnesota on a Direct Filtration water treatment plant for the removal of asbestos-like fibers. He was also the Staff Engineer for a 43 MGD advanced wastewater treatment facility for the Western Lake Superior Sanitary District.

**Academic Credentials**

University of Central Florida  
Bachelor of Science Degree  
Environmental Engineering

**Licenses**

Professional Engineer, State of Florida

**Principal Areas of Expertise**

CUP Permitting  
FDEP Water and Wastewater Permitting  
Reclaimed Water Systems  
Water Distribution Systems  
Collection and Transmission Systems  
Lift Station Design  
Water Treatment Plant Design  
Wastewater Treatment Plant Design  
Water Master Plans  
Wastewater Master Plans

Mr. Breitenstein serves the firm of CPH Engineers, Inc. as Vice President/Associate and Project Manager. He has over 19 years of experience in Engineering, including more than 7 years with the Florida Department of Environmental Protection (FDEP). During his time with FDEP, he developed a good understanding of permitting and compliance issues related to water and wastewater treatment and infrastructure facilities.

Mr. Breitenstein has been with CPH Engineers, Inc. since December 2000. Mr. Breitenstein's work at CPH includes designing and permitting treatment facilities, preparing master water and wastewater plans, consumptive use permitting (two 20 year permits to date), facility retrofits, wastewater treatment facility operating permit renewals, water and wastewater conveyance system design and permitting, and SRF funding work. More specifically, he has developed a total of eight (8) Master Water and/or Wastewater Plans for four different municipal clients. In addition, he assisted a municipal client in obtaining a \$4.6 million SRF Construction Loan for a new WWTF project.

As the Engineer of Record, Mr. Breitenstein has provided design, permitting, bidding and construction administration services on a 1.8 MGD WTP, 0.300 MGD WWTF, 1.0 MGD WWTF and retrofit, water booster pumping station with a 500,000 gallon GST, four (4) 16-inch/1,500 gpm potable water wells, and water and force main installations from 8-inch up to 20 inches in size.

Mr. Breitenstein continues to work on a variety of utility projects for CPH's clients.

**Academic Credentials**

M.S. Environmental Engineering  
University of Central Florida, 1976  
B.S.E. Civil Engineering  
University of South Florida, 1972

**Licenses**

Professional Engineer - State of Florida

**Principal Areas of Expertise**

- √ Project Management
- √ Quality Assurance and Quality Control
- √ Water Supply, Treatment, Pumping and Water Distribution
- √ Wastewater Collection, Transmission, Treatment and Reuse
- √ Collection System Rehabilitation
- √ Reclaimed Water Treatment and Distribution
- √ Municipal Engineering

**Professional Activities**

American Water Works Association

Mr. Goucher serves the firm of CPH Engineers, Inc. as Project Manager/Engineer for public infrastructure projects in his areas of expertise of Environmental and Civil Engineering. These projects include work in municipal engineering, water and sewer facilities, drainage, waste treatment, and water supply.

Prior to joining CPH, Mr. Goucher served as Assistant Public Works Director/City Engineer for the City of Casselberry for a total of 8 years. As Assistant Public Works Director, his duties included planning, budget preparation, managing capital improvements projects, managing consulting engineering contracts, reviewing development plans, permitting, providing construction administration and providing general engineering support to other city departments and operations personnel.

He also served as West Region Engineer for Florida Water Services Corporation for six years. As West Region Engineer for Florida Water Services Corporation, Mr. Goucher planned and managed the engineering capital projects in a 9-county region, containing 43 water treatment and distribution and 27 wastewater collection and treatment systems. Mr. Goucher was responsible for preparing and managing capital budgets and schedules, managing consulting engineering contracts, providing in-house design, reviewing and approving design plans and specifications, providing construction administration and providing general engineering input to operations personnel.

Mr. Goucher also has over 18 years of consulting engineering experience as an Environmental Engineer and Project Manager for projects in the Cities of Casselberry, Jacksonville, Kissimmee, Lakeland, Ocala, Ocoee, Orlando, Oviedo, Palm Coast and Winter Springs, and in the Counties of Orange and Palm Beach, with technical duties ranging from feasibility studies through construction engineering activities. He has directly worked on all aspects of civil engineering projects, including studies, design, permitting, inspections, financing and construction administration. The range of projects includes wastewater treatment, water treatment, water supply, water distribution, wastewater collection, sewer system rehabilitation, reclaimed water, storm drainage, solid waste and other municipal engineering activities.

His duties have included:

- ◆ Planning
- ◆ Design
- ◆ Estimating and budgeting
- ◆ Contracts/Subcontracts
- ◆ Permitting
- ◆ Financing, Disbursements and Compliance – CDBG, SRF
- ◆ Construction Inspection and Administration

**Academic Credentials**

B.S. Civil Engineering,  
University of Central Florida,

**Licenses**

Professional Engineer, State of Florida, 2009

**Principal Areas of Expertise**

Design, Permitting, and Construction Administration  
of Public and Private Site Development Projects.

Design, Permitting, and Construction Administration  
of Public and Private Utility systems.

Mr. Pultz is employed by CPH Engineers, Inc. in the capacity of Project Engineer working in the area of water resources, municipal utilities, and site engineering.

- Currently assisting with the Design and Permitting of the following projects:
  1. A paving project for the City of Winter Springs which involves the conversion of dirt roads to paved roads for the existing Ranchlands community
  2. Investors Row Force Main Replacement project involving the replacement of an existing 16" DIP force main with a 16" PVC force main for Orange County Utilities.
  3. Delegates Drive Pump Station includes the addition of fuel tank and generator to a proposed pump station modification layout for Orange County Utilities.
  
- Currently assisting with the Construction Administration of the following projects:
  1. Multi-phase residential subdivision within the City of Apopka for KB Home.
  2. Lake County Schools High School "BBB" in Minneola, Florida.
  3. Most Precious Blood Catholic Church in Oviedo, Florida.
  
- The following are recently completed projects that Mr. Pultz has assisted with involving design, permitting and construction administration:
  - Grand Island Booster Station for City of Eustis.
  - C.R. 44 Well #3 and Water Treatment Plant modification for the City of Eustis.
  - T.D. Taylor Middle-High School/Sunrise Elementary School WWTP replacement / relocation project.
  - Driveway and parking lot improvements for multiple Volusia County School facilities, such as Ortona Elementary, TT Small Elementary, New Smyrna Beach Transportation Facility and Ormond Beach Transportation Facility.

Mr. Pultz graduated from the University of Central Florida August 2003 with knowledge in computer applications involving AutoCAD, WaterCAD, storm sewer, hydraulic pipe networks, hydrology, Microsoft Word, and Excel.

**Academic Credentials**

B.S. Environmental Engineering,  
University of Central Florida, 2003

**Licenses**

Professional Engineer (FL# - 69051)

**Principal Areas of Expertise****Utility Design & Permitting**

- Water Treatment
- Wastewater Treatment
- Reclaimed Water
- Water Distribution (Pumping & Piping)
- Wastewater Collection & Transmission
- Disinfection

**Water Use Permitting (CUP)****Utility Planning & Projections****Utility Systems Modeling (WaterCAD & Sewer CAD)****Utility Projects****Master Water/Wastewater Plans**

- City of Winter Garden
- Lake Utility Services, Inc.
- City of Mount Dora

**Modeling**

- Utilities Inc. of Florida
  - Sanlando
  - Alafaya Reclaimed
  - Wedgefield
  - Pennbrook
  - Lake Utility Services
- City of Winter Garden
- Oviedo Reclaimed
- City of Mount Dora
- Volusia County Well Field

**Water Use Permitting (CUP) – Including Water Conservation Plans**

- Lake Utility Services
- Sanlando Utilities
- Wedgefield Utilities
- City of Eustis
- Eustis Eastern Service Area
- Heathrow Country Estates
- Tangerine

**Utility Design**

- Lake Groves WTP Expansion
- Lake Groves WWTP Expansion; with Reclaimed Water Treatment
- Alafaya Utilities
- Orange County Reclaimed
- Various Utility Relocations

Wade Wood serves CPH Engineers, Inc. in the capacity of Project Manager. He has been with CPH since 2003. Mr. Wood has been involved with water, wastewater, and reclaimed water planning and design.

Mr. Wood has over 7 years experience working for private and municipal utilities. His involvement with Master Planning Projects include, client consultation, facilities evaluation, growth projections, project development, capital improvements program (CIP), and presentation to staff and commission.

**Master Plan Projects:**

- **City of Winter Garden Master Water Plan:** This project entailed an evaluation of the overall service, working with City staff to develop a 20-year population projection, based on the surrounding land use. After developing historic water use demands (per capita demands), we were able to generate a 20-year water use projection, which was utilized to evaluate the existing facilities, including the development of a WaterCAD model. This model was used to evaluate the existing and proposed water distribution system. The 20-year water use demands were applied to the model to evaluate the growth of the system. This along with the facility evaluations were used to develop the City CIP.
- **City of Oviedo Reclaimed Water Model:** This project included the construction of reclaimed water pumping and distribution model, that included interconnects with adjacent utilities. The model was developed to determine how the City's existing reclaimed water system would function with the interconnects. This included an evaluation on how the City's existing pump stations would function during irrigation periods and an evaluation on how much reclaimed water is would be required from each interconnect. This model was also used to develop the interconnect and location.
- **Various Utilities Inc. of Florida Model:** Each of these models; Sanlando, Lake Utilities, Wedgefield, Pennbrook, and Alafaya were used to evaluate the existing water and/or reclaimed water distribution systems. By running the model under different demands and operating scenarios, we were able to develop the most cost effective upgrades for the systems. Our findings along with the recommended upgrades were placed into an engineering report, which was then utilized for rate studies with the Public Service Commission.

**Academic Credentials**

B.S., University of Central Florida  
Environmental Engineering Honors

**Licenses**

Professional Engineer, State of Florida

**Principal Areas of Expertise**

Wastewater Treatment  
Water Treatment  
Reclaimed Water Systems  
Distribution and Collection Systems  
Modeling  
Master Planning

**Professional Activities**

Water Environment Federation

Mr. Romano has served the firm of CPH Engineers, Inc. as a Branch Manager of the firm's DeLand office and as a Project Manager for both public and private projects since 1996. Mr. Romano has been involved with the design of Water and Wastewater Treatment Facilities, Risk Management Planning, Reclaimed Water System design and has extensive computer hydraulic modeling of collection and distribution systems.

Recent projects include:

Southwest Regional WRF Expansion – Design of a new treatment train added to the existing wastewater facility in DeBary. The design included new biological treatment, a new combined tertiary/reclaimed treatment system, and a state of the art control system to integrate the facility. The project began with conceptual planning and treatment investigations, Facility planning and SRF funding, up to construction. The \$8M construction is due to be completed in early May 2010, five months ahead of schedule with no change orders.

Lake Groves WTP – This project included the addition of a 3500-gpm lower Florida well in South Lake County. Facility improvements included packed tower degasifiers and biofilters for odor control, a new operations and control building, new high service pumping, and new chemical systems.

Lake Utility Services – Design of water and wastewater treatment plant improvements. Planning and design to further interconnect and supply water to the south Lake County service area. This included approximately 7 miles of 16" water main along US 27, approximately 3 miles of 8" force main along US 27, several smaller piping projects, a booster pumping station designed to elevate system pressures, and water plant expansions to increase the capacity of the overall system.

Halifax Water and Sewer systems – Services have included recent studies for new shallow well aquifers at the RO facility, concentrate disposal permitting, consumptive use permitting, wastewater modifications and service area analyses including the siting and design of a new wastewater facility with increased reclaimed capacity.

Master Planning – Has been involved in the preparation of master plans for the Cities of Winter Springs, Casselberry, and Eustis, and the County of Volusia.

Miscellaneous Services – Has completed many projects ranging from chemical treatment systems, four-log removal analyses, hydraulic and constituent modeling analyses, as well as general permitting activities in support of our clients.

**Academic Credentials**

Associate of Science in Engineering  
Technology, National Institute for  
Certification in Engineering Technologies

**Principal Areas of Expertise**

Overseeing the design of Water and  
Wastewater Treatment Facilities  
Water & Sewer Transmission and  
Collection Design  
Construction Administration, CIP Planning  
for public utilities

**Professional Activities**

American Society of Certified Engineering  
Technicians

Mr. Jensen serves the firm of CPH Engineers, Inc. in the capacity of Senior Project Manager. His work consists of overseeing the design and construction administration of projects for municipal and private clients. In this capacity, Mr. Jensen meets with the owner to develop project scope, collect data, perform periodic reviews, and administer ongoing contracts. Other duties include meetings with regulatory agencies, review new technology and working with construction personnel .

Recent utility projects include:

**> Palm Coast - WTP No.3 LPRO**

Provided complete design and construction management services for a new water treatment facility and administration offices on a twenty-four acre campus located adjacent to U.S 1. Scope included, budgets, surveys, preliminary and final design, permitted the project with FDEP, FDOT, Army Corp Engineers, Flagler County, City of Palm Coast, and the St. Johns River Water Management District and provided full construction engineering and inspection Services for the project. The new water system consists of 3.0 MGD Low Pressure Reverse Osmosis skids, Well Field System Concentrate Treatment & Disposal System, and Finished water distribution System to Connect to existing distribution system.

**> Palm Coast - Cigar Lake Reclaimed Water Pump Station**

Performed design, permitting and construction services for a reclaimed water pump station for the City of Palm Coast. The pump station consists of a 40' x 76' building including a pump room, an electrical room, and a chemical feed room. Included in the pump room are three horizontal split case centrifugal pumps, tumble disk filter system, an air compressor, and a vacuum system for the pump priming. The chemical feed room has two 500 gallon storage tanks for sodium hypochlorite and a chemical feed pump skid. The pump stations ultimate capacity is designed for 10 MGD ADF.

**> Volusia County utilities - Saxon Woods Reclaimed Water System Expansion**

Provided design, permitting, Bidding services, and engineering Services during construction for the extension of a 12" reclaimed water line from Unit 21 along DeBary Plantation Boulevard, south across US 17&92 to Pine Valley Court in the Glen Abbey subdivision to a point of connection with an existing reclaimed water dry line installed by the developer of the Saxon Woods subdivision. This line provided reclaimed water to over 200 residences within the Saxon Woods Subdivision and to Grandview Apartments located on the North side of Saxon Boulevard.

**Academic Credentials**

B.S.- Building Construction  
University of Florida – 1976

**Licenses**

Florida Certified General Contractor,  
#CGC010771  
Florida Certified Utility Contractor,  
#CUC051667

**Principal Areas of Expertise**

Commercial  
Industrial  
Infrastructure  
Construction Management  
Utility Systems  
Value Engineering

Mr. Cox has 33 years of experience at all levels of construction. He has been involved in a wide variety of projects, encompassing multiple trades, in both domestic and international markets. His experience ranges from procurement to final completion (including estimating) of projects with a contract magnitude ranging from five to seven figures.

Mr. Cox has experience on projects constructed for numerous agencies of the federal government such as NASA, the U.S. Army Corps of Engineers, U. S. Navy, U.S. Air Force, Florida Keys Aquaduct Authority, as well as state and local governments in Florida. This extensive experience enables Mr. Cox to provide accurate, real world analysis of design projects relating to constructability, design value, and an overview for errors and omissions.

Mr. Cox, through his construction experience and education with a curriculum including numerous engineering and architectural design courses, has provided valuable construction and design analysis of numerous quality control projects since joining the CPH team. In addition to managing construction projects and providing QA Review of design efforts, Mr. Cox has also been a part of the design process. Projects, such as the Manalapan RO Water Treatment Plant, the Palm Coast LPRO Water Treatment Plant, and the Vacuum Sewer Conversion Systems for Basins A & D in Key Largo are representative of design programs that Mr. Cox has been a major part of the Design team. Recent project experience includes:

- Sanford Downtown Master Stormwater Project
- City of Stuart Sewer Evaluation
- Sanford South Water Resource Center
- City of Sanford City Hall (Remodel)
- Sanford – North Shore Marina Island Re-stabilization Project
- Department of Agriculture – Industrial Complex Renovations (Wauchula, FL)
- Palm Coast CIP 5-Year Program Management (QA/QC)
- City of Daytona – USTA Tennis Center (Design/Build)

Mr. Cox has provided numerous services for projects, including the ones identified above, that include:

- Estimating/Scheduling
- Design and Design Evaluation
- Logistics/Procurement
- Change Orders / Site Instructions
- Interpretation of Contract Documents
- Submittal Review / Shop Drawings
- Periodic Pay Requests

**Academic Credentials**

B.S. Surveying and Mapping, 1992  
University of Florida

**Licenses****Florida**

Surveyor & Mapper LS6549

**Puerto Rico**

Professional Land Surveyor No. 23387

**Alabama**

Professional Land Surveyor No. 31338-S

**Certification**

NCEES Record No. 1291

**Principal Areas of Expertise**

Surveying and Management  
Highway Projects  
Land Development/Commercial and  
Private Projects  
Municipal Projects

**Professional Activities**

The Florida Surveying and Mapping  
Society

Mr. Galloway has over 17 years of experience in the surveying and mapping profession, and has a Bachelor of Science of Surveying and Mapping from the University of Florida. His experience ranges from working in the field and office on small to large development projects, to serving as Party Chief / Survey CADD Technician, Project Manager and Survey Manager.

Mr. Galloway has served as Principal and Director of the Surveying Division of the firm since its establishment in 2001. He has overseen the department's growth from two survey crews to managing the current seven survey crews. Additionally Mr. Galloway has been personally involved in over 2,500 surveys while at CPH, serving in capacity from principal to project surveyor.

Representative projects include:

- City of Arcadia, FL - Utility Route Survey
- Minto Communities - Boundary, Construction layout and platting for 1,500 Lot Residential Subdivision.
- City of Holly Hill - Utility location and right-of-way determination.
- U.S. Navy - Vertical control and sanitary sewer design build survey on the Island of Guam.
- Nations Bank - Boundary/Topographic surveys and platting.
- Volusia County School Board - Southwestern Middle School As-Built Survey.
- Florida Department of Agriculture - Immokalee Farmers Market
- Newland Communities - 15-mile control and route survey
- Martin County School Board

Mr. Galloway is proficient in the use of computer software programs and field equipment, such as:

- AutoCAD Land Development Desktop
- TDS-Data Collection hardware and software
- Micro station, EFB and Caice
- Topcon & Leica total stations
- Trimble Post Processing Software
- Trimble and Ashtech GPS Equipment
- Arcview

**Academic Credentials**

Honor Graduate of University of Florida  
Surveying Program, College of  
Engineering, 1975

**Licenses****Florida**

Surveyor & Mapper LS3144

**Connecticut**

Land Surveyor No. LSX.0070359

**Alabama**

Professional Land Surveyor No. 31341-S

**Certification**

NCEES Council #1419

**Principal Areas of Expertise**

Surveying and Management  
Highway Projects  
Land Development/Commercial and  
Private Projects  
Municipal Projects  
Subdivision Plats and Lot Surveys  
Sectional Retracement

**Professional Activities**

Member Florida Surveying & Mapping  
Society  
Member Florida Land Surveyor's Council

Mr. Roberts has over 36 years of experience and serves the firm of CPH Engineers, as a Quality Control Survey Manager.

Prior to joining CPH, Mr. Roberts worked in the central Florida area and performed boundary, topographic, route, mortgage and as-built surveys, along with preparing subdivision plats, wetland location and FEMA elevation certificates.

Randy also has experience with utility route surveys including the following: Lake Bryan 69kv line for Florida Power Corporation transmission line through 7 miles in Orange County; and Altamonte 115kv line for Florida Power Corporation transmission line through 11 miles in Seminole County; and he was also in charge of the Seminole County portion, approximately 22 miles in length of the Duval to Poinsett twin 500kv transmission line for Florida Power & Light Company.

Representative projects include:

- City of Sanford Park and Ball Fields
- AutoZones in Orange, Volusia and Seminole Counties
- Personal Mini Storages in Central Florida
- City of Lake Mary Police Station
- City of Lake Mary Cemetery
- City of Lake Mary Sidewalks
- 1400-Acre site along Haw Creek in Volusia County
- Monitoring pins and piezometers for FP&L Reservoir at Sanford Power Plant
- 

Randy's office experience includes the following software:

- Autocad R10
- Autocad R12
- Autodesk LDD2
- Autodesk LDD3

Randy has field experience using the following:

- Wild T1000 DI1000 Total Station
- Topcon GTS 203 Total Station
- Zeiss and Nikon Auto level
- HP 48 Data Collector using TDS software

**Academic Credentials**

B.S. Biological Sciences, 1991, FSU

M.B.A. 1997, FMU, Summa Cum Laude

**Principal Areas of Expertise**

Ecological Assessments  
Environmental Permitting  
Mitigation Program Design  
Wetland Delineation  
Land Management

**Certifications**

U.S. Army Corps of Engineers Wetland Delineation  
Florida Unified Mitigation Methodology Course  
FDEP Certified Stormwater Inspector  
Prescribed Burner  
NAUI Scuba Diver  
Authorized Gopher Tortoise Agent (GTA-09-00145)  
LEED Accredited Professional

**Professional Affiliations**

National Association of Environmental Professionals

Florida Association of Environmental Professionals,

- Board Member 2000-2008
- Vice President 2003-2005
- President 2005-2008

Central Florida Association of Environmental Professionals,

- Board Member 1997-2001,
- Newsletter Editor & Secretary 1997-2000

Society of Wetland Scientists

NAIOP

Association of Eminent Domain Professionals

Student Pilot

Mrs. Daly serves CPH as Director of Environmental Services. Mrs. Daly has 17 years of environmental consulting experience including environmental resource assessments, habitat mapping, jurisdictional determinations, wetland functional analyses, protected wildlife surveys and management programs, and environmental resource permitting.

Mrs. Daly has designed and performed behavioral monitoring programs for bald eagle, Florida scrub jay, red-cockaded woodpecker, crested caracara, gopher tortoise and the sandhill crane. She has extensive experience in developing, permitting and marketing regional mitigation banks. She has also permitted, designed, monitored mitigation programs for both public and private entities. She is knowledgeable of data base programs and has performed detailed statistical analysis of environmental data. She has served as an expert witness on various environmental matters for condemnation proceedings.

Respective projects include:

**Florida Department of Transportation, District One**

Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for the following six (6) projects: Interstate 4, Polk County-Section 5, State Project No. 16320-1440; State Road 35 (US 17), DeSoto County, State Project No. 04020-3512; State Road 35 (US 17)-County Road 760A to Magnolia Avenue, State Project No. 04020-3525; US 441, Okeechobee County, State Project No. 91020-3504; State Road 35 (US 17) from CR764 to Charlotte/DeSoto County Line-Charlotte County, State Project Nos. 01040-1512 and 01040-1513; and State Road 35 (US 17), DeSoto County-Arcadia South, State Project No. 04020-1512.

**Florida Department of Transportation, District Five**

Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for the following two (2) projects: State Road 44, Sumter County, State Project No. 18070-3518; Environmental Scientist to conduct a Preliminary Development and Environmental (PD&E) Study for Interstate 95 (State Road 9)-from US 92 in Daytona-Volusia County to 00.2 miles north of Pellicer Creek in St. Johns County, Volusia, Flagler and St. Johns Counties, State Project No. 73001-1401.

**Florida Department of Transportation, District Two**

Environmental Scientist responsible for wetland delineation, habitat mapping, perform listed species surveys, environmental permitting, agency coordination and preparation of a mitigation alternative analysis for State Road 500, from the City of Chiefland (Hwy. 98) to the City of Bronson (County Road 24), Levy County, State Project No. 34010-1504.

**Florida Department of Transportation, District Six**

Environmental Scientist responsible for ecological assessment of 17 miles of road corridor to prepare a PD&E Study for I-75 from State Road 826 to I-95 interchange as part of the Interstate 75 Master Plan Study, Broward and Dade Counties. Tasks performed included wetland mapping, protected species surveys, assessment of recognized environmental conditions pursuant to ASTM standards, identified potential mitigation options and permitting strategies, Financial Management #2338711201; 25207011201.

**Lithia-Pinecrest Road, PD&E Study and Permitting, Hillsborough County, Florida**

Environmental Scientist responsible for ecological assessment of 1.5 miles of road corridor to prepare a PD&E Study. The road widening is a required off-site infrastructure improvement associated with the Lake Hutto Development of Regional Impact. The corridor begins at Williams Boulevard proceeding northerly to five hundred feet north of Bloomingdale Avenue. Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for this public-private road project.

**Academic Credentials**

B.S. Biology, 2001, UCF  
Minor Studies, Chemistry

**Principal Areas of Expertise**

Environmental Resource Permitting  
Protected Species Surveys  
Protected Species Permitting/Relocation  
Wetland Delineation  
Mitigation Design, Monitoring &  
Implementation  
Ecological Assessments  
Habitat Management  
WUP/CUP Permitting  
Water Quality Monitoring and Assessment  
Wetland Impact Analysis

**Certifications**

Authorized Gopher Tortoise Agent  
(GTA -09-00125)  
Southwest Florida Water Management  
District, Soils Identification Course  
Florida United Mitigation Assessment  
Methodology Course  
ACOE Wetland Delineator

**Professional Affiliations**

American Chemical Society  
Florida Association of Environmental  
Professionals  
Central Florida Association of  
Environmental Professionals  
Society of Wetland Scientist

Mr. Moore serves CPH Engineers as an Environmental Scientist IV in the Environmental Sciences Division.

Aaron has more than eleven (11) years experience in Environmental Consulting Services including wetland delineations, FLUCFCS habitat mapping, environmental assessments, wetland mitigation monitoring, wildlife surveys and monitoring, and environmental resource permitting. Aaron has also participated in wetland mitigation planning, municipal project review, and eminent domain cases.

Respective projects include:

**Wetland Mitigation Monitoring, City of Oviedo, Seminole County, Florida**

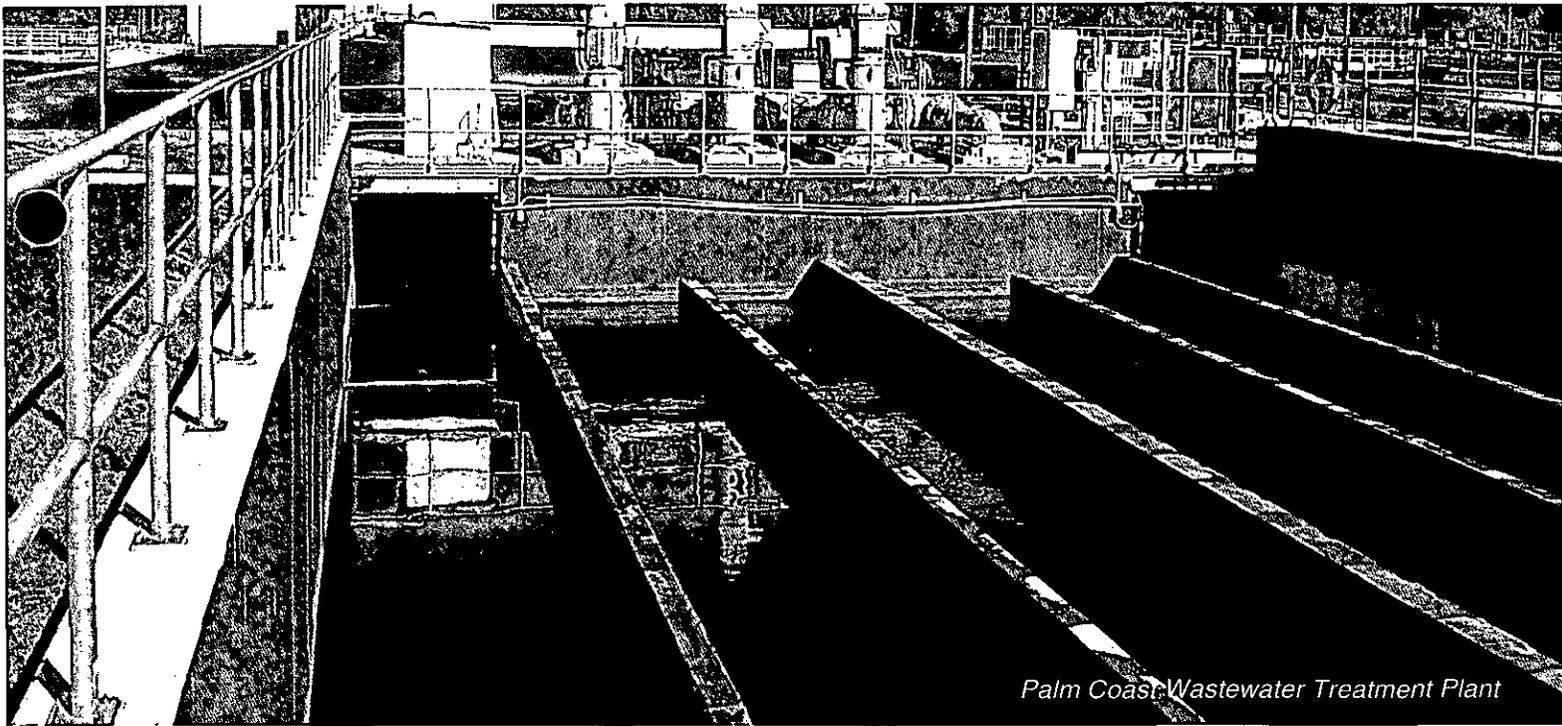
Project scientist responsible for the monitoring for the City of Oviedo's wetland restoration and creation mitigation areas at Round Lake Park, Gymnasium/Trailhead Park, Skateboard Park, Well field, and Lockwood water reuse line. Monitoring involved piezometer installation and recording, rainfall data collection and analysis, removal of invasive/exotic species, viability, and quantitative and qualitative assessments for success criteria, and annual/bi-annual reporting to regulating agencies.

**City of Oviedo Wellfield Impact Analysis, Seminole County, Florida**

Field Scientist responsible for collecting background information on wetland soils, wetland condition, water quality and hydrology for wetlands located within predicted surficial aquifer drawdown area of 0.10 feet or greater. Responsibilities include the programming of dataloggers, decoding and analysis of the data for use in groundwater models and ANOVA multivariant computations. Data is presented to the SJRWMD in the form of annual histograms with statistical analytical support.

**Belle Terre Parkway Re-alignment and Widening, Flagler County, Florida**

Aaron was the project scientist tasked to permit the widening and re-alignment of a 4.5-mile portion of Belle Terre Parkway. He performed wetland delineations, wildlife surveys and a wetland impact analysis utilizing the Unified Mitigation Assessment Methodology (UMAM). In addition he prepared the wetland avoidance and minimization analysis and designed a mitigation program to compensate for unavoidable wetland impacts. All study and survey methodologies were designed and performed pursuant to FFWCC wildlife methodology guidelines to determine the presence of protected species on the road corridor. Aaron also performed habitat mapping to determine the presence of rare and unique habitat to facilitate project design. He designed a mitigation program to compensate for 6.34 acres of wetland impact. The mitigation program included the enhancement of 25 acres of City owned property.



Palm Coast Wastewater Treatment Plant

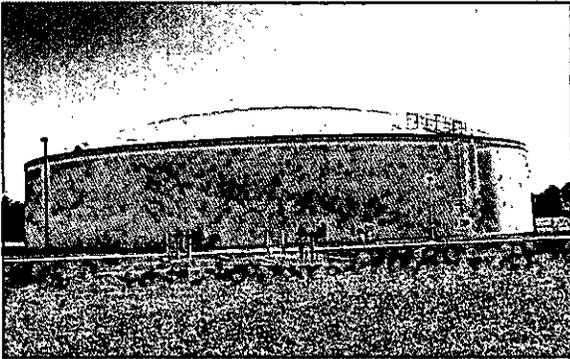
## B. Experience with Projects of a Similar Type and Size

The following matrix highlights some of CPH recent utility engineering projects and relevant experience. Following the chart, we have included brief profiles of some of these projects, demonstrating our award winning experience. CPH has been providing consulting engineering and inspection services for over 30 years.

	Water Treatment Plants	Wastewater Treatment Plants	Pump/Lift Stations	Pipelines	Surveying & Mapping	Environmental	Traffic	Roadways	Construction Inspection	Construction Management	Landscape Architecture	Permitting	Master Utility Planning
City of Sanford	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Palm Coast	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Winter Springs	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Oviedo	X		X	X	X	X	X	X	X	X	X	X	X
City of Eustis	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Titusville		X	X	X	X	X			X	X		X	X
City of Lake Alfred	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Lake Mary	X		X	X	X	X		X	X		X	X	X
City of Casselberry	X	X	X	X	X	X	X	X	X	X	X	X	X
Volusia County	X	X	X	X	X	X		X		X	X	X	X
Orange County			X	X	X	X			X	X		X	
Seminole County	X		X	X	X	X		X	X			X	
Toho Water Authority			X	X	X	X			X	X		X	X
Valencia Water Control District			X		X	X			X	X		X	X
Key Largo Wastewater Treatment District			X	X	X	X			X			X	



## City of Palm Coast - Utility Experience (Palm Coast, FL)



**Palm Coast Water Treatment Plant #3** - CPH provided complete design (architectural and civil design) and construction management services for a new water treatment facility and administration offices. CPH prepared the initial project scope, initial budgets, prepared surveys, designs, permitted the project with FDEP, FDOT, Army Corp of Engineers, Flagler County, City of Palm Coast, and the St. Johns River Water Management District and provided full Construction Engineering and Inspection Services for the project.

The new water production system consists of the following components: a 3.0 MGD LPRO Water Treatment Plant No. 3, A Well Field System to Supply Raw Water to the plant, A Concentrate Treatment & Disposal System for the plant, A Finished Water Main System to connect the plant to Existing Distribution System, and Reclaimed Water Supply System.

**Palm Coast Wastewater Treatment Facility** - The City of Palm Coast Waste Water Treatment Facility, a 4 MGD facility, was acquired in October 2003 from Florida Water Services, Inc. The facility consisted of: Two 2 MGD oxidation ditches for biological treatment of wastewater, Four 65-foot circular clarifiers for separation of suspended solids from oxidation ditches, Two chlorine contact chambers for disinfection of the clarified effluent, and Effluent transfer pump station.

**City of Palm Coast – Master Water/Wastewater Planning/CIP** - The City of Palm Coast purchased the Florida Water Service's Palm Coast Utility System in 2003. CPH assisted the City in the evaluation of the existing utility system condition and determination of the utility system valuation. CPH also has assisted the City in developing the 5-year Capital Improvement Program (CIP) for the past 5 years. The rapid growth within in the Palm Coast service area was considered when the 5-Year CIP was developed.

**City of Palm Coast 2 MGD MBR WWTP** - The proposed Palm Coast WWTP No. 2 will utilize the flat panel MBR process in conjunction with anaerobic, pre-anoxic, nitrification and post-anoxic biological processes to achieve the advanced wastewater treatment standards. The MBR process requires a much smaller footprint than that of a conventional 5-stage Bardenpho process utilizing re-aeration, secondary clarifier and tertiary filtration following the biological processes. Basically, a single MBR process tank replaces the re-aeration, secondary clarifier and tertiary filtration processes.

**Pine Lakes Parkway Improvements** - CPH provided construction engineering inspection services for a roadway widening project for the City of Palm Coast. The improvements were designed for Pine Lakes Parkway and Palm Coast Parkway Intersection Improvement Project by another firm, and CPH acted as construction manager/owner's representative. The project included: roadway widening, signing and pavement markings, re-grading drainage ditch, concrete sidewalk, gravity wall, box culvert, pipe culvert, guardrail, signalization, and sodding for the intersection of Pine Lakes Parkway and Palm Coast



Parkway. The work included widening roadway additions of 1560 I.F., adding two turn lanes, triple box culverts, and a gravity wall with Geosynthetic reinforcement.

**Cigar Lake Reclaimed Water Pump Station-** CPH Engineers performed design, permitting and construction services for a reclaimed water pump station for the City of Palm Coast. The pump station consists of a 40' x 76' building including a pump room, an electrical room, and a chemical feed room. Included in the pump room are three horizontal split case centrifugal pumps, tumble disk filter system, an air compressor, and a vacuum system for the pump priming. The electrical room houses all the VFD units, switch board, and control panels. The chemical feed room has two 500 gallon storage tanks for sodium hypochlorite and a chemical feed pump skid. The pump stations ultimate capacity is designed for 10 MGD ADF.

**City of Palm Coast Biosolids, Reclaimed Water and Aerobic Digestion Improvements-** This project involved the design, permitting, and construction management for the replacement of the City's existing gravity belt thickener, installation of a new digester, and installation of a new reclaimed water pumping station at the City's existing Wastewater Treatment Facility (WWTF). These upgrades were needed due to tremendous residential growth the City had experienced. The City realized that the Wastewater Treatment Facility's current practice of hauling liquid sludge would soon become too costly, as land becomes hard to find and more stringent rules are implemented. The design goal was to achieve a higher percent of dewatered solids than the current process there by reducing volume. This was accomplished by utilizing a centrifuge to process the biosolids and then transport them to the N-Viro Facility for processing into a Class AA product. The facility's aerobic digesters were undersized and so new digesters were added.

**Firm's Responsibility:** Varies Per Project

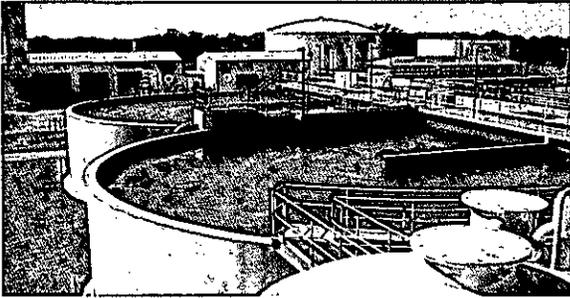
**Project Owner:** City of Palm Coast, Mr. Richard Adams, 2 Commerce Blvd., Palm Coast, Florida 32164, Phone: (386) 986-2350

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## City of Sanford - Utility Experience (Sanford, FL)



**Sanford South Water Resource Center** - CPH provided design and construction of the new Sanford South Water Resource Center. The center uses energy efficient treatment processes and cutting-edge technologies to produce a high quality effluent, reclaimed water to be distributed throughout the City of Sanford service area (150 miles of distribution piping).

**Sanford Reclaimed Water System** - CPH has been involved in the planning, design and construction phases of a \$40 million improvement program for the City of Sanford. CPH launched extensive investigations into disposal sites and performed the following services: Set up irrigation schedules, Evaluation of the most *cost-effective* areas for immediate expansions, Design of the agricultural reuse site, Extensive environmental specialist work (Issues included wetlands, endangered species protection and water quality considerations), and Installation of a SCADA System for the reclaimed water and wastewater systems.

**City of Sanford Alternate Water Supply Plan** - CPH Engineers is currently completing an analysis of the available water supply sources for the City of Sanford. The alternate water sources available to the City are, the expansion of the current reuse system through the use of surface water augmentation from Lake Monroe, purchase capacity from the options recommended by SJRWMD, or use their current surface water CUP to develop their own potable water supply. Our goal was to sort through all the available options and recommend a course of action.

**Sanford, Lake Mary, and Seminole County Tri-Party Reclaimed Water Distribution System**- CPH was instrumental in *coordinating* negotiations between the City of Sanford and Lake Mary and Seminole County to develop what has become the Tri-Party agreement. This agreement further allows the expansion of the reclaimed systems within Lake Mary and Seminole County. This reduction of groundwater withdrawal from the Floridian Aquifer benefits all Tri-Party members by recapturing potable water capacity and reducing the local impacts in existing well fields. The areas such as Rinehart Road Corridor, Heathrow International Business Center and the golf courses in the area have high water demand for irrigation. The trio proposed an increase in the capacity of the Sanford Water Reclamation Facilities by using surface water from the St. John's River to augment the reclaimed water system thereby reducing groundwater withdrawal.

**MaxWest Gasification System** – CPH is working with MaxWest Environmental Systems Inc. to provide a design, build, operate, finance project that will utilize the Cities current biosolids (sludge) to generate heat to operate their existing sludge driers. This unique system uses Sanford's wastewater treatment plant's biosolids residuals to provide a green energy solution for the City. The MaxWest system will provide heat through a gasification process that will eliminate the current use of natural gas to provide heat to the driers. Compared to land spreading or depositing of sludge in a land fill, gasification



eliminates the release of green house gases, primarily methane. Methane is considered to have 23 times the global warming impact as an equivalent amount of CO2. Ultimately, when enough biosolids and wood waste is available, the system will then be capable of generating electricity. This would offset the operational costs at the treatment plant. CPH is providing City, and regulatory liaison as well as site design, permitting, construction oversight and equipment coordination. CPH has developed a working relationship with MaxWest that has allowed them to partner on several other project proposals. This process has the potential of turning biosolids into an asset instead of a liability.

