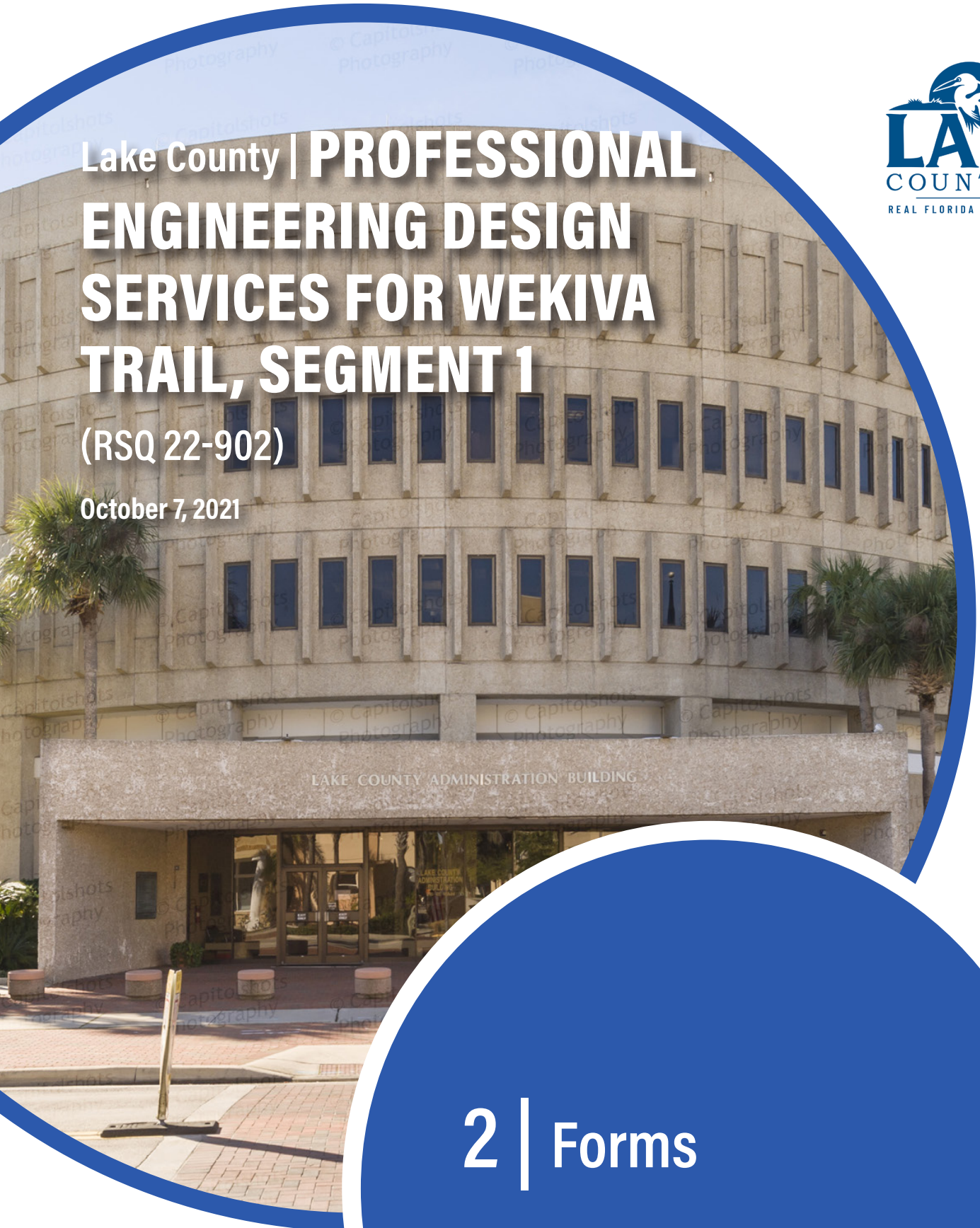
Lake County | **PROFESSIONAL ENGINEERING DESIGN SERVICES FOR WEKIVA TRAIL, SEGMENT 1**

(RSQ 22-902)

October 7, 2021



LAKE COUNTY, FL
REAL FLORIDA · REAL CLOSE

2 | Forms

WGI

ATTACHMENT 1 – SUBMITTAL FORM **22-902**

The undersigned hereby declares that: WGI, Inc. has examined and accepts the specifications, terms, and conditions presented in this Solicitation, satisfies all legal requirements to do business with the County, and to furnish **Professional Engineering Design Services for Wekiva Trail, Segment 1** for which Submittals were advertised to be received no later than 3:00 P.M. Eastern time on the date stated in the solicitation or as noted in an addenda. Furthermore, the undersigned is duly authorized to execute this document and any contracts or other transactions required by award of this Solicitation.

1.0 TERM OF CONTRACT

The Contract will commence upon the first day of the next calendar month after Board approval, or related Notice to Proceed. The Contract remains in effect until completion of the expressed and implied warranty periods. The County reserves the right to negotiate for additional services/items similar in nature not known at time of solicitation.

2.0 METHOD OF PAYMENT

The Contractor must submit an accurate invoice to the County's using department's email. The date of the invoice must be after delivery but no more than 30 calendar days after delivery. Invoices must reference the: purchase or task order; delivery date, delivery location, and corresponding packing slip or delivery ticket signed by a County representative at the time of acceptance. Failure to submit invoices in the prescribed manner will delay payment.

Payments will be tendered in accordance with the Florida Prompt Payment Act, Part VII, Chapter 218, Florida Statutes. The County will remit full payment on all undisputed invoices within 45 days from receipt by the appropriate County using department. The County will pay interest not to exceed 1% per month on all undisputed invoices not paid within 30 days after the due date.

All pricing will be FOB Destination unless otherwise specified in this solicitation document. Pricing submitted will remain valid for a ninety (90) day period.

Vendor accepts Mastercard for payment: YES

3.0 CERTIFICATION REGARDING LAKE COUNTY TERMS AND CONDITIONS:

I certify that I have reviewed the General Terms and Conditions for Lake County Florida and accept the Lake County General Terms and Conditions dated 5/6/21 as written including the Proprietary/Confidential Information section. YES Failure to acknowledge may result in Submittal being deemed non-responsive.

4.0 CERTIFICATION REGARDING FELONY CONVICTION:

Has any officer, director, or an executive performing equivalent duties, of the bidding entity been convicted of a felony during the past ten (10) years? NO

5.0 CONFLICT OF INTEREST DISCLOSURE CERTIFICATION:

Except as listed below, no employee, officer, or agent of the firm has any conflicts of interest, real or apparent, due to ownership, other clients, contracts, or interests associated with this project; and, this Submittal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same services, and is in all respects fair and without collusion or fraud. None

6.0 CERTIFICATION REGARDING BACKGROUND CHECKS:

Under any County Contract that involves Contractor or subcontractor personnel working in proximity to minors, the Vendor hereby confirms that any personnel so employed will have successfully completed an initial, and subsequent annual, Certified Background Check, completed by the Contractor at no additional cost to the County. The County retains the right to request and review any associated records with or without cause, and to require replacement of any Contractor employee found in violation of this requirement. Contractor shall indemnify the County in full for any adverse act of any such personnel in this regard. Additional requirements may apply in this regard as included within any specific contract award. YES

7.0 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

The County does not establish specific goals for minority set-asides however, participation by minority and non-minority qualified firms is strongly encouraged. If the firm is a minority firm or has obtained certification by the State of Florida, Office of Supplier Diversity, (OSD) (CMBE), please indicate the appropriate classification(s) not applicable not applicable
and enter OSD Certification Number N/A
and enter effective date N/A to date N/A

8.0 RECIPROCAL VENDOR PREFERENCE:

Vendors are advised the County has established, under Lake County Code, Chapter 2, Article VII, Sections 2-221 and 2-222; a process under which a local vendor preference program applied by another county may be applied in a reciprocal manner within Lake County. The following information is needed to support application of the Code:

A. Primary business location of the responding Vendor: Orlando, FL
B. Does the responding vendor maintain a significant physical location in Lake County at which employees are located and business is regularly transacted: NO If "yes" is checked, provide supporting detail: N/A

9.0 GENERAL VENDOR INFORMATION:

Firm Name: WGI, Inc.

Street Address: 800 N. Magnolia Avenue, Suite 1750

City: Orlando State and ZIP Code: FL 32803

Mailing Address (if different): same

Telephone: 407.581.1221 Fax: 407.521.1222

Federal Identification Number / TIN: 65-0271367

DUNS Number: 938414349

10.0 SUBMITTAL SIGNATURE:

I hereby certify the information indicated for this Submittal is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an authorized representative of this Vendor and/or empowered to execute this Submittal on behalf of the Vendor. I, individually and on behalf of the Vendor, acknowledge and agree to abide by all terms and conditions contained in this solicitation as well as any attachments, exhibits, or addenda.

Name of Legal Representative Submitting this Proposal: *Nancy Clements, PE*

ATTACHMENT 1 – SUBMITTAL FORM **22-902**

Date: 9/22/2021
Print Name: Nancy Clements, PE
Title: Senior Vice President | Principle In Charge
Primary E-mail Address: Nancy.Clements@WGInc.com
Secondary E-mail Address: N/A
The individual signing this Submittal affirms that the facts stated herein are true and that the response to this Solicitation has been submitted on behalf of the aforementioned Vendor.

[The remainder of this page is intentionally blank]

SunBiz Registration

Sunbiz.org Division of Corporations — an official State of Florida website

Detail by Entity Name

Florida Profit Corporation
WGI, INC.

Filing Information

Document Number	S66593
FEI/EIN Number	65-0271367
Date Filed	07/12/1991
State	FL
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	12/17/2020
Event Effective Date	NONE

Principal Address

2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Changed: 01/09/2017

Mailing Address

2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Changed: 01/09/2017

Registered Agent Name & Address

FONTAINE, KATE
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Name Changed: 11/09/2018

Address Changed: 11/09/2018

Officer/Director Detail

Name & Address

Title CHAIRMAN EMERITUS

WANTMAN, JOEL
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title VP LAND DEVELOPMENT

BROPHY, JEFFREY N
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title VP TRANSPORTATION

CLEMENTS, NANCY A
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title DIRECTOR - ARCHITECTURE

Luttmann, Eric
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title PRESIDENT

SAUTER, GREGORY
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title CEO

WANTMAN, DAVID
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title SURVEY MANAGER

SLAYMAKER, JEREMIAH
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title SECRETARY

Fontaine, Kate
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title SVP - GEOSPATIAL

HANSON, ROBERT
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Title DIRECTOR - OPERATIONS

DeBosier, Kim
2035 VISTA PKWY
WEST PALM BEACH, FL 33411

Annual Reports

Report Year	Filed Date
2021	01/07/2021
2021	06/09/2021
2021	08/05/2021

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
WGI, Inc.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☑ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
Exempt payee code (if any) 5
Exemption from FATCA reporting code (if any)
(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
2035 Vista Parkway

Requester's name and address (optional)

6 City, state, and ZIP code
West Palm Beach, FL 33411

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number
[ ][ ][ ] – [ ][ ] – [ ][ ][ ][ ]

or

Employer identification number
6 5 – 0 2 7 1 3 6 7

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person ▶ [signature] Date ▶ 1/4/2021

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9.*

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

Cat. No. 10231X Form **W-9** (Rev. 10-2018)

Addenda Acknowledgment

ADDENDUM NO. 1 **22-902**

Office of Procurement Services
P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICTATION: Professional Engineering Design Services / Wekiva Trail Segment 1 09/24/2021

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THIS ADDENDUM DOES NOT CHANGE THE DATE FOR RECEIPT OF PROPOSALS.

QUESTIONS/RESPONSES

Q1. Can you provide a link to previous firms' proposals submitted for the Professional Engineering Design Services for Wekiva Trail?

R1. Interested vendors should please note that the information that was provided received proposals for the previous solicitation, 17-0012, are irrelevant to this solicitation and that the scope has changed. Solicitation 17-0012 was never awarded. The previous solicitation submittals for 17-0012 can be found via this link:

https://lakecountyfl.gov/ftp/procurement/17-0012%20Submittals/

ACKNOWLEDGEMENT

Firm Name: WGI, Inc.

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

Signature of Legal Representative Submitting this Bid: *Nancy Clements, PE*

Date: 9/27/2021

Print Name: Nancy Clements, PE

Title: Senior Vice President | Principal In Charge

Primary E-mail Address: Nancy.Clements@WGInc.com

Secondary E-mail Address: N/A

Addenda Acknowledgment

ADDENDUM NO. 2 **22-902**

LAKE COUNTY, FL
REAL FLORIDA • REAL CLOSE
Office of Procurement Services
P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICTATION: Professional Engineering Wekiva Trail, Segment 1 10/01/2021

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THIS ADDENDUM DOES NOT CHANGE THE DATE FOR RECEIPT OF PROPOSALS.

QUESTIONS/RESPONSES

Q1. Attachment 2 states to include references/projects from within the last 5 years, but in the RFQ it states from the last 3 years.

R1. The projects must be from within the past five years

Q2. Under section 1 – vendor profile, the RSQ is asking for attachment 3 to be completed (reference form). Should that be attachment 2 since attachment 3 is the team composition form?

R2. Yes. That should reference Attachment 2, as that attachment is the References Form

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ACKNOWLEDGEMENT

Firm Name: WGI, Inc.

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

Signature of Legal Representative Submitting this Bid: *Nancy Clements, PE*

Date: 10/5/2021

Print Name: Nancy Clements, PE

Title: Senior Vice President | Principal In Charge

Primary E-mail Address: Nancy.Clements@WGInc.com

Secondary E-mail Address: N/A

Client#: 25411 WGIINC

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 7/28/2021

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 have ADDITIONAL INSURED provisions or 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 any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Carly Underwood	
Greyling Ins. Brokerage/EPIC 3780 Mansell Road, Suite 370 Alpharetta, GA 30022	PHONE (A/C, No, Ext): 770.670.5324	FAX (A/C, No):
	E-MAIL ADDRESS: carly.underwood@greyling.com	

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
WGI, Inc. 2035 Vista Parkway Suite 100 West Palm Beach, FL 33411	INSURER A : National Union Fire Ins. Co.	19445
	INSURER B : The Continental Insurance Company	35289
	INSURER C : New Hampshire Ins. Co.	23841
	INSURER D : Berkley Insurance Company	32603
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER: 21-22** **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	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			4613985	08/01/2021	08/01/2022	EACH OCCURRENCE	$2,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$500,000
							MED EXP (Any one person)	$25,000
							PERSONAL & ADV INJURY	$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$4,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$4,000,000
	OTHER:							$
A	AUTOMOBILE LIABILITY			9775972	08/01/2021	08/01/2022	COMBINED SINGLE LIMIT (Ea accident)	$2,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
B	X UMBRELLA LIAB X OCCUR			6049958687	08/01/2021	08/01/2022	EACH OCCURRENCE	$5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$5,000,000
	DED X RETENTION $10,000							$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		011569886	08/01/2021	08/01/2022	X PER STATUTE / OTH-ER	
							E.L. EACH ACCIDENT	$1,000,000
							E.L. DISEASE - EA EMPLOYEE	$1,000,000
							E.L. DISEASE - POLICY LIMIT	$1,000,000
D	Professional liab incl Pollution			AEC904648402	08/01/2021	08/01/2022	Per Claim $5,000,000 Aggregate $5,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RSQ 22-902 Professional Design Services for Wekiva Trail, Segment 1
Certificate holder is granted additional insured status by the General Liability and Auto Liability policies on a primary and non-contributory basis. Waivers of Subrogation are provided in favor of certificate holder for General Liability, Auto Liability and Workers' Compensation. Thirty (30) day written notice of cancellation, ten (10) days for non-payment of premium is provided. The insurance evidenced by this certificate contains Cross Liability & Severability of interests provisions.

CERTIFICATE HOLDER

Lake County, a Political Subdivision of the State of Florida and the Board of County Commissioners
P.O. Box 7800
Tavares, FL 32788-7800

CANCELLATION

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

Attachment 3 – Team Composition Form

ATTACHMENT 3 - TEAM COMPOSITION

22-902

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge	Nancy Clements, PE	Orlando, Florida	PE54923
Project Manager	Henri Belrose, PE	Orlando, Florida	PE56761
Deputy Project Manager	Lillian "Lilli" O'Steen, EI	Ocoee, Florida	EIT027684
QA/QC Manager	Dale "Lee" Dowden, PE, LEED AP	Tampa, Florida	PE46582
Roadway | MOT	George Knox, PE	Orlando, Florida	PE82283
Roadway | MOT	Ryan Owens, EI	Mount Dora, Florida	1100023873
Roadway | MOT	Maria Bolivar	Oviedo, Florida	N/A
**SEE ADDITIONAL STAFF	ON FOLLOWING PAGE**		

SUB CONSULTANTS

ROLE	Company Name	Address	Individual's Name Assigned	Projected % of Overall Work	Worked with Prime before (YES/NO)	Individual Worked with Prime before (YES/NO)
Environmental Permitting	Environmental Science Associates	5401 South Kirkman Road, 475	Sandra "Sandy" Scheda	8%	YES	YES
		Orlando, Florida 32819	Tori Kuba			
Geotechnical | Contamination	Geotechnical and Environmental	919 Lake Baldwin Lane	Craig Ballock, PE	8%	YES	YES
	Consultants, Inc.	Orlando, Florida 32814	Richard McCormick, PG			
Public Involvement	Global-5, Inc.	2180 West SR 434, Suite 1150	John Hamill	7%	YES	NO
		Longwood, Florida 32779	Chris Patton			
Cultural Resources	SEARCH, Inc.	3117 Edgewater Drive	Mikel Travisano, MS	8%	YES	YES
		Orlando, Florida 32804	Angela Matusik, MA			

Attachment 3 – Team Composition Form

ATTACHMENT 3 - TEAM COMPOSITION 22-902

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			
Structures	Sarah Moore, PE, LEED AP	Jacksonville, Florida	PE80643
Structures	Carlos Campos, PE	Jacksonville, Florida	PE78425
Drainage	Murray Santoro, PE	Windermere, Florida	PE66065
Drainage	Michael Almeida, EI	Casselberry, Florida	1100024615
Drainage	Jackson Glover, EI	Orlando, Florida	1100024151
Traffic and Safety Analysis	William "Acey" Roberts, PE	Tampa, Florida	PE82914
**SEE ADDITIONAL STAFF	ON FOLLOWING PAGE**		

ATTACHMENT 3 - TEAM COMPOSITION 22-902

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			
Signing and Pavement Markings	Henri Belrose, PE	Orlando, Florida	PE56761
Signing and Pavement Markings	Ryan Owens, EI	Orlando, Florida	1100023873
Lighting	Brett Fuller, PE	West Palm Beach, Florida	PE78486
Utility and Railroad Coordination	Christopher "Chris" Stermer	Hudson, Florida	N/A
Utility and Railroad Coordination	Sam Gonzalez	Riverview, Florida	N/A
SUE Survey	James "Shannon" Wright	Tampa, Florida	N/A
**SEE ADDITIONAL STAFF	ON FOLLOWING PAGE**		

ATTACHMENT 3 - TEAM COMPOSITION 22-902

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			
Survey and Mapping	Allen "Al" Quickel, PSM	Groveland, Florida	LS6481
Survey and Mapping	Eric Orndorff, PSM	Maitland, Florida	LS7248
Urban and Community Planning	Angela Biagi, PLA, LEED BD+C	West Palm Beach, Florida	LA6666787
Landscape Architecture	Christine Crespo Valentin, PLA	Tampa, Florida	LA6667421

PROJECT MANAGER

Henri **Belrose, PE**

REGISTRATIONS:
Professional Engineer: Florida #PE56761, 2001

Professional Engineer: North Carolina #032337, 2006

EDUCATION:
Bachelor of Science, Civil Engineering - Georgia Institute of Technology, 1996

AFFILIATIONS:
American Society of Civil Engineers

Florida Engineering Society, FES #9001837

Institute of Transportation Engineers

YEARS OF EXPERIENCE
TOTAL: 24
WITH WGI: 14

Henri is a vice president and senior project manager with WGI. He has worked on numerous transportation projects since 1997 and has an extensive and diverse background in project management, roadway design, cost estimating, specifications, and contract document preparation for FDOT and local municipalities. Henri excels at completing complex multi-discipline projects requiring detailed concepts and fatal flaw analysis.

RELEVANT EXPERIENCE

Taylor Road Shared-Use Path PD&E Study from US 41 to Airport Road, Charlotte County, FL, FDOT District 1, Project Manager. Henri was the project manager for this PD&E study and was responsible for overall project management of the team and subconsultants. The scope of this PD&E study was to evaluate pedestrian and bicyclist accommodations on a shared-use path along approximately 3.5 miles of Taylor Road in Punta Gorda (Charlotte County). The project was divided into two planned design segments—Segment 1, from Jones Loop Road to Airport Road, and Segment 2, from US 41 to Jones Loop Road.

Schofield Road from US 27 to Lake-Orange County Line, Lake County, FL, CEMEX, Project Manager. Henri was responsible for overall project management of the team and subconsultants. The project included reconstruction of Schofield Road from an existing dirt road to a two-lane rural collector roadway serving the primary access route for the CEMEX Four Corners Sand Mine. The total project length is five miles, beginning at US 27 and ending at the Lake-Orange County line. In coordination with Lake County, elements for a future four-lane divided typical section were incorporated into the design. At the county line, the design included an interim connection to the existing roadway and accommodations for the ultimate re-alignment of Schofield Road into Orange County. Stormwater management was permitted through SJRWMD. Design required extensive coordination with Water Conserv. II, a partnership between the City of Orlando and Orange County, who own a 30-inch reclaimed water main used for agricultural irrigation. The water main runs along most of the project limits.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Bay Bridge, Lee County, FL, FDOT District 1, Project Manager. Henri was responsible for overall project management of the team and subconsultants. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project involved reconfiguration of existing travel lanes to provide two inbound lanes to the beach and providing pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway was milled and resurfaced to accommodate new bicycle lanes. The temporary traffic control plan (TCP) was developed to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. Existing signals at Prescott Street/Buttonwood Drive will be converted from alternating signal function to conventional signal function. The scope included extension of ATMS along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. Extensive public involvement was coordinated with Town of Fort Myers Beach, Lee County, and LeeTran. Design of this project was conducted concurrent with the PD&E study.

FDOT District 1 DBPB (DBPB) Contract, Various Counties, FL, FDOT District 1, Program Manager. Henri was responsible for overall project management of the team and subconsultants. This task work order (TWO) driven DBPB contract included intersection improvements, Americans with Disabilities Act (ADA) upgrades, pedestrian/bicyclist safety improvements, turn lane widening/extension to increase capacity, access management median modifications, new intersection signalization and lighting, signal and lighting replacements, sidewalks, drainage and local flooding remediation, and roundabout modification. Other design services included S&PM, ITS, signal and overhead sign support structures, survey, utility coordination, subsurface utility investigation, and geotechnical support. Each TWO on this multi-year contract must be designed and constructed in under one year and with a $1M maximum design and construction budget. TWOs completed to date encompassed coordination with over a dozen city and county agencies across a 12-county geographic region.

SJR2C Loop Trail-Palmetto Avenue from Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Project Manager. Henri was responsible for overall project management of the team and subconsultants. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail. The trail will run along the east side of Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road for approximately 110-feet, connecting to the existing trail on the west side of Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, SUE services, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption.

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Project Manager. Henri was responsible for overall project management of the team and subconsultants. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. Wekiva Trail Segment 3 was designed and constructed as part of this project. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, environmental permitting, and gopher tortoise relocations.

Orlando South Ultimate Interchange PD&E, Orange County, FL, Florida's Turnpike Enterprise, Project Manager. Henri was responsible for overall project management of the team and subconsultants. This PD&E study evaluated alternative improvements to optimize the Turnpike Mainline/SR 528 (Beachline Expressway) interchange operations. Build alternatives included improved ramp directional service within the interchange, express lane direct connections between Turnpike Mainline and Beachline Expressway, improvements to the crossroads and other local street connections, consideration of new or revised interchange access points to existing or future connecting highways, and the necessary improvements along Turnpike Mainline to include structures spanning the Turnpike Mainline to accommodate a future 10-lane expansion for buffer-separated express lanes. Subconsultant services included interchange alternatives analysis, location hydraulic report, Pond Siting Report, survey, and utility coordination with over a dozen agencies, including Florida Gas Transmission (FGT). Subconsultant services also included an executed design-option for a new reliever interchange at Turnpike Mainline and Taft Vineland Road.

Suncoast Parkway at Lutz Lake Fern Road Interchange, Hillsborough County, FL, Florida's Turnpike Enterprise, Project Manager. Henri was responsible for project management as well as the roadway design elements. This design-build project included the design and construction of a new partial cloverleaf interchange connecting Lutz Lake Fern Road with the Suncoast Parkway in Hillsborough County. Because the County widening of Lutz Lake Fern Road coincided with the interchange project, close coordination was required to ensure the two projects successfully opened on time. The work included roadway design, drainage, permitting, survey, lighting, signalization, S&PM, and landscaping. The scope also included design of a trailhead parking lot on Lutz Lake Fern Road for Suncoast Trail.

US 41 (SR 45) at CR 865 (Gladiolus Drive) Pedestrian Signal Installation, Lee County, FL, FDOT District 1, Program Manager. Henri was responsible for overall project management of the team and subconsultants. As part of the District 1 DBPB contract, these TWO addressed safety improvements with the installation of a new pedestrian signal across the dual-eastbound right-turn lanes on US 41 at the intersection of US 41 (SR 45) at CR 865 (Gladiolus Drive) in Lee County. Elements of work included construction of the pedestrian signal, all necessary signal poles, detector assemblies and associated hardware, and pedestrian features as necessary to accommodate pedestrian traffic with minimum impact to the current vehicular traffic patterns.

Sligh Boulevard and Columbia Street Improvements, Orange County, FL, City of Orlando, Project Manager. Henri was responsible for overall project management of the team and subconsultants. The project included roadway reconstruction for replacement of water and wastewater mains. Water and wastewater replacement was permitted through FDEP. The roadway reconstruction included operational improvements at the intersections to accommodate future transit expansion and freight delivery. The rail crossing at Columbia Street was improved to facilitate the safe movement of people, vehicles, and trains within the corridor with a four-quadrant gate system. Sligh Boulevard was reconfigured to improve and accommodate turning movements for buses and freight vehicles. On-street parking was provided. The design included a raised crosswalk/intersection table at Sligh Boulevard and Copeland Street which improved ADA accessibility to the Orlando Amtrak station. Additional services included a value engineering study, design coordination with FDOT, decorative pedestrian lighting, ITS, streetscape and landscape design, utility coordination, and coordination with Orlando Utilities Commission (OUC) for expansion of a power duct bank along Columbia Street.

PRINCIPAL IN CHARGE

Nancy
Clements, PE

REGISTRATIONS:
Professional Engineer: Florida #PE54923, 1999

Structural Engineer: Massachusetts #37851, 1994

EDUCATION:
Bachelor of Science, Civil Engineering - Worcester Polytechnic Institute, 1989

Bachelor of Arts, Economics - Framingham State College, 1981

AFFILIATIONS:
American Council of Engineering Companies of Florida, Transportation Committee

Florida Engineering Society

WTS, Emerging Professionals Chair - CFL Chapter

YEARS OF EXPERIENCE
TOTAL: 32
WITH WGI: 14

Nancy serves as senior vice president, transportation, and as a member of the senior leadership team. Nancy has spent the past 30 years contributing to several challenging transportation and toll-road programs. She was a project manager for the design team on the Boston Central Artery Tunnel Project, the largest public works project in the U.S. at that time. Nancy also served as the planning and production director for Florida's Turnpike Enterprise for five years, the second-largest toll facility in the U.S. Her work for both organizations informs her big-picture thinking, style of management, and focus on people.

RELEVANT EXPERIENCE

Taylor Road PD&E Study from US 41 to Airport Road, Charlotte County, FL, FDOT District 1, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. The scope of this PD&E study was to evaluate pedestrian and bicyclist accommodations on a shared-use path along approximately 3.5 miles of Taylor Road in Punta Gorda (Charlotte County). The project was divided into two planned design segments—Segment 1, from Jones Loop Road to Airport Road, and Segment 2, from US 41 to Jones Loop Road.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail. The trail will run along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road for approximately 110 feet, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, SUE services, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption.

Schofield Road from US 27 to Lake-Orange County Line, Lake County, FL, CEMEX, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. Project included reconstruction of Schofield Road from an existing dirt road to a two-lane rural collector roadway serving the primary access route for the CEMEX Four Corners Sand Mine. The total project length is five miles, beginning at US 27 and ending at the Lake-Orange County line. In coordination with Lake County, elements for a future four-lane divided typical section were incorporated into the design. At the county line, the design included an interim connection to the existing roadway and accommodations for the ultimate re-alignment of Schofield Road into Orange County. Stormwater management was permitted through SJRWMD. Design required extensive coordination with Water Conserv. II, a partnership between the City of Orlando and Orange County, who own a 30-inch reclaimed water main used for agricultural irrigation. The water main runs along most of the project limits.

Pedestrian/Bicycle Bridge Concept Additional Services, Miami-Dade County, FL, City of Doral, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. This project included the development of design-build request for proposal (RFP) criteria for architecture and bridge aesthetics, utility coordination, and environmental documentation for a ped/bike bridge. Deliverables and specific RFP components included a bridge aesthetic manual, completed permitting applications, and utility documentation.

SR 45/US 41/N Florida Avenue at N Independence Highway Trail Connection Realignment, Citrus County, FL, FDOT District 7, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. This project was for the design of the realignment of the Withlacoochee Trail at the crossing at US 41/North Florida Avenue at North Independence Highway. The project included new trail approaches and pedestrian detector pushbuttons in advance of the trail crossing with North Independence Highway and relocation of existing pedestrian signal poles.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Metro Development Group, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. The Angeline Development is located in Pasco County south of SR 52 and east of the Suncoast Parkway. Sunlake Boulevard is the main road through the Angeline development from north to south. The project is in a community development district (CDD) and is part of the Connected City program. Phase 2A of the development includes 590-single family units and associated amenities on approximately 430 acres. This project will design and permit approximately four miles of the road from SR 52 to the future Collector Road south of the future Ridge Road alignment. The roadway section will include a four-lane divided urban curb and gutter (expandable to six lanes), with five-foot bike lanes, six-foot sidewalk (along one side-TBD), 12-foot multi-use path (along the opposite side) and five-foot communications easement adjacent to the multi-use path. The roadway design will also include the design of several roundabout intersections and the widening of SR 52 to accommodate the required turn lane improvements. The proposed Sunlake Boulevard/SR 52 intersection will require a signal warrant analysis and a signal design. Bridge structures will be designed when the alignment crosses designated wetlands in order to minimize impacts.

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

60th Avenue West at 34th Street West Safety Improvements, Manatee County, FL, FDOT District 1, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. Elements of work consisted of installing detectable warning surfaces for existing curb ramps, replacing five-section signal heads with four-section flashing yellow arrow signal heads, and installing high-emphasis crosswalk markings. Services included signal plans preparation, S&PM plans preparation, existing mast arm structural analysis for new loads, and roadway plans production.

Kernan Boulevard from Atlantic to McCormick Design-Build, Duval County, FL, Jacksonville Transportation Authority. Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. This design-build project was completed six months ahead of schedule and on budget. It widened nearly three miles of roadway, added a new shared-use path, and included extensive drainage, signalization, and lighting. The existing two-lane rural section roadway was widened to six lanes for the southern portion and to four lanes for the northern portion. Key innovations included revised pond shapes to save heritage oak trees, a modified pond to avoid costly sanitary force main relocations, and a modified bridge culvert to save extension on one side and minimize the extension on the other side. The project was awarded the 2020 Florida Design-Build Institute of America Honor Award in the Transportation-Roadway category.

US 41 Pedestrian Safety Study at Dunellon City Hall, Marion County, FL, FDOT District 5, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. This project was a pedestrian safety study of US 41 in front of the City Hall to determine if a mid-block crosswalk was warranted. The study entailed gathering existing data on pedestrian volumes and crashes, conducting a qualitative assessment of the area in question, and developing alternatives and recommendations for improvements including benefit/cost analyses.

Colonial Parkway (SR 50) from Woodbury Road to SR 520 PD&E, Orange County, FL, Florida's Turnpike Enterprise, Principal. Nancy served as the principal in charge and was responsible for overall delivery of the project. WGI assisted with this PD&E study for widening of Colonial Parkway (SR 50/SR 504). Located in Orange County, this study evaluated alternative improvements for widening of a seven-mile segment of SR 50 between Woodbury Road and SR 520, along with the inclusion of limited access general toll lanes within the corridor known as Colonial Parkway. SR 50 (Colonial Drive) is an east-west principal arterial facility. The proposed facility extends from SR 408 at its current eastern terminus, to SR 520 along the SR 50 corridor and provides added capacity and higher speeds on this tolled east-west corridor to relieve existing and future congestion along existing roadways. The project corridor includes a crossing of the environmentally sensitive Econlockhatchee River. WGI provided survey, utility locates, roadway, and landscape architecture services for the study.

QA/QC MANAGER

Dale "Lee" Dowden, Jr., PE, LEED AP

REGISTRATIONS:
Professional Engineer: Florida #PE46582, 1993

EDUCATION:
Bachelor of Science, Civil Engineering - University of Florida, 1988

CERTIFICATIONS:
Florida Advanced Work Zone Traffic Control

LEED AP

AFFILIATIONS:
American Society of Civil Engineers

American Society of Highway Engineers

YEARS OF EXPERIENCE
TOTAL: 33
WITH WGI: 4

Lee is a civil engineer with extensive design experience, including project management experience in various phases of transportation design encompassing federal, state, and county projects. Key design aspects include establishment of horizontal and vertical geometry, drainage systems, flexible pavement designs, traffic control details, and coordination of utility relocation. Lee's project management responsibilities include client and subconsultant communication and coordination, budget negotiation and control, quality assurance and quality control (QA/QC) procedures, construction assistance, and shop drawing review.

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, QA/QC Manager. Lee served as QA/QC manager. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, QA/QC Manager. Lee served as QA/QC manager. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail. The trail will run along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road for approximately 110 feet, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, SUE services, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1, Principal. Lee served as principal in charge. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project involved reconfiguration of existing travel lanes to provide two inbound lanes to the beach and providing pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway was milled and resurfaced to accommodate new bicycle lanes. The temporary TCP was developed to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. Existing signals at Prescott Street/Buttonwood Drive will be converted from alternating signal function to conventional signal function. The scope included extension of ATMS along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. Extensive public involvement was coordinated with Town of Fort Myers Beach, Lee County, and LeeTran. Design of this project was conducted concurrent with the PD&E study.

Taylor Road PD&E Study from US 41 to Airport Road, Charlotte County, FL, FDOT District 1. QA/QC Manager. Lee served as QA/QC manager. The scope of this PD&E study was to evaluate pedestrian and bicyclist accommodations on a shared-use path along approximately 3.5 miles of Taylor Road in Punta Gorda (Charlotte County). The project was divided into two planned design segments—Segment 1, from Jones Loop Road to Airport Road, and Segment 2, from US 41 to Jones Loop Road.

Schofield Road from US 27 to Lake-Orange County Line, Lake County, FL, CEMEX, QA/QC Manager. Lee served as QA/QC manager. Project included reconstruction of Schofield Road from an existing dirt road to a two-lane rural collector roadway serving the primary access route for the CEMEX Four Corners Sand Mine. The total project length is five miles, beginning at US 27 and ending at the Lake-Orange County line. In coordination with Lake County, elements for a future four-lane divided typical section were incorporated into the design. At the county line, the design included an interim connection to the existing roadway and accommodations for the ultimate re-alignment of Schofield Road into Orange County. Stormwater management was permitted through SJRWMD. Design required extensive coordination with Water Conserv. II, a partnership between the City of Orlando and Orange County, who own a 30-inch reclaimed water main used for agricultural irrigation. The water main runs along most of the project limits.

SR 580/North Dale Mabry Highway at CR 584/West Waters Avenue-Pedestrian/Bike Intersection Safety, Hillsborough County, FL, FDOT District 7. QA/QC Manager. Lee served as QA/QC manager. This safety improvement project was comprised of pedestrian refuge islands to make the pedestrian crossing distances shorter and upgrading the traffic signals to address pedestrian facilities at the existing signalized intersection of SR 580 (Dale Mabry Highway) and CR 584 (West Waters Avenue). This intersection has one of the highest pedestrian crash incidents in the County. Pedestrian refuge islands were provided between the right-turn and through movements with modifications to turn lanes, and upgrades to existing diagonal span-wire signal with signal poles. The refuge islands were designed to accommodate wide pedestrian throughways and have high-emphasis on crosswalks and pedestrian warning signage for free-flow movements that involve a right-turn lane to an added lane on the side street. Crosswalks were designated with appropriate warning signs in the islands and shoulder. The opposing left turns were designed to run concurrently. Bicycle keyholes were added adjacent to the islands to allow for future addition of marked bicycle facilities to the north. Work included pedestrian accommodations, with minimum impacts to vehicular traffic patterns, signal reconstruction, S&PM, signal poles and mast arms, controller assemblies/hardware, and re-calculating clearance timing intervals. Installation of a flashing yellow arrow was used for protected/permissive movements. A subsurface utility exploration was included to identify utility facilities and secure agreements, utility work schedules, and plans from UAO, ensuring no conflict between utility facilities and the project.

US 19 (SR 55) from 44th Avenue North to Park Boulevard, Pinellas County, FL, FDOT District 7, Project Manager. Lee serves as the project manager for this 1.965-mile urban principal arterial segment of US 19 is within the urban buffer limits of the City of Pinellas Park and the Lealman Community Redevelopment Area. It is a six-lane urban divided highway with 10- to 12-foot travel lanes, 10- to 11-foot left-turn lanes, raised curbed median, closed drainage system, and sidewalks bordered by dense overhead and underground utilities. This project improved US 19 operations by increasing the storage capacity of left-turn lanes into several side streets. WGI developed a cost-effective pavement design with lane-specific milling depths. Key design groups involved in the rehabilitation of this section of US 19 included roadway, drainage, utilities, structures, survey, SUE, lighting, signalization, and S&PM.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Metro Development Group, Project Manager. Lee serves as the project manager/engineer of record and is responsible for the design and preparation of the roadway plan and profiles, the typical section package, the pavement design package, and the design for the roundabouts including the final roundabout report. The Angeline Development is located in Pasco County south of SR 52 and east of the Suncoast Parkway. Sunlake Boulevard is the main road through the Angeline development from north to south. The project is in a CDD and is part of the Connected City program. Phase 2A of the development includes 590-single family units and associated amenities on approximately 430 acres. Water, reclaimed water, and wastewater main lines in the Sunlake Boulevard right-of-way provide services for the overall development and access to Phase 2A from Sunlake Boulevard. This project will design and permit approximately four miles of the road from SR 52 to the future Collector Road south of the future Ridge Road alignment. The roadway section will include a four-lane divided urban curb and gutter (expandable to six lanes), with five-foot bike lanes, six-foot sidewalk (along one side-TBD), 12-foot multi-use path (along the opposite side) and five-foot communications easement adjacent to the multi-use path. The roadway design will also include the design of several roundabout intersections and the widening of SR 52 to accommodate the required turn lane improvements. The proposed Sunlake Boulevard/SR 52 intersection will require a signal warrant analysis and a signal design. The drainage system will consist of curb inlets conveying the storm water through pipes or swales to stormwater management facilities adjacent to the roadway and/or comingled with the adjacent development phase. Bridge structures will be designed when the alignment crosses designated wetlands in order to minimize impacts. Water, reclaimed water, and wastewater trunk lines will be provided in the Sunlake Boulevard right-of-way to provide services throughout the community.