**Firm's Responsibility:** Varies Per Project

**Project Owner:** City of Sanford, Mr. Paul Moore, P.E., P.O. Box 1788, Sanford, FL 32772-1788

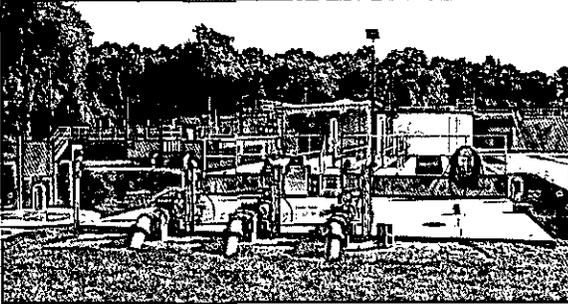
Phone: (407) 330-5600

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## City of Winter Springs - Utility Experience (Winter Springs, FL)



**Water Treatment Plant** - Our services for this project included design of water plant improvements consisting of the addition of high service pumps at water plants 2 and 3, a new 2,400 GPM well at water plant 3, and associated piping and electrical work. This improvement not only upgraded the level of service, but also provided capacity for future connections.

**Winter Springs Master Water and Wastewater Plans** - CPH prepared master water and wastewater plans to provide the City with short and long range planning tools to effectively manage their utility systems. Projects were identified, defined, and prioritized based on recommendations within the report.

**Water Supply Plan** - CPH prepared the City of Winter Springs Water Supply Plan. The plan was approved by the City and DCA with no comments. The plan evaluated the existing system and various alternatives such as: 1) participation in regional water projects, 2) reclaimed water expansion, and 3) Lake Jesup Augmentation System. The plan discusses financing alternatives and recommends projects to meet long term future water demands of the City.

**Augmentation Consumptive Use Permitting** - CPH assisted the City of Winter Springs in obtaining a CUP for reclaimed augmentation from Lake Jesup. This 20 year permit allows the City to withdraw water from Lake Jesup, treat it to reclaimed water standards and supply it to the reclaimed water distribution system. The permit also covers the use of an artesian well adjacent to the proposed augmentation water treatment. This provides Winter Springs with two sources of water at the site.

**Firm's Responsibility:** Varies Per Project

**Project Owner:** City of Winter Springs, Kipton Lockcuff, P.E., 1126 East S.R. 434 Winter Springs, FL 32708, Phone: 407-327-5989

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## ● Volusia County - Utility Experience (Volusia County, FL)

**Southwest Wastewater Treatment Plant** - CPH provided planning, design (including environmental, civil, structural, electrical, etc.), permitting (construction and operating), and services during construction for a .5 MGD wastewater treatment plant. The plant was designed for future expansion to 2 MGD. Initial effluent disposal was accomplished through use of on-site percolation ponds. The plant was designed to meet Class I Reliability Criteria. The design includes: Headworks, Biological treatment system, Clarification, Chlorination, Sludge handling, Effluent pump station, Operations building, and Percolation ponds.

**Volusia County – Master Water Plan** - CPH performed master water planning services which included water service to the Orange City area, to the Four Townes area, the DeBary area, and areas to the west as well as additional areas to the south and east of Interstate 4. The services provided by CPH included laying out the study area on a map, showing existing mains, water plants, wells, and storage and pumping facilities; reporting on the condition and useful life of the facilities; showing areas of existing development and areas planned for development and other planned land uses; determining current water consumption patterns and water use projections in 5 year increments to include the years 1990, 1995, and 2000. As a part of the study, CPH consulted with USGS and the St. Johns River Water Management District regarding the best areas for wellfield development. CPH developed alternative systems for water supply.

● **S.E. Regional Wastewater Treatment Plant- Volusia County** - CPH provided master wastewater planning for three regional water reclamation facilities for the County of Volusia Southeast Regional Water Reclamation Facility. CPH provided design (environmental, civil, structural, electrical, etc.), permitting, State Revolving Fund (SRF) acquisition, and construction services. The treatment facility construction is in an area formerly served by septic tanks that were not working adequately and were causing groundwater contamination of the surficial aquifer and the Indian River/Mosquito Lagoon. Improvements include the construction of a new collection and transmission system as well as the construction of a new oxidation ditch WWTP. The water reclamation facility construction includes the following unit operations and processes: biological treatment system (oxidation ditch); secondary clarifiers; tertiary filters; a chlorine contact chamber; primary treatment facilities (mechanical barscreen and grit removal); an aerobic digestion system; a 1.5 MG lined reject storage pond; percolation ponds; an operations building; a sludge dewatering system; an emergency generator; flow metering systems; aeration systems; and yard piping, site improvements, roadways and fencing.

● **Saxon Woods Reclaimed Water System Expansion-** CPH provided design, permitting, bidding services, and engineering services during construction for the extension of a 12" reclaimed water line from Unit 21 along DeBary Plantation Boulevard, south across US 17&92 to Pine Valley Court in the Glen Abbey subdivision to a point of connection with an existing reclaimed water dry line installed by the developer of the Saxon Woods subdivision. This line provided reclaimed water to over 200 residences within the Saxon Woods Subdivision and to Grandview Apartments located on the North side of Saxon Boulevard.



**Progress Energy Entrance Road Irrigation System-** CPH worked with Volusia County and Progress Energy in the design, bidding and engineering services during construction for the construction of an irrigation system for the entrance road to Progress Energy's DeBary facility. The project consisted in 2,650 LF of 8" and 1,950 LF of 6" main line, 30,000 LF of sub-mains, 210 irrigation heads, and solenoid valves and a controller to control the irrigation system. The system was designed to provide additional wet weather disposal of reclaimed water. The System is capable of disposing of 64,000 GPD for a short duration.

**Volusia-Sanford Reclaimed Interconnect-** This project is for the extension of the City of Sanford's existing reclaimed water system across the St. Johns River into Volusia County. The City has an existing 20" DIP pipeline that it currently uses to send flow to their seasonal discharge. This project will connect to the existing 20" DIP line with a new 20" DIP line and head North through Seminole County's Lake Monroe Park (Wayside Park). At this point the line will be drilled beneath the St. Johns River into Volusia County on the north side of the river. From there the reclaimed water line will move north along the FDOT right of way for US Highways 17-92 and enter Volusia County's Lake Monroe Park. At this location the connection between Volusia County's Reclaimed System and City of Sanford's Reclaimed System will be made. CPH is also performing the design permitting and construction services for the Volusia County portion of this project. The projected flows to be sent to Volusia County are between 150,000 to 1,500,000 GPD.

**Firm's Responsibility:** Varies Per Project

**Project Owner:** Volusia County, Ms. Mary Anne Connors, 123 W. Indiana Ave., DeLand, Florida 32720, Phone: (386) 736-5965, Fax: (386) 740-5162

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## Orange County - Utility Experience (Orange County, FL)

**S.R. 50 Utility Relocation Project** - This project provides improvements to over 13 miles of the water distribution system and wastewater collection and transmission system within the S.R. 50 Corridor, one of the busiest roads in Central Florida – which is being expanded from 4-lanes to 6-lanes. The utility improvements include building new facilities as well as the removal of facilities in conflict with the FDOT roadway design. The utility improvements will be constructed as part of the construction of the FDOT S.R. 50 projects under a Joint Agreement between Orange County and FDOT. The construction documents meet FDOT plan preparation standards, FDOT roadway design schedule and are coordinated with the FDOT road design and other utilities. The project includes the installation of approximately 5.5 miles of 8, 12, 16, 20 and 24-inch diameter water main and 7.7 miles of 4, 8, 12, 16, 20 and 30-inch diameter FM along S.R. 50 from west S.R. 436 to Old Cheney Road (the Project). Connection of existing services and lateral mains will be required while maintaining service to customers.

**S.R. 528 Utility Relocation Project** - This project was initiated by Orange County Utilities (OCU) to relocate a 16" forcemain as a result of the bridge widening of SR 528 from I-4 to the Airport Toll Plaza. The widening of the SR 528 had the potential to impact lines owned and maintained by Orange County in Multiple locations. The challenges of this project included replacing the 16" forcemain with a new 30" forcemain within the John Young Parkway right-of-way under the existing SR 528 bridge, having minimal disruption to the roadway and still maintain operation to the existing forcemain. The project included two 54" jack and bores of 280 feet and 60 ft each, three 16" lines stops, two large thrust blocks, and 1,500 feet of 30" forcemain. The construction documents meet FDOT and Turnpike plan preparation standards, FDOT roadway design schedule, and were coordinated with the FDOT road design and other utilities.

**Lake Standish Heights Water System Improvements** - The Project consisted of the design of approximately 3600 LF of 6" and 8" water main, fittings, valves and appurtenances to replace an existing substandard water distribution system. CPH prepared a Preliminary Design Memorandum that outlined the pipeline alignment, permitting requirements, presentation of known future plans of other utilities and agencies for the project area and presented conclusions and recommendations for the execution of the project. CPH also provided construction drawings and technical specifications for the project prepared the appropriate applications and obtained the water permit from FDEP and a utility permit from FDOT.

**Lake Conway East Water and Wastewater System Improvements** - Design and permitting for the installation of approximately 5650 LF of 8-inch, 750 LF of 6-inch, and 1200 LF of 4-inch water mains and associated appurtenances and abandonment of existing water mains. The project included the review and evaluation of approximately 9,000 LF of gravity lines and 33 manholes. Following the evaluation of the existing gravity system, the appropriate rehabilitation or replacement activities were included in the overall project design. The project work involved working within a residential neighborhood within the Rights-Of-Way of the City of Belle Isle and served over 125 single family residential units.

**Firm's Responsibility:** Varies Per Project



**Project Owner:** Orange County, Mr. Gary Morris, P.E., 9150 Curry Ford Rd., Orlando, Florida 32825  
Phone: (407) 254-9711, Fax: (407) 254-9799

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## City of Oviedo - Utility Experience (Oviedo, FL)

**Oviedo Water Treatment Plant** - CPH provided design and construction services for a new well for the City of Oviedo. The project was an implementation of a well which had been planned as a replacement for an existing well that had water quality degradation. The new well was a larger diameter and shallower well in accordance with recommendations from the groundwater hydro-geologist employed by the City.

**Reclaimed Water Main Phase I and II** - Phase I –The project consisted of engineering design and construction services for 2000 lineal feet of 20-inch and 7000 lineal feet of 24-inch reclaimed water main on Lockwood Boulevard from Mitchell Hammock to Seminole Creek Drive, all within public rights-of-way. This reclaimed water system was started in 1992 as the City needed an alternate source of water. The City does not have a readily available source of reclaimed water. CPH Engineers developed Reuse Feasibility Plan for the city and obtained funding from FDEP SRF sources. The planning function was part of the overall needs to obtain funding. The program is a joint effort with the City of Orlando (Iron Bridge Facility) and Seminole County. Phase II - The project consisted of engineering design and construction services for 6600 LF of 16-inch water main, 800 LF of 10-inch water main, 9780 LF of 24-inch reclaimed water main and 2900 LF of 24-inch directional bored reclaimed water main on Old Lockwood Road from McCulloch Road to Lockwood Boulevard. This work was completely within public rights of way. Following the completion of the Phase I portion of the project, the City of Oviedo proceeded with Phase II to connect to the City of Orlando main. Seminole County also desired to install a water main in the same area and therefore, all of the coordination and layout for both lines was performed by CPH. CPH provided drawings and technical specifications for the construction of this project and associated items. Plan and profile drawings were provided based on topographical surveys. The alignment followed along existing roadway rights-of-way within Seminole County and was within a developed urbanized area with roadway conflicts and traffic maintenance issues.

**S.R. 426 Utility Relocation Project** - This project is being constructed in conjunction with the FDOT widening project of 1.2 miles of S.R. 426 and will be constructed as a Joint Project Agreement (JPA). The project includes the relocation of the City's 10" WM along S.R. 426 that will be in conflict with FDOT's improvements. The existing 10" WM was replaced with a 16" main along the project route which also included reconnection of existing water services. In addition to the WM relocations, an additional 12" WM was designed to provide an interconnect to another City owned WM to improve reliability in the City's water system in this area. The City did not have wastewater service in this area and the design included over 4,000 feet of a gravity sewer collection system with sewer lines ranging from 8" to 15".

**Firm's Responsibility:** Varies Per Project

**Project Owner:** City of Oviedo, Mr. Tony Segreto, 400 Alexandria Blvd., Oviedo, Florida 32765

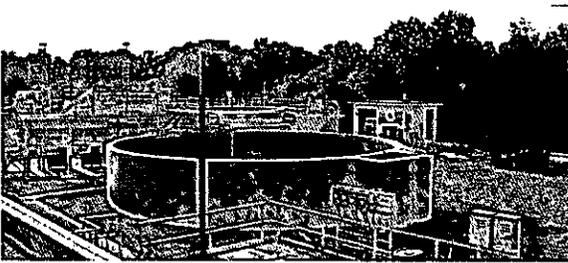
Phone: (407) 971-5640, Fax: 407-977-6033

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## City of Lake Alfred - Utility Experience (Lake Alfred, FL)



**Lake Alfred WWTF Upgrade and Expansion Project** - The project consisted of designing and permitting the replacement of the existing 0.600 MGD trickling filter facility with a new 1.0 MGD modified activated sludge process WWTF. The design included adding a new pretreatment headworks, a new 1.0 MGD rated WWTF (anoxic zones, aeration basins, and clarifiers), and new

microscreen filtration (two units). The existing trickling filter tank was converted to a 260,000 gallon equalization addition, the primary clarifier was demolished, and the existing sand filters were modified and converted to a second chlorine contact chamber.

**Echo Terrace Drainage Improvements** - This project is located in the City of Lake Alfred, south of Lake Echo. The project area consists of an existing single-family residential neighborhood with paved streets that prior to improvements did not have an existing stormwater collection system. The runoff from the existing residential lots and the roads runs directly to a swale located east of the end of N Echo Avenue and David Avenue. This swale discharges directly to a wetland area (Echo Terrace Wetland). In the existing condition, the parcels located at the intersections of Cross Avenue and N Echo Avenue, and Cross Avenue and Davis Avenue experience frequent flooding. The purpose of the project was to construct new inlets, storm sewer, and stormwater ponds in order to alleviate flooding. CPH's services included design consisting of stormwater modeling and permitting through the SWFWMD, Polk County, and FDOT, and assisting the City with securing CDBG funding (CDBG Disaster Recovery Initiative) and providing documentation for City submittal to the Dept. of Community Affairs. Major construction items include installation of seven new storm inlets, new storm sewer, and the construction of two new stormwater ponds and structures.

**Firm's Responsibility:** Varies Per Project

**Project Owner:** City of Lake Alfred, Mr. John Deaton, 500 North Romma Ave., Lake Alfred, Florida 33850, Phone: (863) 291-5274

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Scott A. Breitenstein, P.E., William C. Goucher, P.E., David E. Mahler, P.E., Lawrence O. Pultz, P.E., William Wade Wood III, P.E., Terry M. Zaudtke, P.E., BCEE, Charles A. Jensen, CET, Gerald M. Cox, CGC, CUC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore





## C. Willingness to Meet Schedule and Budget Requirements

CPH has ample staff available to perform projects on time and within budget for Leon County. The team has extensive in-house capabilities to take on multiple projects and provide a variety of services concurrently to ensure quality and on-time projects.

### **Methods and Controls to be Utilized to Balance and Maintain Quality, Schedule and Budget**

CPH is uniquely qualified to provide Utility Engineering Services for projects assigned by Leon County. The team will be led by Jason Toole, P.E. He will serve as the County's immediate contact(s) and will coordinate all projects and activities as the primary liaisons for Leon County and CPH.

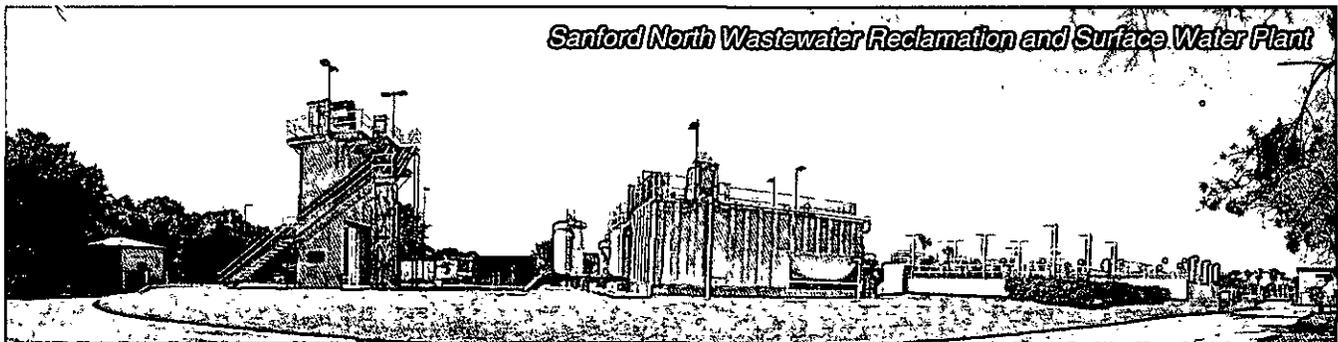
The team, located at our Panama office, includes engineers, designers, surveyors, environmental scientists and administrative personnel. CPH is currently finishing engineering services for other clients, but is actively seeking work for Panama staff. As a result, our staff is available and has the capacity to perform projects as they are assigned, and CPH is committed to meeting budget and schedule requirements. Keys to the success of projects include:

- Open lines of Communication
- Knowledgeable Team Members
- Local and Available Staff
- Monthly Project Meetings
- Weekly Internal Meetings with Project Manager and Design Teams.
- Technical Review Committee that will assist in quality assurance and control



Authority for a particular project is delegated to the Project Manager for execution of the project work. A project team having previous experience on similar projects is assembled with leadership from the Project Manager. The Project Manager is the coordinator and point of contact person for the project, and is involved in the design of the project with the Project Engineer. Normally one Project Engineer is assigned specifically to the project with assistance provided by other engineers in other areas of specific expertise. The Project Engineer provides and coordinates the design with technicians and drafting personnel and other consultants.

Initially, the members of the team are assembled and briefed on the scope of the project, the budget and possible constraints. This initial meeting is used to establish the basic project approach, to establish the direction of the work, and to give all members of the team an opportunity to visualize the whole project. Once the objective is established, the tasks are assigned to each team member and input from the team is solicited. Project approach is discussed and the format for production is determined (i.e., AutoCAD, coordination with subconsultants, etc.). CPH typically works with Microsoft Office and the latest version of AutoCAD, but also routinely works within ArcGIS and can produce documents in Adobe.pdf format.



All projects are reviewed throughout the design phase. After the design team is assembled and the initial design team meeting is held, an internal review meeting is held with at least one of the firm Principals and one or more Project Managers. These individuals are not personally involved with the project, but are utilized to provide a fresh, outside view to the project approach. The project team presents the project to review team members for their evaluation. Follow-up meetings are held at the 30%, 60%, and 90% completion points to help assure that the project is proceeding correctly. On a more complex project, the follow-up meetings consist of an actual review of the plans and specifications. These meetings also serve as Value Engineering meetings. With regard to coordination methods, we have an excellent record with our clients. Project quality is of utmost importance to us and is not sacrificed due to time constraints or workload.

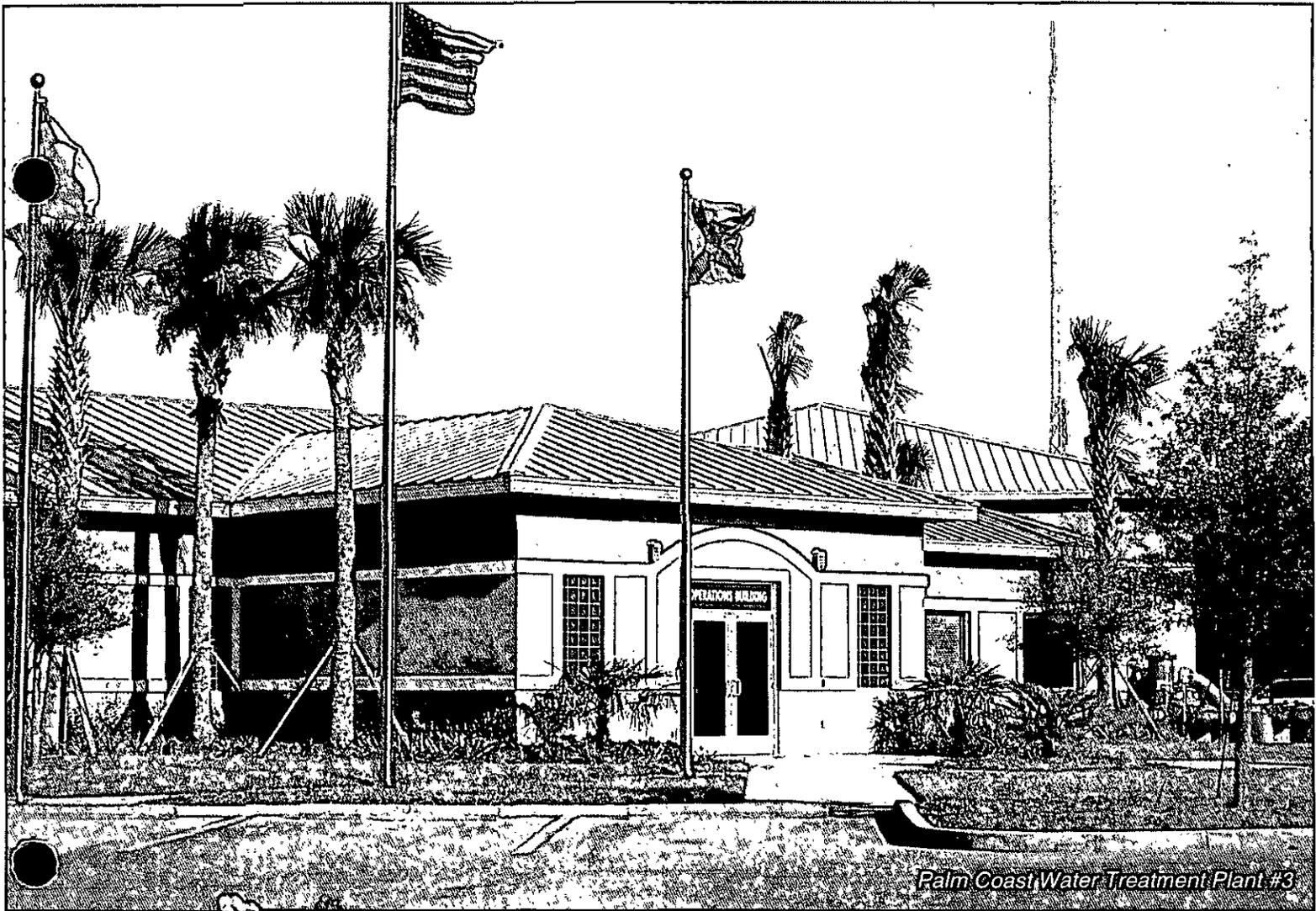
CPH's design services are carefully budgeted at the beginning of the project. We attempt to divide the job into its various tasks and estimate amounts of labor and expenses needed for each. We have an in-house computerized cost control system capable of providing the Project Manager with current job costs, as obtained through entry of weekly time sheets. The original budget is used as a guide to determine progress and efficiency by checking hours expended versus hours budgeted. The budget is also used to plan the needed level of manpower to complete the job on time.



In addition to engineers and construction personnel, the team has the added value of having on-staff licensed general and utility contractors that can review projects from various perspectives. With experienced personnel that have provided construction services for over 30 years, this enables us to review the project from a constructability and/or means and methods view point. In addition, the licensed on staff contractors review projects and provide “real-time” cost estimates throughout the duration of the project. This construction experience allows the team to view these projects through the eyes of a contractor with the ability to identify intangible cost factors/elements such as restricted site conditions, specialized equipment requirements, excessive material and labor costs, impacts on schedules, etc. that may not be apparent to the design engineer.

Our Independent Quality Assurance Program will be led by Mr. David Gierach, P.E., CGC. Mr. Gierach has over thirty (30) years of design and construction experience and has an excellent working knowledge of various technologies and construction techniques. Additionally, He is a licensed general contractors, which will assist the team in evaluating “real-time” construction reviews of the design throughout the duration of the project. This QC management staff will monitor the program for quality assurance in accordance with the contract.

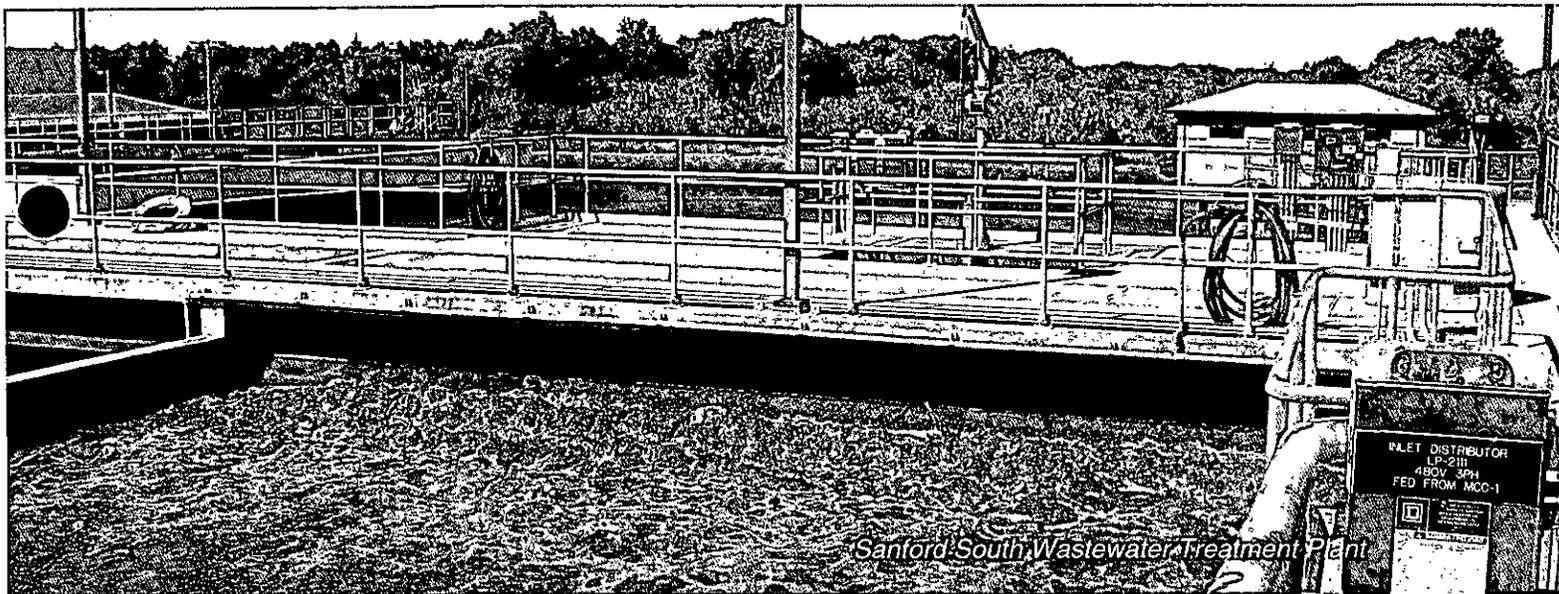




## D. Effect of Firm's Recent, Current and Projected Workload

### 1. Current Contracts

Name of Project	Description	Anticipated Completion Date
Panama City Sam's Club	Sam's Club Expansion	9-19-2011
Destin Wal-Mart	New Wal-Mart Supercenter	5-9-2011
Gulf Breeze Neighborhood Market	Takeover of Existing Bruno's Grocery	3/1/2012
Panama City Expansion	Wal-Mart supercenter Expansion	3/1/2012
Southwood McDonald's	New McDonald's Restaurant	5/15/2011



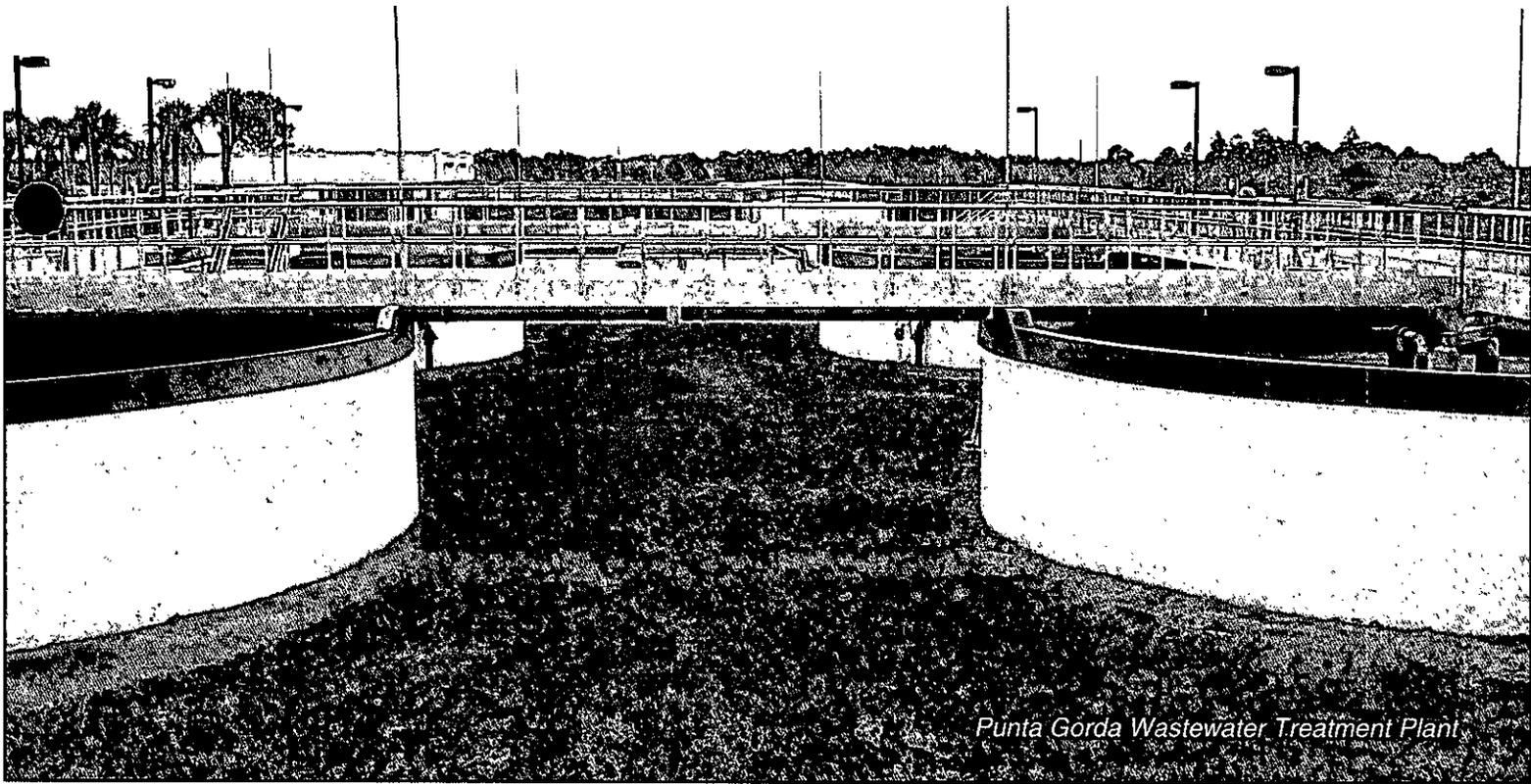
## **2. Firm's Ability to Absorb Any Project**

### **Methods and Controls to be Utilized to Balance and Maintain Quality, Schedule, and Budget**

CPH is uniquely qualified to provide Utility Engineering services for Leon County. The team located in our Panama office includes engineers, designers, surveyors, environmental scientists and administrative personnel. CPH is currently finishing engineering services for other clients, but is actively seeking work for our Panama staff. As a result, our staff is available and has the capacity to perform projects as they are assigned. CPH is committed to meeting budget and schedule requirements. CPH has developed a reputation for cost effective, quality-engineering services through a philosophy of strong project management. Operating under aggressive deadlines and close coordination with County Staff, we commit to manage each work assignment under this contract based upon the following philosophies:

- By proposing a project manager with experience working in Leon County
- Frequently involve County staff in meetings to expedite decision-making.
- Utilize e-mail and short memoranda to document progress of construction. Report status of the budget on a monthly basis in report form to County Staff.
- Prepare and distribute a Project Specific Workplan which details the following:
  - What is to be done – Define a scope of services by bringing in the stakeholders up front to discuss the project goals and objectives.
  - Who is going to do it – Monitor staffing usage, needs and expenditures bi-weekly through our accounting software.
  - When will it be done – Maintain the Project Schedule using Microsoft Project software for scheduling and tracking.
  - How much will it cost – Monitor the estimated construction cost using trend reports prepared monthly and based on the most up-to-date data available from published prices and any known quantity revisions for the past month.
  - How it will be controlled – CPH will strive to provide quality service within the project schedule and require Quality Assurance/Quality Control (QA/QC) procedures to be identified in the initial internal project kick-off meeting. Time for QA/QC is incorporated into the project schedule, therefore, will not delay project milestones. CPH has developed an extensive QA/QC procedure and incorporates it into each of its projects to ensure client satisfaction.

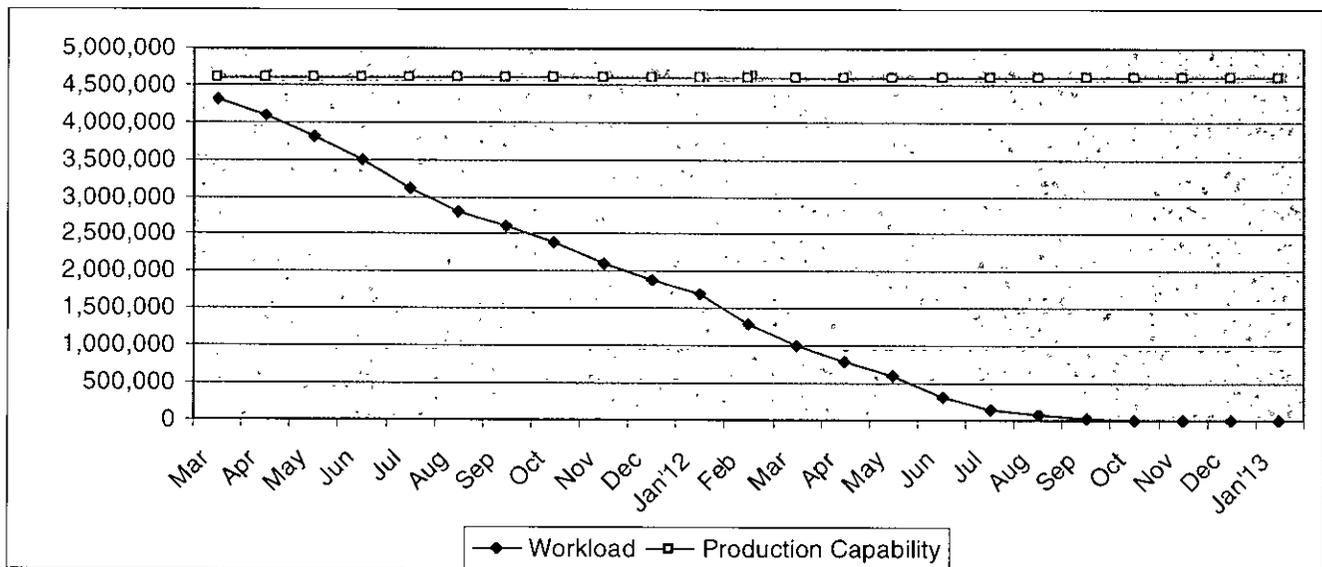




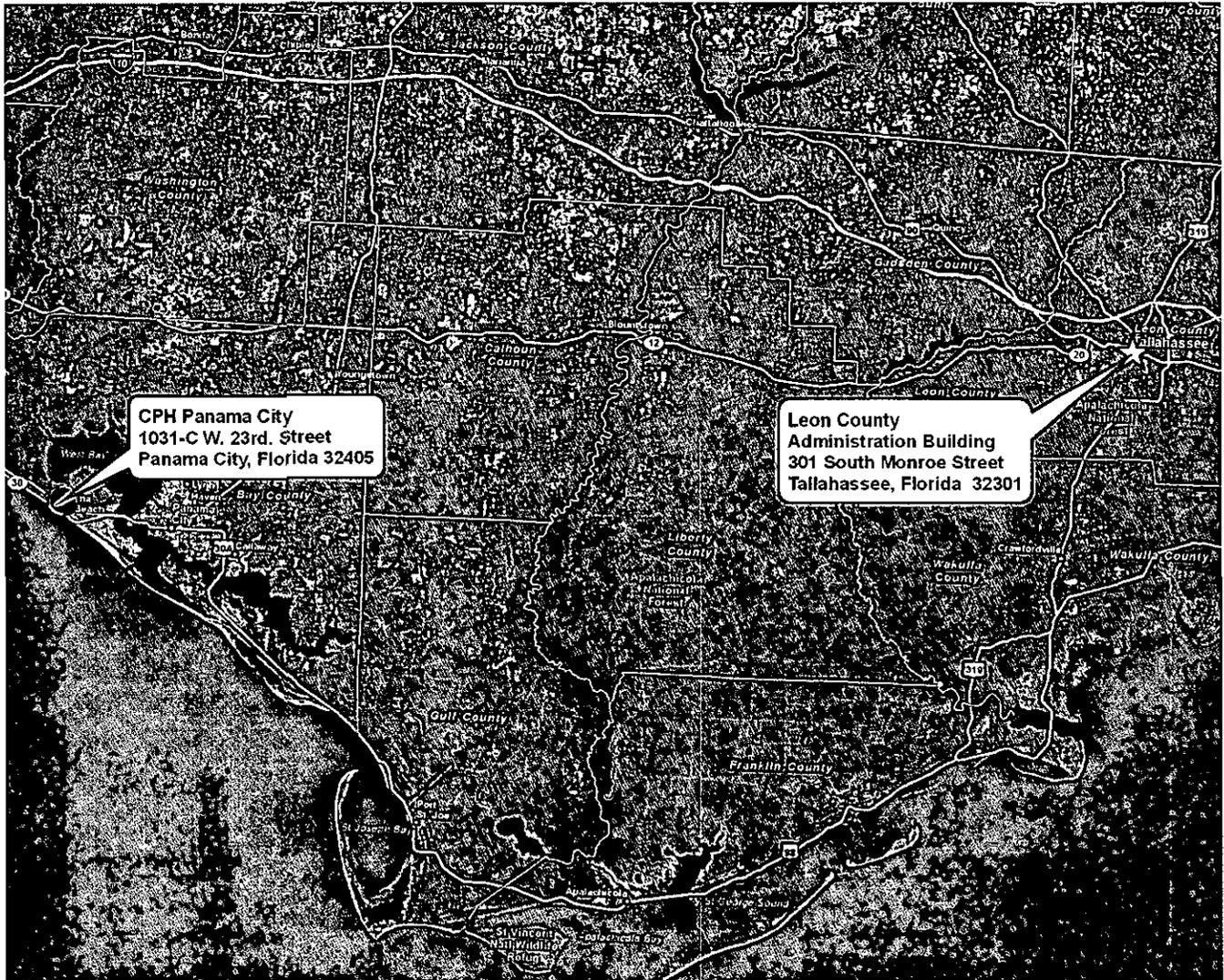
*Punta Gorda Wastewater Treatment Plant*

**Corporate Workload/Availability**

The current and projected workload of our team is such that we can provide responsive service to Leon County. We are well-staffed, equipped with our nearby location, and believe that we and our team members can provide a high quality, professional service to the County that is completely responsive and cost effective. The graph below depicts our current contracted backlog with no consideration for any additional work. The current workload will spread over 18 months. Our current production capability is \$4,600,000 per month. With that capacity, there are more than adequate personnel hours to cover the workload.