DEPUTY PROJECT MANAGER | ROADWAY | MOT

Lilli is a roadway designer with experience on various state agency and municipal projects, ranging from new construction limited access roadways to minor safety improvement projects. She is versed in roadway geometrics, quantity computations, S&PM plans, and TCPs. Lilli has extensive experience with adhering to the applicable design standards, is trained in MicroStation and GEOPAK, and has experience with 3D modeling.

Lillian "Lilli"
O'Steen, EI

REGISTRATIONS:
Engineer Intern: Georgia #EIT027684, 2018

EDUCATION:
Bachelor of Science, Civil Engineering - University of Georgia, 2018

YEARS OF EXPERIENCE
TOTAL: 3
WITH WGI: 3

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Engineer Intern. Lilli was the acting deputy project manager and lead the post design efforts, along with the roadway, traffic control, and S&PM plans production efforts. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

Taylor Road Shared-Use Path PD&E Study from US 41 to Airport Road, Charlotte County, FL, FDOT District 1, Engineer Intern. Lilli was the acting deputy project manager and is leading the trail design and the PER efforts, including assessing right-of-way and environmental impacts, and generating engineer's estimates. The scope of this PD&E study was to evaluate pedestrian and bicyclist accommodations on a shared-use path along approximately 3.5 miles of Taylor Road in Punta Gorda (Charlotte County). The project was divided into two planned design segments—Segment 1, from Jones Loop Road to Airport Road, and Segment 2, from US 41 to Jones Loop Road.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Engineer Intern. Lilli was leading the trail and roadway design, traffic control, and S&PM efforts for this project. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail. The trail will run along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road for approximately 110 feet, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, SUE services, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption.

Schofield Road from US 27 to Lake-Orange County Line, Lake County, FL, Lake County Board of County Commissioners (FL) , Engineer Intern. Lilli was leading the post-design services and led the roadway, traffic control, and S&PM design phases. Project included reconstruction of Schofield Road from an existing dirt road to a two-lane rural collector roadway serving the primary access route for the CEMEX Four Corners Sand Mine. The total project length is five miles, beginning at US 27 and ending at the Lake-Orange County line. In coordination with Lake County, elements for a future four-lane divided typical section were incorporated into the design. At the county line, the design included an interim connection to the existing roadway and accommodations for the ultimate re-alignment of Schofield Road into Orange County. Stormwater management was permitted through SJRWMD. Design required extensive coordination with Water Conserv. II, a partnership between the City of Orlando and Orange County, who own a 30-inch reclaimed water main used for agricultural irrigation. The water main runs along most of the project limits.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1, Engineer Intern. Lilli was the lead designer for the roadway, traffic control, and S&PM plans on this project. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project involved reconfiguration of existing travel lanes to provide two inbound lanes to the beach and providing pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway was milled and resurfaced to accommodate new bicycle lanes. The temporary TCP was developed to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. Existing signals at Prescott Street/Buttonwood Drive will be converted from

alternating signal function to conventional signal function. The scope included extension of ATMS along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. Extensive public involvement was coordinated with Town of Fort Myers Beach, Lee County, and LeeTran. Design of this project was conducted concurrent with the PD&E study.

Sligh Boulevard and Columbia Street Improvements, Orange County, FL, City of Orlando, Engineer Intern. Lilli assisted the roadway engineer of record with the roadway plans for this project. The project included roadway reconstruction for replacement of water and wastewater mains. Water and wastewater replacement was permitted through FDEP. The roadway reconstruction included operational improvements at the intersections to accommodate future transit expansion and freight delivery. The rail crossing at Columbia Street was improved to facilitate the safe movement of people, vehicles, and trains within the corridor with a four-quadrant gate system. Sligh Boulevard was reconfigured to improve and accommodate turning movements for buses and freight vehicles. On-street parking was provided. The design included a raised crosswalk/intersection table at Sligh Boulevard and Copeland Street which improved ADA accessibility to the Orlando Amtrak station. Additional services included a value engineering study, design coordination with FDOT, decorative pedestrian lighting, ITS, streetscape and landscape design, utility coordination, and coordination with OUC for expansion of a power duct bank along Columbia Street.

US 301 at Rutland Road (CR 675) Signalization Installation, Manatee County, FL, FDOT District 1, Engineer Intern. As part of the FDOT District 1 Design-Build Push-Button contract, this task included removal of a flashing beacon signal assembly and design of a new box span signal configuration at the intersection of US 301 and Rutland Road (CR 675). To increase safety, the intersection was converted from a four-leg to a T-intersection, removing access from 69th Street E. to US 301. The box span signal configuration was designed to accommodate the future intersection build-out. Other elements of work included milling and resurfacing, drainage modifications, SUE, design and right-of-way survey, geotechnical exploration, and S&PM.

Orlando South Ultimate Interchange PD&E, Orange County, FL, Florida's Turnpike Enterprise, Engineer Intern. Lilli supported the roadway engineer of record on this project by evaluating various interchange ramp configurations. This PD&E study evaluated alternative improvements to optimize the Turnpike Mainline/SR 528 (Beachline Expressway) interchange operations. Build alternatives included improved ramp directional service within the interchange, express lane direct connections between Turnpike Mainline and Beachline Expressway, improvements to the crossroads and other local street connections, consideration of new or revised interchange access points to existing or future connecting highways, and the necessary improvements along Turnpike Mainline to include structures spanning the Turnpike Mainline to accommodate a future 10-lane expansion for buffer-separated express lanes. Subconsultant services included interchange alternatives analysis, location hydraulic report, pond siting report, survey, and utility coordination with over a dozen agencies, including FGT. Subconsultant services also included an executed design-option for a new reliever interchange at Turnpike Mainline and Taft Vineland Road.

SR 52 at Saint Leo University Entrance Signal, Pasco County, FL, FDOT District 7, Engineer Intern. Lilli was the lead roadway designer and was responsible for roadway design, traffic control, S&PMs, plans production, and engineer's estimates. This safety improvements project consisted of the construction of a new traffic signal at SR 52 at the Saint Leo University entrance in Pasco County. Elements of the work included installation of the dual-arm mast arm signal structure, crosswalks on the west leg and north leg, signs, pavement markings, controller assembly and calculation of clearance timing intervals as necessary to accommodate pedestrian traffic with minimum impact to the current vehicular traffic patterns.

I-10 (SR 8) at SR 121 Operational Improvements PD&E Study, Baker County, FL, FDOT District 2, Engineer Intern. Lilli supported the roadway and TCP engineer of record with roadway and TCPs. The initial assignment under this contract involved the PD&E to support traffic operational improvements to the I-10 (SR 8) and SR 121 interchange in Baker County. These improvements included the reconstruction of the substandard westbound I-10 to SR 121 loop ramp to a direct connecting ramp, removal of the functionally obsolete SR 121 structure over I-10 (substandard horizontal and vertical clearances) and reconstruction of SR 121, from a two-lane rural to a four-lane divided urban roadway, with sidewalk and bicycle accommodations through the interchange. The project also included new stormwater conveyance and treatment facilities, as well as access management improvements along SR 121. The WGI team proposed innovative constructability techniques using minor horizontal and vertical alignment modifications along SR 121 to minimize reconstruction and accommodate the existing access management concerns along the south segment of SR 121. The initial environmental class of action was anticipated as a Categorical Exclusion Type I, with no major environmental impacts and one minor parcel acquisition.

ROADWAY | MOT

George **Knox, PE**

REGISTRATIONS:
Professional Engineer: Florida #PE82283, 2017

EDUCATION:
Bachelor of Science, Civil Engineering - University of Central Florida, 2010

CERTIFICATIONS:
Advanced Temporary Traffic Control

AFFILIATIONS:
Florida Engineering Society, FES #9020180

Tau Beta Pi The Engineering Honor Society

YEARS OF EXPERIENCE
TOTAL: 10
WITH WGI: 9

George is an experienced roadway designer on state and municipal projects. He has played an integral role in the development of roadway, traffic control, and S&PM *plans, and has quickly established a reputation for consistently completing projects with outstanding quality. George is well versed in adhering to appropriate design standards and is fully trained in AutoCAD, MicroStation, GeoPAK, and 3D modeling.*

RELEVANT EXPERIENCE

Taylor Road PD&E Study from US 41 to Airport Road, Charlotte County, FL, FDOT District 1, Roadway Engineer. George was responsible for preliminary design, cost analysis, and plans production**.** The scope of this PD&E study was to evaluate pedestrian and bicyclist accommodations on a shared-use path along approximately 3.5 miles of Taylor Road in Punta Gorda (Charlotte County). The project was divided into two planned design segments—Segment 1, from Jones Loop Road to Airport Road, and Segment 2, from US 41 to Jones Loop Road.

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Roadway Engineer. George was responsible for intersection details and design, pavement marking design, and utility adjustment plans production. This project required 3D modeling deliverables. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Roadway Engineer. George was responsible for 3D modeling design and plans production. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail. The trail will run along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road for approximately 110 feet, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, SUE services, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1, Roadway Engineer. George was responsible for intersection design, earth work, and utility adjustment analysis. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project involved reconfiguration of existing travel lanes to provide two inbound lanes to the beach and providing pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway was milled and resurfaced to accommodate new bicycle lanes. The temporary TCP was developed to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. Existing signals at Prescott Street/Buttonwood Drive will be converted from alternating signal function to conventional signal function. The scope included extension of ATMS along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. Extensive public involvement was coordinated with Town of Fort Myers Beach, Lee County, and LeeTran. Design of this project was conducted concurrent with the PD&E study.

SR 580/North Dale Mabry Highway at CR 584/West Waters Avenue-Pedestrian/Bike Intersection Safety, Hillsborough County, FL, FDOT District 7, Engineer of Record. George was responsible for roadway design, MOT for vehicles and pedestrians, S&PM design, as well as plans production. This safety improvement project was comprised of pedestrian refuge islands to make the pedestrian crossing distances shorter and upgrading the traffic signals to address pedestrian facilities at the existing signalized intersection of SR 580 (Dale Mabry Highway) and CR 584 (West Waters Avenue). This intersection has one of the highest pedestrian

crash incidents in the County. Pedestrian refuge islands were provided between the right-turn and through movements with modifications to turn lanes, and upgrades to existing diagonal span-wire signal with signal poles. The refuge islands were designed to accommodate wide pedestrian throughways and have high-emphasis on crosswalks and pedestrian warning signage for free-flow movements that involve a right-turn lane to an added lane on the side street. Crosswalks were designated with appropriate warning signs in the islands and shoulder. The opposing left turns were designed to run concurrently. Bicycle keyholes were added adjacent to the islands to allow for future addition of marked bicycle facilities to the north. Work included pedestrian accommodations, with minimum impacts to vehicular traffic patterns, signal reconstruction, S&PM, signal poles and mast arms, controller assemblies/hardware, and re-calculating clearance timing intervals. Installation of a flashing yellow arrow was used for protected/permissive movements. A subsurface utility exploration was included to identify utility facilities and secure agreements, utility work schedules, and plans from UAO, ensuring no conflict between utility facilities and the project.

Crystal Lake Avenue Sidewalk Project, Seminole County, FL, City of Lake Mary, Roadway Engineer. George was responsible for the design and plans production, which included pavement design, back of sidewalk profile, earthwork, S&PM, and engineer's estimate. He also was responsible for coordination with Seminole County for the design of the signalized intersection. The contract consisted of surveying, engineering, and associated permits for approximately 620 feet of sidewalk and right turn lane at Crystal Lake Avenue and Country Club Road intersection in the City of Lake Mary, Florida. The sidewalk was constructed between N. Country Club Road and 2nd Street along the north side of E. Crystal Lake Avenue.

North Country Club Road at Wilbur Avenue Turn Lane, Seminole County, FL, City of Lake Mary, Design Engineer. George was responsible for the design and plans production, which included pavement design, back of sidewalk profile, earthwork, S&PM, and engineer's estimate. He also was responsible for coordination with Seminole County for the design of the signalized intersection. The project work included providing two left turn lanes along North Country Club Road (northbound and southbound) to east and westbound Wilbur Avenue. Roadway widening along North Country Club Road was required for approximately 600 feet both north and south of Wilbur Avenue. The left-turn lanes along North Country Club Road required reconstruction of the four-radius curb returns of the intersection. Project work also included drainage design modifications, environmental permitting, and utility coordination. Coordination was required between the design team, City of Lake Mary, and Seminole County Engineering as a result of the planned signalization of the intersection as Seminole County was preparing signal plans for the intersection.

SR 429 (Western Beltway) Existing Roadway Conditions Assessment Report (ERCAR), MP 0.0 to MP 5.3, Osceola County, FL, Florida's Turnpike Enterprise, Roadway Engineer. George was responsible for the analysis of existing guardrail and concrete barriers. He was also responsible for providing recommendations for any deficiencies encountered in the field or in the analysis. This project included preparation of an ERCAR for the Florida's Turnpike Enterprise's SR 429 Western Beltway, from MP 0.0 to MP 5.3 in Osceola County. The scope of work consisted of a detailed analysis of existing roadway conditions with respect to design standards and safety of the roadway, bridges, drainage, signing, and other miscellaneous project components. The result of the assessment was summarized and recommendations for roadway and safety improvements were made based on practical design and feasibility to construct.

Orlando South Interchange Modification at MP 254, Orange County, FL, Florida's Turnpike Enterprise, Roadway Engineer. George performed earthwork and was involved in plans production of S&PM, utility adjustments, and temporary TCPs. This project consisted of modifications to the Orlando South interchange of Florida's Turnpike whereby the existing turnpike ramp to northbound US 441/US 17-92/Orange Blossom Trail entrance ramp was widened from a single lane to a triple lane movement forcing the creation of a new at-grade intersection. This new intersection on Orange Blossom Trail was signalized to control the ramp and northbound US 441 lane movements. Ramp widening impacted two overhead sign trusses along the ramp prior to the widening. Drainage modifications and upgrades to the S&PM were also required.

STRUCTURES

Sarah **Moore, PE, LEED AP**

Sarah has structural engineering experience that includes designing bridges in Florida and buildings in New York City, as well as extensive experience in bridge construction for roadway transportation projects and construction engineering inspection.

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Project Engineer. Sarah was responsible for the structural design of three prestressed concrete bridges, each over a half mile long, an additional pair of single span concrete bridges as well as eight multipart mechanically stabilized earth (MSE) walls. She was also responsible for plans production and post design work, such as reviewing shop drawings and answering requests for information, for all aforementioned structures. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

I-10 Widening from I-295 to I-95 Design-Build, Duval County, FL, FDOT District 2, Structural Engineer. Sarah was the lead structural engineer. This project involves widening I-10 from west of I-295 to I-95 from a six-lane divided urban interstate to a 10-lane divided urban interstate. The project limits extend from approximately 3,700 feet west of the I-295 interchange (Section 72270 MP 15.5) to approximately 1,900 feet east of Stockton Street (Section 72270 MP 21.4). Several of the side streets underneath I-10 require redesigned intersections, sidewalk additions, roadway widening, and mill and resurfacing to accommodate the interstate widening. The proposed widening on I-10 from Lane Avenue to I-95 shall consist of nine-inches of concrete pavement. Widening from west of I-295 to Lane Avenue matched the adjacent flexible pavement. Twelve bridges were widened and the Cedar River bridge culvert under I-10 and the eastbound off-ramp at Lane Avenue was replaced with a three-barrel 10-foot by 10-foot bridge culvert. Additional structural components included the construction of MSE walls, replacement of the pedestrian culvert under I-10 at Day Avenue, and miscellaneous structural design. Drainage, ITS, lighting, landscape opportunity plans, S&PM, temporary traffic control, water and sewer design, survey, and geotechnical engineering are also required as part of this project.

I-10 (SR 8) at SR 121 Operational Improvements PD&E Study, Baker County, FL, FDOT District 2, Structural Engineer. Sarah was the lead structural engineer for this project and provided a variety of structural design plans. The initial assignment under this contract involved PD&E to support traffic operational improvements to the I-10 (SR 8) and SR 121 interchange in Baker County. These improvements included the reconstruction of the substandard westbound I-10 to SR 121 loop ramp to a direct connecting ramp, removal of the functionally obsolete SR 121 structure over I-10 (substandard horizontal and vertical clearances) and reconstruction of SR 121, from a two-lane rural to a four-lane divided urban roadway, with sidewalk and bicycle accommodations through the interchange. The project also included new stormwater conveyance and treatment facilities, as well as access management improvements along SR 121. The WGI team proposed innovative constructability techniques using minor horizontal and vertical alignment modifications along SR 121 to minimize reconstruction and accommodate the existing access management concerns along the south segment of SR 121. The initial environmental class of action was anticipated as a Categorical Exclusion Type I, with no major environmental impacts and one minor parcel acquisition.

REGISTRATIONS:
Professional Engineer: Florida #PE80643, 2016

Professional Engineer: North Carolina #047973, 2018

Professional Engineer: Connecticut #PEN.0028727, 2012

Professional Engineer: South Carolina #36338, 2018

Professional Engineer: Georgia #PE044365, 2019

EDUCATION:
Bachelor of Engineering, Civil Engineering - Vanderbilt University, 2007

CERTIFICATIONS:
ACI Concrete Field Testing Technician Grade I

LEED AP

Metro North Railroad Contract Safety

OSHA 10-Hour General Industry

AFFILIATIONS:
Florida Engineering Society

National Society of Professional Engineers

YEARS OF EXPERIENCE
TOTAL: 14
WITH WGI: 6

I-75 Express Lanes from 170th Street to South of Miramar Parkway (Segment AB) Design-Build, Broward and Miami-Dade Counties, FL, FDOT District 4, Project Engineer. Sarah was responsible for the design of a high mast light pole that had to be specifically designed due to its proximity to the roadway and adjacent MSE walls. Segment AB is the largest and most complex segment of the corridor, and extends 3.1 miles from NW 170th Street to south of Miramar Parkway. It provides express lanes in the existing I-75 median along with 2.6 miles of reconstruction of the Homestead Extension of Florida's Turnpike (HEFT) to accommodate a direct median-to-median flyover express lane connection and new systems' interchange movements, as well as new CD roads and ramps at the Miami Gardens interchange. The structural effort for this $233M project included six bridges and permanent and temporary retaining walls. The most complex structure was the Ramp H-7 flyover which is a curved twin steel box girder bridge with heavily skewed hammerhead piers and a complex erection sequence scheme. The total bridge length for the new flyover is 984 feet which spans over 18 lanes of I-75 general purpose, express lane, and ramp traffic. An unbalanced "C"-pier is required at the end of Span 1 to cantilever the pier cap over the travel lanes. Two new prestressed concrete beam bridges and a bridge widening were constructed over the C-9 Canal adjacent to a high voltage electric line. A lateral analysis was required for all three bridges due to unsupported pile lengths greater than 25 feet including the existing bridge. A new single span steel plate girder bridge was constructed for I-75 northbound over the curved Ramp H-13. This bridge required a reduced web depth due to profile constraints associated with the constraints of an existing bridge. The end bents are heavily skewed to meet the geometry requirements which made the design of the secondary members more complex. The existing concrete bridge deck for Bass Creek Road Bridge over I-75 was replaced with a thicker deck. A refined bridge load rating analysis was completed to verify the existing beams would meet the permit requirements. This project was honored with the 2019 ACEC-FL Outstanding Design-build Project Award.

I-95 (SR 9) New Interchange at St. Johns Heritage Parkway SE Design-Build, Brevard County, FL, FDOT District 5, Project Engineer. Sarah served as the lead structural designer and was responsible for the full bridge design, plans production, and post design work. The bridge design included two parallel, prestressed concrete bridges as well as box culverts, MSE walls, and sign structures. This project involved the construction of an interchange at I-95 (SR 9) and St. Johns Heritage Parkway SE in Brevard County. The project is part of the City of Palm Bay, Brevard County, and FDOT District 5's overall St. Johns Heritage Parkway improvement program involving transportation facility access for southern Brevard County. An innovative diverging diamond interchange (DDI), the centerpiece of the design, was used in instead of the partial cloverleaf interchange. The DDI features a center shared-use path and will be the first DDI to be built in Brevard County. The final design eliminated over 450 linear feet of drainage system jack and bore, as well as 1,700 linear feet of deep excavation for stormwater piping along FGT easement to preserve their maintenance access and meet the FGT/FDOT Global Settlement Agreement.

HEFT (SR 821) Widening from SR 836 to NW 106th Street, Miami-Dade County, FL, Florida's Turnpike Enterprise, QC Reviewer. Sarah was a quality control engineer for multiple bridges during the design phases of this project. The project consisted of completion of final design plans and construction specifications for widening of the HEFT from south of SR 836 (Dolphin Expressway) to NW 106th Street to 10 lanes, including the incorporation of express lanes. The project included design and inclusion of the ultimate HEFT/SR 836 interchange incorporating all movements to and from the two expressway facilities, including direct connections to the HEFT express lanes to and from the west, and incorporation of a new northbound entry ramp at NW 41st Street from NW 117th Avenue. The project design included roadway, drainage, stormwater management, S&PM, structures, toll gantries and facilities, ITS, lighting, environmental permitting, landscape architecture, utility coordination, subsurface utility exploration, and survey and mapping. The structural scope included numerous Florida I-Beam bridge widenings and additional curved steel flyovers at the SR 836/HEFT interchange.

SR 8 (I-10) Design-Build from Escambia Bay Bridge to East of SR 281 (Avalon Boulevard), Santa Rosa County, FL, FDOT District 3, Project Engineer. Sarah designed the concrete superstructure for this project and was involved in plans production for both 90% and 100% submittals. She was involved in post design work such as reviewing shop drawings and answering requests for information. This project consisted of expanding I-10 from four- to six-lanes between the Escambia Bay Bridge and the SR 281 (Avalon Boulevard) interchange, a distance of 3.7 miles. Other major project requirements included the reconstruction of the I-10/SR 281 interchange to accommodate a future six-lane SR 281 typical section and a new I-10 grade separation and approach profile. Existing stormwater management facilities and conveyance systems were upgraded. Traffic signals at the SR 281 ramp intersections and under bridge lighting were reconstructed.

STRUCTURES

Carlos **Campos, PE**

Carlos has experience in structural and roadway design for state, county, municipal, and private sector clients. He has served as project engineer and manager on a variety of structural projects that include bridge design, load rating, retaining walls, culverts, boardwalks, boat ramps, and buildings. He has extensive knowledge of plans production, vertical and horizontal geometric design, quantities, and cost analysis. His expertise in computer-aided design software includes MicroStation with Geopak, AutoCad, Risa 3D, Lpile, LEAP Bridge, STAAD.Pro, FB MultiPier, and MathCad.

REGISTRATIONS:
Professional Engineer: Florida #PE78425, 2015

Professional Engineer: Georgia #PE044504, 2019

EDUCATION:
Associate of Science, Civil Engineering Technology - Tallahassee Community College, 2005

Bachelor of Science, Civil Engineering - Florida State University, 2009

Master of Science, Structural Engineering - Florida State University, 2013

CERTIFICATIONS:
FDOT Specifications Package Preparation

AFFILIATIONS:
American Society of Civil Engineers

American Society of Highway Engineers

Florida Engineering Society

Institute of Transportation Engineers

YEARS OF EXPERIENCE
TOTAL: 16
WITH WGI: 6

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Structures Engineer. Carlos was the structural engineer of record and responsible for the design and contract plans for three bridges on SR 429 over a wildlife crossing No.1. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

Construction Contract Plans for Pedestrian Bridge over SR A1A (FDOT Bridge No. 789002), St. Johns County, FL, Project Manager. Carlos was the project manager and structural engineer of record responsible for the analysis of the existing substructure system. WGI provided Villages of Vilano Homeowners Association with engineering services to replace the structurally deficient pedestrian bridge over A1A. Our services included the evaluation of the existing substructure to accommodate a new pre-fabricated steel truss bridge. WGI assisted in coordinating with all stake holders including FDOT, St. John's County, utility owners, Contech, and the homeowner's association. WGI was responsible for construction plans, structural design, MOT, utility coordination, and coastal construction control line permitting.

Design of Four Bridges/Culverts in Clay County, Clay County, FL, Clay County Board of County Commissioners, Project Manager. Carlos is the task manager and supervised the design and plans preparation for the repairs. WGI inspected four critical bridge/culvert structures in Clay County. WGI prepared evaluations and recommendations for repair and rehabilitation. These projects required close coordination with manufacturers to develop cost-effective repair solutions. WGI prepared construction documents, including plans, general notes and details. The four repair projects were prioritized regarding public safety and the severity of the damage. The four bridge culverts are Williams Park Bridge No. 714049, Walkill Creek Bridge No. 710016 on CR226, Walkill Creek Bridge No. 710003 on CR 209, and Walkill Creek Bridge No. 71024 on CR 209. The project was completed with the allotted six-month time frame.

I-10 Widening from I-295 to I-95 Design-Build, Duval County, FL, FDOT District 2, Structural Engineer of Record. Carlos was the engineer of record for three bridges: I-10 over Cassat Avenue, Nelson Street and US 17 (Roosevelt Boulevard). This project involves widening I-10 from west of I-295 to I-95 from a six-lane divided urban interstate to a 10-lane divided urban interstate. The project limits extend from approximately 3,700 feet west of the I-295 interchange (Section 72270 MP 15.5) to approximately 1,900 feet east of Stockton Street (Section 72270 MP 21.4). Several of the side streets underneath I-10 require redesigned intersections, sidewalk additions, roadway widening, and mill and resurfacing to accommodate the interstate widening. The proposed widening on I-10 from Lane Avenue to I-95 consists of nine-inches of concrete pavement. Widening from west of I-295 to Lane Avenue matched the adjacent flexible pavement. Twelve bridges were widened and the Cedar River bridge culvert under I-10 and the eastbound off-ramp at Lane Avenue will be replaced with a three-barrel 10-foot by 10-foot bridge culvert. Additional structural

components included the construction of MSE walls, replacement of the pedestrian culvert under I-10 at Day Avenue, and miscellaneous structural design. Drainage, ITS, lighting, landscape opportunity plans, S&PM, temporary traffic control, water and sewer design, survey, and geotechnical engineering are also required as part of this project.

I-75 Express Lanes from 170th Street to South of Miramar Parkway (Segment AB) Design-Build, Broward and Miami-Dade Counties, FL, FDOT District 4, Structures Engineer. Carlos designed a single span steel I-girder bridge. Design work included preparation of contract plans, design calculations, load rating, and temporary and permanent MSE wall control drawings. Segment AB is the largest and most complex segment of the corridor, and extends 3.1 miles from NW 170th Street to south of Miramar Parkway. It provides express lanes in the existing I-75 median along with 2.6 miles of reconstruction of HEFT to accommodate a direct median-to-median flyover express lane connection and new systems' interchange movements, as well as new CD roads and ramps at the Miami Gardens interchange. The structural effort for this $233M project included six bridges and permanent and temporary retaining walls. The most complex structure was the Ramp H-7 flyover which is a curved twin steel box girder bridge with heavily skewed hammerhead piers and a complex erection sequence scheme. The total bridge length for the new flyover is 984 feet which spans over 18 lanes of I-75 general purpose, express lane, and ramp traffic. An unbalanced "C"-pier is required at the end of Span 1 to cantilever the pier cap over the travel lanes. Two new prestressed concrete beam bridges and a bridge widening were constructed over the C-9 Canal adjacent to a high voltage electric line. A lateral analysis was required for all three bridges due to unsupported pile lengths greater than 25 feet including the existing bridge. A new single span steel plate girder bridge was constructed for I-75 northbound over the curved Ramp H-13. This bridge required a reduced web depth due to profile constraints associated with the constraints of an existing bridge. The end bents are heavily skewed to meet the geometry requirements which made the design of the secondary members more complex. The existing concrete bridge deck for Bass Creek Road Bridge over I-75 was replaced with a thicker deck. A refined bridge load rating analysis was completed to verify the existing beams would meet the permit requirements. This project was honored with the 2019 ACEC-FL Outstanding Design-build Project Award.

World Drive Extension, Orange County, FL, Reedy Creek Improvement District, Structures Engineer. Carlos was responsible for the design of a temporary sheet pile wall and a privacy fence. Project tasks included design calculations and plans for monorail protection system and temporary shoring for bridge footing construction at the Walt Disney World properties in Orlando, Florida. Completed temporary TCPs to build a construction laydown yard and construction access to constructed ponds on this project.

DRAINAGE

Murray **Santoro, PE**

Murray has more than three decades of civil-transportation engineering experience that includes studies, design, and production. Murray understands the different types of project delivery methods, thanks to his experience producing, designing, and serving as an engineer of record on many design-bid-build and design-build projects. His technical expertise includes designing and implementing innovative, practical, and cost-effective solutions in the areas of roadway, drainage, lighting, post-design services, and permitting. He is proficient in FDOT and American Association of State Highway Transportation Officials (AASHTO) roadway design standards, hydrologic and hydraulic analysis, floodplain and culvert analysis, and environmental permitting.

REGISTRATIONS:
Professional Engineer: Florida #PE66065, 2007

Professional Engineer: Georgia #PE031293, 2006

Professional Engineer: Michigan #6201068060, 2018

Professional Engineer: South Carolina #29343, 2011

EDUCATION:
Bachelor of Science, Civil Engineering - University of Central Florida, 2003

YEARS OF EXPERIENCE
TOTAL: 31
WITH WGI: 1

*Prior to WGI

RELEVANT EXPERIENCE

Taylor Road Shared Use Path PD&E Study from US 41 to Airport Road, Charlotte County, FL, FDOT District 1, Drainage Engineer of Record. Murray was responsible for the complete drainage design and bridge hydraulic analysis. The scope of this PD&E study was to evaluate pedestrian and bicyclist accommodations on a shared use path along approximately 3.5 miles of Taylor Road in Punta Gorda (Charlotte County). The project was divided into two planned design segments—Segment 1, from Jones Loop Road to Airport Road, and Segment 2, from US 41 to Jones Loop Road.

***East Selmon Expressway PD&E, Hillsborough County, FL, Tampa-Hillsborough Expressway Authority, Drainage Engineer of Record.** Murray was responsible for the complete drainage analysis and final drainage recommendations. This PD&E study evaluates the needs, costs, and effects of constructing operational improvements which will increase traffic capacity and safety on the East Selmon Expressway from Meridian Avenue to I-75. The potential future capacity improvements include evaluating an additional lane to the Reversible Express Lane (REL) from Meridian Avenue to I-75, additional local lanes of the expressway from the I-4 connector to I-75, and interchange, ramp, and connection capacity and operational improvements at the Brorein Street, Kennedy Boulevard, I-4 Connector, US 301, and I-75. An ERP permit will be required through the Southwest Florida Water Management District (SWFWMD).

Districtwide Drainage Maintenance Consultant Services, Various Florida Counties, FL, FDOT District 5, Project Manager. Murray was responsible for managing the TWO and serves as the lead drainage engineer for a TWO team. WGI provides FDOT District 5 with miscellaneous drainage engineering services including hydraulic design and studies for highway drainage systems; design of water management systems; obtaining ERP permits; performing hydraulic studies on existing drainage problems and making recommendations; along with subconsultant coordination for boundary and topographic surveys, geotechnical investigation and analyses, and inspection services of underground hydraulic conveyances. Other tasks include preparation of plans and contract documents for the rehabilitation and repair of existing storm drainage structures and facilities, as well as assisting District 5 with reviewing the drainage connection permits.

NW 29th Street Complete Streets, Broward County, FL, FDOT District 4, Drainage QC Reviewer. Murray was responsible for the drainage concept Under WGI's Districtwide Minor Design contract with FDOT District 4, this task work order included engineering services for the widening of NW 29th Street from SR-845/Powerline Road to Andrews Avenue to accommodate bike lanes within the project limits. Additional improvements included construction of missing sidewalk segments, S&PM, pedestrian signal upgrades and localized drainage improvements. All improvements were closely coordinated with the City of Wilton Manors, including early public engagement with all local stakeholders to ensure public support of the project

Clay County Owner's Representative Project 2: CR 209 from CR 315B to US 17, Clay County, FL, Clay County Board of County Commissioners, Drainage Engineer of Record. Murray was responsible for the initial pond siting concept documentation. A part of the Clay County Owner's Representative program for the 2020 roadway improvement bond program, this project involved widening CR 209 from CR 315B to US 17 from two to four lanes. As the owner's representative, WGI is responsible for preparing/managing a master program plan, budget, and schedule. WGI will provide management, planning, engineering design, permitting, right-of-way acquisition, and construction engineering inspection (CEI) services. This project includes a CSX railroad crossing, several water and force mains (requiring coordination with the City of Green Cove Springs), and right-of-way acquisition that will potentially impact businesses in the corridor, including the First Haitian Baptist Church and Edgewater Landing subdivision. The project will be delivered via the

construction manager at risk (CMAR) model. WGI's role is to develop the RFP/RFQ packages and support the County in the selection of the design consultants and contractors and collaborate with the County to develop planning, engineering design, and permitting services needed to agree upon a guaranteed maximum price (GMP) as provided by the contractor. WGI will manage the projects through the construction phase. Project elements include GIS, survey, SUE, right-of-way, wetland delineation, and other environmental services.

I did nothing on this project. SR 7/US 441 Transit Corridor Improvements, Broward County, FL, FDOT District 4, Drainage Engineer of Record. Murray was responsible for the complete drainage design and permitting. This project consisted of roadway widening and sidewalk construction aimed at improving pedestrian and bicyclist continuity along Prospect Road from SR 7 to SR 870/Commercial Boulevard and along Copans Road from SR 7 to Lyons Road in Broward County. This was an off-system project aimed at improving access to transit facilities on SR 7 as recommended in the SR 7 Multimodal Improvements Corridor Study completed by the Broward Metropolitan Planning Organization. The improvements included roadway widening along Prospect Road to provide for buffered bicycle lanes and the construction of a raised separated bicycle facility within the swale along Copans Road. Services for this project included roadway widening, drainage engineering, signalization, landscape architecture, miscellaneous structures, lighting, utility coordination, environmental permitting, surveying, subsurface utility exploration, geotechnical exploration, and public involvement.

SR 84 at Weston Road Intersection Improvements, Broward County, FL, FDOT District 4, Drainage Engineer of Record. Murray was responsible for the complete drainage design and permitting. As part of a districtwide contract, this task consisted of operational improvements at the intersection of Weston Road and SR-84 aimed at reducing peak-hour queues. The scope included the widening of westbound SR 84 to extend the existing left-turn queue length, the addition of an additional westbound SR 84 to southbound Weston Road left turn-lane, and an additional southbound lane along Weston Road below I-75. Services for this project included roadway widening, drainage engineering, signalization, lighting, landscape architecture, miscellaneous structures, utility coordination, environmental permitting, surveying, subsurface utility exploration, geotechnical exploration, and public involvement.

Drainage Design of Four Flooding Locations, Miami-Dade County, FL, City of Miami, Drainage QC Reviewer. Murray was responsible for the drainage QC of the plans and calculations. As part of the continuing services contract for civil engineering services for roadway projects, the City of Miami under the Miami Forever Bond, addressed severe flooding issues at four locations within the City: 1603 NW South River Drive, 2928 SW 2nd Street, 200 SW 30th Avenue, and 1631 NW 13th Court. The City of Miami contracted WGI to prepare construction documents and associated drainage calculations by designing a new storm sewer system with the installation of new 24-inch French drain systems, cross pipes, manholes, inlets, curb and gutter, and repairing broken sidewalks, if necessary. This design alleviated street flooding as well as flooding in the public right-of-way. Services included roadway design, drainage design, S&PMs, permitting, survey, SUE, geotechnical, and post-design services.

Econlockhatchee Trail Final Design | Orange County, FL, Orange County Public Works, Drainage Design Engineer. Murray was responsible for the primary and secondary drainage design and the permitting. The project involved preparation of preliminary and final designs for the one-mile reconstruction of Econlockhatchee Trail from SR 50 to Trevarthon Road. The project entailed realigning sub-standard curves, evaluation of an existing bridge structure, and construction of a new bridge over the Little Econlockhatchee River Tributary. The bridge clearance was set to accommodate bike and equestrian trails. The project design involved roadway, drainage, permitting, signing, signals, structural designs and relocation and upgrade to the existing public trail system. Two public workshops and a public hearing were held to obtain community input on alignment options and to select the preferred alignment.

Wekiva Parkway (SR 429) Section 2A, Final Design, CFX, Principal Drainage Engineer. Murray was responsible for the design of the proposed storm sewer system and the overall drainage QC documentation. The project included final design services for the Section 2A of the new Wekiva Parkway from the systems interchange east to Mount Plymouth Road (CR 435). The design includes two miles of liited-access roadway, three bridges, drainage, and extensive utility coordination.

SR 40 Multi-Use Trail (243396-1), FDOT District Five, Marion County Florida, Project Manager and Engineer of Record. The FDOT explored the feasibility of incorporating a shared-use path along the proposed SR 40 roadway improvements. Murray was responsible for the alignment, profile, typical section, drainage and permitting documentation for the proposed shared-use path. The design included wooden boardwalks over wetlands, intersection crossings, and a trailhead. The project included signed and sealed construction plans, including construction cost estimates.

TRAFFIC AND SAFETY ANALYSIS

William "Acey" **Roberts, PE**

Acey has vast experience in traffic and intelligent transportation systems (ITS) in private practice and public agencies. He currently leads the TSMO/ITS group for WGI and has served the FDOT as a consultant and state employee for the Mississippi Department of Transportation (MDOT). His experience includes project programming and planning, ITS and traffic signal design, tolling and express lanes, wireless communications systems, advanced traffic management systems, adaptive traffic signal control, ITS architecture updates and systems engineering, autonomous shuttle, and micro-transit solutions.

REGISTRATIONS:
Professional Engineer: Texas #139928, 2021

Professional Engineer: Georgia #PE047147, 2021

Professional Engineer: Mississippi #20263, 2011

Professional Engineer: Florida #PE82914, 2017

EDUCATION:
Bachelor of Science, Civil Engineering - University of Mississippi, 1999

CERTIFICATIONS:
Advanced Temporary Traffic Control

Certificate in Asset Management

AFFILIATIONS:
Gulf Region Intelligent Transportation Society

Institute of Transportation Engineers, Florida

Intelligent Transportation Society of Florida

YEARS OF EXPERIENCE
TOTAL: 20
WITH WGI: 1

RELEVANT EXPERIENCE

Consultant Engineer of Record, Traffic Design, District Wide, Florida, FDOT District 1, Engineering Consultant. Acey supported FDOT D1 as an embedded engineering consultant in traffic design, providing overall management, quality control, training, and daily assistance to DOT and consultant staff for all projects in the District. Acey managed, designed, or provided CEI and construction phase service to over 25 individual traffic signals, lighting or S&PM projects.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1. Design Engineer. Acey provided traffic signal warrant analysis and speed studies for the reconfiguration of SR 865 near Ft Myers Beach. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path, new traffic signals at Fifth Street and Main Street and upgrade of existing signals at Prescott Street/Buttonwood Drive. The ATMS system will be extended along SR 865 as well as new lighting at signalized intersections and landscape.