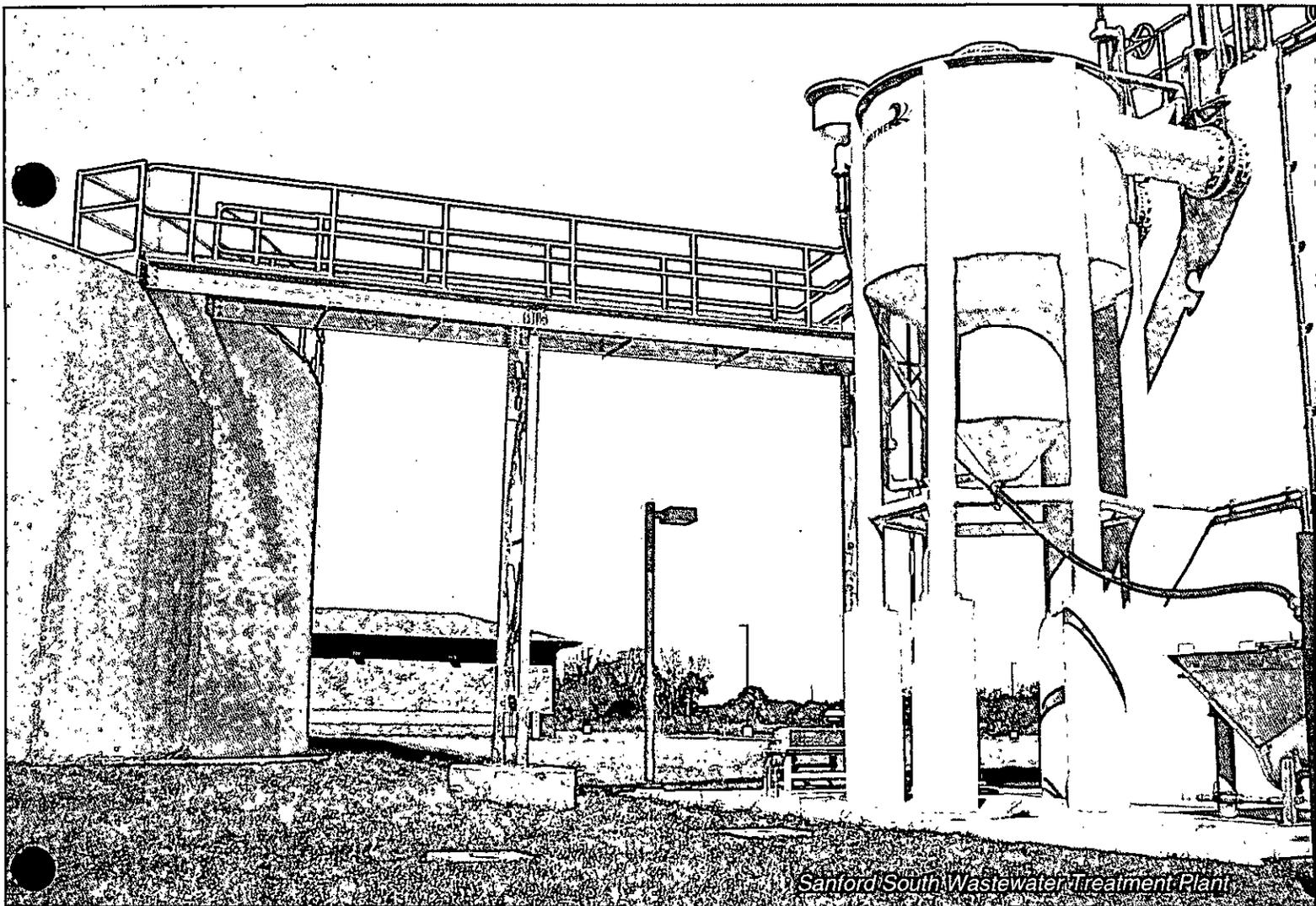
## E. Effect of Project Team Location



Office Location	Approximate Distance From Leon County Offices
CPH Panama	96 Miles

CPH has eleven (11) offices in the State of Florida with support of approximately 240 personnel throughout the company to assist in the projects for Leon County. **The County will have the direct commitment of the CPH located at 1031-C W 23<sup>rd</sup> Street, Panama City, FL, 32405.** The Panama office is staffed with employees that include registered personnel, administrative staff, and owners of the firm to accomplish the projects on time and within budget.





## F. Approach to the Project

CPH has performed numerous utility projects and will bring the same level of expertise to the County for assistance in review of projects within the County limits. The following process will be refined to meet the County's needs and allow for coordination of successful projects.

CPH understands that Leon County is looking for a consultant team for continuing consulting services that will include Water, Wastewater and Reclaimed Professional Engineering Services. CPH has a professional team and knowledgeable staff that are ready and available to assist the Leon County on projects as they are assigned. CPH understands the need for the services to be on an as-needed basis and that the scope of work will be defined when the project is assigned to the team.

Our resumes and the professional histories of the various team members clearly demonstrate a vast and broad background of experience which will be effectively applied to the Leon County's benefit. CPH is highly qualified to provide continuing engineering services. We place strong emphasis on staying abreast of changing technology and we regularly participate in continuing education, training and technical seminars in an effort to provide the highest quality service to our clients.



Our team has the ability to make a special effort on smaller sized projects to work with our clients in a cost effective and timely manner to meet their needs which cannot be equaled by other firms. **Our team is client-oriented and has a willingness and desire to participate with the Leon County by tailoring projects to meet the Leon County's needs.** We are confident the Leon County will find our levels of skill and experience equal or greater to those of other firms, with greater responsiveness.

CPH is especially pleased to have this opportunity to present this proposal as we feel we can be very productive and efficient in performing the types of services desired by Leon County. Our knowledge and technical understanding can provide the Leon County with a wealth of experience in many areas of engineering. We are committed to providing the Leon County with the highest priority in responding to emergencies, scheduling services and involvement with all the projects that may arise.

Our team will work closely with the Leon County and be available for both planned tasks and unplanned emergencies. With our team's experience of continuing services for several other municipalities, we are well prepared to provide services not normally planned far in advance of their need. We will follow through each project or task to successful completion and will remain available for additional services as additional needs may arise. Our team has the flexibility to provide a wide range of services, from small consultation sessions to compete planning, design, permitting and project construction. We are flexible and know how to keep multiple projects moving along at the same time. We have provided a generic project approach below that will apply to all projects assigned. The project approach below identifies our philosophy on project management.

All projects can be divided into the following:

**Preliminary Engineering** – During this phase of the work we believe it is important to gather as much information as possible on existing conditions. Each project has peculiar needs and requirements. For example, on a sewer rehabilitation project it is important to know the site constraints to accurately determine the acceptable repair method. A more expensive/non-surface disruptive repair, such as sliplining, may be more cost-effective because we will not have to repair the roadway or there may not be enough room to replace the utility or to place it in a new location. Preliminary engineering needs an individual with broad experience and visualization. This will enable the individual to properly evaluate the available alternatives. Another part of rehabilitation is proper selection of materials. What are the actual conditions to which the material will be exposed? In the case of a gravity sewer system, numerous products have appeared and disappeared from the market. Knowing the benefits and limitations of each system is critical to the final acceptability of the project. If you need to try a new material, you need to try it at a location where the results can be monitored and where a replacement can be made without a large cost.



Preliminary engineering includes the preparation of design reports on process changes or capacity increases. Many alternatives are now evaluated using computer models to simulate the system. These models can be used for water, reclaimed and lift station/forcemain analysis. For example, a pressure problem may be constantly occurring in the same area of the distribution system and numerous complaints are being received from the customers. A hydraulic analysis can be made of the system to determine the possible solutions to the pressure problem such as increased pump capacity/pressure, increased line size or the addition of a looped line.

Site evaluations are required for the placement of new facilities. For example, the siting of a new lift station will depend on the configuration of the collection and the topographic characteristics of the site. Sometimes land is not available at the best location and the collection system needs to be revised. Sometimes land is available, but it is undesirable land or it requires mitigation. These considerations need to be factored into the alternatives.

**Design** – The design phase proceeds faster with detailed preliminary engineering as described above. Conflict resolution between utilities takes place during the design phase. The design phase requires an individual who is detail-oriented. This individual needs to look at the project and visualize how it can be constructed. Periodic reviews and meetings with staff take place generally at 30%, 60%, 90% and final. Some Owners have different requirements and the reviews are adjusted accordingly. During these reviews, the project is refined and the final product is produced which meets the needs of the Owner/Client. We realize that there are many possible projects and each one will have unique design considerations. CPH has experience in all facets of water systems from wells to surface water treatment, from simple pumping from the ground and chlorination options to reverse osmosis and other technologies and from studies to implementation. The same is true for wastewater from collection to treatment to reuse and from demolition/reconstruction to the siting and construction of new facilities. CPH can provide the design services needed by the Leon County with experienced personnel.

**Permitting** – Almost all projects require permitting from some agency. These agencies include FDOT, FDEP (water and sewer), the Water Management Districts (stormwater and consumptive use permits), ACOE (dredge and fill and wetlands delineation), Counties and Cities. We routinely prepare the documentation required by the agency involved. This includes the applications, engineering documentation/reports and graphical support such as topographic maps and aerials. For example, a water line will require an FDOT/County/City right-of-way utilization permit, an FDEP construction permit, and sometimes dredge and fill/wetlands issues. Small projects at wastewater facilities require a modification to the existing operations permit and can involve a minor permit (those items that do not expand capacity of the facility) or a major modification permit which is an item that either increases capacity or changes the type of treatment at the facility. All work at water plants require construction permits, regardless of the size because almost all changes to a water plant either affect the capacity or the treatment process.



**Bidding Services** – The engineer coordinates all bidding activities with the purchasing department and prepares the bid package for distribution by the Owner. Normal activities include the preparation of any addenda, attendance at the pre-bid meeting, evaluation of the bids and bidder's references, certification of the bid results and making a recommendation to the Owner.

**Construction Administration** – This phase involves the orderly disposition of the completion of the construction process. The engineer supplies the correct number of conformed documents for use by the successful bidder and organizes and conducts the pre-construction conference. In some cases, at the request of the Owner, the Engineer will also provide inspection personnel. During the construction phase, the engineer reviews and approves shop drawings and testing reports, attends progress meetings, reviews pay requests with the Owner, analyzes change order requests, reviews schedules, certifies compliance with the contract documents and project administration. The Engineer makes periodic trips to the project to observe the progress of the work and certify construction activities. The Engineer provides to the Owner clarification and interpretation of the specifications and construction drawings based on requests for information from the Owner or the contractor. During the construction phase all correspondence is routed through the Owner's Representative at the construction site. The Engineer performs, with the Owner, the substantial and final completion inspections, observes the start-up of facilities, prepares as required the O&M manuals and prepares the Certification of Completion of Construction or Letter Request for Clearance for sewer and water facilities. The Engineer is also responsible for the preparation of Record Drawings.

#### **Specialized Skills of the CPH Team:**

The CPH Team includes members with proven ability to solve the special considerations outlined above, and the potential problems they may cause.

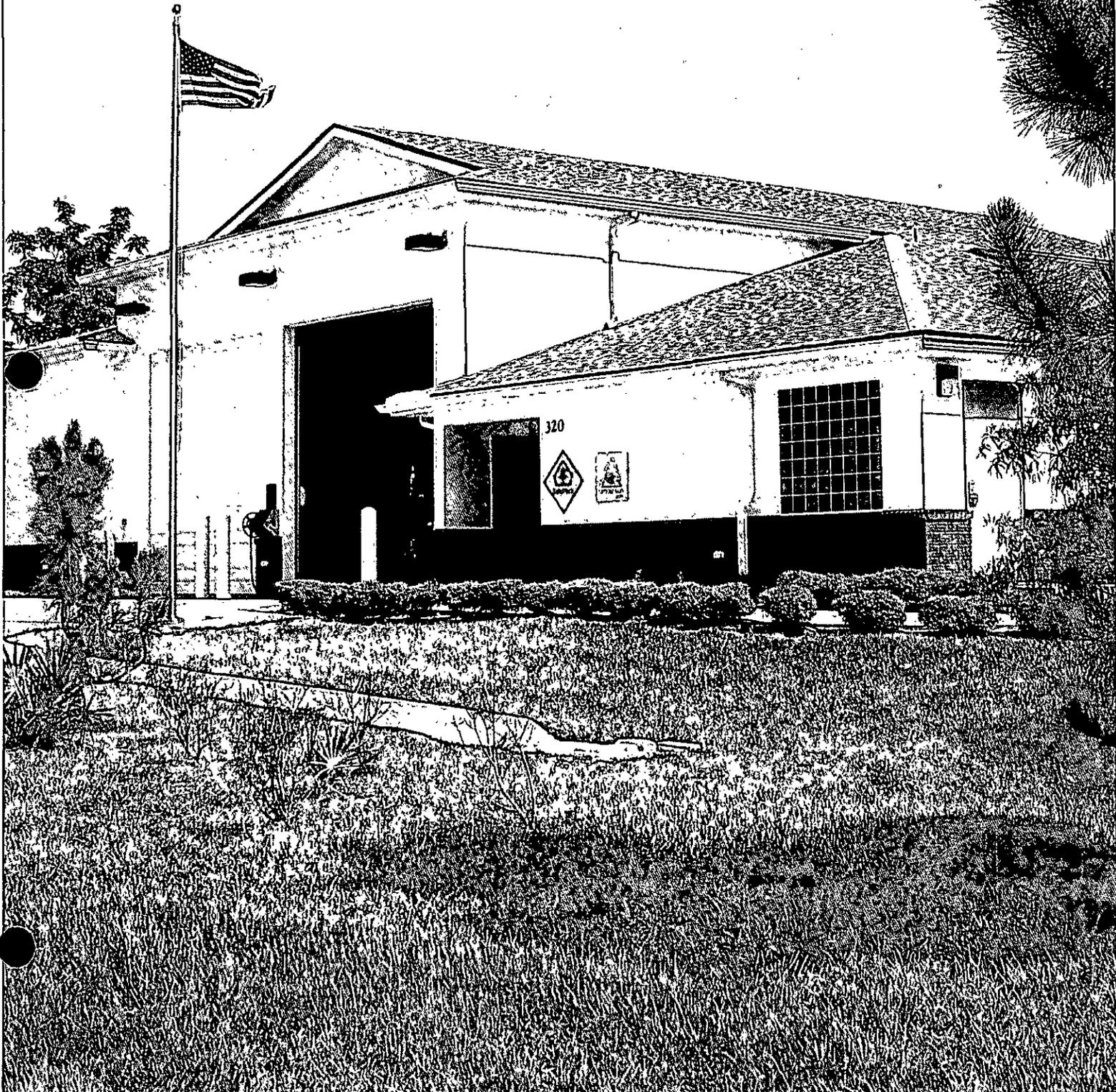
1. CPH has studied, designed and implemented water, sewer, stormwater and reclaimed water projects throughout Florida with acknowledgement of the unique surface water, groundwater, and hydrogeological requirements of the region. Inclusive to our designs are solutions for the immediate problem as well as future needs. The CPH philosophy in multi-task projects is to establish good communications up front which are maintained throughout the project.
2. The use of a "team" approach with the affected parties will be developed. This team will provide a sense of trust, valuable input to the process, and most importantly, reduce conflict and stress caused by miscommunication.
3. The CPH Team, with its multiple team members, provides expertise in flora, fauna, water, sewer, stormwater, and paving considerations. The CPH Team includes the ability for a higher level of independent thinking brought together to provide a cohesive, comprehensive and implementable project.

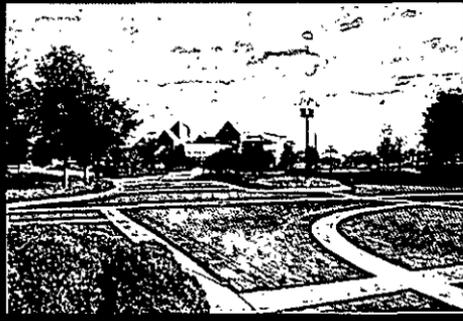
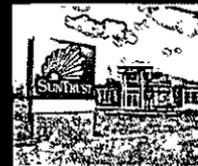
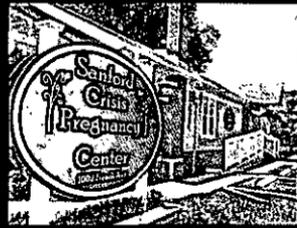
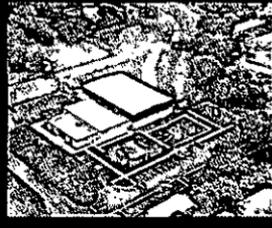
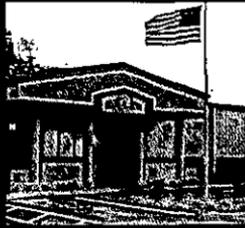


4. Coordination with the addition/retrofitting of existing facilities to provide for new sewer service and stormwater systems is provided by the CPH Team's experiences both from a design perspective and owner perspective. The CPH Team has worked successfully in the past with other consultants on retrofitting, additions, funding and financing of wastewater systems, resulting in successful systems throughout Central Florida.
5. Innovative and alternative sewerage options are a specialty of the CPH Team, including the design of vacuum sewer systems. We can offer other solutions, if desired, to the sewerage problem in the area. Alternative solutions can be addressed on a cost benefit basis with advantages and disadvantages discussed for each alternative.
6. The retrofit of sewer, water, reclaimed water and stormwater systems are a specialty of the CPH Team. As a municipal engineer we are constantly providing upgrades and new installation within existing urban environments. We know the constraints associated with construction inside existing urbanized area.
7. The CPH Team is very familiar with continuing utility work. We have assisted counties and cities with the grant and SRF process and designed many associated facilities.
8. We have extensive design and construction experience. We have provided construction administration services on most of the projects listed herein



# Subdivision and Site Development Engineering







# A. Ability of Professional Personnel

## 1. Number of Professional

CPH has reviewed the scope of services and has developed ideas for staffing the projects. Based on our recent experience, and our project manager's experience, we feel comfortable in meeting the scope requirements. The Panama staff is available to complete the Continuing Engineering Contract for Subdivision and Site Development Engineering Services as outlined in the scope of work.

CPH has the personnel and resources immediately available to carry the Continuing Contract for Subdivision and Site Development Engineering Services to successful completion. In addition to our 240 staff members, our available personnel equals approximately 70 (including engineers, environmental scientists, and survey personnel). The firm's Panama office can provide approximately 960 manhours per month and CPH's corporate monthly availability is approximately 56,000 manhours a month. The CPH Panama office has more than adequate personnel and availability to provide the services to Leon County.

The team proposed to provide services to Leon County has adequate time available to dedicate to the successful completion of the Continuing Contract for Subdivision and Site Development Engineering Services.

Key Personnel	Current Availability	Availability in 6 Months	Availability in 12 months
David A. Gierach, P.E., CGC	50%	65%	75%
Jason Toole, P.E., LEED AP	65%	75%	85%
Yvonne Paguada, P.E.	60%	75%	80%
Julio Paguada	70%	75%	85%
Jeremiah D. Owens, P.E.	75%	70%	80%
Wade P. Olszewski, P.E.	60%	70%	80%
Brian Cassidy, P.E.	50%	60%	72%
Ben C. Buencamino	55%	60%	75%
Allen C. Lane, P.E.	65%	70%	85%
Thomas J. Galloway, PSM	60%	65%	75%
Randall "Randy" L. Roberts, PSM	70%	75%	80%
Amy E. Daly	60%	70%	80%
Aaron Moore	70%	75%	80%

## 2. Brief Resumes

Name	Title	Years of Experience/ Years with CPH	Education/Licenses
David A. Gierach, P.E., CGC	Principal-in-Charge	Total 29 With CPH 19	B.S.- Environmental Engineering, University of Florida, Licensed Professional Engineer- Florida (No. 38642), General Contractor License (No. CGCO60789)
Jason Toole, P.E., LEED AP	Project Manager	Total 10 With CPH 6	B.S., University of Florida, Civil Engineering Honors, Licensed Professional Engineer- Florida (No. 66531), LEED Accredited Professional, FDEP Stormwater Management Inspector
Yvonne Paguada, P.E.	Project Engineer	Total 10 With CPH 4	B.S., University of Florida, Environmental Engineering, Licensed Professional Engineer- Florida (No. 67437), FDEP Stormwater Management Inspector
Julio Paguada	Project Designer	Total 11 With CPH 6	Technical Degree in Architectural Engineering, West Side Technical FDEP Stormwater Management Inspector
Jeremiah D. Owens, P.E.	Project Engineer/ Drainage	Total 6 With CPH 4	B.S in Civil Engineering, Louisiana Tech University, 2002, Professional Engineer - State of Florida (No. 65037)
Wade P. Olszewski, P.E.	Project Manager	Total 19 With CPH 16	University of Florida, Bachelor of Science Degree, Environmental Engineering, 1993 University of Florida , Bachelor Degree, Building Construction, 1989 Professional Engineer- Florida (No. 54068)
Brian Cassidy, P.E.	Project Engineer	Total 9 With CPH 9	B.S. Civil Engineering, University of North Florida 2002, Engineer-In-Training, State of Georgia, Professional Engineer- Florida (No. 67373)
Ben C. Buencamino	Engineer	Total 26 With CPH 21	Bachelor of Science in Civil Engineering and Bachelor of Science in Environmental and Sanitary Engineering , Mapua Institute of Technology, Professional Engineer - Republic of the Philippines
Allen C. Lane, P.E.	Project Engineer	Total 15 With CPH 18	A.S. Construction Technology, 1989 B.S. Environmental Engineering, 1997 Florida Licensed Professional Engineer
Thomas J. Galloway, PSM	Project Surveyor	Total 17 With CPH 8	B.S. Surveying and Mapping, University of Florida, Professional Surveyor & Mapper LS 6549
Randall "Randy" L. Roberts, PSM	Project Surveyor	Total 36 With CPH 5	Honor Graduate of University of Florida Surveying Program, College of Engineering Florida Professional Surveyor & Mapper #3144
Amy E. Daly	Environmental Scientist	Total 17 With CPH 6.5	B.S.- Biological Sciences, Florida State University, M.B.A.- FMU, Summa Cum Laude U.S. Army Corps of Engineers Wetland Delineation Course, Florida Unified Mitigation Methodology Course, FDEP Certified Stormwater Inspector, Prescribed Burne
Aaron Moore	Environmental Scientist	Total 10 With CPH 5	B.S. Biology, 2001, UCF, Minor Studies, Chemistry, Authorized Gopher Tortoise Agent, (GTA -09-00125), Southwest Florida Water Management District, Soils Identification Course, Florida United Mitigation Assessment Methodology Course, ACOE Wetland Delineator



### 3. Experience of Individual

#### David A. Gierach, P.E., CGC

##### Projects:

- Palm Coast Water Treatment Plant #3
  - **Role:** Principal
  - **Cost:** \$17,671,911
- Palm Coast Wastewater Treatment Facility
  - **Role:** Principal
  - **Cost:** \$11.8 Million
- City of Palm Coast 2 MGD MBR WWTP
  - **Role:** Principal
  - **Cost:** \$18.5 Million

#### Jason Toole, P.E., LEED AP

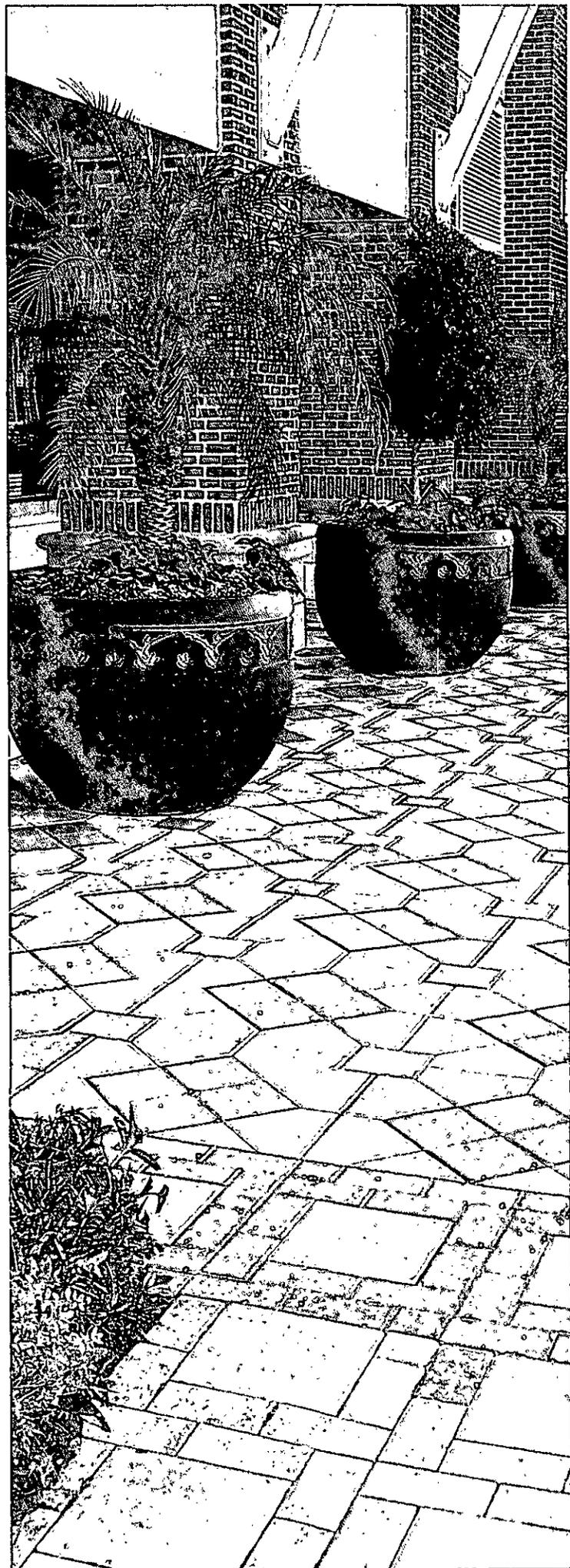
##### Projects:

- SunTrust
  - **Role:** Project Manager
  - **Cost:** \$Varies Per Project
- McDonald's
  - **Role:** Project Manager
  - **Cost:** \$Varies Per Project
- Lowe's
  - **Role:** Project Manager
  - **Cost:** \$Varies Per Project

#### Yvonne Paguada, P.E.

##### Projects:

- SunTrust
  - **Role:** Project Engineer
  - **Cost:** \$Varies Per Project
- McDonald's
  - **Role:** Project Engineer
  - **Cost:** \$Varies Per Project
- Lowe's
  - **Role:** Project Engineer
  - **Cost:** \$Varies Per Project



## Julio Paguada

### Projects:

- SunTrust
  - **Role:** Project Designer
  - **Cost:** \$Varies Per Project
- McDonald's
  - **Role:** Project Designer
  - **Cost:** \$ Varies Per Project
- Lowe's
  - **Role:** Project Designer
  - **Cost:** \$ Varies Per Project

## Jeremiah D. Owens, P.E.

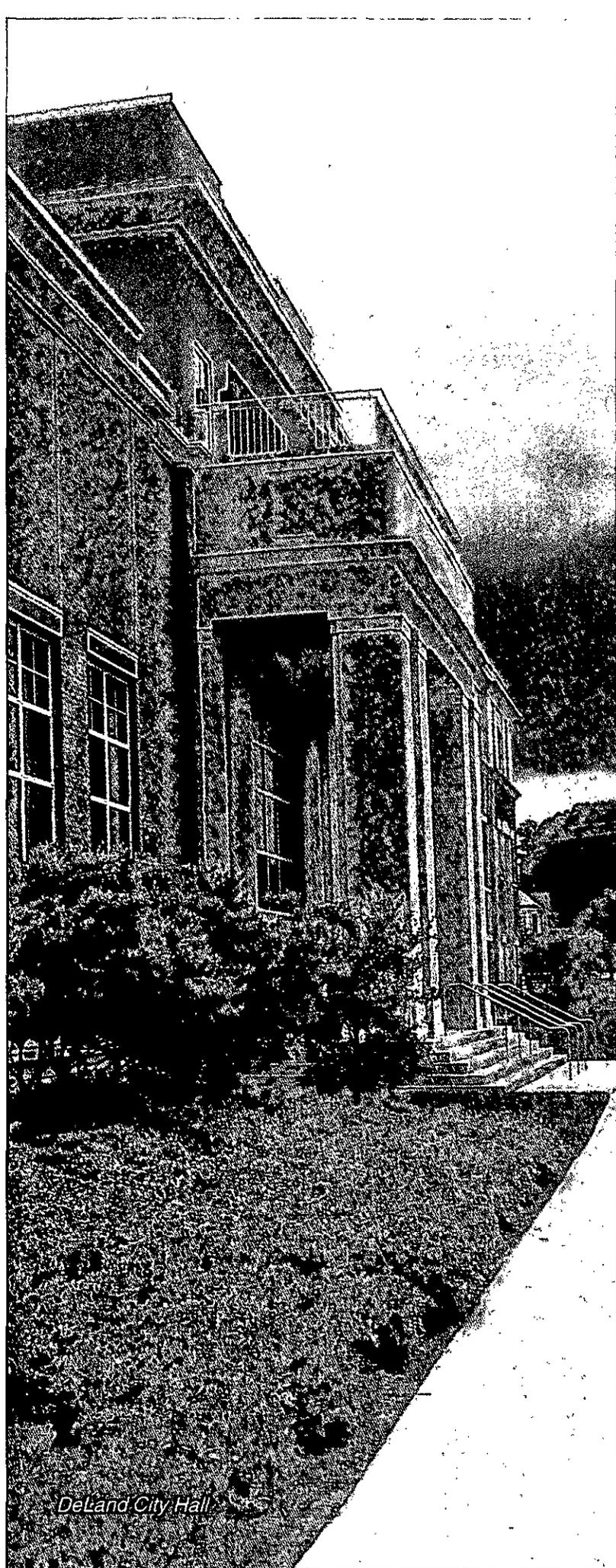
### Projects:

- DeLand Public Works
  - **Role:** Project Engineer
  - **Cost:** \$1.1 Million
- Volusia EOC
  - **Role:** Project Engineer
  - **Cost:** Under Design

## Wade P. Olszewski, P.E.

### Projects:

- Lowe's
  - **Role:** Project Manager
  - **Cost:** \$Varies Per Project
- SunTrust
  - **Role:** Project Manager
  - **Cost:** \$Varies Per Project
- Columbia Correctional
  - **Role:** Project Manager
  - **Cost:** \$ 2.0 Million +/-



DeLand City Hall

## Brian Cassidy, P.E.

### Projects:

- Lowe's
  - **Role:** Project Engineer
  - **Cost:** \$Varies Per Project
- SunTrust
  - **Role:** Project Engineer
  - **Cost:** \$Varies Per Project
- Columbia Correctional
  - **Role:** Project Engineer
  - **Cost:** \$ 2.0 Million +/-

## Ben C. Buencamino

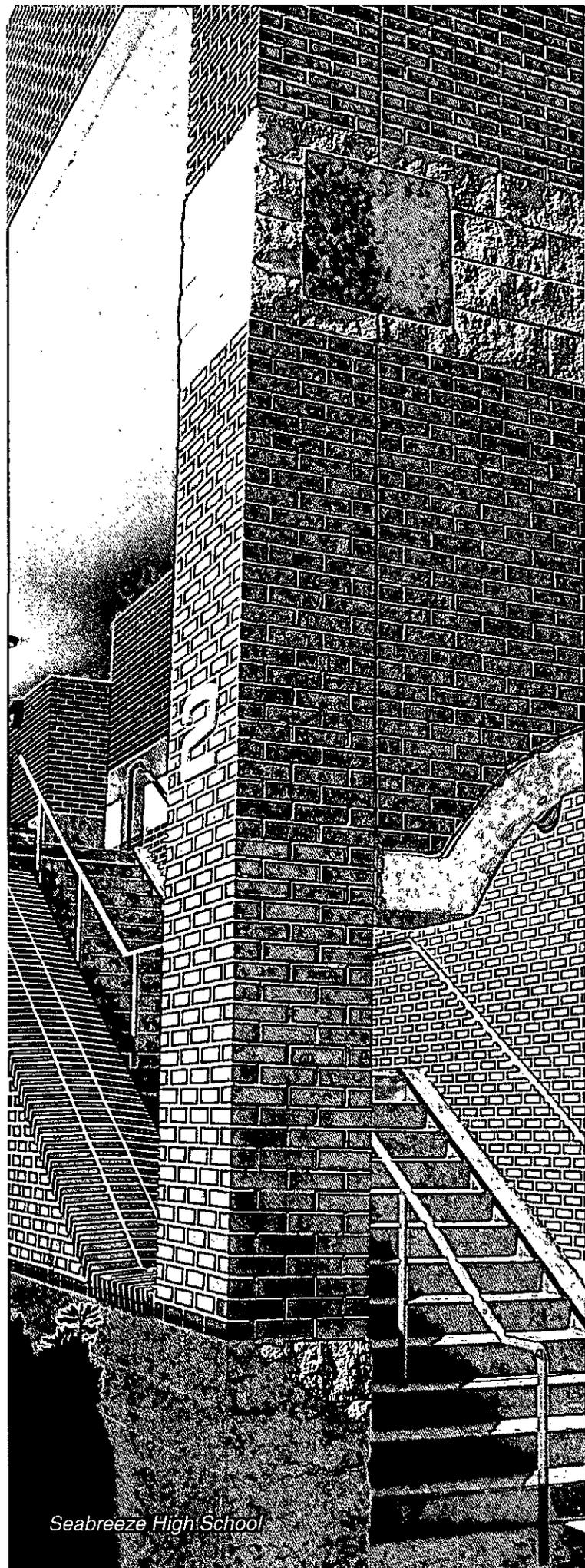
### Projects:

- Lake County Schools Continuing Contract
  - **Role:** Project Manager
  - **Cost:** \$ Varies Per Project
- Volusia County Schools Continuing Contract
  - **Role:** Project Manager
  - **Cost:** \$ Varies Per Project
- McDonald's
  - **Role:** Project Manager
  - **Cost:** \$ Varies Per Project

## Allen C. Lane, P.E.

### Projects:

- Lake County Schools Continuing Contract
  - **Role:** Project Engineer
  - **Cost:** \$ Varies Per Project
- Volusia County Schools Continuing Contract
  - **Role:** Project Engineer
  - **Cost:** \$ Varies Per Project
- McDonald's
  - **Role:** Project Engineer
  - **Cost:** \$ Varies Per Project



Seabreeze High School



## Thomas J. Galloway, PSM

### Projects:

- Lake County Schools Continuing Contract
  - **Role:** Surveyor
  - **Cost:** \$ Varies Per Project
- Volusia County Schools Continuing Contract
  - **Role:** Surveyor
  - **Cost:** \$ Varies Per Project
- McDonald's
  - **Role:** Surveyor
  - **Cost:** \$ Varies Per Project

## Randall "Randy" L. Roberts, PSM

### Projects:

- Lake County Schools Continuing Contract
  - **Role:** Surveyor
  - **Cost:** \$ Varies Per Project
- Volusia County Schools Continuing Contract
  - **Role:** Surveyor
  - **Cost:** \$ Varies Per Project
- McDonald's
  - **Role:** Surveyor
  - **Cost:** \$ Varies Per Project

## Amy E. Daly

### Projects:

- Lake County Schools Continuing Contract
  - **Role:** Environmental Scientist
  - **Cost:** \$ Varies Per Project
- Volusia County Schools Continuing Contract
  - **Role:** Environmental Scientist
  - **Cost:** \$ Varies Per Project
- McDonald's
  - **Role:** Environmental Scientist
  - **Cost:** \$ Varies Per Project

## Aaron Moore

### Projects:

- Lake County Schools Continuing Contract
  - **Role:** Environmental Scientist
  - **Cost:** \$ Varies Per Project
- Volusia County Schools Continuing Contract
  - **Role:** Environmental Scientist
  - **Cost:** \$ Varies Per Project
- McDonald's
  - **Role:** Environmental Scientist
  - **Cost:** \$ Varies Per Project



**Academic Credentials**

B.S. Environmental Engineering,  
University of Florida, Gainesville, Florida

**Licenses & Certifications**

Licensed Professional Engineer, Florida  
(No. 38642)  
General Contractor License CG-CO60789  
Licensed Professional Engineer,  
Connecticut (No. 0025574)

**Principal Areas of Expertise**

Master Water/Wastewater/Reclaimed  
Water Plans

Planning, Design and Engineering Services  
during construction for water, wastewater,  
and reclaimed water type projects

Road Design and Construction  
Engineering and Inspection

Design and Construction of water supply,  
treatment and distribution systems

Stormwater management, land  
development projects, recreational facility  
design

Major wastewater treatment plants, water  
reclamation facilities, wastewater collection  
systems, and reclaimed water systems

**Professional Activities**

ASCE  
Water Environment Federation  
North American Lake Management Society  
American Society of Testing Materials  
American Water Resources Associates

Mr. Gierach serves CPH Engineers, Inc. as President. He has specialized in planning, design and engineering services during construction for road projects, water, wastewater, and reclaimed water type projects. He has prepared Master Water/Wastewater/Reclaimed Water Plans for clients such as the City of Casselberry, Winter Springs, Volusia County, Seminole County, the U.S. Navy, and others. He has extensive experience in the design of major wastewater treatment plants, water reclamation facilities, wastewater collection systems, control and SCADA systems, and reclaimed water systems, and he has provided such services to clients including the Cities of Sanford, Lake Mary, Casselberry, Winter Springs, Orlando, the U.S. Navy and Volusia County for numerous projects. He has extensive experience in the design of water supply, treatment and distribution systems, and has provided services to the Cities of Sanford and Casselberry, Sanlando Utilities, Volusia County, and others. Mr. Gierach also has experience in stormwater management, land development projects, recreational facility design and road design. He has provided services in these fields to various private clients and to public clients such as the U.S. Navy, City of Lake Mary, Volusia County, Seminole County, and others.

Mr. Gierach served four years as an Officer in the United States Navy, Civil Engineer Corps before joining the firm of CPH. During his time in the Navy, Mr. Gierach served two years as the Assistant Officer in Charge of Construction at Naval Weapons Support Center, Crane, Indiana. His responsibilities in this position included assisting in the supervision and operation of a contract administration staff consisting of four engineers, seven construction inspectors, and four contract specialist personnel. In addition, he served as Project Manager in charge of the contract administration of construction contracts valued at over \$6 million annually. The project types varied from the construction of a \$2 million remote-controlled Plastic Bonded Explosive Production Facility to installation of force mains, water lines, and office facilities. He also served two years as an assistant to the Public Works Officer at Naval Support Activity, New Orleans, Louisiana. In this position, his primary responsibility was preparation and contract administration of over \$750,000 annually of Public Works maintenance contracts.

**Academic Credentials**

B.S., University of Florida, 2003  
Civil Engineering Honors

**Licenses**

Professional Engineer – State of Florida

**Certifications**

LEED Accredited Professional  
FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Commercial land development including general site planning, stormwater management modeling analysis, lift station design, and permitting of sites through various jurisdictional agencies.

**Professional Activities**

Tau Beta Pi

Mr. Toole serves the firm of CPH Engineers, Inc. as a Project Manager/Engineer and the Branch Manager of the firm’s Panama City office. He is responsible for design and engineering infrastructure, grading, drainage, potable water, sanitary sewer systems, lift station design, as well as the preparation and processing of permits through various regulatory agencies. While at CPH, Mr. Toole has served as principal, program manager, and project engineer for complex projects that have involved coordination with the public, government entities, and other consultants. Currently, he serves as Program Manager for the Firm’s SunTrust Bank development program, where he manages various design teams for SunTrust’s Florida Redevelopment program. Mr. Toole has over 8 years of experience and is a Registered Professional Engineer in Florida.

Prior to working with CPH Engineers, Inc., Mr. Toole worked as an intern for the Florida Department of Transportation. During this time he gained valuable experience in conducting roadway inspections, testing construction materials, and researching test methods and equipment.

Additional Experience includes:

**General Site Development Projects:** Planning and site layout, stormwater and utilities design, large & small-scale Comprehensive Plan amendments, rezoning, permitting, public presentation, pollution prevention plan preparation, construction estimating, and site inspection.

Recent development projects include:

**Lowe’s, Ensley (Escambia County), FL – Commercial Retail.** Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**Wal-Mart, Estero, FL – Commercial Retail.** Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**Wal-Mart Neighborhood Market, Cape Coral, FL – Commercial Grocery.** Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**SunTrust Bank Program –** Serves as Program Manager for SunTrust’s statewide development program. Responsible for coordinating the permitting efforts of all civil related activities for all new sites within the State of Florida.

**Academic Credentials**

B.S., University of Florida, 2003  
Environmental Engineering

**Licenses**

Professional Engineer – State of Florida  
No. 67437

**Certifications**

FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Stormwater Management Systems  
Utility Systems Modeling  
Land Development  
Transportation  
Permitting  
Construction Administration  
Construction Inspection

**Professional Activities**

Florida Engineering Society

**Modeling Software Experience**

ASAD, ICPR, Adds, HEC-RAS, Ponds,  
FlowMaster, CulvertMaster, WaterCAD,  
SewerCAD, AutoCAD, MicroStation,

Mrs. Paguada serves the firm of CPH Engineers, Inc. as a Senior Project Manager. She has over ten years of experience in project management, including the design and engineering of both public and private sector projects. She is experienced in large and small scale stormwater management design, large and small scale land development projects, construction administration and oversight involving inspection of SWPPP controls, utility installations, and reviewing as-built surveys. Mrs. Paguada's experience in land development projects include new and redeveloped sites which include site layout, grading, and design of the necessary utilities. Several of which include utility design and permitting for items such as lift stations, fire water main/tank, utility main extensions, and directional bore installations.

Mrs. Paguada's representative projects include:

***Wal-Mart, Destin East (Walton County), FL – 10.15 acre site***

Mrs. Paguada served as the project engineer responsible for the design and permitting for a new Wal-Mart store. The stormwater management system consisted of a dry retention pond in order to provide for the necessary stormwater treatment and attenuation while not encouraging mosquito breeding. The utilities design included a new lift station, fire water tank and pump, and irrigation well. The project also included a new turn lane and driveway off of State Road 98 which required additional permitting and coordination between FDOT, FDEP, Walton Co. and the local utility companies.

***Lowe's, West Pensacola (Escambia County), FL – 10.02 acre site***

Mrs. Paguada served as a project engineer responsible for the design of the site grading, stormwater management system, utility layout involving a new lift station, nearly one mile of force main extension, and permitting of the site. The stormwater runoff for this project was designed to discharge to an Escambia County pond. This allowed us to work closely with Escambia County to update their ICPR and GIS shape files for this particular drainage basin.

***Poinciana Parkway, Polk and Osceola Counties, FL***

Mrs. Paguada served as project engineer performing stormwater management design and permitting for the 10-mile roadway corridor. Stormwater design included 7 wet detention ponds serving a combination of side swales and storm sewer throughout. Mrs. Paguada assisted in conducting culvert analysis and design to allow for the conveyance of existing wetland flow and habitat critter crossings since a portion of the project crossed through wetlands and a wetland mitigation bank. In addition, Mrs. Paguada completed floodplain compensation calculations for this project.

***Poinciana - Adult Retirement Community, Osceola County, FL***

Mrs. Paguada worked as a project engineer for the proposed 200+ acre retirement community to design the stormwater management master plan that would include interconnected wet detention ponds and conservation areas throughout. She was responsible for assessing the pre-development condition of the land by developing a ICPR model to represent the existing hydrology (areas of water storage and conveyance) of the land.

**Academic Credentials**

Technical Degree in Architectural Engineering, West Side Technical, 2000

**Certifications**

FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Land Development  
Utility Layouts and Details  
Roadway Layouts and Details  
Construction Plans Preparation  
Permitting  
Construction Administration  
Construction Inspection

**Professional Activities**

Florida Engineering Society

**Software Experience**

Autocadd, Autoturn, microsoft office,

Mr. Paguada serves the firm of CPH Engineers, Inc. as a Project Designer. Mr. Paguada has over 6 years of Civil Engineering experience and over 3 years of Architectural design experience. His experience includes mixed-use developments, residential neighborhoods, redevelopments of existing sites, and retail shopping centers. Mr. Paguada has expertise in site layout to achieve the best possible use of the land considering sound engineering, cost, public safety, and constructability. He is experienced with laying out roadways, buildings, grading, drainage (detention, retention, and underground systems), potable water, and sanitary sewer; and presenting them in plan, profile, and/or cross-sectional views. In addition, Mr. Paguada provides the supporting specs, details, SWPPP plans, demo plans, and/or MOT plans as necessary for the project. He is skilled with coordinating between the various parties necessary to complete the project design; such as, survey, landscaping, geotechnical, environmental, and/or structural. Furthermore, Mr. Paguada has experience in construction administration, coordination, and oversight involving inspection of SWPPP controls, utility installations, and reviewing as-built surveys.

Mr. Paguada's representative projects include:

**Lowe's, West Pensacola (Escambia County), FL**

This 27.76 acre project included 15 acres of wetlands. Mr. Paguada provided several alternative site layouts in order to achieve a layout to make best use of the property while impacting the least amount of wetlands. Off-site roadway improvements included approximately 0.5 mile of additional turn lanes and traffic signal on the abutting super elevated section of Blue Angel Parkway.

**Lowe's, Ensley (Escambia County), FL**

Mr. Paguada was responsible for laying out this site to include a Lowe's store, four outparcels, two driveway connections, and all of the necessary infrastructure. This project included a new lift station with approximately 1 mile of 4-inch force main. A detailed demolition plan was also needed for demolition of the existing homes, nursery, vacated roadways, and utilities. Offsite improvements to West Nine Mile Road included approximately 1 mile of additional turn lanes, realignment, and restriping.

**McDonald's, Capital Circle (City of Tallahassee), FL****McDonald's, Governor Square (City of Tallahassee), FL****SunTrust, Santa Rosa (City of Santa Rosa), FL**

**Academic Credentials**

University of Florida  
Bachelor of Science Degree  
Environmental Engineering, 1993

University of Florida  
Bachelor Degree  
Building Construction, 1989

**Licenses**

Professional Engineer, State of Florida

**Principal Areas of Expertise**

Land Development  
Storm Water Design  
Reclaimed Water Systems  
Distribution and Collection Systems  
Wastewater Treatment  
Reclaimed Water Systems

**Professional Activities**

Water Environment Federation  
Society of Environmental Engineers  
Tau Beta Pi, Engineering Honor Society  
Sigma Lambda Chi, Construction Honor Society  
Associated Building Contractors  
Chi Phi

Mr. Olszewski serves the firm of CPH Engineers, Inc. as Project and Branch Manager for the Jacksonville office of CPH. He serves both public and private clients in his areas of expertise of Environmental and Civil Engineering. These projects include work in land development and municipal engineering, including planning, surface water management, potable water supply, sanitary sewer systems, and wastewater treatment. Mr. Olszewski has served Private Clients including Wal-Mart, McDonald's and local commercial and residential developers and has served Public Clients including the City of Jacksonville Beach, Duval County School Board, City of Winter Springs, City of Casselberry, City of Orlando, and the Seminole County School Board. He also served as Project Engineer and Quality Control Manager for a sewer rehabilitation project for the U.S. Navy on Guam.

Prior to joining CPH, Mr. Olszewski was employed by the University of Florida, in 1992, under a research grant to study the ability to expand denitrification capacity at the Kanapaha Water Reclamation Facility. His primary responsibility was the analysis and reporting of wastewater characteristics, including nitrate and nitrite concentrations using ion chromatography, total suspended solids by gravitation methods, and chemical oxygen demand.

From 1990 to 1991, Mr. Olszewski was employed by Morey and Sabin Construction of Stuart, Florida. As Project Coordinator and estimator at this multi-million dollar construction firm, his responsibilities included quantity surveys, coordination and negotiation of subcontractor bids, the preparation of bid proposals, writing and editing specifications, and coordinating the contract documents with the Project Superintendent during construction.

From 1988 to 1989, Mr. Olszewski was employed as a property inspector for Commercial Management Corporation of Pompano Beach, Florida. From his base in Gainesville, Florida, Mr. Olszewski was responsible for inspecting various client-owned shopping centers in Central and North Florida, reporting existing conditions and possible problems, and coordinating repairs and maintenance.

**Academic Credentials**

B.S. Civil Engineering  
University of North Florida 2002

**Licenses**

Engineer-In-Training, State of Georgia  
Professional Engineer, State of Florida  
License No. 67373

**Principal Areas of Expertise**

Hydrologic and Hydraulic Analysis, Storm  
Water System Design, Water & Wastewater  
Systems Design, Specifications, Permitting,  
Commercial and Residential Site Design  
and Inspections

**Professional Organizations**

Society of American Military Engineers  
(SAME)

Mr. Cassidy serves the firm of CPH Engineers, Inc. in the capacity of Project Engineer. Mr. Cassidy specializes in the design and permitting of utility systems and storm-water systems associated with commercial and residential development. Mr. Cassidy has served public and private clientele by providing various utility and land development designs and permitting throughout Northeast Florida.

From 2001 to Present, Mr. Cassidy is employed by CPH Engineers, Inc. as an engineer. He reviewed stormwater, domestic water and wastewater permits and assisted in the design of commercial and residential site design. He developed stormwater master plans and drainage studies on a variety of commercial and residential projects. He assisted in the design and permitting of privately and publicly owned sewer pump stations and multiple water and sewer main extension projects. He assisted with construction administration services, such as inspections, final certifications and as-built review, for many of the aforementioned projects.

Mr. Cassidy gained experience in the area of domestic drinking water distribution through the design and permitting of systems providing drinking water for residential subdivisions. At the University of North Florida, he participated in the analysis of a large drinking water distribution system that consisted of modeling different alternatives and analyzing the effectiveness of various treatment techniques.

Mr. Cassidy served as an assistant to the Environmental Engineering department at the University of North Florida. His responsibilities included the inventory of new lab equipment and preparing experiments for the environmental engineering lab students.

While Mr. Cassidy was a student at the University of North Florida he volunteered his time to the Structural Engineering department by setting up and repairing equipment for laboratory experiments. He also participated in the City of Jacksonville Science Fair as a student judge.

**Academic Credentials**

B.S. Civil Engineering, 1980; B.S.  
Environmental & Sanitary Engineering,  
1981 Mapua Institute of Technology

**Licenses**

Professional Engineer - Republic of the  
Philippines

**Principal Areas of Expertise**

Stormwater Management  
Education Facilities  
Commercial Development

**Professional Activities**

American Society of Civil Engineers  
Philippine Institute of Civil Engineers

Mr. Buencamino serves the firm of CPH Engineers, Inc. as a Project Manager for both public and private civil projects.

Mr. Buencamino joined the firm in 1989. He has performed civil design work for private subdivisions, public utility systems, commercial, governmental and industrial projects throughout Central Florida. One of the government projects he worked on was the City Hall Complex for the City of DeLand. Because of the unusual setup of the project, extensive coordination between the Owners, City and County, regulatory agencies, construction manager, contractor, and local residents was necessary to make sure all proposed improvements were in sync with existing conditions. Mr. Buencamino was also involved during the planning and design of the City Hall in Clermont.

Mr. Buencamino also has extensive experience in Project Study, Construction Management / Supervision, and Contract Administration.

Since 1990, Mr. Buencamino has served as Engineering Consultant to the Volusia County School Board and, in recent years, has served the school boards of Lake and Polk Counties. During this time he was invaluable in the design and permitting of various school board paving and drainage projects, including working with school board staff, conducting field inspections and utility testing activity, reviewing test results, processing pay requests and change orders, and with project closeout. Recently, he finished designing three (3) new schools, which included existing road improvements and widening. Currently, Mr. Buencamino is involved in designing High School BBB in the City of Minneola, Lake County, and the design of Fosgate Road in conjunction with the high school development.

Prior to working for CPH, Mr. Buencamino was a Philippine Resident Manager for China State Construction & Engineering Corporation from 1988 until 1989, working also as the Project Manager for the construction of a geothermal electric plant in the Philippines.

**Academic Credentials**

A.S. Construction Technology, 1989  
B.S. Environmental Engineering, 1997

**Licenses**

Florida Licensed Professional Engineer

**Principal Areas of Expertise**

Stormwater Management  
Water and Stormwater Design

**Professional Activities**

American Society of Civil Engineers

Mr. Lane serves the firm of CPH Engineers, Inc. as a Project Engineer for both public and private civil projects.

Mr. Lane joined the firm in 1989 as a drafting technician with an A.S. in Construction Technology. He returned to school par-time and earned a B.S. in Environmental Engineering in 1997. Mr. Lane received his P.E. License in 2003. Since 1997, he has served as a Project Engineer for a number of private and public projects, including educational facilities and municipal projects.

Mr. Lane designed various infrastructure, grading, drainage, water, sewer and paving systems for The City of Oviedo, The City of Winter Springs and the City of Lake Alfred. The designs included stormwater projects, road improvement projects and new utility projects for the various Cities. He assisted in designing the infrastructure and roadways for the first phase of the Winter Springs Town Center including grading, drainage, paving, and water and sewer systems. Mr. Lane also designed and permitted a stormwater project for the City of Lake Alfred that included permitting through the SWFWMD with funding through FEMA (CDBG). Mr. Lane has been a member of the design team in designing various projects, including single-family home subdivisions, school sites, and water and sewer routes along major streets and highways. Included in his design background are grading plans for drainage, utility plans for sewer, water, and fire lines, and detail sheets for specific construction items necessary to complete a project.

Mr. Lane has experience in construction administration, including both fieldwork and office administration.

Mr. Lane also has experience in permitting for stormwater collection systems, potable water, and sanitary sewer systems, inclusive of data collection and submittal packages for approval. He also has experience in permitting with the Florida Department of Transportation, City Municipalities, and private companies.

**Academic Credentials**

B.S. Surveying and Mapping, 1992  
University of Florida

**Licenses****Florida**

Surveyor & Mapper LS6549

**Puerto Rico**

Professional Land Surveyor No. 23387

**Alabama**

Professional Land Surveyor No. 31338-S

**Certification**

NCEES Record No. 1291

**Principal Areas of Expertise**

Surveying and Management

Highway Projects

Land Development/Commercial and

Private Projects

Municipal Projects

**Professional Activities**

The Florida Surveying and Mapping  
Society

Mr. Galloway has over 17 years of experience in the surveying and mapping profession, and has a Bachelor of Science of Surveying and Mapping from the University of Florida. His experience ranges from working in the field and office on small to large development projects, to serving as Party Chief / Survey CADD Technician, Project Manager and Survey Manager.

Mr. Galloway has served as Principal and Director of the Surveying Division of the firm since its establishment in 2001. He has overseen the department's growth from two survey crews to managing the current seven survey crews. Additionally Mr. Galloway has been personally involved in over 2,500 surveys while at CPH, serving in capacity from principal to project surveyor.

Representative projects include:

- City of Arcadia, FL. - Utility Route Survey
- Minto Communities - Boundary, Construction layout and platting for 1,500 Lot Residential Subdivision.
- City of Holly Hill - Utility location and right-of-way determination.
- U.S. Navy - Vertical control and sanitary sewer design build survey on the Island of Guam.
- Nations Bank - Boundary/Topographic surveys and platting.
- Volusia County School Board – Southwestern Middle School As-Built Survey.
- Florida Department of Agriculture - Immokalee Farmers Market
- Newland Communities – 15-mile control and route survey
- Martin County School Board

Mr. Galloway is proficient in the use of computer software programs and field equipment, such as:

- AutoCAD Land Development Desktop
- TDS-Data Collection hardware and software
- Micro station, EFB and Caice
- Topcon & Leica total stations
- Trimble Post Processing Software
- Trimble and Ashtech GPS Equipment
- Arcview

**Academic Credentials**

Honor Graduate of University of Florida  
Surveying Program, College of  
Engineering, 1975

**Licenses****Florida**

Surveyor & Mapper LS3144

**Connecticut**

Land Surveyor No. LSX.0070359

**Alabama**

Professional Land Surveyor No. 31341-S

**Certification**

NCEES Council #1419

**Principal Areas of Expertise**

Surveying and Management  
Highway Projects  
Land Development/Commercial and  
Private Projects  
Municipal Projects  
Subdivision Plats and Lot Surveys  
Sectional Retracement

**Professional Activities**

Member Florida Surveying & Mapping  
Society  
Member Florida Land Surveyor's Council

Mr. Roberts has over 36 years of experience and serves the firm of CPH Engineers, as a Quality Control Survey Manager.

Prior to joining CPH, Mr. Roberts worked in the central Florida area and performed boundary, topographic, route, mortgage and as-built surveys, along with preparing subdivision plats, wetland location and FEMA elevation certificates.

Randy also has experience with utility route surveys including the following: Lake Bryan 69kv line for Florida Power Corporation transmission line through 7 miles in Orange County; and Altamonte 115kv line for Florida Power Corporation transmission line through 11 miles in Seminole County; and he was also in charge of the Seminole County portion, approximately 22 miles in length of the Duval to Poinsett twin 500kv transmission line for Florida Power & Light Company.

Representative projects include:

- City of Sanford Park and Ball Fields
- AutoZones in Orange, Volusia and Seminole Counties
- Personal Mini Storages in Central Florida
- City of Lake Mary Police Station
- City of Lake Mary Cemetery
- City of Lake Mary Sidewalks
- 1400-Acre site along Haw Creek in Volusia County
- Monitoring pins and piezometers for FP&L Reservoir at Sanford Power Plant
- 

Randy's office experience includes the following software:

- Autocad R10
- Autocad R12
- Autodesk LDD2
- Autodesk LDD3

Randy has field experience using the following:

- Wild T1000 DI1000 Total Station
- Topcon GTS 203 Total Station
- Zeiss and Nikon Auto level
- HP 48 Data Collector using TDS software

**Academic Credentials**

B.S. Biological Sciences, 1991, FSU

M.B.A. 1997, FMU, Summa Cum Laude

**Principal Areas of Expertise**

Ecological Assessments  
Environmental Permitting  
Mitigation Program Design  
Wetland Delineation  
Land Management

**Certifications**

U.S. Army Corps of Engineers Wetland Delineation  
Florida Unified Mitigation Methodology Course  
FDEP Certified Stormwater Inspector  
Prescribed Burner  
NAUI Scuba Diver  
Authorized Gopher Tortoise Agent (GTA-09-00145)  
LEED Accredited Professional

**Professional Affiliations**

National Association of Environmental Professionals

Florida Association of Environmental Professionals,

- Board Member 2000-2008
- Vice President 2003-2005
- President 2005-2008

Central Florida Association of Environmental Professionals,

- Board Member 1997-2001,
- Newsletter Editor & Secretary 1997-2000

Society of Wetland Scientists

NAIOP

Association of Eminent Domain Professionals

Student Pilot

Mrs. Daly serves CPH as Director of Environmental Services. Mrs. Daly has 17 years of environmental consulting experience including environmental resource assessments, habitat mapping, jurisdictional determinations, wetland functional analyses, protected wildlife surveys and management programs, and environmental resource permitting.

Mrs. Daly has designed and performed behavioral monitoring programs for bald eagle, Florida scrub jay, red-cockaded woodpecker, crested caracara, gopher tortoise and the sandhill crane. She has extensive experience in developing, permitting and marketing regional mitigation banks. She has also permitted, designed, monitored mitigation programs for both public and private entities. She is knowledgeable of data base programs and has performed detailed statistical analysis of environmental data. She has served as an expert witness on various environmental matters for condemnation proceedings.

Respective projects include:

**Florida Department of Transportation, District One**

Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for the following six (6) projects: Interstate 4, Polk County-Section 5, State Project No. 16320-1440; State Road 35 (US 17), DeSoto County, State Project No. 04020-3512; State Road 35 (US 17)-County Road 760A to Magnolia Avenue, State Project No. 04020-3525; US 441, Okeechobee County, State Project No. 91020-3504; State Road 35 (US 17) from CR764 to Charlotte/DeSoto County Line-Charlotte County, State Project Nos. 01040-1512 and 01040-1513; and State Road 35 (US 17), DeSoto County-Arcadia South, State Project No. 04020-1512.

**Florida Department of Transportation, District Five**

Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for the following two (2) projects: State Road 44, Sumter County, State Project No. 18070-3518; Environmental Scientist to conduct a Preliminary Development and Environmental (PD&E) Study for Interstate 95 (State Road 9)-from US 92 in Daytona-Volusia County to 00.2 miles north of Pellicer Creek in St. Johns County, Volusia, Flagler and St. Johns Counties, State Project No. 73001-1401.

**Florida Department of Transportation, District Two**

Environmental Scientist responsible for wetland delineation, habitat mapping, perform listed species surveys, environmental permitting, agency coordination and preparation of a mitigation alternative analysis for State Road 500, from the City of Chiefland (Hwy. 98) to the City of Bronson (County Road 24), Levy County, State Project No. 34010-1504.

**Florida Department of Transportation, District Six**

Environmental Scientist responsible for ecological assessment of 17 miles of road corridor to prepare a PD&E Study for I-75 from State Road 826 to I-95 interchange as part of the Interstate 75 Master Plan Study, Broward and Dade Counties. Tasks performed included wetland mapping, protected species surveys, assessment of recognized environmental conditions pursuant to ASTM standards, identified potential mitigation options and permitting strategies, Financial Management #2338711201; 25207011201.

**Lithia-Pinecrest Road, PD&E Study and Permitting, Hillsborough County, Florida**

Environmental Scientist responsible for ecological assessment of 1.5 miles of road corridor to prepare a PD&E Study. The road widening is a required off-site infrastructure improvement associated with the Lake Hutto Development of Regional Impact. The corridor begins at Williams Boulevard proceeding northerly to five hundred feet north of Bloomingdale Avenue. Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for this public-private road project.

**Academic Credentials**

B.S. Biology, 2001, UCF  
Minor Studies, Chemistry

**Principal Areas of Expertise**

Environmental Resource Permitting  
Protected Species Surveys  
Protected Species Permitting/Relocation  
Wetland Delineation  
Mitigation Design, Monitoring &  
Implementation  
Ecological Assessments  
Habitat Management  
WUP/CUP Permitting  
Water Quality Monitoring and Assessment  
Wetland Impact Analysis

**Certifications**

Authorized Gopher Tortoise Agent  
(GTA -09-00125)  
Southwest Florida Water Management  
District, Soils Identification Course  
Florida United Mitigation Assessment  
Methodology Course  
ACOE Wetland Delineator

**Professional Affiliations**

American Chemical Society  
Florida Association of Environmental  
Professionals  
Central Florida Association of  
Environmental Professionals  
Society of Wetland Scientist

Mr. Moore serves CPH Engineers as an Environmental Scientist IV in the Environmental Sciences Division.

Aaron has more than eleven (11) years experience in Environmental Consulting Services including wetland delineations, FLUCFCS habitat mapping, environmental assessments, wetland mitigation monitoring, wildlife surveys and monitoring, and environmental resource permitting. Aaron has also participated in wetland mitigation planning, municipal project review, and eminent domain cases.

Respective projects include:

**Wetland Mitigation Monitoring, City of Oviedo, Seminole County, Florida**

Project scientist responsible for the monitoring for the City of Oviedo's wetland restoration and creation mitigation areas at Round Lake Park, Gymnasium/Trailhead Park, Skateboard Park, Well field, and Lockwood water reuse line. Monitoring involved piezometer installation and recording, rainfall data collection and analysis, removal of invasive/exotic species, viability, and quantitative and qualitative assessments for success criteria, and annual/bi-annual reporting to regulating agencies.

**City of Oviedo Wellfield Impact Analysis, Seminole County, Florida**

Field Scientist responsible for collecting background information on wetland soils, wetland condition, water quality and hydrology for wetlands located within predicted surficial aquifer drawdown area of 0.10 feet or greater. Responsibilities include the programming of dataloggers, decoding and analysis of the data for use in groundwater models and ANOVA multivariant computations. Data is presented to the SJRWMD in the form of annual histograms with statistical analytical support.

**Belle Terre Parkway Re-alignment and Widening, Flagler County, Florida**

Aaron was the project scientist tasked to permit the widening and re-alignment of a 4.5-mile portion of Belle Terre Parkway. He performed wetland delineations, wildlife surveys and a wetland impact analysis utilizing the Unified Mitigation Assessment Methodology (UMAM). In addition he prepared the wetland avoidance and minimization analysis and designed a mitigation program to compensate for unavoidable wetland impacts. All study and survey methodologies were designed and performed pursuant to FFWCC wildlife methodology guidelines to determine the presence of protected species on the road corridor. Aaron also performed habitat mapping to determine the presence of rare and unique habitat to facilitate project design. He designed a mitigation program to compensate for 6.34 acres of wetland impact. The mitigation program included the enhancement of 25 acres of City owned property.



*Deltona Fire Station #61*

## B. Experience with Projects of a Similar Type and Size

The following matrix highlights some of CPH recent Subdivision and Site Development Engineering projects and relevant experience. Following the chart, we have included brief profiles of some of these projects, demonstrating our award winning experience. CPH has been providing consulting engineering and inspection services for over 30 years.

	Public Involvement	Surveying & Mapping	Architecture/Buildings	Environmental	Traffic	Roadways	Pipelines	Treatment Systems	Construction Inspection	Construction Management	Landscape Architecture	Permitting	Master Planning
City of Sanford	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Palm Coast	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Winter Springs	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Oviedo	X	X		X	X	X	X	X	X	X	X	X	X
City of Eustis	X	X		X	X	X	X	X	X	X	X	X	X
City of Titusville	X	X		X			X	X	X			X	X
City of Lake Alfred	X	X	X	X	X	X	X	X	X	X	X	X	X
City of Lake Mary	X	X		X		X	X	X			X	X	X
City of DeLand	X	X	X	X	X	X	X		X		X	X	X
City of Casselberry	X	X		X	X	X	X	X	X	X	X	X	X
Volusia County	X	X	X	X		X	X	X			X	X	X
Orange County		X		X			X		X		X	X	
Seminole County		X		X		X	X		X			X	
Sarasota County			X							X			X
Toho Water Authority	X	X	X	X			X	X	X			X	X
Valencia Water Control District	X	X		X				X	X			X	X
Key Largo Wastewater Treatment District		X	X	X			X	X	X			X	
Florida State Agriculture Department		X	X	X	X	X		X	X	X	X	X	





### **Palm Coast Water Treatment Plant #3**

CPH provided complete design and construction management services for a new water treatment facility and administration offices on a twenty-four acre campus located adjacent to U.S 1. CPH prepared the initial project scope, budgets, surveys, preliminary and final design, permitted the project with FDEP, FDOT, Army Corp Engineers, Flagler County, City of Palm Coast, and the St. Johns River Water Management District and provided full construction engineering and inspection Services for the project.

The new water system consists of the following components: 3.0 MGD Low Pressure Reverse Osmosis skids (RO 1.5 MGD), Well Field System to Supply Raw Water to the Water Treatment Plant, Concentrate Treatment & Disposal System, Finished water distribution System to Connect to existing distribution system.

Water Plant No.3 highlights include:

- A reverse osmosis building with an initial 3MGD capacity, expandable to 9 MGD
- Emergency generator building with sound atenuation features.
- 2 million gallon water storage tank.
- Chemical storage building (4,500 sf).
- Operation building containing laboratory, training rooms, administration offices & locker rooms (6,500 sf). The operations building was designed to accommodate both the water treatment staff as well as future wastewater personnel.
- Clear well with odor control system and transfer pumping station for both finish water and concentrate disposal.
- High service pump station.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Palm Coast, Mr. Richard Adams, 2 Commerce Blvd. Palm Coast, Florida 32164, Phone: (386) 986-2350

**Completion Date:** 6/2008

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Wade P. Olszewski, P.E., Brian Cassidy, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Caspersen Beach Park Improvements

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, and bidding/construction administration services for construction of two new restrooms located at 4100 Harbor Drive South, in Venice, Florida. The project includes approximately 4100 LF of new 4" water main and 3100 LF of 2" force main with two lift stations and a new water main for Caspersen Beach Park. The project also included the addition of new ADA parking and access, sidewalks, and stormwater treatment system.

In addition, these improvements are seaward of the CCCL (Coastal Construction Control Line) as well as the GBSL (Gulf Beach Setback Line). CPH obtained a variance from Sarasota County for the improvements seaward of the GBSL and worked with the FDEP to obtain construction permits for the improvements seaward of the CCCL.

Work included investigation of site constraints, modeling of projects water and wastewater, analysis of existing lift stations, preparing a water study based on similar projects, development of Low Impact Design (LID) elements including two rainwater collection cisterns, stormwater engineering, and site improvements. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation. CPH is responsible for completing applications and obtaining site plan approval from Sarasota County and Coastal Construction and Environmental Resource Permits from the Florida Department of Environmental Protection for improvements seaward of the GBSL and CCCL. CPH was retained by the County to perform limited inspection services, shop drawing review, post design services, attendance at progress meetings, as-built drawings, clearance letter, certification of completion of construction, substantial completion and final inspections, review of change orders, and negotiation assistance for changes in the work.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, Phone: 941-861.0841

**Completion Date:** 6/2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Blind Pass Park Improvements

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, bidding and construction administration services for construction of a new restroom, with ADA parking and access, sidewalks, water lines, stormwater treatment system and a new septic drain field for Blind Pass Park, located on the barrier island of Manasota Key at 6725 Manasota Key Road, in Sarasota, Florida.

Initial work included investigation of site constraints, establishing the client's program needs for the site and developing a preliminary site plan. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation. Following approval of the preliminary site plan, CPH is responsible for developing construction plans and specifications, suitable for bidding by construction contractors. CPH is responsible for completing applications and obtaining site plan approval from Sarasota County and permits from Southwest Florida Water Management District (SWFWMD).

CPH was retained by the County to perform limited inspection services, shop drawing review, post design services, attendance at progress meetings, as-built drawings, clearance letter, certification of completion of construction, substantial completion and final inspections, review of change orders, and negotiation assistance for changes in the work.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, Phone: 941-861.0841

**Completion Date:** 2012

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jason Toole, P.E., LEED AP, Yvonne Paguada, P.E., Julio Paguada, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Brian Cassidy, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore

## Columbia Correctional Institute WWTF Improvements

CPH is currently providing engineering services to the DOC to evaluate and design improvements to the existing wastewater facilities

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Lake City

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Manasota Beach Park Restroom and Concession Stand

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, bidding and construction administration services for construction of a new restroom and multi-purpose building, with ADA parking and access, stormwater treatment system, and new septic system for Manasota Beach Park, located at 4100 Manasota Key Road in Sarasota, Florida.

Initial work included investigation of site constraints, establishing the client's needs for the site and developing a preliminary site plan. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation. The project incorporated green building practices and the site plan needed to work with existing architectural elements as well as the beautiful view of the beach enjoyed by vehicles approaching the park. CPH worked with the County to establish and use "branding elements" that are unique to Sarasota County Beach Parks. In addition to restrooms, the facility incorporated a concession building, lifeguard break room/treatment room and a work station for local law enforcement.

Following approval of the preliminary site plan, CPH was responsible for developing construction plans and specifications, suitable for bidding by construction contractors. CPH was responsible for completing applications and obtaining site plan approval from Sarasota County and Coastal Construction and Environmental Resource Permits from the Florida Department of Environmental Protection. CPH will assist the County during construction by attending progress meetings, performing limited inspection services, shop drawing, change order and as-built drawing review, substantial completion and final inspections, and certification of completion of construction.

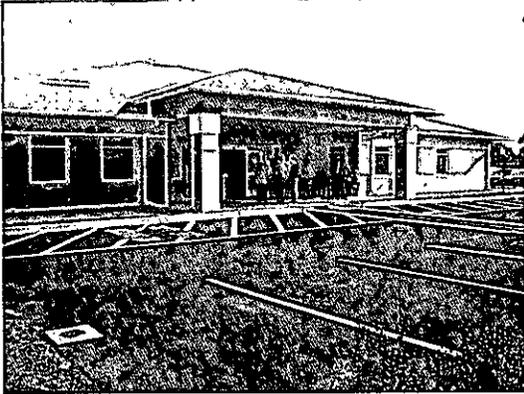
**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, 941-861.0841

**Completion Date:** 8/2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore





## North Port Health Department Expansion & Remodel

The interior of the existing 7,084 sq. ft. building will be re-designed to allow for improved patient flow, lab functions, and pharmacy service. In addition to the remodeling, the building footprint will be increased an additional 5,062 sq. ft. to allow for the expansion of exam rooms in order for the clinic to service more patients. Parking will be increased accordingly. This project also included comprehensive civil and landscape design by CPH for the site landscaping, new retention pond, and parking.

### *Owner and User Requirements*

- The facility is scheduled to be open in 2011
- The expansion/remodeling includes 18 exam room and 4 dental rooms
- Increasing the medical record storage from existing is a necessity
- Secure areas include access to the pharmacy, laboratory as well as direct access to the exam room area. These areas will be under the County access card system with individualized access.
- The eligibility offices area will have an independent egress, and offices will be visible to all in the general area, security can be an issue in this area.
- The project budget is \$1,225,000.00 for Design/Engineering and Construction.

### *Environmental and Sustainability Goals –*

- Building to meet the 2030 Challenge Resolution #2006-157 with minimum delivered fossil-fuel energy consumption performance standard of one-half the U.S. average for that building type as defined by the U.S. Department of Energy.
- Building to be a minimum of Certified with USGBC LEED rating system
- Utilize rainwater and effluent water for flushing toilets and irrigation
- Parking lot medians, if applicable, should be wide enough to accommodate shade trees
- Bio-swales, if applicable, to control rainwater runoff
- This project will follow the parameters as set by the Green Development Resolution No. 2006-174, the Green Building Resolution #05-048, and the Sustainability Resolution 02-119 of the Board of County Commissioners of Sarasota County.
- This project will follow Sarasota County Ordinance 2006-001 for Program Recyclables.
- This project will incorporate the use of flexible fuels per the Plug-in Hybrid Electric Vehicle Resolution #2005-278 of Sarasota County.
- Reduction in the Operations and Maintenance cost is a large factor in the design of the project.

### *Indoor Environmental Quality Requirements –*

- Daylighting and outside views are priority
- All paints and sealants to be low or no VOC
- Building shall have a positive pressure of 0.01" static
- Mold and mildew resistant wallboard



- Occupied temperature and humidity set at  $74^{\circ} \pm 2^{\circ}$  and 30% to 50% - 55% or less is desirable.
- Unoccupied temperate and humidity set at  $78^{\circ} \pm 2^{\circ}$  and 30% to 60% - 55% or less is desirable.
- After hour areas should have separate HVAC system, and/or controls.
- Unoccupied hours interior lighting level reduced to life safety requirement only.

*Building Occupancy and O & M Personnel Requirements*

- Sarasota County's Operational & Maintenance staff will be capable of minor repairs and maintenance of the building systems. Outside vendors could be included on a case-by-case basis.
- This building will utilize environmentally preferable cleaning products and practices per Sarasota County procurement Code, Ordinance No. 2003-084, Section 2-230 Environmentally Preferred procurement (EPP) in public areas. Private areas will fall under special Health Department cleaning standards.
- Facility occupants would need training and written instruction on systems operations.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Sarasota County, Mark D. Smith, Project Manager, Capital Management Services, 1001 Sarasota Center Blvd., Sarasota, FL 34240, Phone: 941.861.2295, [masmith@scgov.net](mailto:masmith@scgov.net)

**Completion Date:** 2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jason Toole, P.E., LEED AP, Yvonne Paguada, P.E., Julio Paguada, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Brian Cassidy, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore

## **Lowe's Companies Continuing Contract**

CPH has been providing design and construction services to Lowe's Companies since 2005. Projects have included site design, intersection improvements, roadway, utility design, parks, and trails. The team has provided services that include engineering, landscape architecture, planning, traffic engineering, surveying, environmental science, and construction administration. All projects include new or expanded commercial sites.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Lowe's Companies, Michael Reynolds, Phone: 336.658.2182

**Completion Date:** *Ongoing*

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore

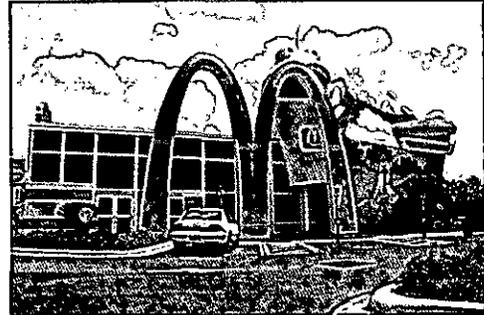


## McDonalds Continuing Contract

CPH has been working with McDonald's for 15+ years. Through this time, CPH has provided civil, landscape, irrigation, surveying, architectural, and construction administration services on a continuing basis for various new, re-builds, re-models, and re-image restaurant projects.

Working with the local region, CPH is involved in every aspect of the McDonald's process from working with the real estate group early in site selection, through final walk-thru and store openings. Throughout the process CPH has worked on:

- Conceptual plans
- Feasibility Studies
- Surveying Services
- Planning
- Re-zoning
- Land Use Changes
- Various Public Meeting Formats
- Landscape Architecture
- Civil Design
- Architectural Design
- Permitting
- Construction Administration



CPH has been heavily involved with McDonald's Corporate Office in the implementation of new corporate programs including:

- Drive-thru Optimization
- Re-Image Program
- 2006 and 2007 Building Implementation
- ADA/AADAG Compliance and McDonald's Requirements
- High-Impact Re-image
- Brand Identity Integrity

CBI – Combined Beverage Initiative

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** McDonald's USA LLC, Ramon Santos, Phone: 850.487.4322

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jason Toole, P.E., LEED AP, Yvonne Paguada, P.E., Julio Paguada, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Brian Cassidy, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## SunTrust Continuing Contract

CPH has been working with SunTrust for 5+ years. CPH has completed approximately 50 SunTrust's statewide in the last 5 years. Through this time, CPH has provided civil, landscape, irrigation, surveying, traffic/transportation, and construction administration services on a continuing basis for various new and re-model bank projects. Working with the local region, CPH is involved in every aspect of SunTrust's process from working with the real estate group early in site selection, through final walk-thru and store openings. Throughout the process CPH has worked on:

- Conceptual plans
- Feasibility Studies
- Surveying Services
- Planning
- Re-zoning
- Land Use Changes
- Various Public Meeting Formats
- Landscape Architecture
- Civil Design
- Transportation/Traffic Services
- Permitting
- Construction Administration

Along with working with the local regions, CPH has attended training with SunTrust and their architects. Finally, CPH has been heavily involved with SunTrust in the implementation of new corporate programs including Drive-thru Signage and New Prototype Program.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** SunTrust, Bruce Rogers, 407-237-4430

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jason Toole, P.E., LEED AP, Yvonne Paguada, P.E., Julio Paguada, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Brian Cassidy, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



# Lake County School Board Projects Continuing Contract

## Carver Middle School- Lake County School Board

CPH was contracted to assist Harvard Jolly Clees Toppe Architects and the Lake County School Board in coordinating a multi-phased design and construction schedule that would ultimately result in a complete campus replacement. The original Carver campus was established in the 1950's. The infrastructure was evaluated and deemed under capacity for the future growth of the City of Leesburg and Lake County School District service area.

The new campus consists of a combination of single and two-story buildings that not only increase the capacity of the school but are equipped with state of the art technology that made it Lake County's "Technology Smart Model" for their district. Along with the six (6) new buildings and supporting infrastructure, the campus was designed with all new athletic facilities, stormwater collection and treatment system, potable water distribution system, sanitary sewer collection system, and dedicated fire protection system. Due to the complexity of the construction for this project and the number of city, county and government agencies that were involved in permitting the project, we had to work very closely with the Architect and School Board representatives to ensure that the design, permitting, and phasing of this project were treated with the same level of importance as the final product would be. As part of the phasing, the school was kept in operation during the entire construction of the improvements.



## Highlands Grove Elementary (J)

The scope for this project includes design, permitting and construction administration for a new school in the City of Lakeland. The design also includes a road widening plan for a County road, which included turn lanes and roadside drainage. The school site is on approximately 23.7 acres. The design for the school included a stormwater collection system and retention pond, water distribution system, sanitary sewer collection system and lift station design.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Lake County School Board, Gary Parker, 518 W. Alfred Street, Tavares, Florida 32778, 352-343-1600

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## **Volusia County School Board Projects Continuing Contract**

### **Seabreeze High School**

Seabreeze High School is an old High School with a rich heritage, nestled in a neighborhood straddling Ormond Beach and Daytona Beach. Working with an architect we investigated and evaluated the conditions of the existing School facilities and prepared a report with recommendations for alternate development scenarios to maximize the facilities within the confines of the current site. The final plan selected resulted in a need to demolish 3 buildings, design 6 new buildings, remodel 4 buildings and preserve 4 buildings and all underground utilities. The new campus layout required design of new driveways and parking areas as well as storm water ponds to satisfy Water Management District and County / City storm water requirements. With sensitivity to the residents, many of whom attended there, we worked closely with School District Officials and the architect to prepare a plan to phase the improvements while allowing classes to continue during construction. In this case the design, phasing, permitting and construction administration of the facilities was as important as the final product.