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Design Engineer. Acey provided MOT-phase traffic signal design and timing. This project designed and constructed 5.5 miles of limited-access toll road, mainly along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve.

SR 417 Widening, Hwy 528 to Narcoossee Rd, Central Florida Expressway Authority, Orange County, FL, Engineer of Record. Acey served as the engineer of record for traffic signals and ITS improvements of widening segment 150 of state route 417. He prepared construction plans for traffic signal design, ITS field devices power systems, and fiber communications.

SR 417 Widening, Narcoossee Rd to Boggy Creek Rd, Central Florida Expressway Authority, Orange County, FL, Quality Control Manager. Acey served as the quality control manager for ITS improvements of widening segment 151 of state route 417. He provided periodic reviews of construction plans for ITS field devices power systems, and fiber communications.

SR 544 at Alta Vista School Zone Crossing Modifications, Polk County, FL, FDOT District 1, Design Engineer. Acey designed overhead school zone signage and power systems to improve safety and motorist visibility of the school zone. This task work order addressed school zone safety improvements at SR 544 and Alta Vista in Polk County. Elements of work included upgraded school zone signing and marking to accommodate a new pedestrian crossing; structural design for a new strain pole assembly to hold an overhead school zone sign; driveway and curb ramp reconstruction; analysis of additional loading on an existing strain pole sign assembly; geotechnical investigation; SUE services; and utility coordination.

Smart City Grant Support Services, Hillsborough County, FL, City of Tampa, FL, Project Manager. Acey served as the project manager for grant and program support for smart city initiatives, congestion mitigation, and connected autonomous vehicle (CAV) programs. Specific tasks included developing RFIs for solar power systems, cloud-based vehicular traffic data networks, Mobility as a Service, and federal grant support.

Pedsafe/Greenway CV Project, Orange County, FL, FDOT District 5, Design Engineer. Acey served as the design engineer for this large-scale CV and traffic safety deployment project in Orlando. The WGI team provided collision avoidance warning systems at 37 intersections around the University of Central Florida and congestion mitigation improvements (Greenway) at 247 intersections. This safety study transmitted signal phase and timing data, automated traffic signal performance measures, and intersection movement count data. Also included are CV/AV hardware, emergency and transit vehicle pre-emption, parking availability systems, and campus transit kiosks.

General Engineering Consultant Services, Tampa, FL, FDOT District 7, Engineering Consultant. Acey supported this contract on various assignments with Intelligent mobility, ramp metering design, smart work zones, long range work project scopes, and cost estimates for traffic signal improvements, safety technology, bicycle and pedestrian improvements.

Traffic Signal Services, Pinellas County, FL, Engineering Consultant. Acey provided design and plan production for Pinellas County under a general consultant contract. The projects involved designing and upgrading new and existing traffic signals to accommodate geometric, signing, and striping improvements.

I-75 FRAME–Connected Vehicle Project, Alachua County, FL, FDOT District 2, Quality Control Engineer. Acey served as the quality control engineer for a connected-vehicle communications project along I-75 in FDOT District 2 as Florida's Regional Advanced Mobility Elements (FRAME) program. The project includes CAV technology to assist commercial vehicles and the public safely navigating a section of I-75 that experiences chronic congestion in Alachua County. Provided quality reviews periodically during the design process.

SR 15 (US 17) from Water Oak Lane to Eagle Harbor Parkway, Clay County, FL, FDOT District 2, Engineer of Record. Acey designed new signal improvements for four intersections along SR 15 (US 17) from Water Oak Lane to Eagle Harbor Parkway in Clay County, Florida. This project is a four-lane divided rural roadway, two miles in length and consists of intersection operational improvements, widening, milling and resurfacing, S&PM, signalization, lighting, miscellaneous structures, environmental, geotechnical exploration, and surveying and mapping.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Metro Development Group, ITS Engineer of Record. Acey designed ITS improvements and fiber communication along this CDD development in Pasco count to connect to the area Connected City program and FDOT. Phase 2A of the development includes 590-single family units and associated amenities on approximately 430 acres. This project will design and permit approximately four miles of the road from SR 52 to the future Collector Road south of the future Ridge Road alignment. The roadway section will include a four-lane divided urban curb and gutter (expandable to six lanes), with five-foot bike lanes, six-foot sidewalk (along one side-TBD), 12-foot multi-use path (along the opposite side) and five-foot communications easement adjacent to the multi-use path. The roadway design will also include the design of several roundabout intersections and the widening of SR 52 to accommodate the required turn lane improvements. The proposed Sunlake Boulevard/SR 52 intersection will require a signal warrant analysis and a signal design.

US 17 at Bates Road Signalization Improvements, Polk County, FL, FDOT District 1, Design Engineer. Acey designed traffic signal improvements. As part of the E1R18 Design-Build Pushbutton contract, this task work order provided safety improvements at the intersection of US 17 and Bates Road. Elements of work included new mast arm signalization, S&PM, temporary traffic control, geotechnical investigations, SUE, and utility coordination. Additionally, structural design accounted for future mast arm loading when this intersection is converted from a T-intersection to four-way.

SR 85 from North of SR 123 to North of SR 8, Okaloosa County, FL, FDOT District 3. Quality Control Manager. Acey was responsible for quality control. This resurfacing, restoration, and rehabilitation (RRR) project consists of resurfacing SR 85 from north of SR 123 to Hospital Drive, including travel lanes, auxiliary lanes, median crossovers, and paved shoulders. The existing typical section is a four-lane divided highway and four-lane curb and gutter urban section. Improvements include adding or shifting multiple turn lanes on SR 85 and on the I-10 ramps, extending six turn lanes, adding continuous right-turn lanes northbound and southbound on SR 85 from Hugo Lane to Hospital Drive, adding sidewalk from PJ Adams Parkway to Mirage Avenue, ADA improvements throughout the urban section, and constructing four retaining walls including under the I-10 overpass.

SURVEY AND MAPPING

Allen "Al" Quickel, PSM

REGISTRATIONS:
Professional Surveyor/Mapper: Florida #LS6481, 2004

EDUCATION:
Bachelor of Science, Surveying Engineering - New Mexico State University, 1999

CERTIFICATIONS:
FAA Remote Pilot Small Unmanned Aircraft System

AFFILIATIONS:
Florida Surveying and Mapping Society, District Director

YEARS OF EXPERIENCE
TOTAL: 22
WITH WGI: 2

Al is a senior project manager specializing in transportation, geodetic control, and land acquisition surveying services. He draws on his field survey and office production experience to direct field crews and office technicians in producing high quality deliverables under tight schedules. He is proficient in AutoCAD and MicroStation as a production drafter and survey project technician, and is experienced in Trimble Access, and EFB data collection/processing software, as well as MicroStation V8i/SS4, TopoDOT, GeoPAK, and Autodesk Civil 3D software. Al is knowledgeable in requirements for various FDOT Districts and municipalities.

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Phase Manager. Al served as phase manager. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Project Surveyor. Al provided specific purpose survey mapping for the project, preparing a survey of the existing alignment and right-of-way lines to allow design to fall in existing right-of-way without the need for additional property acquisition**.** This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail, running along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, signing and pavement marking, 3D modeling, utility coordination, survey, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption. SUE services included designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts and foundation clearing.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1, Project Surveyor. Al served as project surveyor. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project involved reconfiguration of existing travel lanes to provide two inbound lanes to the beach and providing pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway was milled and resurfaced to accommodate new bicycle lanes. The temporary traffic control plan was developed to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. Existing signals at Prescott Street/Buttonwood Drive will be converted from alternating signal function to conventional signal function. The scope included extension of ATMS along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. Extensive public involvement was coordinated with Town of Fort Myers Beach, Lee County, and LeeTran. Design of this project was conducted concurrent with the PD&E study.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Metro Development Group, Project Surveyor. Al served as project surveyor. The Angeline Development is located in Pasco County south of SR 52 and east of the Suncoast Parkway. Sunlake Boulevard is the main road through the Angeline development from north to south. The project is in a CDD and is part of the Connected City program. Phase 2A of the development includes 590-single family units and associated amenities on approximately 430 acres. Water, reclaimed water, and wastewater main lines in the Sunlake Boulevard right-of-way provide services for the overall development and access to Phase 2A from Sunlake Boulevard. This project will design and permit approximately four miles of the road from SR 52 to the future Collector Road south of the future Ridge Road alignment. WGI performed SUE designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts.

IKE Smart City Kiosk - Tampa, Hillsborough County, FL, IKE Smart City, LLC., Project Surveyor. Al served as project surveyor. IKE Smart City is installing approximately 100 interactive kiosks in the Tampa and Miami areas. WGI was selected to provide professional survey, civil, and electrical engineering services for 13 of the Tampa-area locations, to aid in the preparation of construction documents, permitting, bidding, and construction. The kiosk locations are in and around Tampa, including the Hilton Tampa Downtown, Channel District, Armature Works, Lykes Gaslight Park, Curtis Hixon Park, MacDill Park, Poe Plaza, Sail Pavilion, and the Tampa Downtown Partnership office. Survey services included providing a topographic survey of the project limits, including will include visible and attainable improvements, in accordance with Chapter 472.027 of the Florida Statutes. It also included right-of-way determination and coordination with UAOs.

Orlando South Ultimate Interchange PD&E, Orange County, FL, Florida's Turnpike Enterprise, Project Surveyor. Al served as project surveyor. This PD&E study evaluated alternative improvements to optimize the Turnpike Mainline/SR 528 interchange operations. Build alternatives included improved ramp directional service within the interchange, express lane direct connections between Turnpike Mainline and Beachline Expressway, improvements to the crossroads and other local street connections, consideration of new or revised interchange access points to existing or future connecting highways, and the necessary improvements along Turnpike Mainline to include structures spanning the Turnpike Mainline to accommodate a future 10-lane expansion that assumes buffer-separated express lanes.

Turnpike Mainline at Taft Vineland Road New Interchange, Orange County, FL, Project Surveyor. Al served as project surveyor. This interchange on Turnpike Mainline at Taft Vineland Road provides access to/from the south on Florida's Turnpike. The Turnpike Mainline northbound exit ramp intersects Taft Vineland Road at Bachman Road. Widening of this intersection includes an additional turn lane onto Bachman Road. Additional ramps to/from the north are constructed as part of the Orlando South Ultimate Interchange (438547-2) project and includes toll gantries. The project also includes partial reconstruction of Taft Vineland Road approaching the overpass at Florida's Turnpike, to tie into the proposed improvements by Orange County. This interchange improves access to the industrial areas along Taft Vineland Road, reducing traffic on Orange Blossom Trail (US 441). This interchange enhances connectivity, provides long-term mobility options and addresses future traffic needs, as well as enhances access during hurricane evacuations and for emergency responders.

US 17 at Bates Road Signalization Improvements, Polk County, FL, Project Surveyor. Al served as project surveyor. As part of the E1R18 Design-Build Pushbutton contract, this task work order provided safety improvements at the intersection of US 17 and Bates Road. Elements of work included new mast arm signalization, S&PM, temporary traffic control, geotechnical investigations, SUE designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts and foundation clearing, and utility coordination. Additionally, structural design accounted for future mast arm loading when this intersection is converted from a T-intersection to four-way.

SR 544 at Alta Vista School Zone Crossing Modifications, Polk County, FL, Project Surveyor. Al served as project surveyor. This task work order addressed school zone safety improvements at SR 544 and Alta Vista in Polk County. Elements of work included upgraded school zone signing and marking to accommodate a new pedestrian crossing; structural design for a new strain pole assembly to hold an overhead school zone sign; driveway and curb ramp reconstruction; analysis of additional loading on an existing strain pole sign assembly; geotechnical investigation; SUE designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts and foundation clearing; and utility coordination.

Osceola Regional Medical Center Parking & Site Make Ready Survey Services, Osceola County, FL, Osceola Regional Medical Center Group, Inc., Project Manager. Al served as project manager and was responsible for delivery of the project. WGI provided survey and SUE services for the Osceola Regional Medical Center site in Kissimmee, Florida. Services included topographical, and boundary survey, as well as Quality Level B utility investigation using electromagnetic and ground penetrating radar to sweep for utilities within the site. Detailed field notes and digital photos, as well as a sketch depicting utilities designated, were also provided.

Montague Street FM Replacement Survey and SUE Services, Hillsborough County, FL, Hillsborough County Board of County Commissioners, Project Surveyor/Alignment and Right-of-Way QC. WGI provided topographic and right-of-way surveying, as well as SUE services to include Quality Level B line designating and Quality Level A test hole locations, for approximately 1.5-miles of Montague Street, from Alonso High School to Waters Avenue. Terrestrial mobile LiDAR was used to capture the majority of topography and planimetric features, with support from conventional surveying. Centerline, right-of-way, and reference control points were surveyed and used to reestablish centerline alignment, right-of-way, and adjacent easement lines. WGI set missing reference marks. All utility date from SUE collection was integrated into final survey base map.

SURVEY AND MAPPING

Eric Orndorff, PSM

REGISTRATIONS:
Professional Surveyor/Mapper: Florida #LS7248, 2019

Professional Land Surveyor: Maryland #21219, 2004

Professional Land Surveyor: Pennsylvania #SU075125, 2006

EDUCATION:
Master of Science, Civil Engineering (Surveying and Mapping) - University of Florida, 2002

Bachelor of Science, Geography - Penn State University, 1995

YEARS OF EXPERIENCE
TOTAL: 21
WITH WGI: 1

*prior to WGI

Eric is the area manager for geospatial services in Central Florida. He is an experienced leader and manager with more than 20 years of experience in engineering consulting and five years in the non-profit sector. Eric is well-versed in both static GPS surveying for control networks and RTK GPS for surveying and GIS data capture and development. He has led surveys for countless projects to support transportation corridor design, area-wide sanitary sewer, water and stormwater infrastructure projects, natural gas well pad and midstream pipeline projects, as well as dozens of municipal and county infrastructure GIS projects.

RELEVANT EXPERIENCE

US 19 (SR 55) from 44th Avenue North to Park Boulevard, Pinellas County, FL, FDOT District 7, Survey Manager. Eric served as a survey manager. This 1.965-mile urban principal arterial segment of US 19 is within the urban buffer limits of the City of Pinellas Park and the LCRA. It is a six-lane urban divided highway with 10- to 12-foot travel lanes, 10- to 11-foot left-turn lanes, raised curbed median, closed drainage system, and sidewalks bordered by dense overhead and underground utilities. This RRR design preserved and extended the life of the existing pavement through milling and resurfacing, brought ADA features into conformance with current standards, brought multimodal issues (including signal and lighting upgrades) into compliance with current standards, and performed general safety modification work that improved the safety of all roadway users. This project improved US 19 operations by increasing the storage capacity of left-turn lanes into several side streets. WGI developed a cost-effective pavement design with lane-specific milling depths. Key design groups involved in the rehabilitation of this section of US 19 included roadway, drainage, utilities, structures, survey, SUE, lighting, signalization, and S&PM. SUE services included designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts and foundation clearing.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Survey Manager. Eric served as a survey manager. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail, running along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption. SUE services included designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts and foundation clearing.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Metro Development Group, Survey Manager. Eric served as a survey manager. The Angeline Development is located in Pasco County south of SR 52 and east of the Suncoast Parkway. Sunlake Boulevard is the main road through the Angeline development from north to south. The project is in a CDD and is part of the Connected City program. Phase 2A of the development includes 590-single family units and associated amenities on approximately 430 acres. Water, reclaimed water, and wastewater main lines in the Sunlake Boulevard right-of-way provide services for the overall development and access to Phase 2A from Sunlake Boulevard. This project will design and permit approximately four miles of the road from SR 52 to the future Collector Road south of the future Ridge Road alignment. WGI performed SUE designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts.

Montague Street FM Replacement Survey and SUE Services, Hillsborough County, FL, Hillsborough County Board of County Commissioners, Project Manager. Eric served as a project manager and was responsible for the delivery of the project. WGI provided topographic and right-of-way surveying, as well as SUE services to include Quality Level B line designating and Quality Level A test hole locations, for approximately 1.5 miles of Montague Street, from Alonso High School to Waters Avenue. TML was used to capture the majority of topography and planimetric features, with support from conventional surveying. Centerline, right-of-way, and reference control points were surveyed and used to reestablish centerline alignment, right-of-way, and adjacent easement lines. WGI set missing reference marks.

East Selmon Expressway PD&E, Hillsborough County, FL, Survey Manager. Eric served as a survey manager. This PD&E Study evaluates the needs, costs, and effects of constructing operational improvements which will increase traffic capacity and safety on the East Selmon Expressway from Meridian Avenue to I-75. The potential future capacity improvements include evaluating an additional lane to the REL) from Meridian Avenue to I-75, additional local lanes of the expressway from the I-4 connector to I-75, and interchange, ramp, and connection capacity and operational improvements at the Brorein Street, Kennedy Boulevard, I-4 Connector, US 301, and I-75. An ERP permit will be required through the SWFWMD.

SR 710 New Alignment from US 441 to the L-63N Interceptor Canal, Okeechobee County, FL, FDOT District 1, Survey Manager. Eric served as a survey manager. This project consisted of the new alignment of SR 710 to a four-lane divided, high-speed urban facility, a project length of approximately 3.8 miles. The intent of the project was to reduce the traffic flow on SR 710 and US 441 by bypassing the City of Okeechobee. Surveying and mapping services included establishment of horizontal and vertical control, aerial target locations, cross sections, digital terrain models, hydrographic surveys, drainage surveys, and location of subsurface utilities. A right-of-way control survey was prepared to facilitate right-of-way mapping for parcels to be acquired along the new alignment, which traverses the L-63 N Interceptor Canal and more than 3.5 miles of grassland and forested terrain.

SR 70 Right-of-Way Mapping, Okeechobee County, FL, FDOT District 1, Project Surveyor. Eric researched Certified Corner Records, retraced existing FDOT RW Maps and integrated record plats linked via GIS parcel data to assist field crews in searching for section corners and right-of-way boundary corners over this 8-mile project corridor.

***Stormwater Structure Inventory Survey, City of Davenport, FL, Southwest Florida Water Management District (SWFWMD) Project Surveyor.** Coordinated surveying and mapping of storm inlets, culverts, and bridges to support a stormwater drainage study in Davenport, Florida. This included assembling exhibits and photos for each structure, as well as delivering a georeferenced .shp file of structure photos.

***Stormwater Structure Inventory Survey and Topographic Survey, City of Gainesville, FL, Project Surveyor.** Coordinated surveying and mapping of several dozen storm inlets, culverts, and bridges to support a stormwater drainage study of the Hogtown Creek watershed. Supervised topographic surveying and mapping to support design of new flood protection wall.

***Transmission Line Route Surveys, Various County Locations, FL, Florida Power & Light Company, Project Manager.** Eric managed four route surveys combining for more than 25 miles. Coordinated aerial mapping and PLS-CADD acquisition from subconsultant, field edits and supplemental surveying as well as provided direction and QA review of final plan preparation. Conducted review and re-established transmission line easements and road right-of-way lines throughout the projects. Integrated parcel GIS data to show approximate property lines and identify ownership throughout each corridor. Coordinated use of ArcCollector smart phone app for collection of pole photos and attributes for an additional required deliverable. Prepared one sketch and description for a sovereign submerged lands easement (SSLE) across the St Johns River.

***Miami to Orlando InterCity Passenger Rail Corridor Surveys, Various County Locations, FL, All Aboard Florida (AAF), Project Surveyor.** Responsible for supervision of field and office activities in the design and location of approximately 20 miles for an ATT duct bank easement area running from Cocoa to Orlando International Airport running within the existing AAF rail corridor. This assignment required close coordination with the both the rail and duct bank design teams as well as the AAF legal team in describing and depicting the location of the easement area. Developed temporary construction easement geometry for approximately 2 miles of proposed rail corridor including legal description and oversight and QA review of final plan preparation. Responsible for supervising surveying and for researching and resolving various street intersection rights-of-way with the corridor.

***SR 434, Sanlando Sidewalk Mapping, Seminole County, FL, Project Surveyor.** Responsible for developing base mapping and right-of-way plans for sidewalk improvement project. Included 4,000-feet of topographic mapping and 6,500-feet of road baseline and right-of-way re-establishment along SR 434, Montgomery Street, and adjacent neighborhood streets.

***Plan Reviews, City of Groveland, Lake County, FL, Project Surveyor.** Perform numerous, routine reviews of site plans, construction plans and plats for proposed development. Develop written responses to consultants based upon plan review and review of city ordinances.

UTILITY AND RAILROAD COORDINATION

Chris' responsibilities include facilitation of resolution of utility/design conflicts between utility owners for facilities located in roadway project limits and the roadway designers and engineers. Chris holds meetings at schedule milestones with all involved parties, including utility owners, designers, and project owners, to discuss potential impacts to existing utility facilities and constructability of the project. Coordination and dissemination of the SUE information is vital in determining conflicts with the proposed roadway design and Chris has a thorough understanding of the latest statutes and regulations, integral to accomplishing these tasks. Chris was recently honored with the 2020 FUCC (Florida Utility Coordination Committee) John J. Farkas Liaison Award for his outstanding contribution and dedication to the utility coordination industry and for consistently exemplifying the FUCC principals.

Christopher "Chris" **Stermer**

EDUCATION:
Associate of Arts, - University of Maryland, 1996

AFFILIATIONS:
United States Navy Veteran

American Society of Highway Engineers,

Florida Utilities Coordinating Committee, Vice Chair & Design Build Sub-Committee Chair

AWARDS:
2020 FUCC John J. Farkas Liaison Award

YEARS OF EXPERIENCE
TOTAL: 22
WITH WGI: 6

RELEVANT EXPERIENCE

Orlando South Ultimate Interchange PD&E, Orange County, FL, Florida's Turnpike Enterprise, Utility Coordination Manager. Chris served as the utility coordination manager. This project was a PD&E study to evaluate alternative improvements to optimize the Turnpike Mainline/SR 528 interchange operations. Build alternatives included improved ramp directional service within the interchange, express lane direct connections between Turnpike Mainline and Beachline Expressway, improvements to the crossroads and other local street connections, consideration of new or revised interchange access points to existing or future connecting highway(s), and the necessary improvements along Turnpike Mainline to include structures spanning the Turnpike Mainline to accommodate a future 10-lane expansion that assumes buffer-separated express lanes.

Colonial Parkway (SR 50) from Woodbury Road to SR 520, Orange County, FL, Florida's Turnpike Enterprise, Utility Coordination Manager. Chris served as the utility coordination manager. WGI assisted with this PD&E study for widening of Colonial Parkway (SR 50/SR 504). Located in Orange County, this study evaluated alternative improvements for widening of a seven-mile segment of SR 50 between Woodbury Road and SR 520, along with the inclusion of limited access general toll lanes within the corridor known as Colonial Parkway. SR 50 (Colonial Drive) is an east-west principal arterial facility. The proposed facility would extend from SR 408 at its current eastern terminus, to SR 520 along the SR 50 corridor. WGI provided added capacity and higher speeds on this tolled east-west corridor to relieve existing and future congestion along existing roadways. The project corridor includes a crossing of the environmentally sensitive Econlockhatchee River. WGI provided survey, utility locates, and landscape architecture services for the study.

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, Utility Coordination Manager. Chris served as the utility coordination manager. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail. The trail will run along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road for approximately 110-feet, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, SUE services, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption.

Schofield Road from US 27 to Lake-Orange County Line, Lake County, FL, CEMEX, Utility Coordination Manager. Chris served as the utility coordination manager Project included reconstruction of Schofield Road from an existing dirt road to a two-lane rural collector roadway serving the primary access route for the CEMEX Four Corners Sand Mine. The total project length is five miles, beginning at US 27 and ending at the Lake-Orange County line. In coordination with Lake County, elements for a future four-lane divided typical section were incorporated into the design. At the county line, the design included an interim connection to the existing roadway and accommodations for the ultimate re-alignment of Schofield Road into Orange County. Stormwater management was permitted through SJRWMD. Design required extensive coordination with Water Conserv. II, a partnership between the City of Orlando and Orange County, who own a 30-inch reclaimed water main used for agricultural irrigation. The water main runs along most of the project limits.

SR 739 (Fowler Street) at Thompson Street Signal Improvement, Lee County, FL, FDOT District 1, Utility Coordination Manager. Chris served as the utility coordination manager. As part of FDOT District 1's Design-Build Push-Button contract, this task work order focused on safety improvements at the intersection of SR 739 and Thompson Street by replacing the existing traffic signals with new mast arms and updating pedestrian facilities. Additional elements of work included milling and resurfacing the intersection within the limits of the curb returns, installation of roadway lighting, S&PM, new pedestrian curb ramps, and a new controller assembly.

District 1 Continuing Services Contract Utility Coordination Support, Polk County, FL, FDOT District 1, Utility Coordination Manager. Chris serves as the utility coordination manager. WGI will provide design and construction related utility coordination services on a continuing service basis directly to the District One District Utility Office, at the direction of the District Utility Administrator. Services shall be provided on premises, on a TWO basis, at the direction of the District Utility Administrator. Services may include the overall coordination of the proposed FDOT projects with the existing and planned utility facilities, to avoid or minimize unnecessary utility conflicts. Other services included processing of utility work schedules, utility agreements, subordinations, utility estimate summaries, and any related work as requested by the District Utility Administrator.

I-75 Southbound Improvements from South of Selmon Expressway to North of SR 60, Hillsborough County, FL, FDOT District 7, Project Manager. Chris also served as the utility coordination manager. The objective of this project was to create a new exit ramp to the Selmon Expressway north of SR 60 consistent with the FHWA-approved Interchange Modification Report. WGI's design included a new two-lane collector-distributor (CD) road combining the new exit ramp with the existing westbound SR 60 to southbound I-75 loop ramp; realignment of eastbound SR 60 to southbound I-75 ramp to connect to the southbound CD road creating a new three-lane CD road; removal of existing southbound I-75 to Selmon Expressway ramp; and widened bridge number 100494. This realignment allowed for a greater weaving distance between SR 60 and the exit ramp to the Selmon Expressway. WGI services included utility coordination, environmental permits, SUE, biddability, and constructability reviews.

SR 52 Pasco County on Premises District 7, Pasco County, FL, FDOT District 7, Project Manager and Utility Coordination. Chris provided in-house support to the District Utility Office, reporting directly to the District Utility Administrator. Chris provided the services necessary for the successful utility certification of the SR 52 realignment project, and any other activities as assigned by the Department District Utility Administrator. This project involved the realignment of SR 52 in Pasco County. Services provided included necessary meetings with all the utility agencies and owners within the corridor, for the proper coordination of their existing utility facilities with proposed construction. This includes the statutory notifications to all the utility agency owners, the identification of utility impacts and design mitigation efforts to avoid or minimize disruption of the existing utility services, the coordination and scheduling of the utility locating effort, as needed to properly map the existing facilities.

SR 54 Utility Coordination from East of Old Millpond Drive to East of Little Road, Pasco County, FL, FDOT District 7, Project Manager. Chris also served as the utility coordination manager. Through WGI's Districtwide Utility Coordination/SUE contract a TWO was issued to provide utility coordination and SUE services on an in-house design project where the Department proposes to mill and resurface throughout the project limits. The project includes replacing the existing strain poles at Old CR 54 with mast arms and replacing the diagonal strain pole configuration at Little Road with a new box span configuration as well as providing lighting throughout the corridor.

I-4 Westbound from West of Orient Road to West of I-75, Hillsborough County, FL, FDOT District 7, Utility Coordination Manager. Chris coordinated with 13 utilities including FGT on this multi-lane interstate reconstruction project. This project included operational improvements for westbound I-4 from Orient Road to the I-75 interchange in Hillsborough County. I-4 is a major east/west urban divided interstate freeway consisting of six lanes within the limited-access right-of-way. I-75 is a major north/south urban divided interstate freeway consisting of six lanes within the limited-access right-of-way. Improvements included the addition of new ramps and new construction/widening of a CD road to more efficiently connect the I-75 interchange/westbound I-4 traffic flowing to westbound I-4 and SR 600/Hillsborough Avenue. The widening included the westbound I-4 bridge over Orient Road. Three new bridges consisted of a new two-lane ramp over the Tampa Bypass Canal, as well as two new one-lane bridges at the east end extending from the northbound and southbound I-75 ramps and then merging into a two-lane bridge approaching the new CD road to the west.

SUBSURFACE UTILITY ENGINEERING

James "Shannon" Wright

EDUCATION:
High School Diploma, - Stranahan High School, 0

CERTIFICATIONS:
Advanced Maintenance of Traffic
Confined Space

AFFILIATIONS:
Florida Utilities Coordinating Committee

YEARS OF EXPERIENCE
TOTAL: 29
WITH WGI: 2

For nearly three decades, Shannon has worked on a diverse range of SUE projects. His hands-on experiences involve a variety of electronic devices, survey equipment, and air/vacuum excavators on transportation and infrastructure improvement projects throughout the U.S. and Puerto Rico. To date, he has performed, supervised, and managed more than 60,000 test holes and 10M linear feet of designating. Shannon has cleared 5,000+ foundations, including CCTV, light poles, mast arms, DMS signs, and cantilevers, as well as performing the necessary survey to correlate and depict the information to the project designer. He also has expertise with utility construction and coordination for highway and bridge improvement projects.

RELEVANT EXPERIENCE

SJR2C Loop Trail-Palmetto Avenue Ridge Boulevard to Beville Road, Volusia County, FL, FDOT District 5, SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. This segment of the SJR2C Loop Trail consists of a 10-foot to 12-foot-wide trail, running along the east side of S. Palmetto Avenue from Ridge Boulevard to Beville Road. The trail will then run along the north side of Beville Road, connecting to the existing trail on the west side of S. Palmetto Avenue which leads into Daytona Beach. Design includes roadway, drainage, lighting analysis, S&PM, 3D modeling, utility coordination, survey, right-of-way mapping, geotechnical studies, minor structures, cultural resources, environmental survey, and permit exemption. SUE services included designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts and foundation clearing.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project involved reconfiguration of existing travel lanes to provide two inbound lanes to the beach and providing pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening of the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguration of lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway was milled and resurfaced to accommodate new bicycle lanes. The temporary traffic control plan was developed to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. Existing signals at Prescott Street/Buttonwood Drive will be converted from alternating signal function to conventional signal function. The scope included extension of ATMS along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. Extensive public involvement was coordinated with Town of Fort Myers Beach, Lee County, and LeeTran. Design of this project was conducted concurrent with the PD&E study.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Metro Development Group. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. The Angeline Development is located in Pasco County south of SR 52 and east of the Suncoast Parkway. Sunlake Boulevard is the main road through the Angeline development from north to south. The project is in a CDD and is part of the Connected City program. Phase 2A of the development includes 590-single family units and associated amenities on approximately 430 acres. Water, reclaimed water, and wastewater main lines in the Sunlake Boulevard right-of-way provide services for the overall development and access to Phase 2A from Sunlake Boulevard. This project will design and permit approximately four miles of the road from SR 52 to the future Collector Road south of the future Ridge Road alignment. WGI performed SUE designating to mark the horizontal position of underground utilities and test holes to investigate potential utility conflicts.

I-75 (SR 93) Rest Area Reconstruction, Hillsborough County, FL, FDOT District 7. SUE Project Manager. Shannon was responsible for directing field crews, reviewing field data, coordinating with utility owners, and submitting deliverables to the client. WGI completed accommodations with adequate restroom and parking facilities for future projected traffic volumes. WGI provided architecture, roadway, drainage, environmental permitting, utilities, survey, and landscape architecture services, as well managed the project's various subconsultants, including geotechnical and ITS. In addition, WGI performed SUE designating of all underground utilities along the proposed water main route and will perform test holes on all utilities crossing the proposed route and at future tie-in points. This design-build project, teamed with Pepper Contracting Services, is WGI's third highly visible rest area project along the highly traveled I-75 corridor.

US 41 (SR 45) at Pelican Marsh Boulevard - Signalization Improvements, Collier County, FL, FDOT District 1. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. Under the D1 Districtwide Design-Build Pushbutton, this task work order implemented signalization improvements on US 41 (SR 45) at Pelican Marsh Boulevard in Naples, Collier County. Elements of work included replacement of existing mast arms at the northwest and southwest corners, relocation of existing CCTV to new mast arms, installation of new signal heads as necessary to meet compliance, and full depth removal of existing mast arm foundations at northwest and southwest corners.

US 441 at NE 9th Street Signalization, Okeechobee County, FL, FDOT District 1. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. As part of the FDOT District 1 DBPB contract, this task work order provided safety improvements at the intersection of US 441 and NE 9th Street through installation of new mast arm signals. Elements of work included railroad coordination to provide pre-emption, along with structural design, signing and marking, geotechnical investigation, SUE investigation, and utility coordination. Design innovations included use of dual-arm mast arms to avoid impacts to an existing underground gas main as well as overhead electric distribution lines.

SR 865 at Gladiolus Drainage, Lee County, FL. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. Under the FDOT District 1 DBPUB contract, this task work order addressed safety issues at the intersection of SR 865 and Gladiolus Drive in Lee County. Elements of work included mitigation of ponding water in an urban superelevated section of SR 865 through the installation of an additional drainage structure and pipe run that connected to the existing drainage infrastructure. Additional design services included temporary traffic control, S&PM, and utility coordination.

US 41 at Pelican Marsh Boulevard Signal Replacement, Collier County, FL, FDOT District 1. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. As part of the FDOT District 1 DBPB contract, this task work order involved replacement of damaged existing signalization at the intersection of US 41 and Pelican Marsh Boulevard in Collier County. Additional elements of work included structural analysis of the northeast mast arm to accommodate new signal and sign configurations, removal of temporary signalization, geotechnical investigation, SUE investigation, and utility coordination.

SR 60 at 80 Foot Road, Polk County, FL. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. As part of the D1 DBPB contract, this task designed safety improvements to mitigate crashes at the intersection of SR 60 and 80 Foot Road in Polk County. Elements of work included new mast arm signalization, signal timing design, intersection lighting, and signing and marking. Additional services required for this task included topographic survey, SUE, utility coordination, and geotechnical investigation. All improvements were designed and constructed in 365 days.

US 17 at Bates Road Signalization Improvements, Polk County, FL. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. As part of the E1R18 Design-Build Pushbutton contract, this task work order provided safety improvements at the intersection of US 17 and Bates Road. Elements of work included new mast arm signalization, S&PM, temporary traffic control, geotechnical investigations, SUE, and utility coordination. Additionally, structural design accounted for future mast arm loading when this intersection is converted from a T-intersection to four-way.

Military Trail at Indian Creek Parkway Signal Replacement, Palm Beach County, FL, Town of Jupiter. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. This project consisted of the replacement of the existing span-wire signals with mast arm signals at the intersections of Military Trail and Indian Creek Parkway in the Town of Jupiter. Design services included signalization, miscellaneous structures, utility coordination, survey, and SUE. Additional project requirements included permitting the proposed improvements with Palm Beach County, and ensuring compatibility of the intersection with Palm Beach County signal interconnect plans.

Turnpike Mainline at Taft Vineland Road New Interchange, Orange County, FL. SUE Project Manager. Shannon managed and coordinated with field crews and utility owners. This interchange on Turnpike Mainline at Taft Vineland Road provides access to/from the south on Florida's Turnpike. The Turnpike Mainline northbound exit ramp intersects Taft Vineland Road at Bachman Road. Widening of this intersection includes an additional turn lane onto Bachman Road. Additional ramps to/from the north are constructed as part of the Orlando South Ultimate Interchange (438547-2) project and includes toll gantries. The project also includes partial reconstruction of Taft Vineland Road approaching the overpass at Florida's Turnpike, to tie into the proposed improvements by Orange County. This interchange improves access to the industrial areas along Taft Vineland Road, reducing traffic on Orange Blossom Trail (US 441). This interchange enhances connectivity, provides long-term mobility options, and addresses future traffic needs, as well as enhances access during hurricane evacuations and for emergency responders.

LIGHTING

Brett Fuller, PE

REGISTRATIONS:
Professional Engineer: Florida #PE78486, 2015

EDUCATION:
Bachelor of Science, Civil Engineering - University of Miami, 2009

Master of Engineering, Civil Engineering - University of Florida, 2011

CERTIFICATIONS:
Advanced Maintenance of Traffic | Advanced Temporary Traffic Control | FDOT Specifications Package Prep

AFFILIATIONS:
American Society of Civil Engineers | Florida Engineering Society, 9014922

YEARS OF EXPERIENCE
TOTAL: 11 | **WITH WGI:** 10

Brett brings our team comprehensive experience in planning and final engineering design of major/minor roadway facilities. He has extensive knowledge of plans production; vertical and horizontal geometric design; intersection design; S&PM, including GuideSIGN; signalization; traffic forecasting and modeling; and quantity and cost analysis. He has expertise in design software, including MicroStation and GEOPAK. He also is experienced in intersection/corridor lighting design and AGi32 photometric analysis software.

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Project Engineer. Brett served as the lead engineer for the S&PM design. Responsible tasks included S&PM design, GuideSIGN design, and multipost sign analysis. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, S&PM, utilities, and other roadway features.

US 441/SR 7 Lighting Design and Retrofit between Riverland Road and Davie Boulevard/SR 736, Broward County, FL, FDOT District 4, Project Manager. Under WGI's Districtwide Minor Design contract with D4, this project included horizontal photometric analysis along SR 7 north of Riverland Road to south of Davie Blvd, and intersection photometric analyses at the Riverland Rd intersection. Lighting design/plans were developed based on results of the photometric analysis and latest FDOT/FPL lighting criteria and standards. Utility coordination and survey services were included to facilitate the design and retrofitting of existing FDOT lighting and FPL distribution poles.

Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Project Engineer. Sunlake Boulevard is the main road through the Angeline development from north to south. The project is in a CDD and part of the Connected City program and will design and permit four miles of roadway from SR 52 to the future Collector Road south of the future Ridge Road alignment. It will include a four-lane divided urban curb and gutter, with five-foot bike lanes, six-foot sidewalk, 12-foot multi-use path, and five-foot communications easement adjacent to the path. It also includes several roundabouts and widening of SR 52 to accommodate the turn lane improvements. The proposed intersection required a signal warrant analysis and signal design. Bridges will be designed when the alignment crosses designated wetlands to minimize impacts.

Jog Road Extension from SR 710 to Northlake Boulevard, Palm Beach County, FL, Palm Beach County Roadway Production, Project Engineer. Brett was responsible for the signalization design including the design of one new intersection and the retrofit of two intersections. This project consisted of the extension of Jog Road from SR 710 (Beeline Highway) to Northlake Boulevard, approximately 0.7 miles. This new section of Jog Road includes a two-lane divided collector roadway with provisions for a future ultimate four-lane divided urban roadway which included an eight-foot-wide multi-use path adjacent to the right-of-way. WGI's design efforts included horizontal and vertical alignments, roadway typical sections, closed drainage conveyance systems, use of existing stormwater management facilities, permitting through multiple agencies, extensive environmental research as part of an avoidance/minimization effort, utility coordination, and signal modifications.