### **New Smyrna Beach High School – Replacement**

This new school site is located along 10<sup>th</sup> Street in the City of New Smyrna Beach. The site is a multi-parcel property incorporated into one. The existing site conditions presented a challenge to develop the property. Stormwater and drainage was a major concern because of the high ground water table and the restrictive outfall available to the project. Wetlands were also spread throughout the site. An innovative stormwater system was design to artificially lower the water table and create more storage within a smaller area. We coordinated with the client's Environmentalist to protect the onsite wetlands and create a habitat for relocated endangered species. Coordination with the County was necessary to make sure the County's proposed 10<sup>th</sup> Street road widening project was consistent with the school layout.



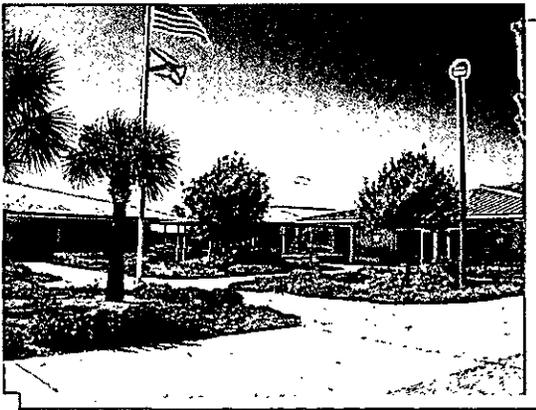
### **Osteen Elementary – Replacement**

The Osteen Elementary School Replacement project involves design and construction administration of a new elementary campus to replace the old campus. The new campus is located within a portion of the existing playfield and an adjacent 12-acre parcel the School Board purchased for the school replacement. The design required that the existing campus was to remain operational while the new campus was being constructed. Existing topography range is from elevation 31.0 - 41.0, sloping from the NE to the SW. Grading along the existing campus was carefully

designed to intercept any runoff that may flow to the existing buildings. Phasing the construction was planned so that the transfer of utility service from the current to the new campus will be as seamless as possible. After the students are transferred to the new campus, the old campus will be demolished and a playfield will be installed in its place.

## South Daytona Elementary School

The scope of services provided for this specific project starts with an overall analysis of existing site conditions, which includes traffic, water, sanitary sewer, drainage/stormwater and grading. Several site visits were conducted to observe and field identify current as well as potential site problems. Available site specific and general information (record drawing, survey, FEMA flood maps, SCS soils maps, etc.) were referenced and collaborated with the data from field observations. Interviews with school custodians and maintenance staff were performed to gather first hand information on the type, degree, and attention each individual concerns require. A meeting with the Water Management District and the City were made to discuss the current conditions and proposed remedial work. A report was prepared for the client, which contain findings and conclusions based on the data gathered and offers recommendations to remediate the site problems identified. The next stage in our scope is to work with the Architect to design a site plan that implements the findings and recommendations contained in the project evaluation report. Preparation of construction plans and specifications, permitting and limited construction administration follows to complete our scope of services.



## Spirit Elementary (“W”)

This new school site is located in the Sterling Park Subdivision in Deltona and borders an old neighborhood. The site outfalls to Lake Sterling and Lake Baton, both of which have experienced recent flooding. For that reason, storm water design and permitting considerations required that we oversize the onsite storm water retention basins to avoid impacting down stream residences. We designed and permitted an offsite storm sewer to Lake Baton as part of the improvements. Access to the site was designed within an access easement as an extension of Meadow Lark Blvd.

The access way was designed and permitted to City standards so that when platting this section is complete, this driveway will be dedicated as a City road. Offsite Water and sewer improvements were necessary as well. Water service to the site was provided through a utility easement extending to Saxon Boulevard, approximately 1000 feet west of the site. A lift station was designed to serve the school and a new proposed shopping center west of the site. An offsite force main was designed through the utility easement to Saxon Boulevard and northwest along Saxon to connect to a Florida Water Services force main.

**Firm’s Responsibility:** Site design and engineering services

**Project Owner:** Volusia County School Board, Jack G. Dunlop - Director / Building Official

**Completion Date:** Ongoing

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall “Randy” L. Roberts, PSM, Amy E. Daly, Aaron Moore



## **Volusia Emergency Operations Center (EOC)**

CPH was recently awarded the Volusia County EOC contract as a subconsultant to Schenkel Shultz Architecture. CPH will provide professional engineering and environmental services for the design of a new consolidated dispatch/emergency operations center in Daytona Beach, approximately 45,000 square feet. The building will have an emergency operations command center, dispatch call center, debriefing room, cafeteria, male and female sleeping quarters, classrooms, media room, offices and related support functions. CPH will also be providing associated survey and landscape design support.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Volusia County, FL, Mr. Bill Apgar, Phone: (386) 943-7027 Ext: 3287

**Completion Date:** Under Design

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore

## **City Hall Expansion & Fire Station Site Planning Study**

CPH provides on-call services to the City of Lake Mary as needs arise on the site planning and civil engineering. CPH was recently authorized by the City of Lake Mary to conduct site planning and location studies for the City Hall Expansion and Fire Station. The study highlighted opportunities and constraints analysis resulting in the design alternatives that include architectural concepts, open space, parking layouts, and preservation of existing tree canopy. Key aspect of the design study entailed placement of the Fire Station within the City Hall Complex and its relationship with the Downtown's recently adopted Development Plan.

**Client Contact:** City of Lake Mary, 100 North Country Club Road, Lake Mary, Florida 32795, John Litton, City Manager, Phone: 407.324.3054

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Lake Mary, Mr. John Litton, Phone: (407) 585-1419

**Completion Date:** 2003

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM





## Clermont City Hall

The new Clermont City Hall Complex was constructed on a 2.14-Acre parcel in the middle of the historical downtown area of Clermont. Due to the limited area available for the proposed development, a 0.44-Acre parcel was purchased for additional off-site parking and half of the stormwater retention basin. Existing ground conditions (good draining soils and deep water table level) allowed the use of an underground retention basin beneath the main parking lot. This innovative design enabled the City to gain more use of the otherwise limited area for development.

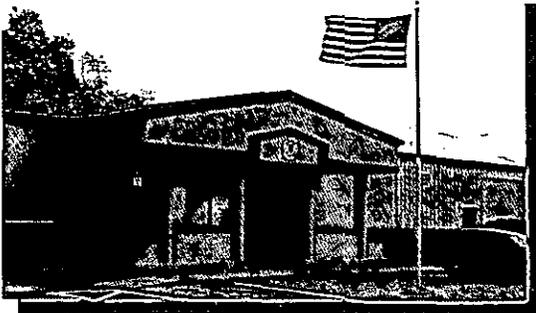
The cost of the underground system was offset by the cost of the expensive real state the City did not have to purchase. Grading the site was a challenge because of the 22-foot grade difference from one corner of the site to the other. Except for areas where drastic grade difference was encountered, the use of modular block retaining wall system was kept to a minimum. The site development cost for this project is \$356,000.00. The project consisted of a 3-story building with a total of 32,000 sq. ft.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Clermont, Tamara Richardson, P.O. Box 120219, Clermont, FL 34712, Phone: 352.394.4083

**Completion Date:** 2004

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## DeLand New Public Works Complex

The project included 12,800 sq. ft. of general building structure that will be a pre-engineered single story metal building. CPH provided architectural and engineering services for this Design/Build project.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of DeLand, Kieth Riger, P.E., 120 S. Florida Ave., DeLand, FL 32720, Phone: 386.740.5813

**Completion Date:** 2008

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Thomas J. Galloway, PSM, Amy E. Daly, Aaron Moore



## DeLand City Hall Complex

The new DeLand City Hall Complex was constructed on a 6.7-Acre parcel within a City Block of the historical downtown area of Clermont. Due to the cities desire to consolidate the new City Hall with the new Police Station and the City's Main Fire Station, adjoining parcels within the City Block were purchased. The City had to relocate the local American Legion to accommodate their needs. The existing site drained to an onsite depression that is used for all the city facilities within the city block.

Existing ground conditions (good draining soils and deep water table level) allowed the use of an underground retention basin beneath the main parking lot as an extra stormwater runoff reducer. This innovative design enabled the City to gain more use of the otherwise limited area for development. Access and building location were limited due to a Florida Department of Transportation stormsewer system consisting of a 60" pipe running directly thorough the site. The site development cost for this project is \$356,000. The project consisted of a 3-story building with a total of 47,000 sq. ft and a memorial plaza.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of DeLand, Keith D. Riger, P.E. Phone: (386) 626-7197

**Completion Date:** In Progress

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore

## Palm Coast City Hall

CPH is the Civil Subcontractor to C.T. Hsu, the architectural firm selected by the City of Palm Coast for design of a new 40,000 SF, 2-story City Hall. CPH will provide civil, environmental, landscape architecture, and survey services for the project. The site of the new building is located at the Town Center at Palm Coast, currently under development. The project site is approximately 15.6 acres which includes a 4.7 acre lake/drainage easement and a city park, Central Park. The site design will incorporate a pedestrian/public connection to the existing park layout as well as providing exterior public space features. The site will also provide driveways, parking, as well as situating the building for potential future expansion/addition(s).

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Palm Coast, Carl L. Cote, R.A., Phone: 386-986-3748

**Completion Date:** In Progress

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Wade P. Olszewski, P.E., Brian Cassidy, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## **Civic Center Improvements**

*Project Description:* CPH was retained by Manatee County for site planning, engineering, survey, permitting, landscape design, irrigation design, and bidding/construction administration services for construction of the improvements associated with the Manatee County Civic Center. The project includes the complete overhaul of all landscaping areas surrounding the Civic Center, as well as the hardscape design of an outdoor seating and classroom area. CPH will also be providing the design and permitting of a number of Low Impact Design (LID) elements throughout the site, to include rainwater cisterns to be used for irrigation, rainwater gardens, and bio-retention swales. The design of the landscape focused on Florida Friendly design principles, and a new efficient irrigation system was provided. New pedestrian scale lighting was provided, along with numerous upgrades to the site stormwater management system.

*Engineering:* Work included investigation of site constraints, modeling of project's stormwater systems, development of Low Impact Design (LID) elements including rainwater collection cisterns, stormwater engineering, and site improvements.

*Permitting Services:* CPH is responsible for completing applications and obtaining site plan approval from the City of Bradenton, SWFWMD, and the Florida Department of Environmental Protection.

*Construction Administration:* CPH was retained by the County to perform inspection services, shop drawing review, post design services, attendance at progress meetings, as-built drawings, clearance letter, certification of completion of construction, substantial completion and final inspections, review of change orders, and negotiation assistance for changes in the work.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Manatee County, Mr. Tom Yarger, Division Manager, Property Management Department, 1112 Manatee Ave., Suite 803, Bradenton, FL 34205, Phone: (941) 749-3003, [Tomyarger@mymanatee.org](mailto:Tomyarger@mymanatee.org)

**Completion Date:** November 2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM, Amy E. Daly, Aaron Moore



## TK Booking Center

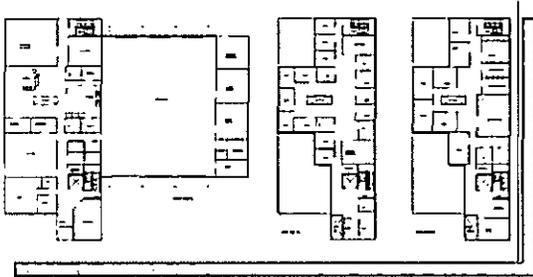
The Miami-Dade Corrections and Rehabilitations Department requested that CPH perform a design study for them to create a centralized booking area in their existing Turner Guilford Knight Correctional Center. In order to establish a centralized booking area, separate entrances for law enforcement officers (LEOs) and inmates had to be created. CPH provided a conceptual plan that converted an existing covered parking garage into a secured bus drop-off area for the inmates. CPH was also able to create a concept plan for a Sally Port and secured parking area for the LEOs. Both required new entrances to be installed on existing walls. Since completing the design study, the County decided to select CPH to prepare construction plans for the project as well. CPH has been contracted to provide civil, architectural, and surveying services.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** Alice K. Arguelles, Phone: 786.263.6406

**Completion Date:** In Progress

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Brian Cassidy, P.E., Randall "Randy" L. Roberts, PSM



## Winter Springs Firestation Master Plan

CPH prepared a conceptual plan for a new three story fire station facility of approximately 17,000 sq. ft. The first floor consisted of a three truck apparatus bay; work out room, framing area and a day room facility for a fulltime staff. The second floor provided dormitory space for 15 private bunk areas. Administration office areas occupied the third floor area.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Winter Springs, Mr. Kipton Lockcuff, P.E., 1126 East S.R. 434, Winter Springs, FL 32708, Phone: 407.327.5989

**Completion Date:** 2008

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Ben C. Buencamino, Allen C. Lane, P.E.





## Westside Community and Recreation Center

CPH expanded an existing 7,900 sq. ft. structure with the addition of a 10,400 sq. ft. gymnasium, game room addition and storage mezzanine. The scope included the remodeling of the existing gym into a multipurpose room, work out area and conference room.

Both the men's and the women's restrooms were upgraded for handicapped accessibility and the existing kitchen was completely gutted and redesigned. There is a welcoming new reception area, refurbished staff offices, computer room and locker room with a playful color scheme. The space is currently used by The Boys and Girl Club of America for afterschool and summer programs and can be rented out for revenue for City of Sanford.

CPH worked closely with both the City of Sanford and the builder to keep the project on schedule and address any design concerns and request for information during construction. Initial site visits were made to observe and document existing conditions that were not clearly documented in the 1968 as-built drawings. Working with Higgenbotham Engineering, it was determined that roof members on the existing building needed to be structurally reinforced for the new air conditioning equipment. CPH's architects and civil engineers also worked closely to address questions of storm water removal with underground drains and a large retention area.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Sanford, Mr. Paul Moore, Phone: 407.330.5600

**Completion Date:** 2010

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Jeremiah D. Owens, P.E., Ben C. Buencamino, Allen C. Lane, P.E., Thomas J. Galloway, PSM, Randall "Randy" L. Roberts, PSM





## **Deltona Fire Station # 61 – Renovations For Communications Room**

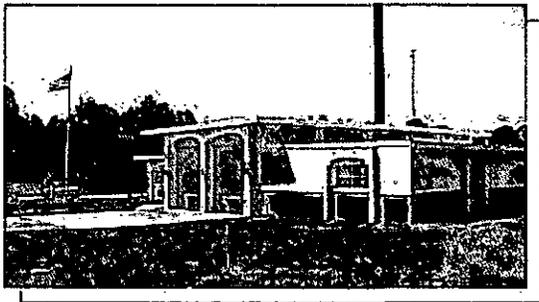
Services performed were for the creation of a New Communications Center on the Ground Floor in the Existing Fire Station #61. The Renovation included the installation of a New One (1) Fire Separation of the Communications Center from the rest of the Existing Building. The Creation of the Communications Center also included a new HVAC/ Electrical System that complies with current Building Codes.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Deltona, Fire Chief Robert Rogers, EFO, 2345 Providence Blvd, Deltona , Fl 32725, Phone: 386.860.7177

**Completion Date:** 2008

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Victor Tan, AIA, NCARB



## **Deltona Fire Station # 63-Addition**

The team was retained by The City of Deltona to provide Architectural and Engineering Services for the design of new Dormitories adjacent to the Existing Apparatus Bays. The Addition included Dormitories for (7) firemen, Lockers and Handicap Accessible Restrooms and Showers for Men and Women. The facility also includes an additional Storage Room.

**Firm's Responsibility:** Site design and engineering services

**Project Owner:** City of Deltona, Fire Chief Robert Rogers, EFO, 2345 Providence Blvd, Deltona , Fl 32725, Phone: 386.860.7177

**Completion Date:** 2007

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, Victor Tan, AIA, NCARB



## C. Willingness to Meet Schedule and Budget Requirements

CPH has ample staff available to perform projects on time and within budget for Leon County. The team has extensive in-house capabilities to take on multiple projects and provide a variety of services concurrently to ensure quality and on-time projects.

### **Methods and Controls to be Utilized to Balance and Maintain Quality, Schedule and Budget**

CPH is uniquely qualified to provide Subdivision and Site Development Engineering Services for projects assigned by Leon County. The team will be led by Jason Toole, P.E. He will serve as the County's immediate contact(s) and will coordinate all projects and activities as the primary liaisons for Leon County and CPH.

The team, located at our Panama office, includes engineers, designers, surveyors, environmental scientists and administrative personnel. CPH is currently finishing engineering services for other clients, but is actively seeking work for Panama staff. As a result, our staff is available and has the capacity to perform projects as they are assigned, and CPH is committed to meeting budget and schedule requirements. Keys to the success of projects include:

- Open lines of Communication
- Knowledgeable Team Members
- Local and Available Staff
- Monthly Project Meetings
- Weekly Internal Meetings with Project Manager and Design Teams.
- Technical Review Committee that will assist in quality assurance and control





Authority for a particular project is delegated to the Project Manager for execution of the project work. A project team having previous experience on similar projects is assembled with leadership from the Project Manager. The Project Manager is the coordinator and point of contact person for the project, and is involved in the design of the project with the Project Engineer. Normally one Project Engineer is assigned specifically to the project with assistance provided by other engineers in other areas of specific expertise. The Project Engineer provides and coordinates the design with technicians and drafting personnel and other consultants.

Initially, the members of the team are assembled and briefed on the scope of the project, the budget and possible constraints. This initial meeting is used to establish the basic project approach, to establish the direction of the work, and to give all members of the team an opportunity to visualize the whole project. Once the objective is established, the tasks are assigned to each team member and input from the team is solicited. Project approach is discussed and the format for production is determined (i.e., AutoCAD, coordination with subconsultants, etc.). CPH typically works with Microsoft Office and the latest version of AutoCAD, but also routinely works within ArcGIS and can produce documents in Adobe.pdf format.

All projects are reviewed throughout the design phase. After the design team is assembled and the initial design team meeting is held, an internal review meeting is held with at least one of the firm Principals and one or more Project Managers. These individuals are not personally involved with the project, but are utilized to provide a fresh, outside view to the project approach. The project team



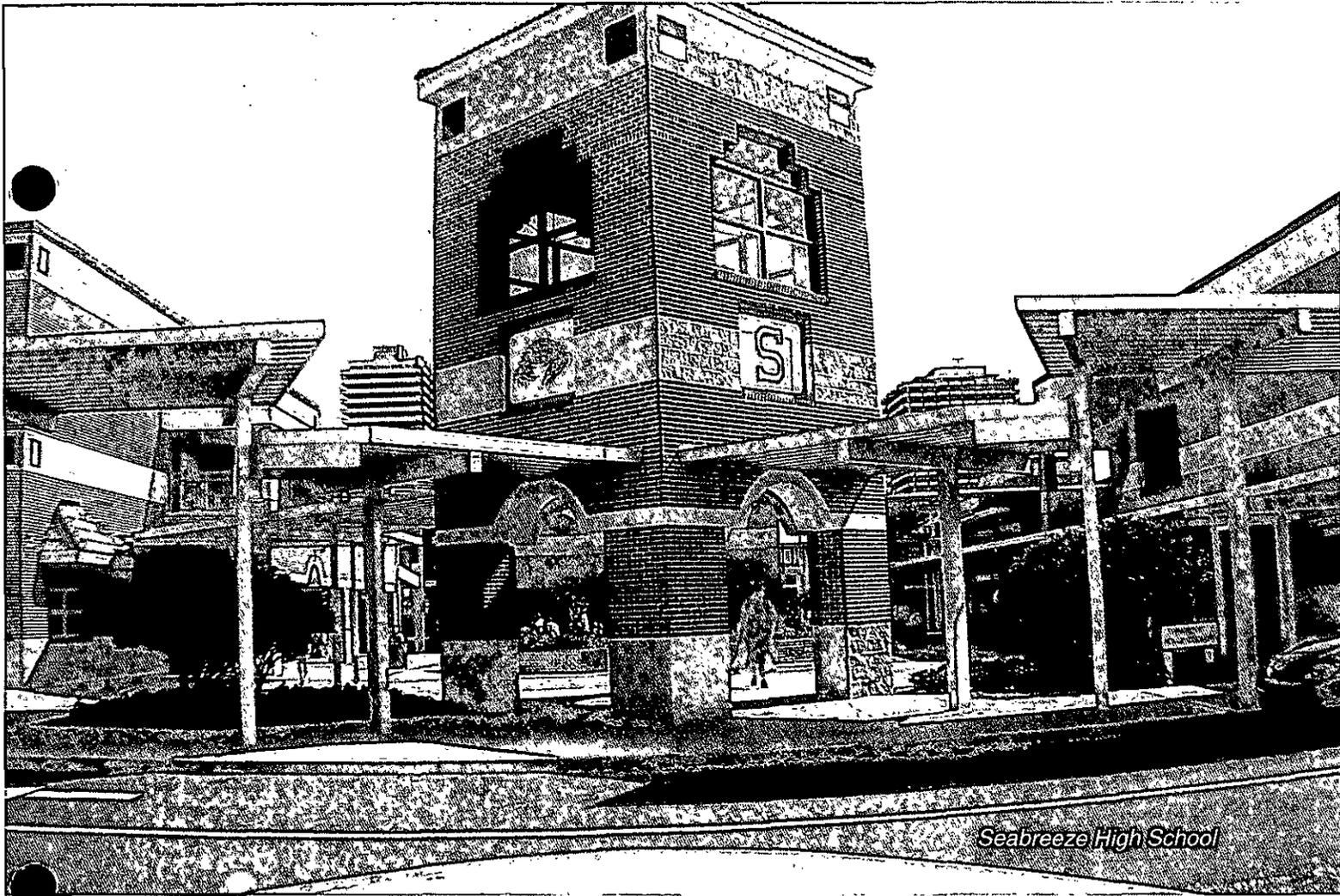
presents the project to review team members for their evaluation. Follow-up meetings are held at the 30%, 60%, and 90% completion points to help assure that the project is proceeding correctly. On a more complex project, the follow-up meetings consist of an actual review of the plans and specifications. These meetings also serve as Value Engineering meetings. With regard to coordination methods, we have an excellent record with our clients. Project quality is of utmost importance to us and is not sacrificed due to time constraints or workload.

CPH's design services are carefully budgeted at the beginning of the project. We attempt to divide the job into its various tasks and estimate amounts of labor and expenses needed for each. We have an in-house computerized cost control system capable of providing the Project Manager with current job costs, as obtained through entry of weekly time sheets. The original budget is used as a guide to determine progress and efficiency by checking hours expended versus hours budgeted. The budget is also used to plan the needed level of manpower to complete the job on time.

In addition to engineers and construction personnel, the team has the added value of having on-staff licensed general and utility contractors that can review projects from various perspectives. With experienced personnel that have provided construction services for over 30 years, this enables us to review the project from a constructability and/or mean and methods view point. In addition, the licensed on staff contractors review projects and provide "real-time" cost estimates throughout the duration of the project. This construction experience allows the team to view these projects through the eyes of a contractor with the ability to identify intangible cost factors/elements such as restricted site conditions, specialized equipment requirements, excessive material and labor costs, impacts on schedules, etc. that may not be apparent to the design engineer.

Our Independent Quality Assurance Program will be led by Mr. David Gierach, P.E., CGC. Mr. Gierach has over thirty (30) years of design and construction experience and has an excellent working knowledge of various technologies and construction techniques. Additionally, He is a licensed general contractors, which will assist the team in evaluating "real-time" construction reviews of the design throughout the duration of the project. This QC management staff will monitor the program for quality assurance in accordance with the contract.

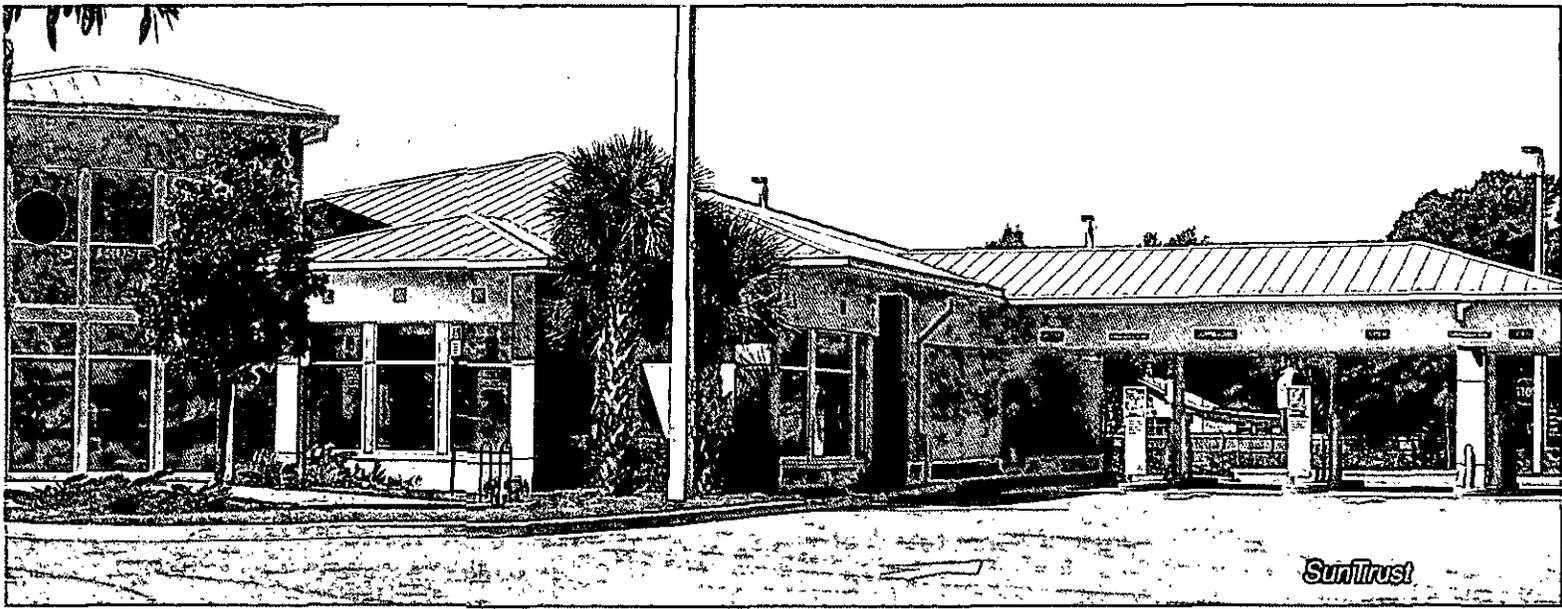




## D. Effect of Firm's Recent, Current and Projected Workload

### 1. Current Contracts

Name of Project	Description	Anticipated Completion Date
Panama City Sam's Club	Sam's Club Expansion	9-19-2011
Destin Wal-Mart	New Wal-Mart Supercenter	5-9-2011
Gulf Breeze Neighborhood Market	Takeover of Existing Bruno's Grocery	3/1/2012
Panama City Expansion	Wal-Mart supercenter Expansion	3/1/2012
Southwood McDonald's	New McDonald's Restaurant	5/15/2011



## **2. Firm's Ability to Absorb Any Project**

### **Methods and Controls to be Utilized to Balance and Maintain Quality, Schedule, and Budget**

CPH is uniquely qualified to provide Subdivision and Site Development Engineering Services for Leon County. The team located in our Panama office includes engineers, designers, surveyors, environmental scientists and administrative personnel. CPH is currently finishing engineering services for other clients, but is actively seeking work for our Panama staff. As a result, our staff is available and has the capacity to perform projects as they are assigned. CPH is committed to meeting budget and schedule requirements. CPH has developed a reputation for cost effective, quality-engineering services through a philosophy of strong project management. Operating under aggressive deadlines and close coordination with County Staff, we commit to manage each work assignment under this contract based upon the following philosophies:

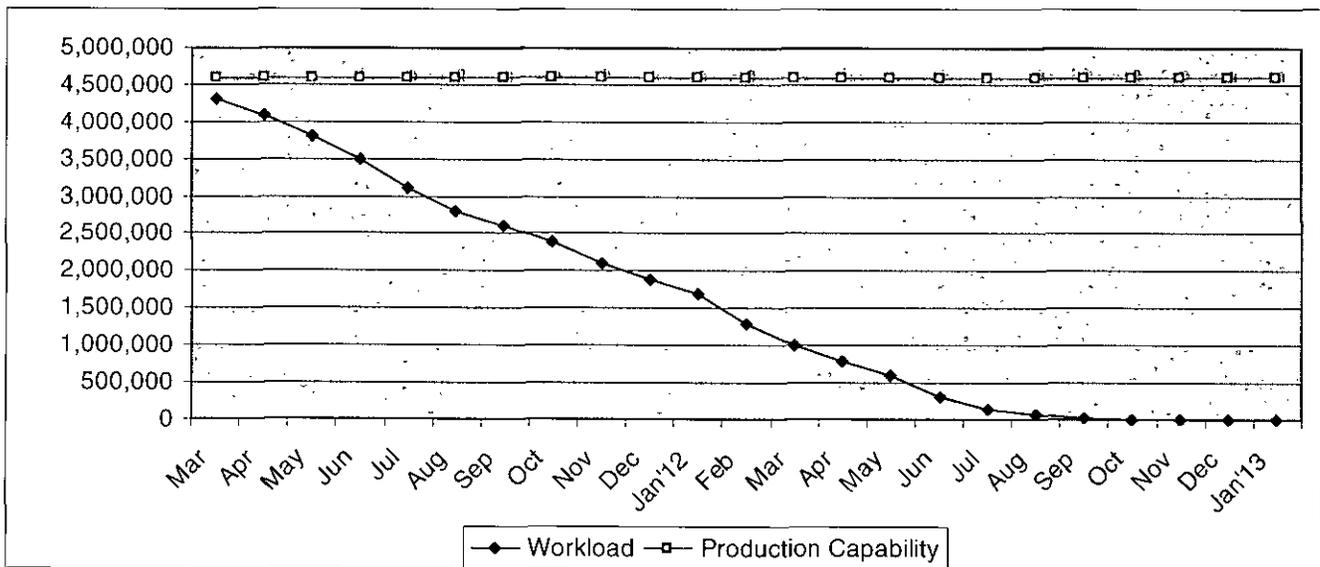
- By proposing a project manager with experience working in Leon County
- Frequently involve County staff in meetings to expedite decision-making.
- Utilize e-mail and short memoranda to document progress of construction. Report status of the budget on a monthly basis in report form to County Staff.
- Prepare and distribute a Project Specific Workplan which details the following:
  - What is to be done – Define a scope of services by bringing in the stakeholders up front to discuss the project goals and objectives.
  - Who is going to do it – Monitor staffing usage, needs and expenditures bi-weekly through our accounting software.
  - When will it be done – Maintain the Project Schedule using Microsoft Project software for scheduling and tracking.
  - How much will it cost – Monitor the estimated construction cost using trend reports prepared monthly and based on the most up-to-date data available from published prices and any known quantity revisions for the past month.
  - How it will be controlled – CPH will strive to provide quality service within the project schedule and require Quality Assurance/Quality Control (QA/QC) procedures to be identified in the initial internal project kick-off meeting. Time for QA/QC is incorporated into the project schedule, therefore, will not delay project milestones. CPH has developed an extensive QA/QC procedure and incorporates it into each of its projects to ensure client satisfaction.





**Corporate Workload/Availability**

The current and projected workload of our team is such that we can provide responsive service to Leon County. We are well-staffed, equipped with our nearby location, and believe that we and our team members can provide a high quality, professional service to the County that is completely responsive and cost effective. The graph below depicts our current contracted backlog with no consideration for any additional work. The current workload will spread over 18 months. Our current production capability is \$4,600,000 per month. With that capacity, there are more than adequate personnel hours to cover the workload.



## E. Effect of Project Team Location



Office Location	Approximate Distance From Leon County Offices
CPH Panama	96 Miles

CPH has eleven (11) offices in the State of Florida with support of approximately 240 personnel throughout the company to assist in the projects for Leon County. **The County will have the direct commitment of the CPH located at 1031-C W 23<sup>rd</sup> Street, Panama City, FL, 32405.** The Panama office is staffed with employees that include registered personnel, administrative staff, and owners of the firm to accomplish the projects on time and within budget.





## F. Approach to the Project

CPH has performed numerous site design projects in the area, and will bring the same level of expertise to the County for assistance in review of projects within the County limits. The following process will be refined to meet the County's needs and allow for coordination of successful projects.

### Phase I – Initiation of Team

- ✓ The team will meet with the County to interview staff to identify the County's needs and expectations
- ✓ During this phase, the team will meet with the County and staff to get a complete list of projects that are currently being performed for the County by consultants
- ✓ The team will hold meetings to introduce itself to other consultants and identify areas where the CPH team can assist in reviewing current designs and future projects
- ✓ At this point, the team will identify various other agencies and committees that the team can coordinate with for project success

## **Phase II – Agency Coordination**

- ✓ The CPH team will work with the County to organize meetings with regulatory agencies and permitting.
- ✓ The team will gather a list of various agency projects and schedules of current and future phasing of projects
- ✓ The CPH team will generate a matrix schedule of projects being performed within the County limits, that will identify the project name, project manager, schedule, funding sources, phasing, etc

## **Phase III – Data Collection/Analysis**

The CPH team will work to provide the County with review and alternatives with projects by following these steps:

- ✓ Collected Data - review and study the collected drawings and documents supplied by the County and others for incorporation into the design process.
- ✓ Codes and Standards - Review and study related jurisdictional codes and standards as they pertain to the project classification.
- ✓ Space/Needs Analysis – Meet with County staff to determine space/needs requirements for building improvements and prepare a written report for review and comment.
- ✓ Program Development – Meet with County staff and other interested parties such as athletic associations or leagues, user groups, seniors, etc. to gather and prioritize project program elements.
- ✓ Site Analysis Documents – Prepare drawings and/or reports summarizing the investigative findings.

## **Phase IV – Evaluation and Review (Roadways/Transportation)**

- ✓ The CPH team of traffic engineers and planners will review projects for traffic impacts, development impacts, and impacts to other regional and local roadways
- ✓ The traffic/transportation personnel will provide the County with a report that will summarize potential conflicts with roadways and traffic projects, and will offer alternatives to design or realignments
- ✓ The team will work to provide the County with capacity reports for areas that are effected, and will at this point work with the agencies to identify possible solutions
- ✓ The team, at this time, will assist the County with impact studies of local businesses and residential communities

## **Phase IV – Evaluation and Review (Stormwater)**

The team has qualified on-staff engineers that will work to provide an engineering review of the stormwater facilities. We can take the conceptual ideas concerning the “beautification” of the stormwater facilities and determine that they meet the permitting requirements and the aesthetic requirements. The team will provide these services with a talent pool of capable individuals in a timely and cost effective manner because:

- ✓ The team members are routinely involved with stormwater projects for our existing client base.
- ✓ We perform reviews for the local communities on an as needed basis.



- ✓ We are in constant contact with the review agencies and are fully aware of the requirements and regulations related to stormwater activities.

#### **Phase V – Value Engineering**

The team has qualified on-staff design and construction personnel that will work to review project for alternative design concepts that may allow for projects to include amenities and concepts that may not have been incorporated into the original design. The team will:

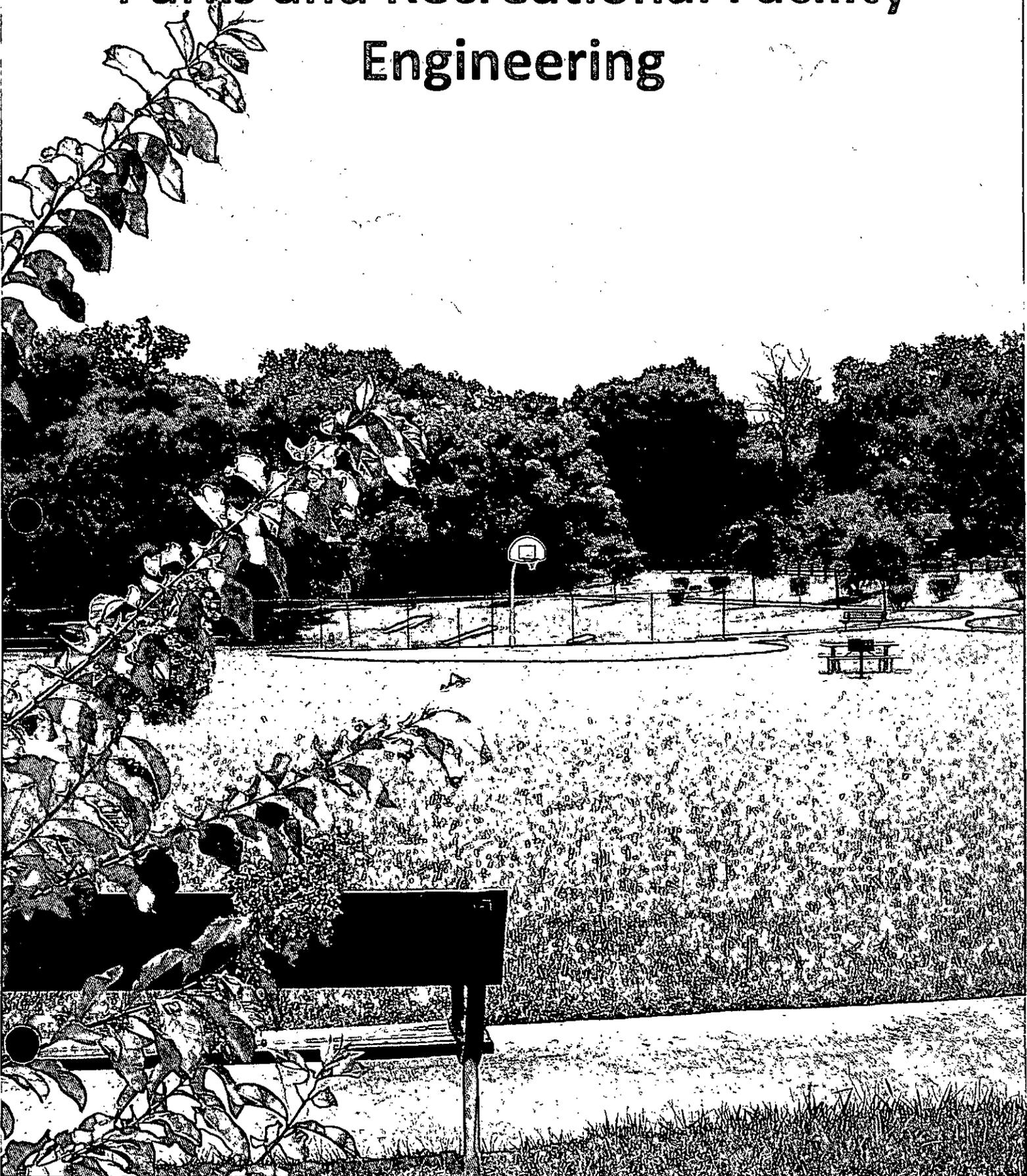
- ✓ Review plans and concepts for cost savings through alternative design and alternative construction concepts
- ✓ Review projects for alternative/additional funding that will allow for extra project amenities

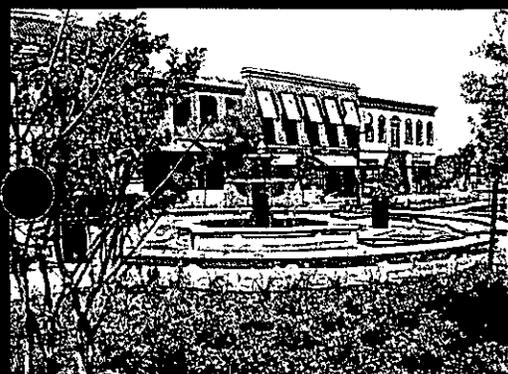
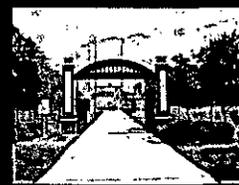
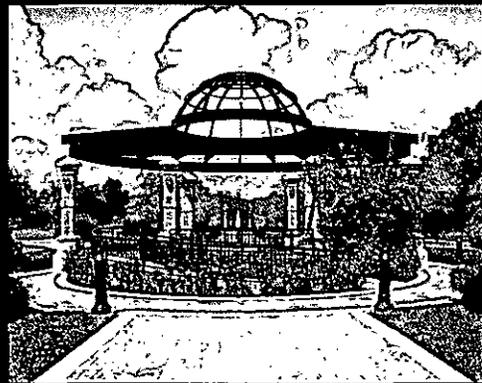
#### **Phase VI – Monthly Meetings with the County**

- ✓ The CPH team will work to prepare monthly progress/status meetings to be held with the County to review projects and design concepts
- ✓ The meeting minutes and concept choices will be documented and provided to the County via hard-copy
- ✓ The progress meetings will allow the CPH team to give concepts and ideas to the County to review and discuss



# ● Parks and Recreational Facility Engineering







# A. Ability of Professional Personnel

## 1. Number of Professional

CPH has reviewed the scope of services and has developed ideas for staffing the projects. Based on our recent experience, and our project manager's experience, we feel comfortable in meeting the scope requirements. The Panama staff is available to complete the Continuing Engineering Contract for Parks and Recreation Services as outlined in the scope of work.

CPH has the personnel and resources immediately available to carry the Continuing Contract for Engineering Services for Parks and Recreation Services to successful completion. In addition to our 240 staff members, our available personnel equals approximately 70 (including engineers, environmental scientists, and survey personnel). The firm's Panama office can provide approximately 960 manhours per month and CPH's corporate monthly availability is approximately 56,000 manhours a month. The CPH Panama office has more than adequate personnel and availability to provide the services to Leon County.

The team proposed to provide services to Leon County has adequate time available to dedicate to the successful completion of the Continuing Contract for Engineering Services for Parks and Recreation Services.

Key Personnel	Current Availability	Availability in 6 Months	Availability in 12 months
David A. Gierach, P.E., CGC	50%	65%	75%
Jason Toole, P.E., LEED AP	65%	75%	85%
Yvonne Paguada, P.E.	60%	75%	80%
Julio Paguada	70%	75%	85%
James K. Winter, RLA, CLARB	75%	70%	80%
Galen J. Pugh, RLA, AICP	60%	70%	80%
Gene Miller	50%	60%	72%
John A. Baer, AIA, NCARB, LEED AP	60%	70%	75%
Victor Tan, AIA, NCARB	65%	75%	80%
Gail Goretsky, Associate AIA, NCARB	60%	70%	85%
Javier Omana	55%	60%	75%
Michelle Tanner	75%	75%	80%
Thomas J. Galloway, PSM	70%	75%	80%
Randall L. Roberts, PSM	60%	70%	85%
Amy E. Daly	70%	75%	80%
Aaron Moore	65%	70%	75%



## 2. Brief Resumes

Name	Title	Years of Experience/ Years with CPH	Education/Licenses
David A. Gierach, P.E., CGC	Principal-in-Charge	Total 29 With CPH 19	B.S.- Environmental Engineering, University of Florida, Licensed Professional Engineer- Florida (No. 38642), General Contractor License (No. CGCO60789)
Jason Toole, P.E., LEED AP	Project Manager	Total 10 With CPH 6	B.S., University of Florida, Civil Engineering Honors, Licensed Professional Engineer- Florida (No. 66531), LEED Accredited Professional, FDEP Stormwater Management Inspector
Yvonne Paguada, P.E.	Project Engineer	Total 10 With CPH 4	B.S., University of Florida, Environmental Engineering, Licensed Professional Engineer- FL (No. 67437), FDEP Stormwater Management Inspector
Julio Paguada	Project Designer	Total 11 With CPH 6	Technical Degree in Architectural Engineering, West Side Technical, FDEP Stormwater Management Inspector
James K. Winter, RLA, CLARB	Landscape Architect	Total 29 With CPH 5	Bachelor of Landscape Architecture, Mississippi State University, Registered Landscape Architect- States of FL (No. LA0000911), AR, TN, TX, CT, GA, and Rhode Island, CLARB Certified (No. 5203)
Galen J. Pugh, RLA, AICP	Landscape Architect	Total 15 With CPH 6	Bachelor of Landscape Architecture, Louisiana State University, Registered Landscape Architect- State of Florida (No. LA 1522)
Gene Miller	Landscape Architect	Total 25 With CPH 3	Masters of Landscape Architecture, Mississippi State University, MBA – Florida Gulf Coast University, Fort Myers, Florida, B.S. – Fine Arts – Murray State University, Murray, Kentucky
John A. Baer, AIA, NCARB, LEED AP	Project Architect	Total 30 With CPH 4	B.S. Architectural Studies, University of Milwaukee, Associate Degree Civil Structural Technology, Approved Professional for LEED Certification, Registered Architect- Florida (No. AR93193), CT, MN, WI, MI, IL, IN, OH, IA, MD and PA)
Victor Tan, AIA, NCARB	Project Architect	Total 30 With CPH 5	M.S. Architecture, London University, B.S., Architectural Major, University of Singapore, Registered Architect in Florida, Multiple States in US and P.R.
Gail Goretsky, Associate AIA, NCARB	Project Architect	Total 14 With CPH 5	Bachelor's of Architecture, University of Miami, 1995, International Studies Program, Mackintosh School of Architecture, 1993-1994, Licensed Architect- Florida (No. AR95195)
Javier Omana	Sr. Planner	Total 27 With CPH 8	M.A., Urban and Regional Planning, University of Florida B.S., Business Administration, University of Florida
Michelle Tanner	Planner	Total 21 With CPH 8	Bachelor of Design, College of Architecture, University of Florida, 1985
Thomas J. Galloway, PSM	Project Surveyor	Total 17 With CPH 10	B.S. Surveying and Mapping, University of Florida, Professional Surveyor & Mapper LS 6549
Randall "Randy" L. Roberts, PSM	Project Surveyor	Total 36 With CPH 5	Honor Graduate of University of Florida Surveying Program, College of Engineering, Florida Professional Surveyor & Mapper #3144
Amy E. Daly	Environmental Scientist	Total 17 With CPH 6:5	B.S.- Biological Sciences, Florida State University, M.B.A.- FMU, Summa Cum Laude, U.S. Army Corps of Engineers Wetland Delineation Course, Florida Unified Mitigation Methodology Course, FDEP Certified Stormwater Inspector, Prescribed Burne
Aaron Moore	Environmental Scientist	Total 10 With CPH 5	B.S. Biology, 2001, UCF, Minor Studies, Chemistry, Authorized Gopher Tortoise Agent, (GTA -09-00125), Southwest Florida Water Management District, Soils Identification Course, Florida United Mitigation Assessment Methodology Course, ACOE Wetland Delineator

### 3. Experience of Individual

#### David A. Gierach, P.E., CGC

##### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Principal
  - **Cost:** \$2,395,585
- Spring Hill Park/Trail
  - **Role:** Principal
  - **Cost:** \$240,278.00
- Manasota Beach Park Restroom and Concession Stand
  - **Role:** Principal
  - **Cost:** \$1,500,000.00
- Alabama Avenue Greenway
  - **Role:** Principal
  - **Cost:** \$747,927
- Lake Monroe Trail
  - **Role:** Principal
  - **Cost:** \$1,003,795.00
- Sanford's 17-92 Beautification
  - **Role:** Principal
  - **Cost:** \$356,000
- Derbyshire Recreational Facility
  - **Role:** Project Manager
  - **Cost:** \$1.8 Million

#### Jason Toole, P.E., LEED AP

##### Projects:

- Southwood Lowe's (Project Died)
  - **Role:** Project Manager
  - **Cost:** \$6,683,700.00
- Southwood McDonald's
  - **Role:** Project Manager
  - **Cost:** Approximately \$1 Million
- Capital Circle McDonald's
  - **Role:** Project Manager
  - **Cost:** Approximately \$1 Million
- Governor's Square McDonald's
  - **Role:** Project Manager
  - **Cost:** Approximately \$1 Million



## Yvonne Paguada, P.E.

### Projects:

- Southwood Lowe's (Project Died)
  - **Role:** Project Engineer
  - **Cost:** \$6,683,700.00
- Southwood McDonald's
  - **Role:** Project Engineer
  - **Cost:** Approximately \$1 Million
- Capital Circle McDonald's
  - **Role:** Project Engineer
  - **Cost:** Approximately \$1 Million
- Governor's Square McDonald's
  - **Role:** Project Engineer
  - **Cost:** Approximately \$1 Million

## Julio Paguada

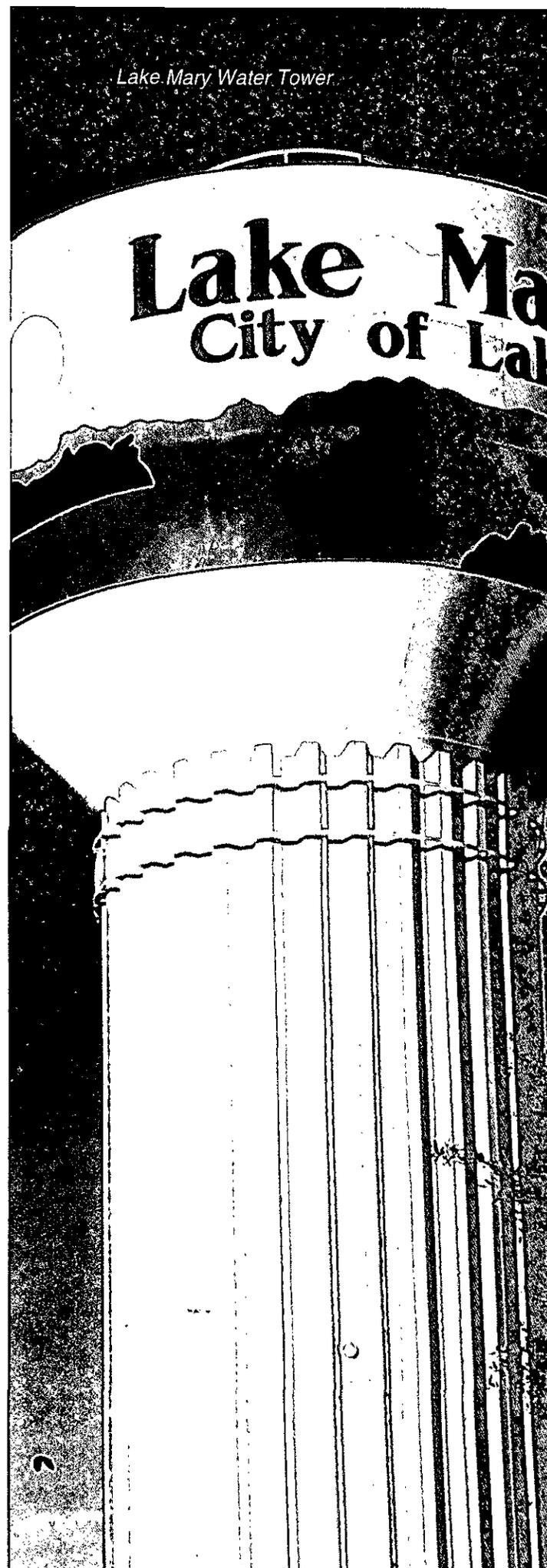
### Projects:

- Southwood Lowe's (Project Died)
  - **Role:** Project Designer
  - **Cost:** \$6,683,700.00
- Southwood McDonald's
  - **Role:** Project Designer
  - **Cost:** Approximately \$1 Million
- Capital Circle McDonald's
  - **Role:** Project Designer
  - **Cost:** Approximately \$1 Million
- Governor's Square McDonald's
  - **Role:** Project Designer
  - **Cost:** Approximately \$1 Million

## James K. Winter, RLA, CLARB

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Project Manager
  - **Cost:** \$2,395,585
- Winter Springs Town Center Trail
  - **Role:** Landscape Architect
  - **Cost:** \$1.5 Million
- Winter Springs- Magnolia Square
  - **Role:** Landscape Architect
  - **Cost:** \$208,700



## Galen J. Pugh, RLA, AICP

### Projects:

- North Jetty Park Improvements
  - **Role:** Landscape Architect
  - **Cost:** \$ 1.7 Million
- Alabama Avenue Greenway
  - **Role:** Landscape Architect
  - **Cost:** \$747,927
- Lake Monroe Trail
  - **Role:** Landscape Architect
  - **Cost:** \$1,003,795.00
- Sanford's 17-92 Beautification
  - **Role:** Landscape Architect
  - **Cost:** \$356,000

## Gene Miller

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Project Designer
  - **Cost:** \$2,395,585

## John A. Baer, AIA, NCARB, LEED AP

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Architect
  - **Cost:** \$2,395,585
- Blind Pass Park Improvements
  - **Role:** Architect
  - **Cost:** \$700,000
- Manasota Beach Park Restroom and Concession Stand
  - **Role:** Architect
  - **Cost:** \$1,500,000.00



Lake Mary Trail Head

## Victor Tan, AIA, NCARB

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Architect
  - **Cost:** \$2,395,585
- Spring Hill Park/Trail
  - **Role:**
  - **Cost:** \$240,278.00

## Gail Goretsky, Associate AIA, NCARB

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Designer
  - **Cost:** \$2,395,585
- Ponce Inlet Parks
  - **Role:** Designer
  - **Cost:** \$757,240.00

## Javier Omana

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** QA/QC
  - **Cost:** \$2,395,585
- Winter Springs- Blumberg Avenue/Trail
  - **Role:** QA/QC
  - **Cost:** \$1,434,444
- Spring Hill Park/Trail
  - **Role:** QA/QC and Planner
  - **Cost:** \$240,278.00
- Trotwood Park Phase I Improvements
  - **Role:** Planner
  - **Cost:** \$425,000.00



Lake Monroe Trail.



## Michelle Tanner

### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Designer
  - **Cost:** \$2,395,585
- Spring Hill Park/Trail
  - **Role:** Planner
  - **Cost:** \$240,278.00
- Trotwood Park Phase I Improvements
  - **Role:** Planner
  - **Cost:** \$425,000.00

## Thomas J. Galloway, PSM

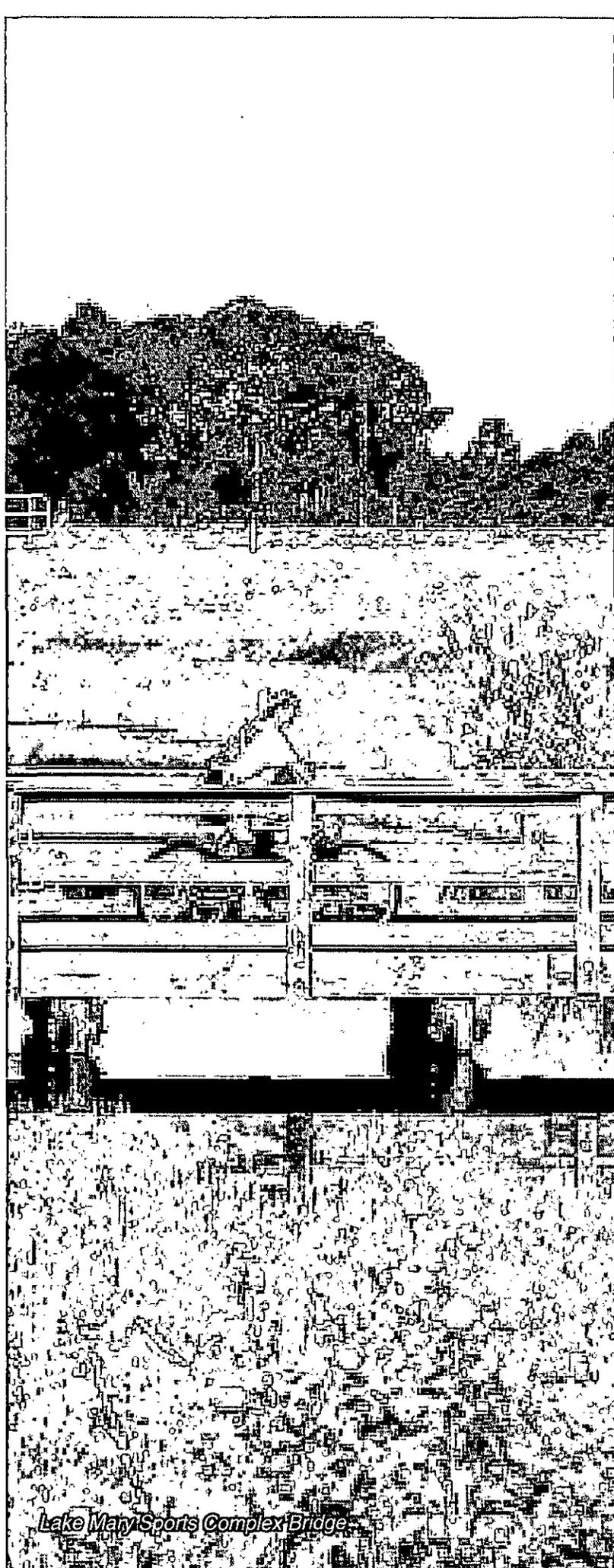
### Projects:

- Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements
  - **Role:** Surveyor
  - **Cost:** \$2,395,585
- Spring Hill Park/Trail
  - **Role:** Surveyor
  - **Cost:** \$240,278.00
- Trotwood Park Phase I Improvements
  - **Role:** Surveyor
  - **Cost:** \$425,000.00

## Randall L. Roberts, PSM

### Projects:

- Trotwood Park Phase I Improvements
  - **Role:** Surveyor
  - **Cost:** \$425,000.00
- Caspersen Beach Park Improvements
  - **Role:** Surveyor
  - **Cost:** \$1,700,000.00
- Blind Pass Park Improvements
  - **Role:** Surveyor
  - **Cost:** \$700,000
- Alabama Avenue Greenway
  - **Role:** Surveyor
  - **Cost:** \$747,927
- Lake Monroe Trail
  - **Role:** Surveyor
  - **Cost:** \$1,003,795.00



Lake Mary Sports Complex Bridge



## Amy E. Daly

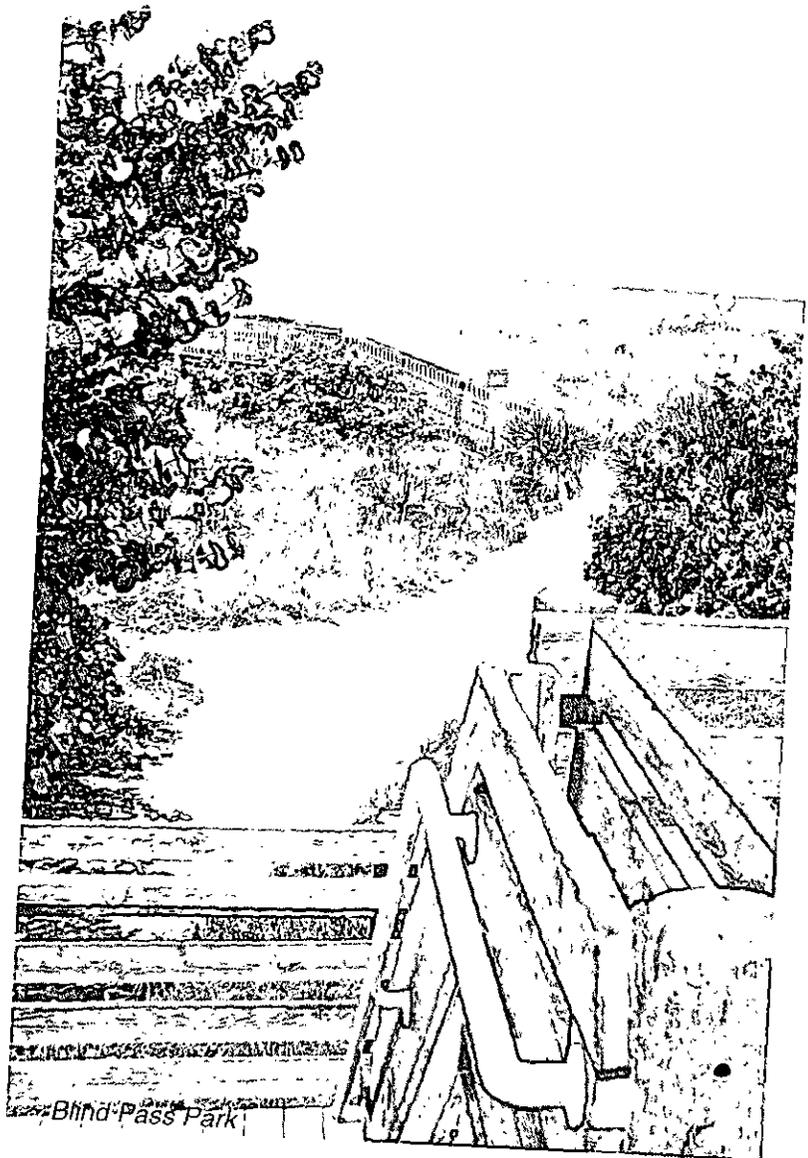
### Projects:

- Spring Hill Park/Trail
  - **Role:** Environmental Scientist
  - **Cost:** \$240,278.00
- Trotwood Park Phase I Improvements
  - **Role:** Environmental Scientist
  - **Cost:** \$425,000.00
- Caspersen Beach Park Improvements
  - **Role:** Environmental Scientist
  - **Cost:** \$1,700,000.00
- Blind Pass Park Improvements
  - **Role:** Environmental Scientist
  - **Cost:** \$700,000
- Manasota Beach Park Restroom and Concession Stand
  - **Role:** Environmental Scientist
  - **Cost:** \$1,500,000.00
- North Jetty Park Improvements
  - **Role:** Environmental Scientist
  - **Cost:** \$ 1.7 Million

## Aaron Moore

### Projects:

- Caspersen Beach Park Improvements
  - **Role:** Environmental Scientist
  - **Cost:** \$1,700,000.00
- Blind Pass Park Improvements
  - **Role:** Environmental Scientist
  - **Cost:** \$700,000
- Manasota Beach Park Restroom and Concession Stand
  - **Role:** Environmental Scientist
  - **Cost:** \$1,500,000.00



**Academic Credentials**

B.S. Environmental Engineering,  
University of Florida, Gainesville, Florida

**Licenses & Certifications**

Licensed Professional Engineer, Florida  
(No. 38642)  
General Contractor License CG-CO60789  
Licensed Professional Engineer,  
Connecticut (No. 0025574)

**Principal Areas of Expertise**

Master Water/Wastewater/Reclaimed  
Water Plans

Planning, Design and Engineering Services  
during construction for water, wastewater,  
and reclaimed water type projects

Road Design and Construction  
Engineering and Inspection

Design and Construction of water supply,  
treatment and distribution systems

Stormwater management, land  
development projects, recreational facility  
design

Major wastewater treatment plants, water  
reclamation facilities, wastewater collection  
systems, and reclaimed water systems

**Professional Activities**

ASCE  
Water Environment Federation  
North American Lake Management Society  
American Society of Testing Materials  
American Water Resources Associates

Mr. Gierach serves CPH Engineers, Inc. as President. He has specialized in planning, design and engineering services during construction for road projects, water, wastewater, and reclaimed water type projects. He has prepared Master Water/Wastewater/Reclaimed Water Plans for clients such as the City of Casselberry, Winter Springs, Volusia County, Seminole County, the U.S. Navy, and others. He has extensive experience in the design of major wastewater treatment plants, water reclamation facilities, wastewater collection systems, control and SCADA systems, and reclaimed water systems, and he has provided such services to clients including the Cities of Sanford, Lake Mary, Casselberry, Winter Springs, Orlando, the U.S. Navy and Volusia County for numerous projects. He has extensive experience in the design of water supply, treatment and distribution systems, and has provided services to the Cities of Sanford and Casselberry, Sanlando Utilities, Volusia County, and others. Mr. Gierach also has experience in stormwater management, land development projects, recreational facility design and road design. He has provided services in these fields to various private clients and to public clients such as the U.S. Navy, City of Lake Mary, Volusia County, Seminole County, and others.

Mr. Gierach served four years as an Officer in the United States Navy, Civil Engineer Corps before joining the firm of CPH. During his time in the Navy, Mr. Gierach served two years as the Assistant Officer in Charge of Construction at Naval Weapons Support Center, Crane, Indiana. His responsibilities in this position included assisting in the supervision and operation of a contract administration staff consisting of four engineers, seven construction inspectors, and four contract specialist personnel. In addition, he served as Project Manager in charge of the contract administration of construction contracts valued at over \$6 million annually. The project types varied from the construction of a \$2 million remote-controlled Plastic Bonded Explosive Production Facility to installation of force mains, water lines, and office facilities. He also served two years as an assistant to the Public Works Officer at Naval Support Activity, New Orleans, Louisiana. In this position, his primary responsibility was preparation and contract administration of over \$750,000 annually of Public Works maintenance contracts.

## Academic Credentials

B.S., University of Florida, 2003  
Civil Engineering Honors

## Licenses

Professional Engineer – State of Florida

## Certifications

LEED Accredited Professional  
FDEP Stormwater Management Inspector

## Principal Areas of Expertise

Commercial land development including general site planning, stormwater management modeling analysis, lift station design, and permitting of sites through various jurisdictional agencies.

## Professional Activities

Tau Beta Pi

Mr. Toole serves the firm of CPH Engineers, Inc. as a Project Manager/Engineer and the Branch Manager of the firm's Panama City office. He is responsible for design and engineering infrastructure, grading, drainage, potable water, sanitary sewer systems, lift station design, as well as the preparation and processing of permits through various regulatory agencies. While at CPH, Mr. Toole has served as principal, program manager, and project engineer for complex projects that have involved coordination with the public, government entities, and other consultants. Currently, he serves as Program Manager for the Firm's SunTrust Bank development program, where he manages various design teams for SunTrust's Florida Redevelopment program. Mr. Toole has over 8 years of experience and is a Registered Professional Engineer in Florida.

Prior to working with CPH Engineers, Inc., Mr. Toole worked as an intern for the Florida Department of Transportation. During this time he gained valuable experience in conducting roadway inspections, testing construction materials, and researching test methods and equipment.

Additional Experience includes:

**General Site Development Projects:** Planning and site layout, stormwater and utilities design, large & small-scale Comprehensive Plan amendments, rezoning, permitting, public presentation, pollution prevention plan preparation, construction estimating, and site inspection.

Recent development projects include:

**Lowe's, Ensley (Escambia County), FL** – Commercial Retail. Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**Wal-Mart, Estero, FL** – Commercial Retail. Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**Wal-Mart Neighborhood Market, Cape Coral, FL** – Commercial Grocery. Serving as project engineer responsible for the design of the stormwater system, utility layout, permitting of site, and overall development of land.

**SunTrust Bank Program** – Serves as Program Manager for SunTrust's statewide development program. Responsible for coordinating the permitting efforts of all civil related activities for all new sites within the State of Florida.

**Academic Credentials**

B.S., University of Florida, 2003  
Environmental Engineering

**Licenses**

Professional Engineer – State of Florida  
No. 67437

**Certifications**

FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Stormwater Management Systems  
Utility Systems Modeling  
Land Development  
Transportation  
Permitting  
Construction Administration  
Construction Inspection

**Professional Activities**

Florida Engineering Society

**Modeling Software Experience**

ASAD, ICPR, Adds, HEC-RAS, Ponds,  
FlowMaster, CulvertMaster, WaterCAD,  
SewerCAD, AutoCAD, MicroStation,

Mrs. Paguada serves the firm of CPH Engineers, Inc. as a Senior Project Manager. She has over ten years of experience in project management, including the design and engineering of both public and private sector projects. She is experienced in large and small scale stormwater management design, large and small scale land development projects, construction administration and oversight involving inspection of SWPPP controls, utility installations, and reviewing as-built surveys. Mrs. Paguada's experience in land development projects include new and redeveloped sites which include site layout, grading, and design of the necessary utilities. Several of which include utility design and permitting for items such as lift stations, fire water main/tank, utility main extensions, and directional bore installations.

Mrs. Paguada's representative projects include:

***Wal-Mart, Destin East (Walton County), FL – 10.15 acre site***

Mrs. Paguada served as the project engineer responsible for the design and permitting for a new Wal-Mart store. The stormwater management system consisted of a dry retention pond in order to provide for the necessary stormwater treatment and attenuation while not encouraging mosquito breeding. The utilities design included a new lift station, fire water tank and pump, and irrigation well. The project also included a new turn lane and driveway off of State Road 98 which required additional permitting and coordination between FDOT, FDEP, Walton Co. and the local utility companies.

***Lowe's, West Pensacola (Escambia County), FL – 10.02 acre site***

Mrs. Paguada served as a project engineer responsible for the design of the site grading, stormwater management system, utility layout involving a new lift station, nearly one mile of force main extension, and permitting of the site. The stormwater runoff for this project was designed to discharge to an Escambia County pond. This allowed us to work closely with Escambia County to update their ICPR and GIS shape files for this particular drainage basin.

***Poinciana Parkway, Polk and Osceola Counties, FL***

Mrs. Paguada served as project engineer performing stormwater management design and permitting for the 10-mile roadway corridor. Stormwater design included 7 wet detention ponds serving a combination of side swales and storm sewer throughout. Mrs. Paguada assisted in conducting culvert analysis and design to allow for the conveyance of existing wetland flow and habitat critter crossings since a portion of the project crossed through wetlands and a wetland mitigation bank. In addition, Mrs. Paguada completed floodplain compensation calculations for this project.

***Poinciana - Adult Retirement Community, Osceola County, FL***

Mrs. Paguada worked as a project engineer for the proposed 200+ acre retirement community to design the stormwater management master plan that would include interconnected wet detention ponds and conservation areas throughout. She was responsible for assessing the pre-development condition of the land by developing a ICPR model to represent the existing hydrology (areas of water storage and conveyance) of the land.

**Academic Credentials**

Technical Degree in Architectural Engineering, West Side Technical, 2000

**Certifications**

FDEP Stormwater Management Inspector

**Principal Areas of Expertise**

Land Development  
Utility Layouts and Details  
Roadway Layouts and Details  
Construction Plans Preparation  
Permitting  
Construction Administration  
Construction Inspection

**Professional Activities**

Florida Engineering Society

**Software Experience**

Autocadd, Autoturn, microsoft office,

Mr. Paguada serves the firm of CPH Engineers, Inc. as a Project Designer. Mr. Paguada has over 6 years of Civil Engineering experience and over 3 years of Architectural design experience. His experience includes mixed-use developments, residential neighborhoods, redevelopments of existing sites, and retail shopping centers. Mr. Paguada has expertise in site layout to achieve the best possible use of the land considering sound engineering, cost, public safety, and constructability. He is experienced with laying out roadways, buildings, grading, drainage (detention, retention, and underground systems), potable water, and sanitary sewer; and presenting them in plan, profile, and/or cross-sectional views. In addition, Mr. Paguada provides the supporting specs, details, SWPPP plans, demo plans, and/or MOT plans as necessary for the project. He is skilled with coordinating between the various parties necessary to complete the project design; such as, survey, landscaping, geotechnical, environmental, and/or structural. Furthermore, Mr. Paguada has experience in construction administration, coordination, and oversight involving inspection of SWPPP controls, utility installations, and reviewing as-built surveys.

Mr. Paguada's representative projects include:

**Lowe's, West Pensacola (Escambia County), FL**

This 27.76 acre project included 15 acres of wetlands. Mr. Paguada provided several alternative site layouts in order to achieve a layout to make best use of the property while impacting the least amount of wetlands. Off-site roadway improvements included approximately 0.5 mile of additional turn lanes and traffic signal on the abutting super elevated section of Blue Angel Parkway.

**Lowe's, Ensley (Escambia County), FL**

Mr. Paguada was responsible for laying out this site to include a Lowe's store, four outparcels, two driveway connections, and all of the necessary infrastructure. This project included a new lift station with approximately 1 mile of 4-inch force main. A detailed demolition plan was also needed for demolition of the existing homes, nursery, vacated roadways, and utilities. Offsite improvements to West Nine Mile Road included approximately 1 mile of additional turn lanes, realignment, and restriping.

**McDonald's, Capital Circle (City of Tallahassee), FL****McDonald's, Governor Square (City of Tallahassee), FL****SunTrust, Santa Rosa (City of Santa Rosa), FL**

**Academic Credentials**

Bachelor of Landscape Architecture,  
Mississippi State University

**Licenses**

Registered Landscape Architect, States of  
Florida, Arkansas, Maryland, Texas,  
Connecticut, Georgia, Pennsylvania, and  
Rhode Island

CLARB Certified - #5203

**Principal Areas of Expertise**

Landscape Architecture  
Land Planning  
Commercial Development  
Recreation Planning  
Irrigation Design

**Professional Activities**

Past Section Chairman of ASLA's Florida  
Chapter  
Past Vice-Chairman of the Cape Coral  
Downtown Redevelopment Agency's  
Citizen Advisory Board

Mr. Winter serves CPH Engineers, Inc., and its clientele, in the capacity of Director of the Landscape Architecture Department. Mr. Winter has over 30 years of experience in Landscape Architecture and holds a Professional Landscape Architecture License in the States of Florida, Arkansas, Maryland, Texas, Connecticut, Rhode Island, Pennsylvania, and Georgia.

Jim has extensive project management and construction administration experience for mix use and commercial projects, residential projects, streetscapes, aquatic facilities and institutional projects. As project manager, Jim has been responsible for managing design teams of professionals and contractors.

**Current Projects Include:**

**Most Precious Blood Catholic Church**

CPH was contracted by the Parish of the Most Precious Blood Catholic Church to prepare Concept Drawings, Design Development Drawings and Construction drawings for their new campus site in Oviedo, Florida. Professional services provided included surveying, civil engineering, environmental permitting, arborist and landscape architecture. The scope of work included the preparation of drawings for; the site development drawings, wall and fence detailing, paving detailing, grading and drainage, sediment and erosion control, landscaping, irrigation and wetland mitigation plans. One of the primary design intents was to create opportunities for extended outdoor use and the incorporation of Church logos and religious symbolism. The primary outdoor space created in phase one is the Bethlehem Plaza. The plaza features a graphic depiction of the Star of Bethlehem, constructed from a mosaic of colored concrete pavers. CPH developed a detailed plan to help the contractor achieve this "random" radiating paver pattern. CPH also custom detailed the safety fence using a cross picket motif and columns that repeat the brick columns proposed for the site buildings.

**Jackson Memorial Hospital**

CPH was contracted by Jackson Memorial Hospital to prepare Design Development and Construction drawings of a conceptual design prepared by Heery Design of the Alamo Plaza Renovation and the East Entrance Renovation. Professional services provided included surveying, civil engineering, architecture, arborist and landscape architecture. The scope of work included the preparation of drawings for; building demolition, gate house design, entry wall and fence detailing, streetscape paving detailing, grading and drainage, sediment and erosion control, landscaping, irrigation and donor wall and pergola design detailing. One of the primary design intents is to transform a driveway entrance road into a pedestrian plaza that seamlessly flows with the existing Alamo Plaza. CPH is near completion of the 100% construction documents and will be submitting for bids in the very near future.

**Academic Credentials**

Bachelor of Landscape Architecture,  
Louisiana State University

**Licenses**

Landscape Architect, State of Florida  
#LA 1522

**Principal Areas of Expertise**

Landscape Architecture  
Planner

**Professional Activities**

American Society of Landscape Architects  
American Institute of Certified Planners /  
American Planning Association  
Volunteer Park Inspector, City of Orlando

Mr. Pugh serves the firm and its clientele in the capacity of Registered Landscape Architect. Mr. Pugh has over 15 years of governmental and private Landscape Architecture experience. This experience includes working as a Sr. Landscape Architect and a Sr. Planner. He additionally provided professional services such as procurement of consultants, directing and reviewing the preparation of site plans, construction documents and landscape plans. Galen coordinated the public participation process and conducted public and steering committee meetings.

**Current Projects Include:**

**Oleander Avenue** - Mr. Pugh provided services for the Oleander Avenue extension project that consists of the construction of approximately 1000-ft of new 2 lane road between two existing streets in order to improve access to residential areas, including an elementary school, within the City of Sanford. Prior to project kickoff, CPH prepared renderings of the road alignment, proposed intersections, and traffic calming features and attended community meetings that were held in order to receive public feedback on the project prior to moving forward with the design and permitting.

**Sanford 1st Streetscape/Gateway Improvements** - Mr. Pugh provided services for the Sanford 1st Streetscape/Gateway Improvements project. The intent of this project is to closely match the streetscape of improvements previously completed on First Street. Close coordination with City Staff involved in adjacent projects was of utmost importance as we provided seamless transition from one phase to another. Plans and services included the conceptual and final design of a Gateway feature introducing the historic district.

**Sanford's 17-92 Beautification** - The City of Sanford contracted with CPH to prepare plans for the beautification of the stretch of 17-92 between Airport Blvd and Park Avenue. This one mile stretch of road will function as a beautiful welcome to the city of Sanford for travelers headed north bound into the city from points south and those exiting the 417 expressway. This streetscape project, a joint effort led by the city of Sanford, in coordination with Seminole County and FDOT and made possible with funding by the U.S. 17-92 Community Redevelopment Agency, will add new life to a portion of this heavily used and vital commercial corridor.

**Alabama Avenue Greenway** - Mr. Pugh provided services for the Alabama Avenue Greenway project that consists of a Local Agency Program (LAP) project between the Florida Department of Transportation and the City of DeLand. The project, currently near the end of the design phase, included the design of a 1.4 mile Shared Use Path from the City's Earl Brown Park to the City's Painters Pond Park located near the southern property line of Stetson University.

## Academic Credentials

Masters of Landscape Architecture;  
Mississippi State University

MBA – Florida Gulf Coast University.  
Fort Myers, Florida

B.S. – Fine Arts – Murray State University,  
Murray, Kentucky

## Principal Areas of Expertise

Landscape Architecture  
Commercial Development  
Recreation Planning  
Irrigation Design  
Graphic Design  
Public Relations

## Professional Activities

ASLA-American Society of Landscape  
Architects  
AAF-American Advertising Federation (past  
member)

Mr. Miller serves the firm of CPH as Sr. Landscape Designer and brings over 25 years of graphics and marketing experience. He is completing course work towards a Masters Degree in Landscape Architecture and received his Bachelor's Degree in Fine Arts from Murray State University.

Mr. Miller's daily project experience includes: concept design, code review, graphic design, hardscape/landscape design and project management. Mr. Miller works on municipal and private clients projects that include the following areas:

- Streetscape & Urban Design
- Parks and Recreation
- Athletic Fields
- Greenways & Trails
- Commercial Developments
- Residential Developments

## Current Projects Include:

**Punta Gorda Linear Park/Multi-Use Trail - Phase II** - Mr. Miller provided design services for Phase II of a three phase linear park in Punta Gorda. The project runs along a tidal creek within the easement of the old Seaboard Coastline Railroad right-of-way from the Peace River to Cross Street (U.S. 41). CPH is providing landscape architecture, survey, and engineering design services for the Phase II section from Shreve Street to Cross Street, a distance of 3040 linear feet.

**Sanford's 17-92 Beautification** - Mr. Miller provided design services for the Sanford's 17-92 Beautification project. CPH prepared plans for the beautification of the stretch of 17-92 between Airport Blvd and Park Avenue. This one mile stretch of road will function as a beautiful welcome to the city of Sanford for travelers headed north bound into the city from points south and those exiting the 417 expressway.

**Seminole County, Florida** – Mr. Miller worked to design a little league baseball complex. The park contained four lighted baseball fields, concession and restroom building, a children's playground and a basketball court.

**Lake Monroe, Sanford, Florida** – Mr. Miller provided site design for an elevated restaurant, with parking below and a lakefront overlook deck. The design also included boat docks located on the shore of Lake Monroe for restaurant patrons.

**Commercial Developments** – Mr. Miller provides site plan and landscape design for various commercial clients such as Lowe's, Target, CVS, IHOP and Wal-Mart Stores throughout the State of Florida and Texas.

**Academic Credentials**

December 1976, University of Milwaukee,  
Wisconsin, Bachelor of Science Degree  
"Architectural Studies"

May 1972, Northwest Technical Institute,  
Green Bay, Wisconsin, Associate Degree "Civil  
Structural Technology"

August 2004, LEED Accredited Professional

August 2005, Building Leadership Excellence:  
Dale Carnegie Training

**Licenses**

Registered Architect (Florida, Connecticut,  
Minnesota, Wisconsin, Michigan, Illinois,  
Indiana, Ohio & Iowa)

Certified with National Council of  
Architectural Boards

**Principal Areas of Expertise**

Architectural Project Management  
Design/Build

**Professional Activities**

2007 Member of Florida Green Building  
Coalition

Member of the American Institute of Architects

Member of the Orlando Chapter AIA

Past President of the AIA Saginaw Valley  
Chapter 2006

2005 – AIA Mentor "Architectural Student"  
Program

2003 - Sandler Sales Training Program

2001 – Volunteer Building Committee

Member for Saginaw Children's Museum

1999 - Golden Trowel Award International  
Masonry Institute – "Veterans

Administration Building", Southwest  
Wisconsin Veteran Cemetery

1990-1999 – Served on Summit Meadows

Maintenance Corp. Waukesha County, WI

1989 – 1993 - Served on Design and  
Construction Mausoleum Committee.