Military Trail at Indian Creek Parkway Signal Replacement, Palm Beach County, FL, Town of Jupiter, Project Manager. This project consisted of the replacement of the existing span-wire signals with mast arm signals at the intersections of Military Trail and Indian Creek Parkway in the Town of Jupiter. Design services included signalization, miscellaneous structures, utility coordination, survey, and subsurface utility engineering. Additional project requirements included permitting the proposed improvements with Palm Beach County, and ensuring compatibility of the intersection with Palm Beach County signal interconnect plans.

Banyan Boulevard Improvements from Tamarind Avenue to Olive Avenue - Phase I, Palm Beach County, FL, City of West Palm Beach, Engineer of Record. Brett was responsible for the preliminary and alternative roadway designs as well as signalization modifications for a complete street project to transform a high-trafficked city street into a highly visible gateway into the downtown business district. The City of West Palm Beach is embarking upon a transformation of the Banyan Boulevard corridor from Tamarind Avenue to Olive Avenue. With proper execution, this project will transform this roadway from what has historically been considered a dividing line between the northwest neighborhoods and the northern border of downtown West Palm Beach into a highly visible gateway into the downtown business district. To accomplish this task, the scope of services includes urban planning and design, traffic engineering and transportation planning, public outreach, topographic survey, geotechnical testing, signalization modification, photometric and lighting design, roadway design, construction sequencing, landscape architecture, and minor utilities adjustments.

Banyan Boulevard Phase II, Design and Contract Document Services, Australian Avenue to Flagler Drive, Palm Beach County, FL, City of West Palm Beach, Engineer of Record. Brett was responsible for preliminary/alternative roadway design and signalization modifications to transform this busy street into a downtown multimodal gateway, giving access to downtown West Palm Beach, waterfront, and the downtown entertainment district. This corridor redevelopment creates a vibrant street and downtown entrance, prioritizing pedestrians/bicyclists, designed for alternative mobility/safe accommodation of cars. The design transformed it to a bicycle/pedestrian-friendly link. The recommended design used a raised/protected bike track, reduced pavement width, and a tree canopy that creates a sense of enclosure and visual order. This design reinvents Banyan Boulevard as a corridor prototype for multimobility in the City.

Martin Downs Blvd Intersection Improvements at Sand Trail and Crane Creek Ave, Martin County, FL, Martin County BOCC, Project Manager. The project consisted of the completion of final design plans and construction specifications for the intersections of SR 714/Martin Downs Boulevard at Crane Creek Ave and Sand Trail. At the intersection of SR 714 and Sand Trail, improvements included roadway widening for the eastbound approach to provide a dedicated left turn lane and a dedicated right turn lane for the approach. At the intersection of SR 714 and Crane Creek, improvements included upgrading the existing strain pole system to a mast arm system and providing lighting at the intersection to meet current FDOT pedestrian lighting criteria. WGI was responsible for roadway, S&PM and drainage design and plans production, structures design related to the proposed mast arm signal foundations, utility coordination, design survey and subsurface utility exploration.

SR 5/US 1 from SR A1A/Ocean Boulevard Beach Road Bridge, Palm Beach County, FL, FDOT District 4. The project involved the replacement of the four-lane SR 5/US 1 Bridge over the Loxahatchee River and Intracoastal Waterway along with one mile of roadway approach reconstruction in Palm Beach County. The project consisted of replacing the existing four-lane bridge with a wider four-lane bridge constructed along the same alignment as the existing bridge. The new bridge accommodated seven-foot bicycle lanes and eight-foot sidewalks on both sides of the road. Traffic railings separated pedestrian facilities from travel lanes. The bridge was constructed with a phased construction approach to maintain traffic along SR 5/US 1. This approach allowed traffic to be maintained on one half of the bridge throughout the duration of construction. The Jupiter SR 5/US 1 Bridge is a mid-level bascule bridge to replace the existing low-level bascule bridge. The project improved both vehicular and waterway traffic flows. The estimated cost of the improvements, including roadway construction, was approximately $94M. In addition to the mainline bridge replacement project, the FDOT requested our team to focus on conceptual alternatives at the intersection of SR 706 (Indiantown Road) and SR 811 (Alt. A1A). These intersections are critical to a detour route to be utilized during the full bridge closure to help increase LOS, enhance safety during construction, and help facilitate pedestrian accommodations. During the development of various conceptual alternatives for this intersection the scope changed from permanent alternatives to temporary alignment solutions. Finally, the FDOT requested we also evaluate the intersections of SR 5 (US 1) at SR 706 (Indiantown Road), and SR 5 (US 1) at Beach Road, to provide similar conceptual alternatives.

SR 9 (I-95) at Pembroke Road Safety Improvements, Broward County, FL, FDOT District 4, Project Engineer. As part of a districtwide contract, this task assignment originally included various operational improvements at the I-95/Pembroke Road interchange. The improvements included additional right-turn lanes at the northbound and southbound ramp terminals and other incidental improvements such as drainage, S&PM, lighting, and signalization. This supplement included safety recommendations that expanded the scope of the original assignment to include replacement of all mast arm signal assemblies, minor pavement widening along the on-ramps, and upgrading the entire roadway lighting system to LED luminaires along all ramps and at the intersections of the ramp terminals on SR 824 (Pembroke Road).

URBAN AND COMMUNITY PLANNING

Angela Biagi, PLA, LEED BD+C

Angela is a director at WGI, leading the firm's urban + community planning department. She leads a talented team of planners and designers who are dedicated and experienced in shaping the public realm. An active member of her community, and respected professional in the industry, her passions include urban design, complete streets, and multi-model transportation projects. Leveraging her landscape architecture background, along with her experience in planning, she works with agencies to provide planning and design solutions that create vibrant, safe and livable communities. Her project experience involves master plans, complete street design, site and landscape design for corridor and open space design, and extensive project coordination, including comprehensive plan and zoning code updates.

REGISTRATIONS:
Professional Landscape Architect: Texas #3633, 2021

Professional Landscape Architect: Florida #LA6666787, 2005

EDUCATION:
Bachelor of Landscape Architecture, - University of Illinois, 2001

CERTIFICATIONS:
LEED BD+C

AFFILIATIONS:
American Society of Landscape Architects

Congress for the New Urbanism

YEARS OF EXPERIENCE
TOTAL: 20
WITH WGI: 7

RELEVANT EXPERIENCE

City of Palm Beach Gardens - TOD Master Plan, Palm Beach County, FL, City of Palm Beach Gardens, QC Reviewer. Angela provided recommendations for revising density, design, green building, and development standards. WGI assisted City staff with updating the City's comprehensive plan and land development regulations to address their recently completed transit-oriented development (TOD) master plan. Tasks included evaluating and providing recommendations for adding and revising goals, objectives, and policies in support of the TOD plan. WGI provided recommendations for a green building density bonus program, design, and development standards.

Jefferson Terminal District Parking Use Study, Palm Beach County, FL, City of West Palm Beach, Project Manager. Angela served as the project manager. Under the transportation engineering planning consultant continuing services contract, the City of West Palm Beach authorized WGI to complete a parking study for the Jefferson Terminal District and their redevelopment. The redevelopment options have led to a formal visioning process. Stakeholder meetings identified parking as an important consideration as the planning and development process moves forward. The City of West Palm Beach is interested in understanding the parking dynamics of the District, specifically focusing on the relationship between land use and existing parking supply. WGI parking staff has conducted similar studies in cities across the country. The scope of work includes a parking inventory and GIS mapping of current conditions, land use and parking ratio analysis, and a parking capacity analysis.

Due Diligence Research for Various Palm Beach County Properties, Palm Beach County, FL, Capital Investments Real Estate Corp. Phase Manager. WGI was selected to provide due diligence research and representation services for Capital Investments Real Estate Corp. to construct approximately 1,000 residential homes on various parcels ranging in size from approximately one acre up to 25 acres. The proposed properties were scattered throughout all of Palm Beach County and several of the parcels were infill and/or rural development. WGI prepared due diligence research to determine the land use, zoning, existing master/site plan approvals, development regulations, and approval processes for obtaining residential uses on the parcels as identified by the client. WGI also represented the client before the governing municipality to discuss development of the properties with the proposed residential uses.

Alternative Mobility Funding Systems Study, Leon County, FL, City of Tallahassee, Project Manager. Angela provided quality control for the project. WGI evaluated the existing and potential long-term transportation funding options based on financial efficiency and community objectives. The study included extensive stakeholder outreach, the creation of a public involvement plan, and the facilitation of planning charrettes. Additionally, WGI analyzed the comprehensive plan, Florida Statutes, GIS development data, land use, transportation, traffic characteristics, funding mechanisms, existing plans, and projected growth. The study ultimately recommended a tiered mobility fee for the City of Tallahassee and Leon County that fulfills transportation funding demands, accomplishes mobility objectives, and is supported by community stakeholders.

City of Hardeeville, Comprehensive Plan Update, Jasper County, SC, City of Hardeeville, Planner. Angela was the phase manager for the project. WGI reviewed the City of Hardeeville's comprehensive plan and updated four of the nine mandatory elements based on changed projections and assumptions plus new issues. The four elements updated were community facilities, land use, transportation, and priority investment. The process included extensive community outreach, review of comparable communities' growth management strategies, analyzing updated South Carolina statutes, and evaluating statistics and data related to the City and the region, all of which were utilized to devise development principles and growth strategies for the update.

Westgate Cherry Road TPA Grant 2020, Palm Beach County, FL, Westgate Belvedere Homes CRA, QC Manager. Angela was the quality control manager for the project. WGI was retained to prepare a project feasibility report and provide grant writing assistance for the 2020 Palm Beach County Transportation Agency (TPA) Transportation Alternatives Program grant cycle. The project location, Cherry Road, connects a residential community with a commercial corridor and is heavily traveled by pedestrians and transit users, but has disconnected sidewalks and no bicycle facilities. WGI prepared a master plan graphic, designed typical cross section alternatives, and prepared cost estimates for pedestrian safety improvements which included a 10-foot multi-use path, traffic calming, additional landscape, pedestrian scale lighting, and a protected mid-block crossing. WGI staff was also involved with public outreach and meeting with stakeholders. The project was awarded a $1M grant from the TPA grant program.

Banyan Boulevard Phase II, Design and Contract Document Services, Australian Avenue to Flagler Drive, Palm Beach County, FL, City of West Palm Beach, Landscape Architect of Record. Angela led the urban design and was the landscape architect of record on the project. Banyan Boulevard functions as a gateway into downtown West Palm Beach for many government employees and residents. The corridor provides access to the waterfront and a connection to the heart of the downtown entertainment district. The goal of this corridor redevelopment was to create a vibrant street and a downtown gateway, prioritizing pedestrians and cyclists, and designed with alternative mobility infrastructure, as well as safe accommodation of automobiles. Typical roadway sections were developed to transform the corridor into a bicycle and pedestrian-friendly link. The recommended typical section incorporated a raised protected cycle track for the length of the corridor, protecting cyclists from vehicular conflicts and reducing the width of pavement, which lends itself to slower driving speeds. The use and placement of the tree canopy creates a sense of enclosure and visual order. Due to the urban setting, soil cells installed underneath the sidewalk were a key component to the overall design to ensure the trees would have enough soil and water to thrive. Bioswales planted with native ground cover were used to alleviate drainage issues throughout the corridor. This design reinvents Banyan Boulevard as a corridor prototype for multimobility within the City.

Saddle Trail Park (South) Neighborhood Improvement Project, Palm Beach County, FL, Village of Wellington, Landscape Architect of Record. Angela was the landscape architect of record. WGI provided surveying, engineering design, permitting, public involvement assistance, bond assistance, and construction engineering services for the Saddle Trail Park (South) Neighborhood Improvement project. Saddle Trail Park is part of Wellington's Equestrian Preserve area and presented unique obstacles for the design and construction of the project. Key components of the project included the paving of existing shellrock roads, construction of new equestrian bridle trails, and traffic calming. WGI also provided full-time on-site construction phase services through the duration of the project.

SR 5 (US 1) Cudjoe Key, Monroe County, FL, FDOT District 6. Contract Manager. This project encompasses over three miles of roadway through Cudjoe Key in the lower Florida Keys. WGI provided planning design services, prepared the traffic control plans, and developed project control sheets. Improvements included landscape and irrigation along the shoulders of SR 5/US 1 and a section of the Florida Keys Overseas Heritage Trail.

Miscellaneous Landscape Architecture Services GGI Analysis, Miami-Dade County, FL, FDOT District 6, Phase Manager. Angela served as phase manager. WGI provided a comprehensive analysis of landscape impacts for the entire Golden Glades Interchange improvement projects. This including analysis potential landscape impacts from 15 roadway projects with the interchange. WGI provided all coordination between each of the roadway project managers, the District Landscape Architect and the District right-of-way department.

Delray Beach Parking/Mobility Study, Palm Beach County, FL, City of Delray Beach, Planner. Angela assisted with stakeholder outreach and general project oversight. The City of Delray Beach selected WGI to provide a proposal for professional services for Parking and Curbside Management Master Plan. Work includes analysis, public engagement, and planning exercises that will conclude in creation of the Master Plan, which will update the existing 2010 parking master plan and include a new curbside management element as part of a new plan. The plan will update data elements, provide context to technological advances in transportation and their impacts locally, determine feasible alternatives for the City to consider, and identify policies and projects to implement the plan.

LANDSCAPE ARCHITECTURE

Christine **Crespo Valentin, PLA**

Christine has nearly a decade of landscape design experience in a range of project types, including design for transportation, corporate site planning and design, and high-end residential design. Christine's experience covers multiple aspects of the design process, including concept generation, site inventory, site planning, landscape design, project specifications, and installation inspection.

RELEVANT EXPERIENCE

SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5, Landscape Architect. Christine provided landscape design services. This project designed and constructed 5.5 miles of a limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included a non-tolled service road for local travel, three new bridges over the Wekiva River, and several pairs of wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail was included along this section. Other services included bridge design, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians, turn lanes, drainage, lighting, signing and pavement marking, utilities, and other roadway features.

I-75 Charlotte County Rest Area Design, Charlotte County, FL, FDOT District 1, Landscape Architect. Christine provided landscape design services. WGI provided architecture, roadway, drainage, environmental permitting, utilities, survey and landscape architecture services, as well managed the project's various subconsultants including ITS. Accommodations will be made for adequate restroom and parking facilities for future projected traffic volumes. Florida's rest area facilities are ideal locations to showcase innovative Architecture to the millions of travelers along the interstate system. The two locations along I-75 in Charlotte County are highly visible from the interstate, as well as from the surrounding context. The design will be a vibrant, timeless facility that fits within the modern, coastal Southwest Florida setting. The highest level of safety and security is designed into the architecture and site, driven by the "crime prevention through environmental design" multi-disciplinary approach and principles. All building entrances, public rest area amenities and parking areas are designed with clear sight lines from the security office. Situated in the open-air courtyard between each building's two restroom wings, this office will have 360-degree views of the publicly accessible areas. Minimizing hiding places, abundant lighting levels at pedestrian areas, efficient parking layouts, locations of amenities and the careful selection of landscape & hardscape materials support this overall concept of safety. Other design considerations for these sites includes separate pavement designs provided for access ramps, shoulders, and parking areas within the site. The rest area facilities incorporated a combination of a closed/open drainage system with new detention ponds designed to treat and attenuate the new impervious area. On-site mitigation for floodplain impacts was incorporated into the design. Permits were obtained from USACOE, SWFWMD, and the FDEP. Planting and irrigation plans will use low maintenance species, while addressing mitigation for removal of existing trees.

Pedestrian/Bicycle Bridge Concept Additional Services, Miami-Dade County, FL, City of Doral, Landscape Architecture. Christine provided landscape design services. WGI performed this work as part of a continuing services contract with the City of Doral. This project included the development of design-build RFP criteria for architecture and bridge aesthetics, utility coordination, and environmental documentation. Deliverables and specific RFP components included a bridge aesthetic manual, completed permitting applications, and utility documentation. The bridge aesthetics manual (BAM) will be included within the criteria document as a means to identify architectural and aesthetic requirements for the proposed pedestrian bridge. WGI also utilized the latest in visualization technologies to enhance the BAM with photo-realistic 3D imagery of the proposed pedestrian bridge concept design.

REGISTRATIONS:
Professional Landscape Architect:
Florida #LA6667421, 2018
Puerto Rico #128, 2020

EDUCATION:
Bachelor of Science, Horticulture and Agronomy - Agricultural Sciences - Universidad de Puerto Rico, 2008
Master of Landscape Architecture, - North Carolina State University, 2012

CERTIFICATIONS:
FDOT Design Exceptions and Variations
FDOT Highway Landscape Management: Designing Landscapes for FDOT
FHWA Designing Pedestrian Facilities for Accessibility

AFFILIATIONS:
American Society of Landscape Architects
Hillsborough County Metropolitan Planning
International Society of Arboriculture
Urban Land Institute

YEARS OF EXPERIENCE
TOTAL: 9 **WITH WGI:** 4

I-75 Widening Design-Build from South of SR 50 to Hernando/Sumter County Line, Hernando County, FL, FDOT District 7, Landscape Architect. Christine provided landscape design services. This $94M design-build project consisted of widening and reconstruction of six miles of I-75 in Hernando County, including reconstruction of the interchange at SR 50 (US 98 Cortez Boulevard) to a single point urban interchange (SPUI) configuration. The I-75 bridges over SR 50 were replaced with single-span steel girder bridges designed to accommodate a future 10-lane typical section for I-75 and eight-lane typical section for SR 50. Approximately one mile of SR 50 was widened and reconstructed within the interchange limits using concrete pavement. New high mast lighting was designed for the interchange and signals were replaced at the ramp intersections. New ITS infrastructure was designed along I-75 and SR 50. UWHC plans were developed for relocation of Hernando County water and wastewater mains. The project included replacement of the guardhouse at the entrance to the Withlacoochee State Forest Croom Motorcycle Area. I-75 bridges over Croom Rital Road and the Withlacoochee River were widened to accommodate new lanes. Environmental permits were secured from SWFWMD and USACE. Other services included signing and pavement marking, geotechnical investigation, gopher tortoise survey and relocation, utility coordination, and public involvement.

HEFT (SR 821) Widening from SR 836 to NW 106th Street, Miami-Dade County, FL, Florida's Turnpike Enterprise, Landscape Architect. Christine provided landscape design services. The project consisted of completion of final design plans and construction specifications for widening of the HEFT (SR 821) from south of SR 836 (Dolphin Expressway) to NW 106th Street to 10 lanes, including the incorporation of express lanes. The project included design and inclusion of the ultimate HEFT/SR 836 interchange incorporating all movements to and from the two expressway facilities, including direct connections to the HEFT express lanes to and from the west, and incorporation of a new northbound entry ramp at NW 41st Street from NW 117th Avenue. Design included roadway, drainage, stormwater management, signing and pavement marking, structures, toll gantries and facilities, ITS, lighting, environmental permitting, landscape architecture, utility coordination, subsurface utility exploration, and survey and mapping. The structural scope included numerous Florida I-Beam bridge widenings and additional curved steel flyovers at the SR 836/HEFT interchange.

SR 5 (US 1) Cudjoe Key, Monroe County, FL, FDOT District 6, Landscape Architect. As Landscape Architect, Christine provided landscape design services for this project. This project encompasses over three miles of roadway through Cudjoe Key in the lower Florida Keys. WGI provided planning design services, prepared the traffic control plans, and developed project control sheets. Improvements included landscape and irrigation along the shoulders of SR 5/US 1 and a section of the Florida Keys Overseas Heritage Trail.

Sandra Scheda

Environmental Permitting

As a scientist for more than 35 years, Ms. Scheda has extensive experience in managing and conducting environmental planning projects, biological assessments and related studies and permitting. These efforts have typically involved development of NEPA documentation, wetland delineation, mitigation design, surface and groundwater quality studies, and permitting. Her permitting experience includes projects requiring wetland impact permits, bridge permits, and sovereign submerged land easements. Ms. Scheda has extensive experience on transportation projects, focusing on environmental data collection and analysis, development and evaluation of project alternatives, impact assessment, and compiling required environmental documents and permit applications. She is also well-versed in transportation construction designing erosion control, implementing water quality monitoring and protected species protections/monitoring and watch programs, obtaining permit modifications, and conducting regulatory agency liaison. She has permitted and led compliance monitoring efforts for several design-build projects.