"National Catholic Cemeteries"

Mr. Baer joined the CPH Architectural staff as an Architectural Project Manager. He comes to CPH with more than 30 years of project management/architectural experience. In the past several years, Mr. Baer has been involved in a wide variety of projects throughout the State of Florida. Mr. Baer's specialties include:

- Retail/office planning
- Condominium Development
- Medical offices
- Financial Institutions
- Industrial/Warehouse Facilities
- Restaurant Design
- Chapel/Mausoleum/Funeral Homes
- Education
- Assisted Living/Nursing Homes

Mr. Baer's current projects include:

- Kirkman Offices - Orlando (Two Story Facility 33,600 s.f.)
- Water Treatment Facilities – Palm Bay & Key Largo
- McDonald's USA Corp. – Multiple Florida locations
- Public Works Building, Deland, FL
- DDR - The Fountains – Plantation City (Retail 150,000 s.f.)
- Immokalee Farmer's Market - Florida Agricultural Department (90,000 s.f.)
- North Port Medical Clinic (12,000 s.f. Addition/Remodel)

Mr. Baer's career highlights prior to joining CPH includes:

Office Manager of an architectural division for a design/build construction company for six years. There, he specialized on a fast track building delivery system within restraint of concentrated timeline and guaranteed budget. Collaboration with construction managers, MEP constants, municipal planners, subcontractors and suppliers was a priority to meet the client's needs as a single source of responsibility, from land acquisition through completion of construction.

Mr. Baer also held the position of V.P. of Tribute Design, the architectural division of the Tribute Companies, for 15 years. Responsibilities included design, municipal zoning, approach, construction budgets, and production of construction documents for in-house turnkey project throughout the Midwest. Specialized duties included design and presentation of long range master plans, contract negotiations for design/build and bid/build projects and foreign agreements for fabrication of marble and granite.

**Academic Credentials**

Master of Science in Architecture,  
London University, 1976.

Bachelor of Architecture, University of  
Singapore, 1973.

**Licenses**

Registered Architect (Multiple States)

**Principal Areas of Expertise**

Correctional Center  
Police Station with Sheriff Dept.'s Cells  
Public Safety Facilities  
Fire/EMS Station  
Medical buildings  
Public Parks and Recreation Facilities  
Commercial Retail Centers  
Office Buildings  
Churches  
Restaurants

**Professional Affiliations**

American Institute of Architects (AIA)  
National Council of Architectural  
Registration Boards (NCARB)  
Alberta Association of Architects  
President of Asian American Chamber of  
Commerce from 1998 to 2000.

Victor Tan joined CPH Engineers as Vice President, Director of Architectural Services. Prior to joining CPH, Mr. Tan was with GTA Design Group, and was President of GTA Design Group from 1992-2004. He has served as the Architect of Record for more than 500 commercial and governmental projects. Mr. Tan's specific expertise includes Space Programming, Design, Construction Documents, and Construction Contract Administration. His expertise also extends to Project Management and specialized contracts such as Design/Build and Construction Management.

Mr. Tan has extensive experience in the design of Public Safety Facilities, Police and Fire/EMS Stations, Office Buildings, Restaurants, and Public Parks. He has also served on the Board of Directors of Venice Main Street, establishing Design Guidelines for Historic Districts of Downtown Venice.

**Specific Project Examples Include:**

- *Prototype EMS/ Fire Station #12, Deep Creek, FL.*  
Mr. Tan was the Architect of Record for the Prototype Fire/EMS design of an 8,000 sq. ft. facility. The design provides separate living quarters and locker rooms for males and females, dining room, day room, physical fitness room and Administrative Offices. The Building also provides a 3 Bay Apparatus Room, sterile supply storage, isolated Biohazard waste storage facility and Generator Room.
- *Deltona Fire Station #62 (New Design)*  
CPH provided architectural services for the City of Deltona to design the New Fire Station on Diamond Street. The 5,700 sq. ft. Facility includes 3 Apparatus Bays with Dormitories for 10 firemen on one side and Combat Areas on the other side of the Apparatus Bays. The Apparatus Bays are Drive-thru Bays with wrap around Driveway and Parking for Staff and Visitors. The Combat Areas include a Community Meeting Room, Handicap Accessible Public Restroom, 2 Offices, Day Room, dining Room and a Kitchen.
- *Sarasota County School Board, Telecom Headquarters,*  
The Telecommunications Building covers approximately 6,530 sq. ft. and serves as the communication headquarters for the School Board. The building was designed to serve as a safe shelter in the event of a major storm. The building includes training rooms, offices and storage space.
- *Venice Police Station, Venice, FL.*  
Venice Police Station and South Sarasota County Jail is a combined facility located on a 4.2 acre site in Venice, FL. 1-story, 19,000 sq. ft. Police Department with Communication, Records, detectives and Sheriff Facilities. Although diverse functions are accommodated within, the overall building design is highly unified and presented in the locally Mediterranean style. In addition to receiving a Civic Beautification Award, the facility was highly praised by City Council for being completed "on time and under budget. The building includes a Sarasota County Holding Facility, Administrative Offices, 911 communications and Records and Evidence Room

**Academic Credentials**

Bachelor's of Architecture,  
University of Miami, 1995.

International Studies Program,  
Mackintosh School of Architecture, 1993-  
1994

**Principal Areas of Expertise**

Retail Shopping Centers  
Office Buildings  
Park Pavilions & Amenities  
Multi-family Residential  
Industrial Complexes

Gail Goretsky serves the firm of CPH Engineers as a Design Architect with over 13 years experience. She is NCARB certified and has obtained her Florida State Architect's License. Her expertise includes specification writing and construction documents.

Ms. Goretsky's daily project experience includes site observation and shop drawing review for projects currently under construction. She consults with structural, civil and mechanical engineers on tenant completions, new office buildings and the design of civic improvements and park facilities.

**Specific Project Examples Include:**

- City of Winter Springs – Trotwood Park Pavilions  
With her knowledge of historic architecture, Ms. Goretsky provided brick detailing for the amenities that will support a children's "splash pad" play area.
- City of Sanford – Gateway to the Historic District
- City of Palm Coast – Water Treatment Plant #3  
For the administrative office building at this clean and modern facility, Ms. Goretsky provided her expertise in specifying finishes and coordinating structural details.
- State of Florida – Farmer's Markets  
Immokalee, Fl & Wauchula, FL  
Ms. Goretsky provided services to replace and repair nine buildings in two complexes that were severely damaged by hurricanes.
- CVS Pharmacy Prototype –  
Puerto Rico  
With her qualifications in materials research, Ms. Goretsky provided the architectural specifications for three prototype stores that will be constructed throughout the island of Puerto Rico.
- Florida Cattleman's Association Office Building  
Kissimmee, FL
- Marshalls Department Store –  
San Juan, Puerto Rico and Plantation City, FL
- Giorgio Armani Store- Bal Harbour Shops  
Miami Beach, FL
- The Cloisters at World Gateway – Multi-family Residential  
Kissimmee, FL
- The Greens– Multi-family Residential Renovation  
Orlando, FL
- Westside Community and Recreation Facility–  
Sanford, FL  
10,000 sq. ft. addition to an existing multipurpose facility

**Academic Credentials**

M.A., Urban and Regional Planning  
Concentration: Land Planning  
& Urban Design  
University of Florida

B.S., Business Administration  
Concentration: Economics  
University of Florida

**Principal Areas of Expertise**

Property Entitlements Acquisition  
Land Use Feasibility Reports  
Land Planning/Master Planning  
Site Planning  
Project Management  
Developments of Regional Impact  
Comprehensive Planning  
Land Use Amendments/Rezoning  
Expert Testimony

**Professional Activities**

American Planning Association  
Board Member, National Association of  
Industrial and Office Properties, Central  
Florida Chapter  
Board Member, Affordable Housing  
Authority, City of Orlando, Florida  
Urban Design Commission, Orange  
County, Florida  
Florida Planning and Zoning Association

Mr. Omana serves the firm of CPH Engineers, Inc. as Vice President of Land Planning Services. He is a Land Planner/Designer with over 20 years of professional experience encompassing a wide range of land development planning activities that include: land use feasibility studies, master planning, site planning, Developments of Regional Impact (DRI), rezonings, entitlement acquisitions, permitting, and governmental approvals.

Mr. Omana has master planned/designed, and obtained development approvals for a host of projects ranging from small sites to large scale DRI's. Notable projects and clients include: Benderson Development Company, The Goodman Company, The Home Depot, Wal-Mart, Ace Hardware, Carter-Flagler Land Trust Properties (for Maury L. Carter and Associates, Inc.), Rosen Associates, Olson Associates of NW Florida, Inc., Hammes Company, Flagler Realty & Development, Orlando Regional Healthcare System, Acorn Development Company, 535 Land Trust, Timacuan Golf Course Community, Hallmark Senior Housing and Highwoods Properties.

Additionally, Mr. Omana has served as Project Manager and Chief Land Planner for projects in The Bahamas, Mexico, Colombia, Venezuela, Puerto Rico, Brazil and Spain.

Recent major projects include: Master planning/site planning and DRI work for the SIOP property in Sarasota County, Florida, as well as, the Motorola DRI in Boynton Beach, Florida; and, Development Entitlements and Approvals for the Carter-Flagler Land Trust Commercial Tracts in Palm Coast, Florida.

Additionally, Mr. Omana has been involved in the design and redevelopment of golf course communities and resort/leisure projects in the United States and Spain for Centex Destination Properties, Kitson and Associates and Bank of America.

Mr. Omana has been a member of several review boards/committees, including: Board of Zoning Adjustment – City of Orlando, Florida; Urban Design Review Committee – Seminole County, Florida; Comprehensive Plan Committee – City of Longwood, Florida; and, the Naval Training Center Reuse Committee / Environmental Services Subcommittee – City of Orlando, Florida.

### Academic Credentials

Bachelor of Design  
College of Architecture  
University of Florida, 1985

### Principal Areas of Expertise

Land Planning/Master Planning  
Site Planning  
Golf Course Routing Design  
Property Entitlements Acquisition  
Land Use Feasibility Reports  
Project Management  
Comprehensive Planning  
Land Use Amendments/Rezoning

Michelle Tanner serves the firm of CPH Engineers, Inc. as Senior Land Planner/Designer. She has over 20 years of professional experience encompassing a wide range of land development planning activities that include: residential and golf course master planning, commercial site planning, land use feasibility studies, rezonings, comprehensive plan amendments, entitlement acquisitions, and governmental approvals.

Prior to joining CPH, Ms. Tanner resided in southwest Florida where she was Project Planner for the 2,400 acre Bonita Bay Development of Regional Impact. Her responsibilities included preparation of design alternatives for remaining undeveloped land, residential and commercial parcel design and routing design for the Marsh, Creekside and Bay Island golf courses.

During her employment with CPH, Ms. Tanner has master planned/designed, and/or obtained development approvals for a host of projects. Notable projects and clients include:

- Acorn Development Company
  - Park Place, Apopka, FL
  - Isles of Sugar Mill, New Smyrna Beach, FL
  - Landings at Sugar Mill, New Smyrna Beach, FL
  - Heatherwood at Lake Jessup, Sanford, FL
  - Myrtle Street residential, Sanford, FL
  - Thompson Road Townhomes, Apopka, FL
  - Ellington Estates, Oviedo, FL
- Bank of America/Kitson & Associates
  - Sabal Point Golf Course, Longwood, FL
- Centex Destination Properties
  - Palm Harbor Golf Course, Palm Coast, FL
- CWS Development Company
  - CA Stone Planned Commercial Development, Oviedo, FL
- Demetree Builders
  - Sparkman Ridge, Orange City, FL
- La Plata Development Corporation
  - Riverside Town Center, Toa Baja, Puerto Rico
- Morrison Homes
  - Harbor Winds, Winter Springs, FL
  - Landings at Parkstone, Winter Springs, FL
- Stoney Enterprises, Inc.
  - CA Stone Center East, Oviedo, FL
  - CA Stone Center West, Oviedo, FL
- Sydgan Corporation
  - Ravaudage, Winter Park, FL
- Volusia County School Board
  - Pine Ridge High School Courtyard Renovation
  - Ortona Elementary Bus Loop/Parent Drop-off Loop Design
- Winter Springs Golf Club, Winter Springs, FL

**Academic Credentials**

B.S. Surveying and Mapping, 1992  
University of Florida

**Licenses****Florida**

Surveyor & Mapper LS6549

**Puerto Rico**

Professional Land Surveyor No. 23387

**Alabama**

Professional Land Surveyor No. 31338-S

**Certification**

NCEES Record No. 1291

**Principal Areas of Expertise**

Surveying and Management  
Highway Projects  
Land Development/Commercial and  
Private Projects  
Municipal Projects

**Professional Activities**

The Florida Surveying and Mapping  
Society

Mr. Galloway has over 17 years of experience in the surveying and mapping profession, and has a Bachelor of Science of Surveying and Mapping from the University of Florida. His experience ranges from working in the field and office on small to large development projects, to serving as Party Chief / Survey CADD Technician, Project Manager and Survey Manager.

Mr. Galloway has served as Principal and Director of the Surveying Division of the firm since its establishment in 2001. He has overseen the department's growth from two survey crews to managing the current seven survey crews. Additionally Mr. Galloway has been personally involved in over 2,500 surveys while at CPH, serving in capacity from principal to project surveyor.

Representative projects include:

- City of Arcadia, FL. - Utility Route Survey
- Minto Communities - Boundary, Construction layout and platting for 1,500 Lot Residential Subdivision.
- City of Holly Hill - Utility location and right-of-way determination.
- U.S. Navy - Vertical control and sanitary sewer design build survey on the Island of Guam.
- Nations Bank - Boundary/Topographic surveys and platting.
- Volusia County School Board – Southwestern Middle School As-Built Survey.
- Florida Department of Agriculture - Immokalee Farmers Market
- Newland Communities – 15-mile control and route survey
- Martin County School Board

Mr. Galloway is proficient in the use of computer software programs and field equipment, such as:

- AutoCAD Land Development Desktop
- TDS-Data Collection hardware and software
- Micro station, EFB and Caice
- Topcon & Leica total stations
- Trimble Post Processing Software
- Trimble and Ashtech GPS Equipment
- Arcview

**Academic Credentials**

Honor Graduate of University of Florida  
Surveying Program, College of  
Engineering, 1975

**Licenses****Florida**

Surveyor & Mapper LS3144

**Connecticut**

Land Surveyor No. LSX.0070359

**Alabama**

Professional Land Surveyor No. 31341-S

**Certification**

NCEES Council #1419

**Principal Areas of Expertise**

Surveying and Management  
Highway Projects  
Land Development/Commercial and  
Private Projects  
Municipal Projects  
Subdivision Plats and Lot Surveys  
Sectional Retracement

**Professional Activities**

Member Florida Surveying & Mapping  
Society  
Member Florida Land Surveyor's Council

Mr. Roberts has over 36 years of experience and serves the firm of CPH Engineers, as a Quality Control Survey Manager.

Prior to joining CPH, Mr. Roberts worked in the central Florida area and performed boundary, topographic, route, mortgage and as-built surveys, along with preparing subdivision plats, wetland location and FEMA elevation certificates.

Randy also has experience with utility route surveys including the following: Lake Bryan 69kv line for Florida Power Corporation transmission line through 7 miles in Orange County; and Altamonte 115kv line for Florida Power Corporation transmission line through 11 miles in Seminole County; and he was also in charge of the Seminole County portion, approximately 22 miles in length of the Duval to Poinsett twin 500kv transmission line for Florida Power & Light Company.

Representative projects include:

- City of Sanford Park and Ball Fields
- AutoZones in Orange, Volusia and Seminole Counties
- Personal Mini Storages in Central Florida
- City of Lake Mary Police Station
- City of Lake Mary Cemetery
- City of Lake Mary Sidewalks
- 1400-Acre site along Haw Creek in Volusia County
- Monitoring pins and piezometers for FP&L Reservoir at Sanford Power Plant
- 

Randy's office experience includes the following software:

- Autocad R10
- Autocad R12
- Autodesk LDD2
- Autodesk LDD3

Randy has field experience using the following:

- Wild T1000 DI1000 Total Station
- Topcon GTS 203 Total Station
- Zeiss and Nikon Auto level
- HP 48 Data Collector using TDS software

**Academic Credentials**

B.S. Biological Sciences, 1991, FSU

M.B.A. 1997, FMU, Summa Cum Laude

**Principal Areas of Expertise**

Ecological Assessments  
Environmental Permitting  
Mitigation Program Design  
Wetland Delineation  
Land Management

**Certifications**

U.S. Army Corps of Engineers Wetland Delineation  
Florida Unified Mitigation Methodology Course  
FDEP Certified Stormwater Inspector  
Prescribed Burner  
NAUI Scuba Diver  
Authorized Gopher Tortoise Agent (GTA-09-00145)  
LEED Accredited Professional

**Professional Affiliations**

National Association of Environmental Professionals  
Florida Association of Environmental Professionals,

- Board Member 2000-2008
- Vice President 2003-2005
- President 2005-2008

Central Florida Association of Environmental Professionals,

- Board Member 1997-2001,
- Newsletter Editor & Secretary 1997-2000

Society of Wetland Scientists  
NAIOP  
Association of Eminent Domain Professionals  
Student Pilot

Mrs. Daly serves CPH as Director of Environmental Services. Mrs. Daly has 17 years of environmental consulting experience including environmental resource assessments, habitat mapping, jurisdictional determinations, wetland functional analyses, protected wildlife surveys and management programs, and environmental resource permitting.

Mrs. Daly has designed and performed behavioral monitoring programs for bald eagle, Florida scrub jay, red-cockaded woodpecker, crested caracara, gopher tortoise and the sandhill crane. She has extensive experience in developing, permitting and marketing regional mitigation banks. She has also permitted, designed, monitored mitigation programs for both public and private entities. She is knowledgeable of data base programs and has performed detailed statistical analysis of environmental data. She has served as an expert witness on various environmental matters for condemnation proceedings.

Respective projects include:

**Florida Department of Transportation, District One**

Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for the following six (6) projects: Interstate 4, Polk County-Section 5, State Project No. 16320-1440; State Road 35 (US 17), DeSoto County, State Project No. 04020-3512; State Road 35 (US 17)-County Road 760A to Magnolia Avenue, State Project No. 04020-3525; US 441, Okeechobee County, State Project No. 91020-3504; State Road 35 (US 17) from CR764 to Charlotte/DeSoto County Line-Charlotte County, State Project Nos. 01040-1512 and 01040-1513; and State Road 35 (US 17), DeSoto County-Arcadia South, State Project No. 04020-1512.

**Florida Department of Transportation, District Five**

Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for the following two (2) projects: State Road 44, Sumter County, State Project No. 18070-3518; Environmental Scientist to conduct a Preliminary Development and Environmental (PD&E) Study for Interstate 95 (State Road 9)-from US 92 in Daytona-Volusia County to 00.2 miles north of Pellicer Creek in St. Johns County, Volusia, Flagler and St. Johns Counties, State Project No. 73001-1401.

**Florida Department of Transportation, District Two**

Environmental Scientist responsible for wetland delineation, habitat mapping, perform listed species surveys, environmental permitting, agency coordination and preparation of a mitigation alternative analysis for State Road 500, from the City of Chiefland (Hwy. 98) to the City of Bronson (County Road 24), Levy County, State Project No. 34010-1504.

**Florida Department of Transportation, District Six**

Environmental Scientist responsible for ecological assessment of 17 miles of road corridor to prepare a PD&E Study for I-75 from State Road 826 to I-95 interchange as part of the Interstate 75 Master Plan Study, Broward and Dade Counties. Tasks performed included wetland mapping, protected species surveys, assessment of recognized environmental conditions pursuant to ASTM standards, identified potential mitigation options and permitting strategies, Financial Management #2338711201; 25207011201.

**Lithia-Pinecrest Road, PD&E Study and Permitting, Hillsborough County, Florida**

Environmental Scientist responsible for ecological assessment of 1.5 miles of road corridor to prepare a PD&E Study. The road widening is a required off-site infrastructure improvement associated with the Lake Hutto Development of Regional Impact. The corridor begins at Williams Boulevard proceeding northerly to five hundred feet north of Bloomingdale Avenue. Environmental Scientist responsible for wetland delineation, habitat mapping, environmental permitting, performing listed species surveys, agency coordination, and the design of mitigation for this public-private road project.

**Academic Credentials**

B.S. Biology, 2001, UCF  
Minor Studies, Chemistry

**Principal Areas of Expertise**

Environmental Resource Permitting  
Protected Species Surveys  
Protected Species Permitting/Relocation  
Wetland Delineation  
Mitigation Design, Monitoring &  
Implementation  
Ecological Assessments  
Habitat Management  
WUP/CUP Permitting  
Water Quality Monitoring and Assessment  
Wetland Impact Analysis

**Certifications**

Authorized Gopher Tortoise Agent  
(GTA -09-00125)  
Southwest Florida Water Management  
District, Soils Identification Course  
Florida United Mitigation Assessment  
Methodology Course  
ACOE Wetland Delineator

**Professional Affiliations**

American Chemical Society  
Florida Association of Environmental  
Professionals  
Central Florida Association of  
Environmental Professionals  
Society of Wetland Scientist

Mr. Moore serves CPH Engineers as an Environmental Scientist IV in the Environmental Sciences Division.

Aaron has more than eleven (11) years experience in Environmental Consulting Services including wetland delineations, FLUCFCS habitat mapping, environmental assessments, wetland mitigation monitoring, wildlife surveys and monitoring, and environmental resource permitting. Aaron has also participated in wetland mitigation planning, municipal project review, and eminent domain cases.

Respective projects include:

**Wetland Mitigation Monitoring, City of Oviedo, Seminole County, Florida**

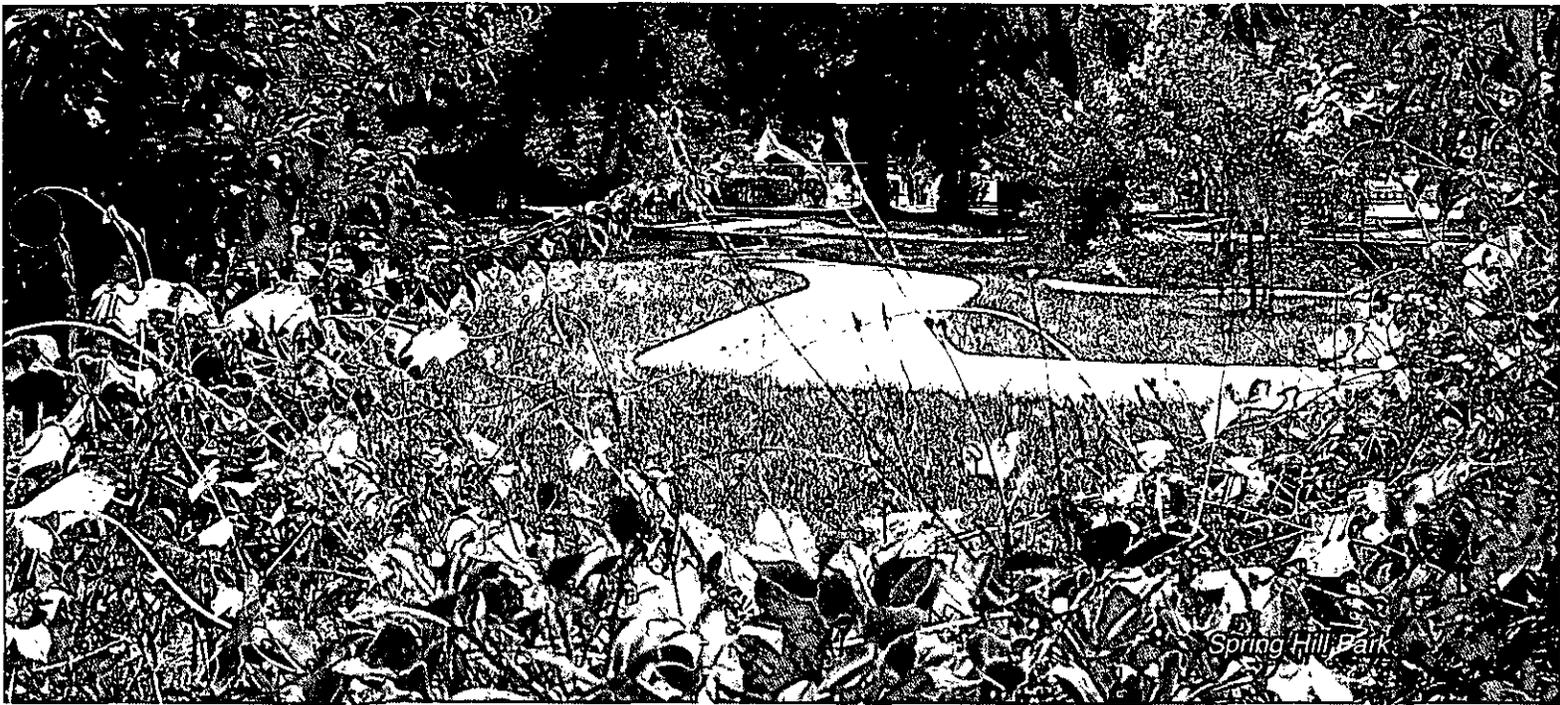
Project scientist responsible for the monitoring for the City of Oviedo's wetland restoration and creation mitigation areas at Round Lake Park, Gymnasium/Trailhead Park, Skateboard Park, Well field, and Lockwood water reuse line. Monitoring involved piezometer installation and recording, rainfall data collection and analysis, removal of invasive/exotic species, viability, and quantitative and qualitative assessments for success criteria, and annual/bi-annual reporting to regulating agencies.

**City of Oviedo Wellfield Impact Analysis, Seminole County, Florida**

Field Scientist responsible for collecting background information on wetland soils, wetland condition, water quality and hydrology for wetlands located within predicted surficial aquifer drawdown area of 0.10 feet or greater. Responsibilities include the programming of dataloggers, decoding and analysis of the data for use in groundwater models and ANOVA multivariant computations. Data is presented to the SJRWMD in the form of annual histograms with statistical analytical support.

**Belle Terre Parkway Re-alignment and Widening, Flagler County, Florida**

Aaron was the project scientist tasked to permit the widening and re-alignment of a 4.5-mile portion of Belle Terre Parkway. He performed wetland delineations, wildlife surveys and a wetland impact analysis utilizing the Unified Mitigation Assessment Methodology (UMAM). In addition he prepared the wetland avoidance and minimization analysis and designed a mitigation program to compensate for unavoidable wetland impacts. All study and survey methodologies were designed and performed pursuant to FFWCC wildlife methodology guidelines to determine the presence of protected species on the road corridor. Aaron also performed habitat mapping to determine the presence of rare and unique habitat to facilitate project design. He designed a mitigation program to compensate for 6.34 acres of wetland impact. The mitigation program included the enhancement of 25 acres of City owned property.

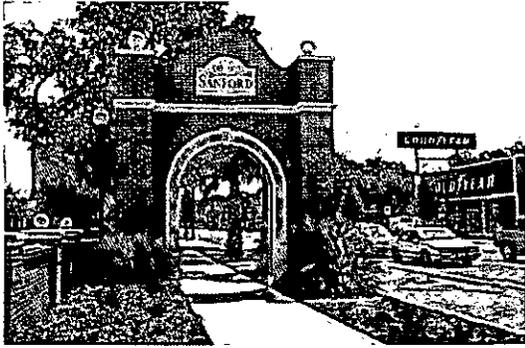


## B. Experience with Projects of a Similar Type and Size

The following matrix highlights some of CPH recent Parks, Recreation and Streetscape projects and relevant experience. Following the chart, we have included brief profiles of some of these projects, demonstrating our award winning experience. CPH has been providing consulting engineering and inspection services for over 30 years.

	Planning	Transportation/Traffic	Streetscape	Urban Design	Landscape Architecture	Utility Design	Stormwater Design	Pedestrian Improvements	Aquatic/Fountain Features	Public Participation	Project Administration	Permitting	Traffic Calming	Coordination and Compliance	Construction Administration	Surveying
Caspersen Beach Park Improvements	X			X		X	X	X			X	X		X	X	
Blind Pass Park Improvements	X					X	X	X			X	X		X	X	
Manasota Beach Park Restroom and Concession Stand	X	X		X	X	X	X	X		X	X	X	X	X	X	
North Jetty Park Improvements	X	X		X	X	X	X	X		X	X	X	X	X	X	
Punta Gorda Linear Park/Multi-Use Trail - Phases II and III	X	X	X	X	X	X	X	X		X	X	X	X	X		X
Ponce Inlet Park					X	X	X				X	X		X	X	X
Spring Hill Park/Trail	X	X	X	X	X	X	X	X		X	X	X		X	X	X
Chase Park Baseball Complex	X				X	X	X	X		X	X	X		X	X	X
USTA Florida Headquarters Daytona Beach Tennis Center	X	X			X	X	X	X		X	X	X		X	X	X
Lake Mary Sports Complex	X	X			X	X	X	X		X	X	X		X	X	X
Lake Monroe Trail	X			X	X	X	X	X		X	X	X		X	X	X
Central Winds Recreation Facility	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wayne Densch Little League Complex	X	X			X	X	X	X		X	X	X		X		X
Sanford 1st Street - Streetscape, Gateway, Trail	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
Town Center - Streetscape, Trail, Park	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Blumberg Drive - Roadway, Trail, Park	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Magnolia Square - Streetscape, Trail, Park	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Madison Avenue - Roadway Widening		X				X	X			X	X	X		X	X	X
DeLand: Alabama Avenue Greenway (Planning and Design)	X	X		X	X		X	X		X	X	X	X	X	X	X
Sanford 2nd Street - Streetscape	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
DeLand: Indiana Avenue - Streetscape	X	X	X	X	X	X	X	X		X	X	X	X	X	X	
DeLand: Woodland Boulevard - Streetscape	X	X	X	X	X	X	X	X		X	X	X	X	X	X	





## Sanford 1<sup>st</sup> Street Streetscape and Gateway Improvements

CPH provided the City of Sanford a streetscape design package (Landscape Architecture, Architecture, and Engineering) for a 6 block section of historic First Street. The intent of this project is to closely match the streetscape of improvements previously completed on First Street. Close coordination with City Staff involved in adjacent projects was of utmost importance as we provided seamless transition from one phase to another.

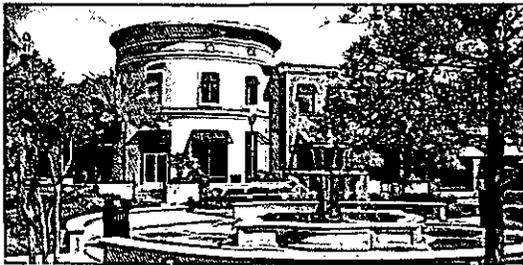
Plans and services included the conceptual and final design of a Gateway feature introducing the historic district. CPH worked with the City of Sanford to develop a theme for this gateway to showcase the style and character unique to this historic area and at the same time incorporating the City's logo. As an integral element to this design a strong emphasis was placed on planting design. CPH conducted design charettes to ensure input and direction from City officials and other interested parties. CPH used it's in-house 3D survey team to provide right-of-way surveys, while minimizing impacts to traffic. CPH also used the 3D survey to provide a "virtual tour" of existing conditions and the proposed improvements during the public relations effort.

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Sanford, Mr. Bob Tunis, Phone: (407) 330-5607

**Completion Date:** 7/2009

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM



## Winter Springs Market Square

Market Square welcomes visitors into the Winter Springs Town Center and is a main entrance to the City. CPH designed the fountain and the surrounding parcel terrace to be the focal element and gathering place for the square. Site furnishings were selected to be both durable and aesthetically pleasing. A seatwall was included to provide a sense of closure and to eliminate the need for benches.

Landscaping was designed to provide shade, buffer the square from street noise and provide seasonal interest. The project included: Park Plan Hardscape, Planting Plan, Irrigation Plan, and Furniture Selection.

**Firm's Responsibility:** Design, Landscape Architecture, and Irrigation

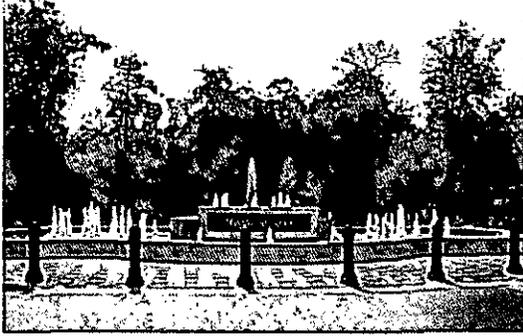
**Project Owner:** City of Winter Springs, Mr. Kipton Lockuff, P.E. Phone: (407) 327-5989

1126 East S.R. 434, Winter Springs, Florida 32708, klockcuff@winterspringsfl.org

**Completion Date:** 6/2006

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Thomas J. Galloway, PSM, Randall L. Roberts, PSM





## Winter Springs – Magnolia Square

CPH Services included the design of the streetscape, fountain, hardscape, furniture selection, landscape, irrigation and CEI services. The fountain was developed as a focal element from both Tuskawilla and Blumberg Avenue. Pavers were used to identify pedestrian crossings and different patterns were selected for visual interest along the sidewalks and around the fountain. Tuskawilla was lined with Palm Trees to welcome visitors into the Winter Springs Town Center.

The project included: Street Realignment, Utility and Stormwater Plan, Streetscape, Hardscape, Fountain Design, Planting Design, Irrigation Design, and Furniture and Lighting Selection.

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Winter Springs, Mr. Kipton Lockuff, P.E. Phone: (407) 327-5989

1126 East S.R. 434, Winter Springs, Florida 32708, klockcuff@winterspringsfl.org

**Completion Date:** 6/2006

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore



## Ponce Inlet Parks

CPH provided design and construction documents for the expansion of existing restroom facilities as well as a boardwalk extension and a fishing pier with small dock along the Indian River. CPH was responsible for permitting of the dock and pier with the Department of Environmental Protection. The existing restroom facilities were expanded, and a sanitary sewer lift station and Force main service was designed for the new facilities.

CPH was responsible for the renovation of the restroom building, extensions to the beach access boardwalks and addition of picnic shelters adjacent to the beach.

**Firm's Responsibility:** Design and Permitting

**Project Owner:** Volusia County, FL, Mr. Bill Apgar, Phone: (386) 943-7027 Ext: 3287

**Completion Date:** 1/2007

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Spring Hill Park/Trail

Spring Hill Park/Trail Engineering and Landscape Architectural services for the expansion of Spring Hill Park. CPH provided preliminary engineering and site planning along with construction estimates. Assistance was provided to the client in public presentations and community meetings. The final product consisted of phased construction plans with final engineering, a basketball court, restroom facility, tot lot, and pavilion.

The existing walking trail was expanded to encompass the additional park area. Park landscaping was improved to provide shade to trails and vegetation screening at parking areas. Site furniture and playground selection was provided by CPH Landscape architects.

**Firm's Responsibility:** Design, Landscape Architecture, and Architecture

**Project Owner:** Volusia County, FL, Mr. Bill Apgar, Phone: (386) 943-7027 Ext: 3287

**Completion Date:** 1/2006

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore

## Magnolia Avenue

The City of Sanford asked CPH to provide them with a design for the renovation of Magnolia Avenue between 2nd and 3rd Streets. This area is the Cities Theatre District. The renovations are to match adjacent streetscape improvements on 1st and 2nd streets. CPH is proceeding with preliminary design drawings, and will be providing construction drawings pursuant to the City's review of the preliminary drawings. Improvements will include the incorporation of the original street brick pavers and the introduction of a paver utility strip to house the underground electric for the proposed pedestrian scale lighting fixtures. Landscape bump-outs will also be incorporated into the design for traffic calming and safer pedestrian street crossings. Drawings will specify street furniture, including benches, trash receptacles, ash tray receptacles, and bicycle bollards. The landscaping will be designed using proven hardy plant material with accented areas of color based on Xeriscape techniques. CPH is also responsible for the irrigation design. Drip irrigation will be used to best manage the Cities water resources.

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Sanford (CRA District), Mr. Bob Tunis, Phone: (407) 330-5607

**Completion Date:** Under Design

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM





## Trotwood Park Phase 1 Improvements

Planning, design, permitting, bid services, and CEI services for construction of a splash pad water feature and all associated appurtenances including the design of a 2800 square foot splash pad, one pump room to house the pump and chlorination equipment, in-ground return water tank, extension of electrical service, water service and gravity sewer lines to support the splash pad and additional sidewalks adjacent to the new splash pad.

CPH collected data from the City, DOH and FDEP, and performed site visits to evaluate existing site conditions that affected the placement of the splash pad. Based upon the gathered information, CPH prepared a preliminary layout of the splash pad and a cost estimate. CPH also coordinated the design with the City to avoid future improvements to the existing park. CPH provided plan and profile drawings for the splash pad at the 60%, 90% and 100% design levels. This project also included coordination with the electrical engineer and the water feature manufacturer for both layout and power supply to the pump equipment. This water feature was to be constructed in an existing City park that was to remain open throughout the duration of construction, including the "tot" play area directly adjacent to the proposed splash pad area. Mr. Lane worked with the City to minimize impacts to the surrounding park and disruption to the public using the park. An opinion of probable construction cost was also prepared.

**Firm's Responsibility:** Planning, Design, Permitting, Bid Services, and CEI Services

**Project Owner:** City of Winter Springs, Chuck Pula, 407.327.6590, 1126 East S.R. 434, Winter Springs, FL 32708 or contact Kipton Lockcuff, P.E., email: [klockcuff@winterspringsfl.org](mailto:klockcuff@winterspringsfl.org), phone: 407.327.5989

**Completion Date:** 2009

**Project Manager and other Key Professionals:** James K. Winter, RLA, CLARB, Project Manager, Galen Pugh, Landscape Architect, Gene Miller, Landscape Designer





## Caspersen Beach Park Improvements

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, and bidding/construction administration services for construction of two new restrooms located at 4100 Harbor Drive South, in Venice, Florida. The project includes approximately 4100 LF of new 4" water main and 3100 LF of 2" force main with two lift stations and a new water main for Caspersen Beach Park. The project also included the addition of new ADA parking and access, sidewalks, and stormwater treatment system.

In addition, these improvements are seaward of the CCCL (Coastal Construction Control Line) as well as the GBSL (Gulf Beach Setback Line). CPH obtained a variance from Sarasota County for the improvements seaward of the GBSL and worked with the FDEP to obtain construction permits for the improvements seaward of the CCCL.

Work included investigation of site constraints, modeling of projects water and wastewater, analysis of existing lift stations, preparing a water study based on similar projects, development of Low Impact Design (LID) elements including two rainwater collection cisterns, stormwater engineering, and site improvements. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation. CPH is responsible for completing applications and obtaining site plan approval from Sarasota County and Coastal Construction and Environmental Resource Permits from the Florida Department of Environmental Protection for improvements seaward of the GBSL and CCCL. CPH was retained by the County to perform limited inspection services, shop drawing review, post design services, attendance at progress meetings, as-built drawings, clearance letter, certification of completion of construction, substantial completion and final inspections, review of change orders, and negotiation assistance for changes in the work.

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, Phone: 941-861.0841

**Completion Date:** 6/2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Amy E. Daly, Aaron Moore





## Blind Pass Park Improvements

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, bidding and construction administration services for construction of a new restroom, with ADA parking and access, sidewalks, water lines, stormwater treatment system and a new septic drain field for Blind Pass Park, located on the barrier island of Manasota Key at 6725 Manasota Key Road, in Sarasota, Florida.

Initial work included investigation of site constraints, establishing the client's program needs for the site and developing a preliminary site plan. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation. Following approval of the preliminary site plan, CPH is responsible for developing construction plans and specifications, suitable for bidding by construction contractors. CPH is responsible for completing applications and obtaining site plan approval from Sarasota County and permits from Southwest Florida Water Management District (SWFWMD).

CPH was retained by the County to perform limited inspection services, shop drawing review, post design services, attendance at progress meetings, as-built drawings, clearance letter, certification of completion of construction, substantial completion and final inspections, review of change orders, and negotiation assistance for changes in the work.