EDUCATION
M.S., Zoology
B.A., Geology
B.A., Biology, University of South Florida

35 Years of Experience

CERTIFICATIONS/ REGISTRATION

FDOT PD&E Manual Process Training

FDOT Water Quality Impacts Evaluation

FDEP Wetland Delineation Certification

NAUI Open Water Certification, #455509

FDOT Environmental Management Office, NEPA Training

Mutual Gains Negotiation, FDOT

Construction Contract Interpretation, FDOT

FDOT Water Quality Impact Evaluation, Certification #139

PD&E Training, FDOT

CSX Roadway Worker Protection Contractor Safety

Uniform Mitigation Assessment Methodology, FDEP

FDEP Wetland Delineation and SHGW Certification

Relevant Experience

SR 50 from West of CR 757 to the Sumter/Lake County Line (FDOT D5, Ongoing). *Environmental Project Manager.* Ms. Scheda is currently managing the environmental activities for this widening from 2 to 4 lanes. Environmental tasks have included wetland and surface water delineations and functional assessments, listed species surveys (species-specific surveys for gopher tortoises and sand skinks), and State/Federal permitting. Other project environmental concerns have included coordination with and potential for impacts within the Withlacoochee State Forest (WSF), related mitigation, 'Plan B' wetland mitigation planning, survey for protected plants species and planning for their relocation, and support to the landscape architect related to grand or unique trees located near the project footprint.

Orlando South Ultimate Interchange PD&E at SR 91 and SR 528, Orange County, FL (Florida's Turnpike Enterprise). This PD&E Study evaluated alternatives to optimize interchange operations at the Florida's Turnpike (SR 91) and the Beachline Expressway (SR 528). Ms. Scheda provided environmental project management, senior project oversight, and quality assurance review for the Natural Resource Evaluation.

SR 7 Corridor Extension PD&E Study, Palm Beach County, FL (FDOT D4). Ms. Scheda managed ESA's efforts for this PD&E study including data collection, impact analysis and documentation regarding wetlands/mitigation alternatives, protected species, water quality and contamination. The project involved a 4-mile extension or SR 7 roadway and shared use path and resulted in impacts to over 50 acres of wetlands and habitat for the federally endangered Everglade snail kite. She completed all agency liaison, and environmental project documents including the Wetland Evaluation Report, Endangered Species Biological Assessment and Contamination Screening Evaluation. In addition, she supported the compilation of the project's EA/FONSI, and the issuance of the USFWS Biological Opinion.

Wekiva Parkway over the Wekiva River, Section 6 Design-Build, Lake and Seminole Counties, FL (FDOT D5). *Quality Assurance for Permitting and Protected Species Surveys-Relocations.* Ms. Scheda supported this project during the procurement and permitting phases with senior level review and guidance for all environmental issues and permit application modifications. Environmental issues included the crossing the environmentally sensitive Wekiva River, development of mitigation solutions, state forest lands, maintenance of wildlife movements during construction of the wildlife crossing bridge(s), revegetation plans for the wildlife crossings, and gopher tortoise relocations.

Wekiva Parkway Sections 4A/4B Design-Build, Orange and Lake Counties, FL (FDOT D5). *Quality Assurance for Protected Species Surveys-Relocations.* Ms. Scheda supported this project during the procurement and initial construction phases with senior level review and guidance for all protected species issues and related activities. Project scope included assistance to the design team with preconstruction gopher tortoise and burrowing owl surveys, preparation of permit applications, and relocation activities. In addition, migratory bird nest removal permit applications were obtained.

Orlando South Ultimate Interchange PD&E at SR 91 and SR 528, Orange County, FL (Florida's Turnpike Enterprise). This PD&E Study evaluated alternatives to optimize interchange operations at the Florida's Turnpike (SR 91) and the Beachline Expressway (SR 528). Ms. Scheda provided environmental project management, senior project oversight, and quality assurance review for the Natural Resource Evaluation.

I-4 Ultimate Design-Build-Finance, Osceola, Orange and Seminole Counties, FL (SGL). *Quality Assurance for As-Needed Protected Species Surveys-Relocations.* Ms. Scheda supported this design-build project with senior level review for all protected species related issues. During construction the ESA team provided as-needed protected species support, with the majority of our efforts focused on gopher tortoise surveys, permitting and relocation.

Magnolia Avenue PD&E Study, Marion County, FL. (FDOT D5). *Quality Assurance Manager. For this road widening in the City of Ocala, Ms. Scheda was the Quality Assura*nce Manager in charge of oversight of the field investigations quality control review of environmental documents for the project.

CR 510 PD&E Study, Indian River County, FL (FDOT D4). *Environmental Project Manager***.** This project involved an impact analysis and study of design alternatives for the widening of 6 miles of CR 510 from 2 to 4 lanes. Environmental concerns included EFH, contamination sites, and conservation land (Indian River Lagoon and Wabasso Scrub Conservation Area). Ms. Scheda coordinated and conducted all field surveys for wetlands evaluation, and contamination screening and prepared the related PD&E documents. In addition, she provided quality assurance review of the protected species documentation and compiled the Type II Categorical Exclusion support document.

Able Canal Pathway from Harns Marsh to Joel Boulevard (CR 884) PD&E Study, Lee County, FL (FDOT D1). This project examined alternatives for incorporating a 6-mile trail within Able Canal right-of-way in eastern Lee County. Ms. Scheda was responsible for the Water Quality Impact Evaluation and Natural Resources Evaluation for the project.

US 331 PD&E Study, from I-10 to the Alabama State Line, Walton County, FL (FDOT D3). Ms. Scheda supported the development of draft documents for this 25-mile project including the quality assurance reviews for the Natural Resource Evaluation and TSM&O Alternative Technical Memorandum.

SR 80 PD&E Study from LaBelle to US 27, Hendry County, FL (FDOT D1). This project involved an impact analysis and study of design alternatives for the widening of 20 miles of SR 80 from 2 to 4 lanes. Also included was a corridor study element that evaluated placing SR 80 on a new alignment from west of Everhigh Acres Road to US 27. Environmental concerns included the presence of the Audubon's crested caracara, bald eagle, Florida scrub jay, and Florida panther. Ms. Scheda conducted field surveys for protected wildlife and plants, evaluated existing habitats and land use, completed the farmlands assessment along with environmental assessments of pond sites, and conducted all agency coordination. Related PD&E documents were prepared (Endangered Species Biological Assessment, Water Quality Impact Evaluation, and Farmlands Assessment).

Craig G. Ballock, P.E.

GEOTECHNICAL

Geotechnical and Environmental Consultants, Inc.

EXPERTISE:
Geotechnical Engineering

Construction Materials Testing

YEARS OF EXPERIENCE:
17 years of experience
16 years with GEC

EDUCATION:
Master of Science
2007|Civil Engineering
University of Central Florida

Bachelor of Science
2004|Civil Engineering
University of Central Florida

LICENSES:
Florida Licensed Professional Engineer
FL No. 71571

PROFESSIONAL ORGANIZATIONS:
American Society of Civil Engineering (ASCE) Member

ASCE East Central Florida Branch Past President

ASCE East Central Florida Branch Geo-Institute Chapter Former Chair

ASCE East Central Florida Branch Charity Golf Tournament Chair

Florida Engineering Society (FES) Member

Mr. Ballock has 17 years of experience in geotechnical engineering in the Central Florida area. Craig has performed geotechnical engineering services for numerous infrastructure-related public works projects for Lake, Orange, Seminole and Osceola Counties. He has also worked on major transportation infrastructure projects for the Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE) and the Central Florida Expressway Authority (CFX).

SR 40 Multi-Use Trail, Marion County, Florida. Project Manager for the 3.8-mile, 10-foot wide multi-use asphalt trail. The alignment starts on the north side of SR 40 west of NE 60th Street and continues east approximately 3.8 miles following the SR 40 alignment, turns south under the SR 40 (via the Ocklawaha River Bridge) and ends at the Ray Wayside Park.

SR 46 Widening from US 441 to Vista View Lane, Lake County, Florida. Senior Geotechnical Engineer for 1.3-mile long widening of SR 46 from 2 to 4 lanes and 1.0 mile-long widening of US 441 from 4 to 6 lanes along with interchange re-design. The design project included a new 470-foot long fly-over ramp bridge, stormwater ponds, retaining walls and sinkhole risk evaluation.

Kissimmee Pedestrian Bridge over John Young Parkway, Kissimmee, Florida. Project Engineer for the geotechnical engineering investigation for the design of a 1,124-foot long pedestrian bridge crossing John Young Parkway. The bridge includes a 220-foot long single span and a total of approximately 900 feet of elevated walkway on both ends of the bridge. The main span of the bridge will be supported by pre-stressed precast concrete piles and the elevated walkway will be founded on shallow spread footings.

St. Johns River Trail-To-Sea Loop Trail, Volusia County, Florida. Senior Geotechnical Engineer for the design of a 1.25-mile segment of the St. Johns River-to-Sea Loop Trail (SJR2C) located in South Daytona. Major project elements are an 8 to 12-foot paved multiuse trail, extending from Ridge Boulevard to Beville Road. Geotechnical design challenges included a very shallow groundwater condition along the majority of the trail alignment.

SR 40 Widening from SR 11 to Cone Road, Volusia County, Florida. Senior Geotechnical Engineer for the 7.5-mile long widening of SR 40 from a 2-lane rural section to a 4-lane rural roadway section. Scope included a 12-foot wide paved multi-use trail, 11 new wet detention stormwater ponds, 3 new flood plain compensation ponds, replacement of 4 existing box culverts and a new wildlife crossing culvert structure.

City of Kissimmee Lake Toho / Valencia Bike Path, Kissimmee, Florida. Geotechnical Engineer for the geotechnical investigation of shallow subsurface soils along the bike path alignment. Due to rigid right-of-way issues, excavating the deleterious organic soils encountered from beneath the trail alignment was not feasible and other alternatives (e.g. surcharging, geogrid, etc.) were evaluated and a surcharge program was developed to facilitate construction of the trail.

Richard P. McCormick, P.G.

CONTAMINATION

Geotechnical and Environmental Consultants, Inc.

EXPERTISE:
Level 1 Contamination Screening Evaluation Reports (CSERs)

Level 2 Contamination Impact Assessments

Soil and Groundwater Sampling

YEARS OF EXPERIENCE:
29 years of experience
15 years with GEC

EDUCATION:
Bachelor of Environmental Sciences and Geology
1992 | Eastern Connecticut State University

LICENSES:
Licensed Professional Geologist FL No. 2096, Georgia No. 2014, Tennessee No. 5765

PROFESSIONAL CERTIFICATIONS:
OSHA 40-Hour Hazardous Materials Health and Safety Certification

OSHA 8-Hour Refresher Course – Annually

LPS Training 8-Hour

Florida Stormwater, Erosion & Sedimentation Control Certification

Rich McCormick has 29 years of experience performing environmental and geological services on public infrastructure and private development projects. Rich has provided numerous Level 1 Contamination Screening Evaluation Reports (CSERs) and Level 2 Contamination Impact Assessments (CIAs) for major highway and rail projects in Central Florida. He has extensive experience in field sampling of soil and groundwater in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs).

South Lake Trail, Lake and Sumter Counties, Florida. Senior Geologist for the contamination evaluation for 10 alternative trail alignments and presented findings to aid in alternative alignment selection on an 8-mile multiuse trail, encompassing Groveland and Mascotte in Lake and Sumter Counties. The proposed trail extends from the existing Van Fleet Trail to Villa City Rd/CR 565. The proposed trail follows the abandoned Seaboard Coastal Railroad corridor.

Lake Wekiva Trail from SR 46 to Hojin Street (LAP), Lake County, Florida. Senior Geologist for CSER and Level 2 Contamination Evaluation for the new multi-use trail along the Seaboard Coast Line Railroad and included a shared-use pathway, utility adjustments and drainage improvements. The study area contained a railroad corridor, oil depot, concrete plant, auto repair facilities, and agricultural land among 19 sites of concern. Level 2 assessment revealed arsenic and polycyclic aromatic hydrocarbon soil impacts along the railroad corridor. Plan notes were provided to reduce worker and public exposure to potential contaminant exposure during construction activities.

Lake Monroe Trail Loop, Seminole County, Florida. Senior Geologist for the Contamination Screening Environmental Report (CSER) of this trail corridor that identified 24 sites and assigned contamination risk potential rankings for potential hazardous materials and petroleum-impacted sites within the project study limits.

City of Titusville Rails to Trails Phase 2 Design-Build, Brevard County, Florida. Project Geologist for the limited contamination evaluation activities at the proposed Rails to Trails project located along the former Florida East Coast Railway bed near Draa Road to Canaveral Road in Titusville. The scope included evaluating the presence of arsenic-impacted soil along the former rail line and providing recommendations for handling the contaminated soils during construction.

East Central Regional Rail Trail – PHASE 4A from Guise Road to Gobbler's Lodge Road, Volusia County, Florida. Senior Geologist for the new 3.6-mile multi-use trail constructed along Maytown Road in Osteen to enhance pedestrian and bicyclist safety. The CSER investigation identified five sites that were assigned Contamination Risk Potential Ratings. A Level II Assessment identified arsenic soil impacts along the historical railroad alignment. Plan notes were provided to reduce worker and public exposure during construction activities.

global5

JOHN HAMILL
PUBLIC INVOLVEMENT

John Hamill is an intermodal transportation professional who managed client accounts that totaled more than $330 million in annual revenue during his career with CSX, one of the US's largest freight railroads. He has worked as a representative for various transportation organizations promoting and developing new multi-modal opportunities for clients and growing their annual revenue. He built strong, effective relationships with global companies to improve transportation and logistical efficiencies which achieved impressive results.

FDOT Central Office Strategies for Reducing Rail Trespassing: John designed a safety, education and outreach program to significantly reduce rail trespassing among several study arears along SunRail's corridor. This initiative was done as a pilot program in support of FDOT's Freight and Multimodal Operations Office. John leveraged his immense rail experience, local knowledge and quantitative research to develop this safety and education program.

FDOT District Five I-4 Ultimate and I-4 Beyond the Ultimate Public Information: John assists the I-4 Ultimate and I-4 Beyond the Ultimate team in overseeing public meeting planning and coordination and direct stakeholder outreach. He provides support at outreach events for both projects, manning exhibits and displays, and presenting information to local associations, major employers, and targeted stakeholders most impacted by I-4 designs and construction that stretch over 60 miles of I-4 in District 5.

FDOT Strategic Intermodal System (SIS) Planning Consultant M-CORES Task Force Support: As part of the team, John assists in the editing of M-CORES talking points, analyzes media monitoring results, identifies key stakeholders in the three corridor study areas, and recommends strategies for outreach and coordination.

CREDENTIALS

Education

» MBA, Florida State University
» B.S. Management, The University of Florida

Years of Experience

14

FUNCTIONS/ RESPONSIBILITIES

» Rail, intermodal and operations expertise
» Management of multimillion dollar client portfolios, contracts, deliverables and customer service
» Creating and maintaining strategic alliances with stakeholders, the transportation industry, local partners and workforce development curriculum providers and recruiters
» Experience working with local, state and federal agencies
» Public involvement planning and implementation
» Knowledge transfer and change management

global5

USDOT/Noblis ADAS Video Series: John supervised the production of a series of four videos for Tech-Celerate Now. The videos were designed to educate commercial vehicle operators about new technology to increase safety for their vehicles.

CSX Transportation, Jacksonville Headquarters: As Senior Business Manager, John promoted CSX to develop and capture new multi-modal opportunities while growing a $330 million annual revenue portfolio of assigned accounts – engaging in contract management, proposal generation, and fostering and building client relationships. Also, he effectively influenced key senior decision makers and articulated short and long-term strategies for CSX and stakeholders. He generated new business opportunities, compiled financial reports and attended and presented at industry conferences, as well as trade and professional association meetings.

Additionally, John was responsible for administering training to new hires, interns, and leadership development associates at CSX. He provided them with coaching, professional development opportunities, and monitored their progress and evaluated deliverables. John also led the recruitment efforts for CSX's sales and marketing department at several universities to help identify top talent and participate in their interview process.

John started at CSX as a leadership development associate and sales representative. He took advantage of a fast-track-to-management opportunity to become a marketing manager for the company. He conducted market research and analysis, strategic planning and economic forecasting for short and long-term initiatives within a $440 million annual revenue market while identifying opportunities for modal conversion or intermodal participation. He also engaged in contract management, proposal development and account management duties for additional exposure.

Stephen C. O'Connell Center: John assisted with planning, promotion, set-up, management, and breakdown of special events including Gator Growl, Career Fairs, and the Harlem Globetrotters while working for the University of Florida's Stephen C. O'Connell Center – several of the events had over 10,000 attendees. Additionally, he reviewed applications, conducted interviews, and administered training to hundreds of part-time employees to ensure the standards of excellence were maintained for the O'Connell Center's workforce.

U.S. Senators Mel Martinez & George Lemieux: John engaged with federal agency liaisons to facilitate federal cases while interning with Senator Mel Martinez as a constituent services representative. He also advised constituents on the Senator's positions on all pending legislation and record for any bill the Senator had previously voted on. Additionally, John helped facilitate the administrative transition when Senator Martinez resigned and Senator George Lemieux was appointed by Governor Charlie Crist.

Awards

SPOT Award-CSX's recognition for excellence in account management (3 times)
THANKS Award-CSX's recognition for going above-and-beyond the call of duty (8 times)

Mikel Travisano, MS
Cultural Resource

Mikel Travisano, MS, joined SEARCH in 2015 and has more than 15 years of professional experience. Mikel is responsible for directing all phases of architectural history projects. His specialties include Historic American Buildings Survey (HABS)/Historic American Engineering Record (HAER) photography, modernist architecture, archival research, historic preservation, and architectural conservation. His experience with architectural styles and historic districts ranges from some of the oldest buildings and historic districts in the United States to modernist and vernacular styles in Puerto Rico and Guam. Mr. Travisano has worked with local government landmark agencies to address style, material, size, and height issues of new buildings in historic districts. He is experienced with implementing Sections 106 and 110 of the National Historic Preservation Act (NHPA), and Section 4(f) of the Department of Transportation (DOT) Act for private and public sector clients. His qualifications exceed those set forth by the Secretary of Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 FR 44716-42). Mr. Travisano has authored or co-authored more than 200 technical reports and presentations for Florida DOT (FDOT) Districts 1 through 7, Florida's Turnpike Enterprise, energy, private municipal, state and federal clients.

EDUCATION

MS	2005	Historic Preservation. Columbia University.
BFA	1998	Photography. Temple University.

RESEARCH SPECIALIZATIONS

Historic Preservation	Cultural Resource Management
Architectural Conservation	Architectural History
HABS/HAER Documentation	Archival Research

PROFESSIONAL EXPERIENCE

2015–present	Architectural Historian and Principal Investigator, SEARCH
2013–2015	Construction Project Manager, Sciame Construction, LLC
2012–2013	Capital Projects Manager, Douglas Elliman Property Management
2007–2012	Architectural Conservator, The Historic House Trust of New York City
2005–2007	Architectural Historian, GMI/Versar
2004	Intern, David V. Abramson Architects

VOLUNTEER POSITIONS

Vice-President Emeritus, Columbia University Preservation Alumni (2010–2011)

PROFESSIONAL CERTIFICATIONS AND AWARDS

The Florida Trust for Historic Preservation: Honorable Mention in the Field of Restoration and Rehabilitation for the Main Street Bridge Project

The Florida Trust for Historic