**Firm's Responsibility:** Design, Engineering, Environmental Services, Permitting, Bidding and Construction Administration Services

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, Phone: 941-861.0841

**Completion Date:** 2012

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Amy E. Daly, Aaron Moore





## Manasota Beach Park Restroom and Concession Stand

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, bidding and construction administration services for construction of a new restroom and multi-purpose building, with ADA parking and access, stormwater treatment system, and new septic system for Manasota Beach Park, located at 4100 Manasota Key Road in Sarasota, Florida.

Initial work included investigation of site constraints, establishing the client's needs for the site and developing a preliminary site plan. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation. The project incorporated green building practices and the site plan needed to work with existing architectural elements as well as the beautiful view of the beach enjoyed by vehicles approaching the park. CPH worked with the County to establish and use "branding elements" that are unique to Sarasota County Beach Parks. In addition to restrooms, the facility incorporated a concession building, lifeguard break room/treatment room and a work station for local law enforcement.

Following approval of the preliminary site plan, CPH was responsible for developing construction plans and specifications, suitable for bidding by construction contractors. CPH was responsible for completing applications and obtaining site plan approval from Sarasota County and Coastal Construction and Environmental Resource Permits from the Florida Department of Environmental Protection. CPH will assist the County during construction by attending progress meetings, performing limited inspection services, shop drawing, change order and as-built drawing review, substantial completion and final inspections, and certification of completion of construction.

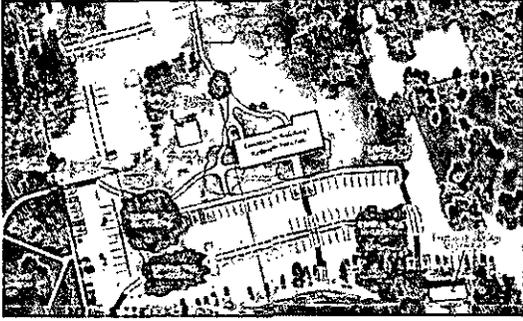
**Firm's Responsibility:** Site Planning, Engineering, Environmental Services, Permitting, Bidding and Construction Administration Services

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, 941-861.0841

**Completion Date:** 8/2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Amy E. Daly, Aaron Moore





## North Jetty Park Improvements

CPH was retained by Sarasota County for site planning, engineering, environmental services, permitting, and bidding/construction administration services for construction of a new restroom/concession building for the North Jetty beach Park. The project included the addition of new ADA parking and access, sidewalks, redesign of the parking lot, addition of a plaza, and stormwater treatment system.

In addition, these improvements are seaward of the CCCL (Coastal Construction Control Line) and are working with the FDEP to obtain construction permits for the improvements seaward of the CCCL.

Work included investigation of site constraints, modeling of projects water and wastewater, analysis of existing lift stations, preparing a water study based on similar projects, development of Low Impact Design (LID) elements including the design of a rainwater collection cistern, stormwater engineering, and site improvements. The constraints analysis included aspects such as coastal construction regulations, flood elevations, protected species survey, wetland and protected habitat delineation, and geotechnical investigation.

CPH is responsible for completing applications and obtaining site plan approval from Sarasota County and Coastal Construction and Environmental Resource Permits from the Florida Department of Environmental Protection for improvements seaward of the CCCL.

CPH was retained by the County to perform limited inspection services, shop drawing review, post design services, attendance at progress meetings, as-built drawings, clearance letter, certification of completion of construction, substantial completion and final inspections, review of change orders, and negotiation assistance for changes in the work.

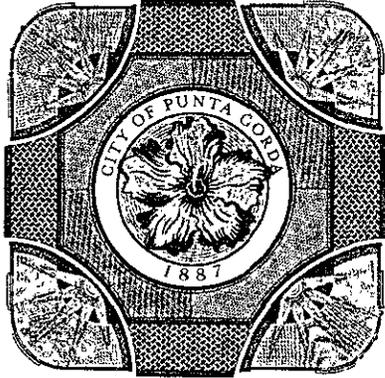
**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** Sarasota County, Ms. Kimberly Humphrey, 941-861.0841, email:khumphre@scgov.net

**Completion Date:** Projected to be 11/11

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Amy E. Daly, Aaron Moore





## **Punta Gorda Linear Park/Multi-Use Trail - Phases II and III**

CPH provided design services for Phases II and III of a three phase linear park in Punta Gorda. The project runs along a tidal creek within the easement of the old Seaboard Coastline Railroad right-of-way from the Peace River to Cross Street (U.S. 41). CPH provided landscape architecture, survey, and engineering design services for the Phase II section from Shreve Street to Cross Street, a distance of 3040 linear feet.

The project included a 10' asphalt walking trail/bike path, rest/rain stations, lighting, accent paving design street crosswalks, pedestrian bridges over the creek where required, and appropriate site furnishings to include benches, water fountain, bollards, and trash cans

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Punta Gorda, M. Marian Howe, 941.575.3349, email: [mhowe@ci.punta-gorda.fl.us](mailto:mhowe@ci.punta-gorda.fl.us), 326 W. Marion Avenue, Punta Gorda, FL 33950

**Completion Date:** March 2010

**Project Manager and other Key Professionals:** James K. Winter, RLA, CLARB, LEED AP, Project Engineer, Amy Daly, LEED AP, Environmental Scientist

## **Ravenwood Drive/White View Parkway Multi-Purpose Trail**

CPH provided design services for a 0.55 mile, 8-ft wide concrete trail within the Ravenwood Drive right-of-way and a 0.75 mile, 12-ft wide asphalt trail within the White View Parkway right-of-way. The segment along Ravenwood Dr. required drainage analysis to maximize the remaining swale to maintain the City's conveyance system which doubles as part of the City's overall 100-yr flood storage. The segment along White View Pkwy included a meandering path to fit the trail within the existing land contours to minimize earthwork.

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Palm Coast, Carl L. Cote, R.A., Phone: 386-986-3748

**Completion Date:** Under Design

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Alabama Avenue Greenway

Alabama Avenue Greenway project consists of a Local Agency Program (LAP) project between the Florida Department of Transportation and the City of DeLand. The project, currently near the end of the design phase, included the design of a 1.4 mile Shared Use Path from the City's Earl Brown Park to the City's Painters Pond Park located near the southern property line of Stetson University.

The project also included a second study phase from the northern termini of the design phase, approximately 5 miles, to the City's Sperling Sports Complex. The design phase required reviewing the trail study prepared for FDOT by another engineering company, and modifying the alignment and trail width to fit within the City's existing Rights-of-Way. Portions of the project were located on the City's existing property, while other areas travel through some the historic neighborhoods with limited right-of-way. The areas with narrow right-of-way required narrowing the existing roadway, and overlaying portions of the existing road to provide adequate drainage without adding additional structures. This not only saved money by avoiding additional structures and pipe, but also saved a lot of time by eliminating the need to open cut the existing road to install these structures.

**Firm's Responsibility:** Design and Landscape Architecture

**Project Owner:** City of DeLand, Keith D. Riger, P.E. Phone: (386) 626-7197

**Completion Date:** 3/2011

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore

## Palmetto Avenue

The City of Sanford asked CPH to provide them with a design for the renovation of Palmetto Avenue between 2nd and 3rd Streets. The renovations are to match adjacent streetscape improvements on 1st and 2nd streets. CPH is proceeding with preliminary design drawings, and will be providing construction drawings pursuant to the City's review of the preliminary drawings. Improvements will include the incorporation of the new brick pavers and the introduction of a paver utility strip to house the underground electric for the proposed pedestrian scale lighting fixtures. Landscape bump-outs will also be incorporated into the design for traffic calming and safer pedestrian street crossings. Drawings will specify street furniture, including benches, trash receptacles, ash tray receptacles, and bicycle bollards. The landscaping will be designed using proven hardy plant material with accented areas of color based on Xeriscape techniques. CPH is also responsible for the irrigation design. Drip irrigation will be used to best manage the Cities water resources.

**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Sanford (CRA District), Mr. Bob Tunis, Phone: (407) 330-5607

**Completion Date:** Under Design

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Oleander Avenue

The Oleander Avenue extension project consists of the construction of approximately 1000-ft of new 2 lane road between two existing streets in order to improve access to residential areas, including an elementary school, within the City of Sanford. Prior to project kickoff, CPH prepared renderings of the road alignment, proposed intersections, and traffic calming features and attended community meetings that were held in order to receive public feedback on the project prior to moving forward with the design and permitting.

CPH's services included preparation of the public meeting invitation and coordinating with City staff and the City Commission prior to and after the community meeting. The project also includes surveying, environmental investigations, geotechnical investigations, the design of a stormwater collection system, incorporating stormwater improvements on existing streets, landscape and irrigation, and the design of a new traffic circle at the intersection of Oleander Avenue and Country Club Drive.

**Firm's Responsibility:** Surveying, Environmental, Geotechnical, Design, and Landscape Irrigation

**Project Owner:** City of Sanford (CRA District), Mr. Bob Tunis, Phone: (407) 330-5607

**Completion Date:** Under Design

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM



## Lake Monroe Trail

CPH prepared the design for a 12' wide multi-purpose trail approximately 2.4 miles in length which winds through wetlands, wooded uplands and open pasture land. Designs of elevated wooden boardwalks were provided to reduce impact to existing wetlands. The Trail begins at Lake Monroe Park and terminates at Gemini Springs Park. The project included preparation of construction documents, coordination and permitting with the Water Management District as well as the Division of Historical Resources and CEI Services.

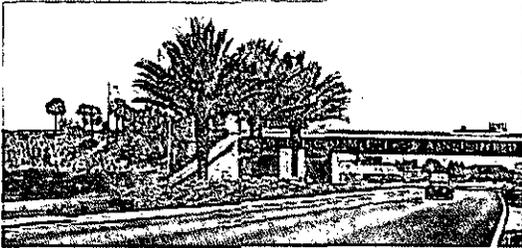
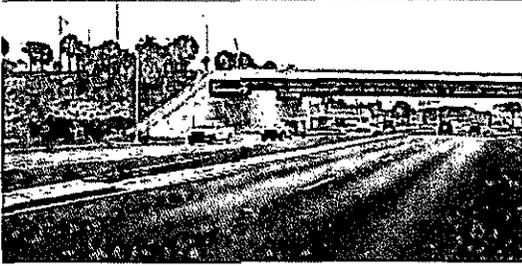
**Firm's Responsibility:** Design and Permitting

**Project Owner:** Volusia County, Mr. Bill Apgar, Phone: (386) 943-7027 Ext. 3287

**Completion Date:** 2/2006

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Thomas J. Galloway, PSM, Randall L. Roberts, PSM, Amy E. Daly, Aaron Moore





## Sanford's 17-92 Beautification

The City of Sanford contracted with CPH to prepare plans for the beautification of the stretch of 17-92 between Airport Blvd and Park Avenue. This one mile stretch of road will function as a beautiful welcome to the city of Sanford for travelers headed north bound into the city from points south and those exiting the 417 expressway. This streetscape project, a joint effort led by the city of Sanford, in coordination with Seminole County and FDOT and made possible with funding by the U.S. 17-92 Community Redevelopment Agency, will add new life to a portion of this heavily used and vital commercial corridor. The scope of the project will include the installation of gracious shade trees, grand and dramatic palms near the 417 bridge, colorful accent trees and a variety of ground covers rich in texture and color.

The existing standard concrete light poles in the medians will be replaced with decorative metal light poles and acorn fixtures in keeping with the old world style of those found on First Street and elsewhere in the City. Decorative brick pavers will accent the ends of each median replacing the standard concrete median dividers as the finishing touches to this makeover. CPH completed the design in late 2009 and construction is anticipated to be completed by the summer of 2010.

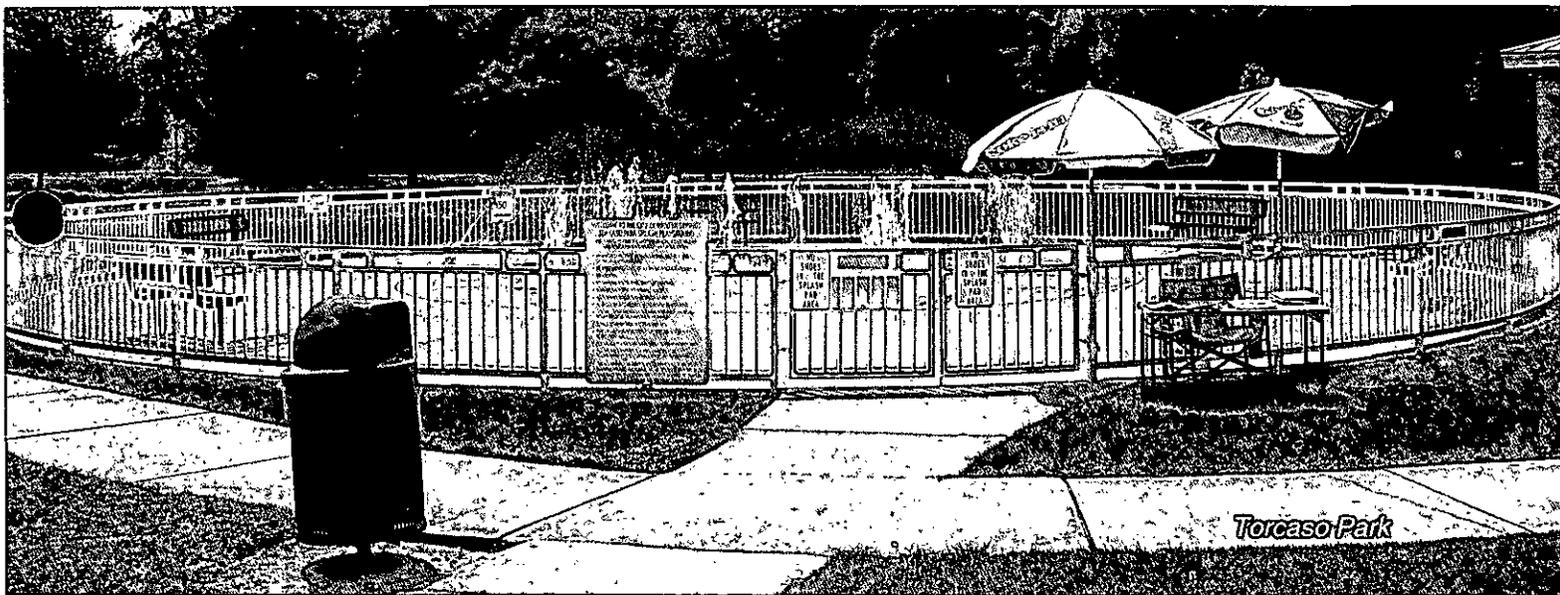
**Firm's Responsibility:** Design, Landscape Architecture, Architecture, and Engineering

**Project Owner:** City of Sanford (CRA District), Mr. Bob Tunis, Phone: (407) 330-5607

**Completion Date:** 7/2010

**Project Manager and other Key Professionals:** David A. Gierach, P.E., CGC, James K. Winter, RLA, CLARB, Galen J. Pugh, RLA, AICP, Gene Miller, Thomas J. Galloway, PSM, Randall L. Roberts, PSM





## C. Willingness to Meet Schedule and Budget Requirements

CPH has ample staff available to perform projects on time and within budget for Leon County. The team has extensive in-house capabilities to take on multiple projects and provide a variety of services concurrently to ensure quality and on-time projects.

### Methods and Controls to be Utilized to Balance and Maintain Quality, Schedule and Budget

CPH is uniquely qualified to provide general engineering services for projects in the Parks and Recreation Department as assigned by Leon County. The team will be led by Jason Toole, P.E. He will serve as the County's immediate contact and will coordinate all projects and activities as the primary liaisons for Leon County and CPH.

The team, located at our Panama office, includes landscape architects, designers, architects, engineers, surveyors, environmental scientists and administrative personnel. CPH is currently finishing design services for other clients, but is actively seeking work for Panama staff. As a result, our staff is available

and has the capacity to perform projects as they are assigned, and CPH is committed to meeting budget and schedule requirements. Keys to the success of projects include:

- Open lines of Communication
- Knowledgeable Team Members
- Local and Available Staff
- Monthly Project Meetings
- Weekly Internal Meetings with Project Manager and Design Teams.
- Technical Review Committee that will assist in quality assurance and control



Authority for a particular project is delegated to the Project Manager for execution of the project work. A project team having previous experience on similar projects is assembled with leadership from the Project Manager. The Project Manager is the coordinator and point of contact person for the project, and is involved in the design of the project with the Landscape Architect. Normally one Landscape Architect is assigned specifically to the project with assistance provided by other Landscape Architects and Designers. The Landscape Architect provides and coordinates the design with technicians and drafting personnel and other consultants.

Initially, the members of the team are assembled and briefed on the scope of the project, the budget and possible constraints. This initial meeting is used to establish the basic project approach, to establish the direction of the work, and to give all members of the team an opportunity to visualize the whole project. Once the objective is established, the tasks are assigned to each team member and input from the team is solicited. Project approach is discussed and the format for production is determined (i.e., AutoCAD, coordination with subconsultants, etc.). CPH typically works with Microsoft Office and the latest version of AutoCAD, but also routinely works within ArcGIS and can produce documents in Adobe.pdf format.

All projects are reviewed throughout the design phase. After the design team is assembled and the initial design team meeting is held, an internal review meeting is held with at least one of the firm Principals and one or more Project Managers. These individuals are not personally involved with the

project, but are utilized to provide a fresh, outside view to the project approach. The project team presents the project to review team members for their evaluation. Follow-up meetings are held at the 30%, 60%, and 90% completion points to help assure that the project is proceeding correctly. On a more complex project, the follow-up meetings consist of an actual review of the plans and specifications. These meetings also serve as Value Engineering meetings. With regard to coordination methods, we have an excellent record with our clients. Project quality is of utmost importance to us and is not sacrificed due to time constraints or workload.

CPH's design services are carefully budgeted at the beginning of the project. We attempt to divide the job into its various tasks and estimate amounts of labor and expenses needed for each. We have an in-house computerized cost control system capable of providing the Project Manager with current job costs, as obtained through entry of weekly time sheets. The original budget is used as a guide to determine progress and efficiency by checking hours expended versus hours budgeted. The budget is also used to plan the needed level of manpower to complete the job on time.

In addition to engineers and construction personnel, the team has the added value of having on-staff licensed general and utility contractors that can review projects from various perspectives. With experienced personnel that have provided construction services for over 30 years, this enables us to review the project from a constructability and/or mean and methods view point. In addition, the licensed on staff contractors review projects and provide "real-time" cost estimates throughout the duration of the project. This construction experience allows the team to view these projects through the eyes of a contractor with the ability to identify intangible cost factors/elements such as restricted site conditions, specialized equipment requirements, excessive material and labor costs, impacts on schedules, etc. that may not be apparent to the design engineer.

Our Independent Quality Assurance Program will be led by Mr. David Gierach, P.E., CGC. Mr. Gierach has over thirty (30) years of design and construction experience and has an excellent working knowledge of various technologies and construction techniques. Additionally, He is a licensed general contractors, which will assist the team in evaluating "real-time" construction reviews of the design throughout the duration of the project. This QC management staff will monitor the program for quality assurance in accordance with the contract.

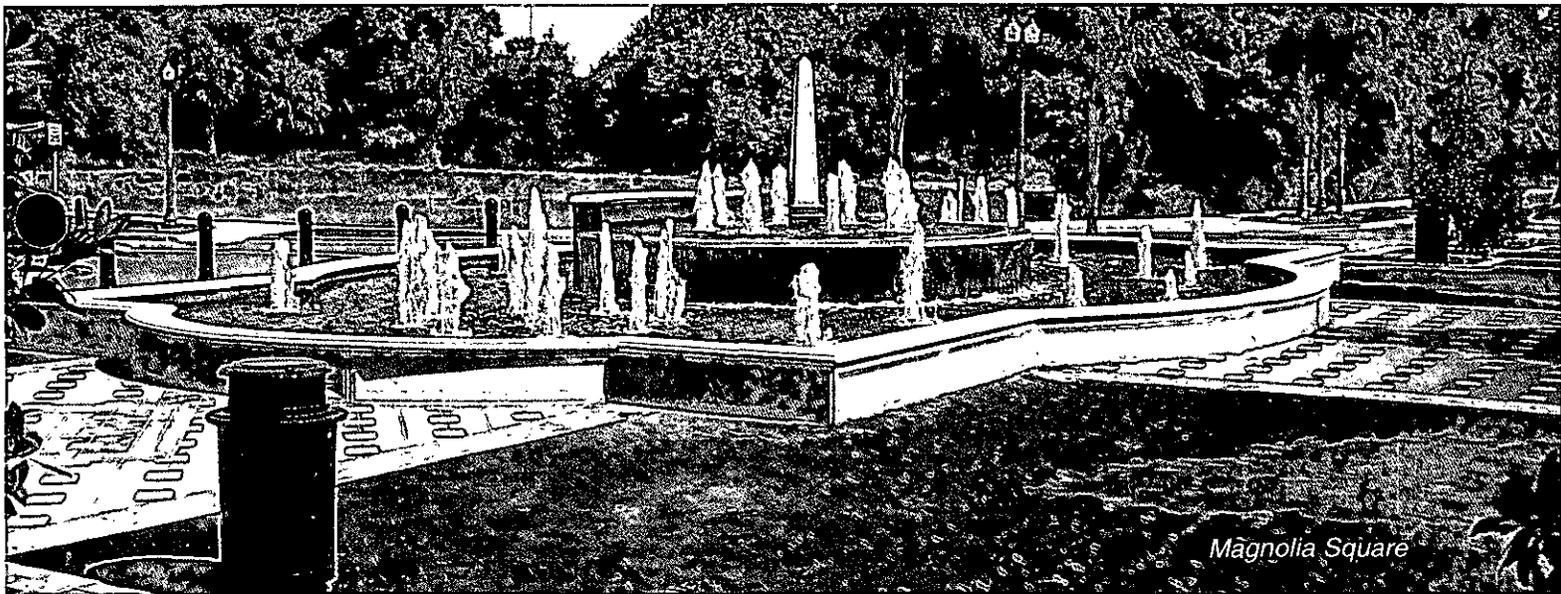




## D. Effect of Firm's Recent, Current and Projected Workload

### 1. Current Contracts

Name of Project	Description	Anticipated Completion Date
Panama City Sam's Club	Sam's Club Expansion	9-19-2011
Destin Wal-Mart	New Wal-Mart Supercenter	5-9-2011
Gulf Breeze Neighborhood Market	Takeover of Existing Bruno's Grocery	3/1/2012
Panama City Expansion	Wal-Mart supercenter Expansion	3/1/2012
Southwood McDonald's	New McDonald's Restaurant	5/15/2011

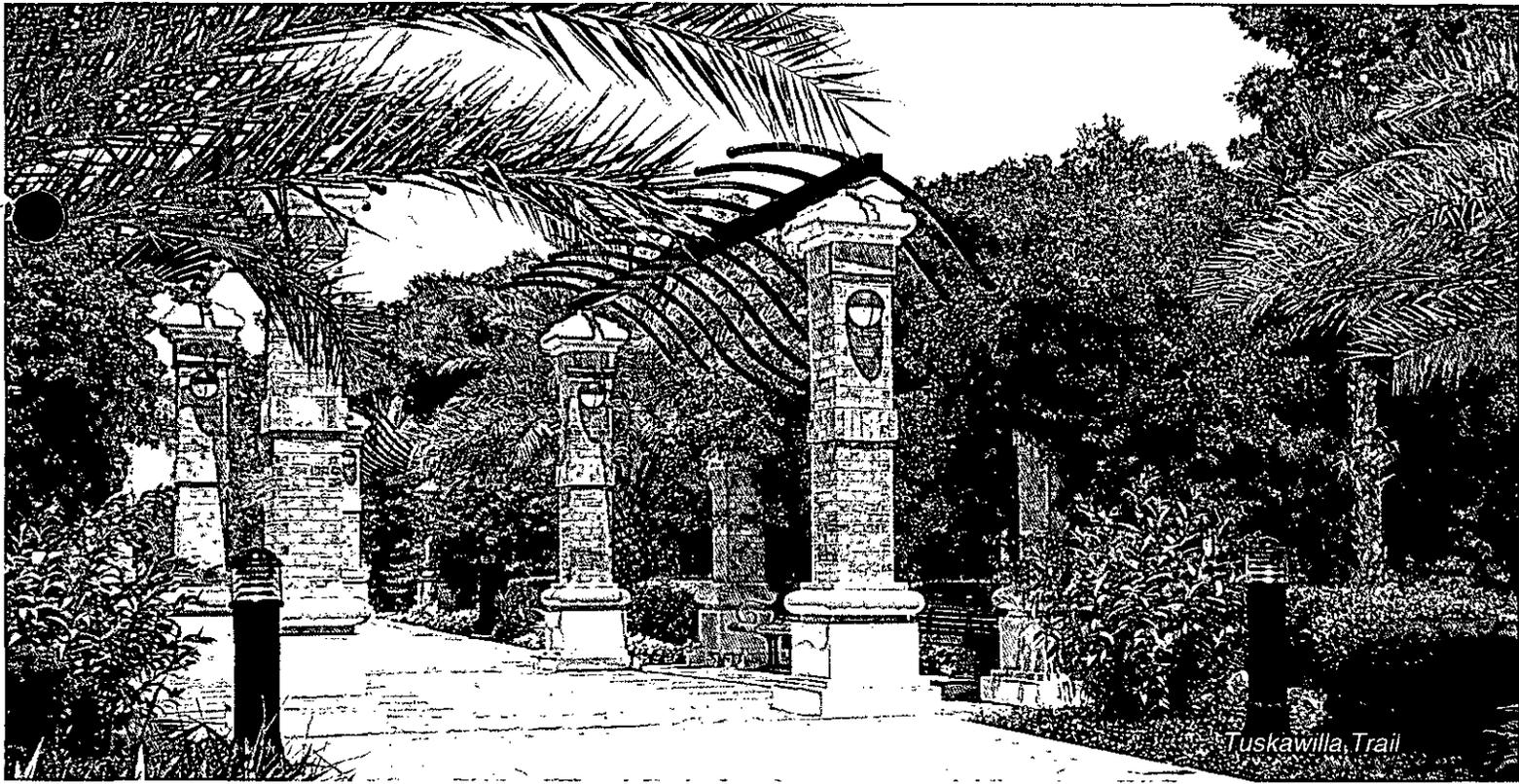


## 2. Firm's Ability to Absorb Any Projects

### Methods and Controls to be Utilized to Balance and Maintain Quality, Schedule, and Budget

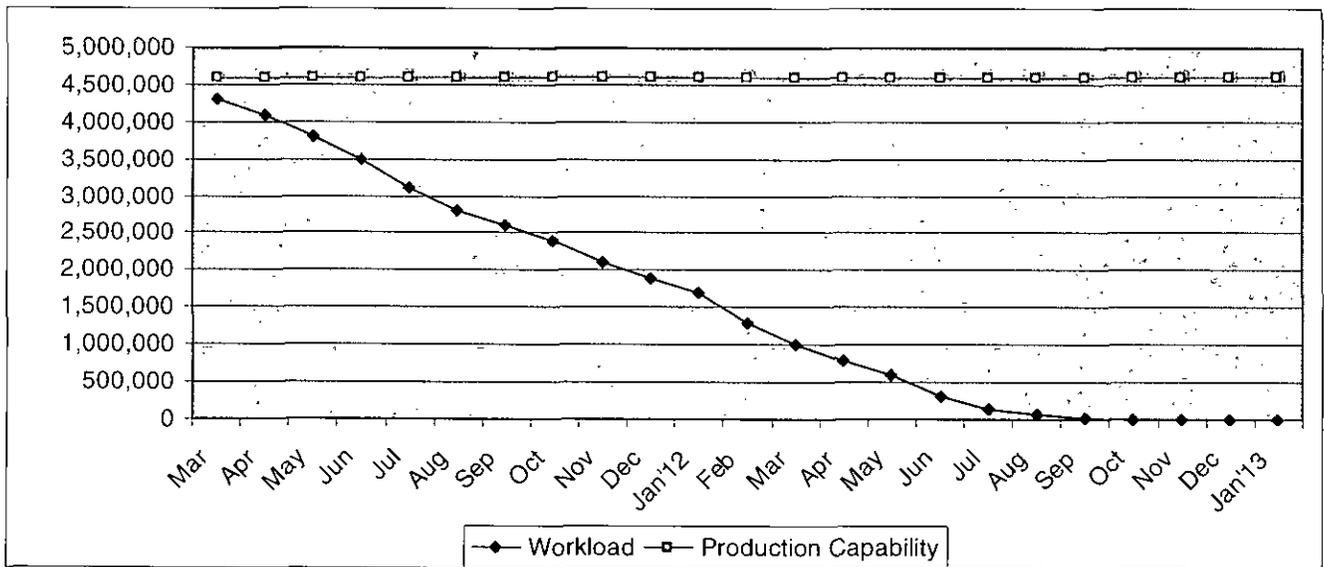
CPH is uniquely qualified to provide design services for Leon County. The team located in our Panama office includes landscape architects, designers, engineers, surveyors, environmental scientists and administrative personnel. CPH is currently finishing design services for other clients, but is actively seeking work for our Panama staff. As a result, our staff is available and has the capacity to perform projects as they are assigned. CPH is committed to meeting budget and schedule requirements. CPH has developed a reputation for cost effective, quality-engineering services through a philosophy of strong project management. Operating under aggressive deadlines and close coordination with County Staff, we commit to manage each work assignment under this contract based upon the following philosophies:

- By proposing a project manager with experience working in Leon County
- Frequently involve County staff in meetings to expedite decision-making.
- Utilize e-mail and short memoranda to document progress of construction. Report status of the budget on a monthly basis in report form to County Staff.
- Prepare and distribute a Project Specific Workplan which details the following:
  - What is to be done – Define a scope of services by bringing in the stakeholders up front to discuss the project goals and objectives.
  - Who is going to do it – Monitor staffing usage, needs and expenditures bi-weekly through our accounting software.
  - When will it be done – Maintain the Project Schedule using Microsoft Project software for scheduling and tracking.
  - How much will it cost – Monitor the estimated construction cost using trend reports prepared monthly and based on the most up-to-date data available from published prices and any known quantity revisions for the past month.
  - How it will be controlled – CPH will strive to provide quality service within the project schedule and require Quality Assurance/Quality Control (QA/QC) procedures to be identified in the initial internal project kick-off meeting. Time for QA/QC is incorporated into the project schedule, therefore, will not delay project milestones. CPH has developed an extensive QA/QC procedure and incorporates it into each of its projects to ensure client satisfaction.

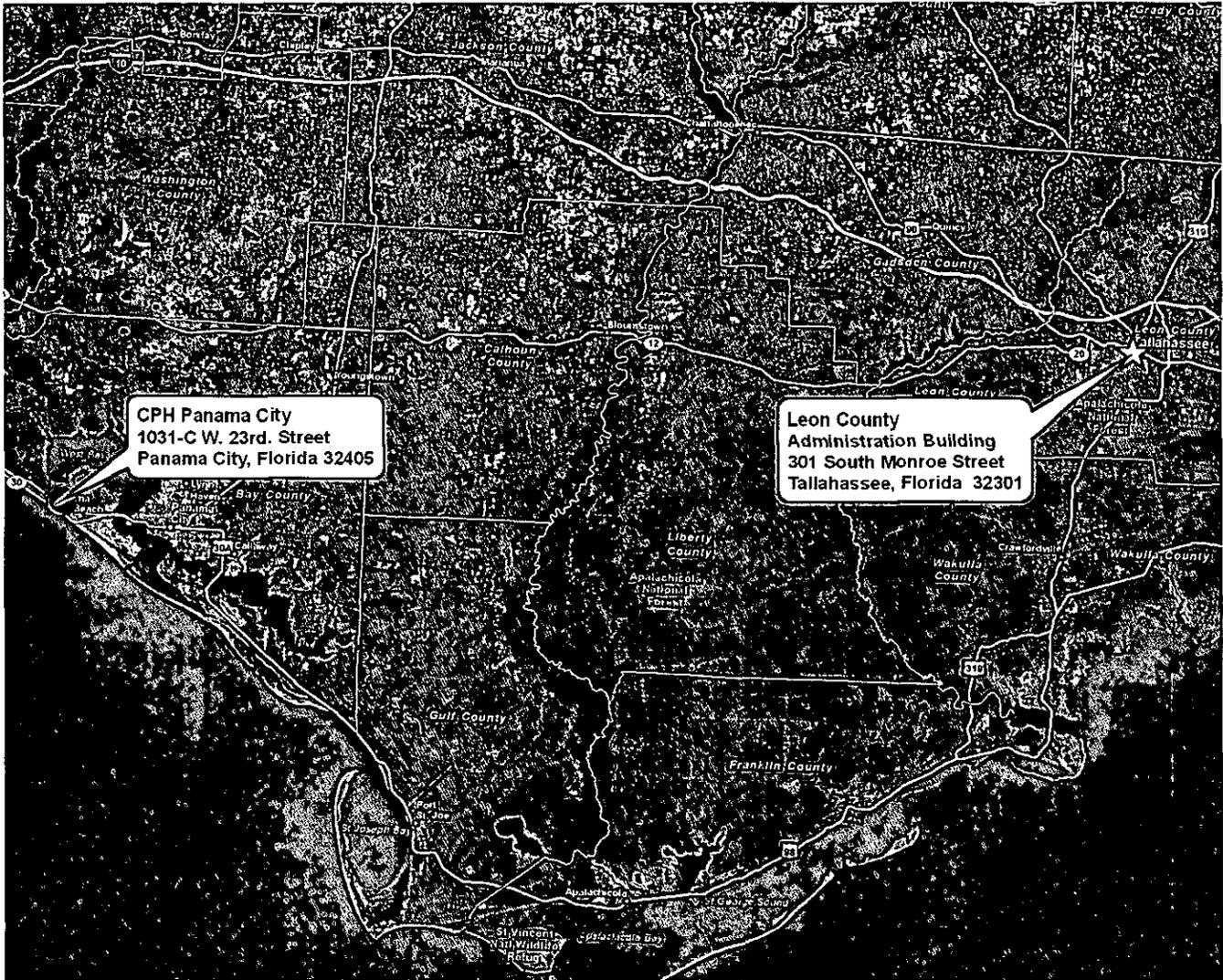


**Corporate Workload/Availability**

The current and projected workload of our team is such that we can provide responsive service to Leon County. We are well-staffed, equipped with our nearby location, and believe that we and our team members can provide a high quality, professional service to the County that is completely responsive and cost effective. The graph below depicts our current contracted backlog with no consideration for any additional work. The current workload will spread over 18 months. Our current production capability is \$4,600,000 per month. With that capacity, there are more than adequate personnel hours to cover the workload.



## E. Effect of Project Team Location



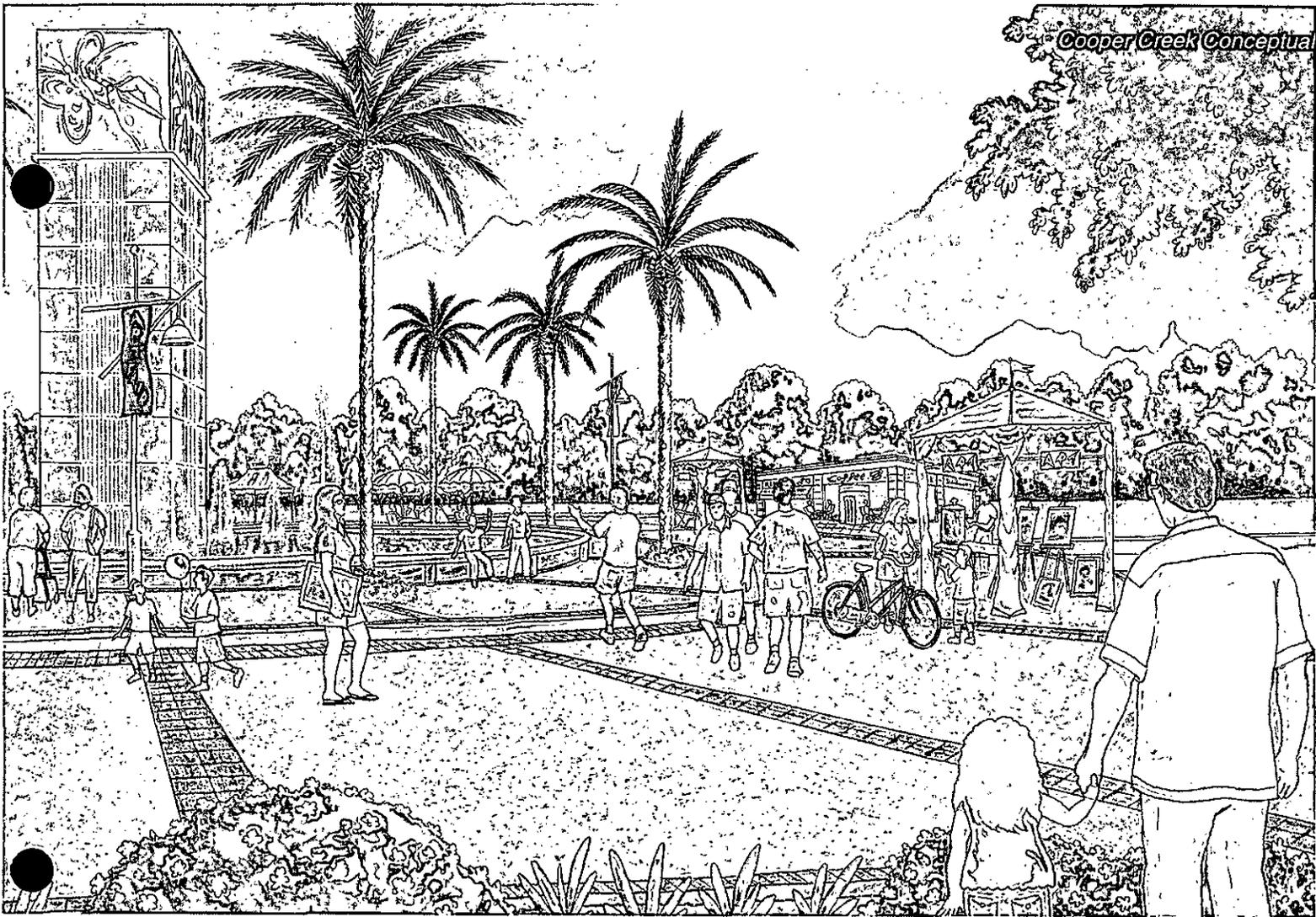
CPH Panama City  
1031-C W. 23rd. Street  
Panama City, Florida 32405

Leon County  
Administration Building  
301 South Monroe Street  
Tallahassee, Florida 32301

Office Location	Approximate Distance From Leon County Offices
CPH Panama	96 Miles

CPH has eleven (11) offices in the State of Florida with support of approximately 240 personnel throughout the company to assist in the projects for Leon County. **The County will have the direct commitment of the CPH located at 1031-C W 23<sup>rd</sup> Street, Panama City, FL, 32405.** The Panama office is staffed with employees that include registered personnel, administrative staff, and owners of the firm to accomplish the projects on time and within budget.





## F. Approach to the Project

The CPH team has reviewed the Request for Proposals for Park and Recreation Design Services and believes that we understand the County's needs anticipated under this contract. Key tasks will include;

- Project Kick-Off meeting to introduce team and review project goals and objectives.
- Review of Master Plan Documents including the site inventory and analysis documents.
- Review and update the environmental assessments
- Present jurisdictional permitting agencies.
- Prepare a scope of services for the selection of a Construction Manager. It will be important to have the Construction Manager on the team early, to coordinate value engineering items early in the design process.
- Interview County Staff to develop design standards and an architectural vernacular.
- Preparation of schematic design drawings and cost estimates.
- Develop a project phasing plan based on cost analysis of the schematic plan and community priorities.
- Preparation of design development documents and cost estimates.
- Preparation of construction documents, including drawings and specifications.
- Permit submittal, and responses to comments. A permitting package prepared and sent to the regulatory agencies. Meetings will be conducted with the Regulatory agencies and their

comments will be addressed Final permitting will be accomplished and agency comments will be incorporated into the plans.

- Bidding assistance.
- Construction Administration - CPH will receive, review and approve the contractor's submittals such as shop drawings and progress payments. The review of the contractor submittals will be handled in a timely manner.

This project approach is typical of the approach used on many of CPH's projects. We realize each project is unique and may need to adapt to meet more specific needs as they are uncovered; however, the principals of good project management remain the same and are repeated project to project.

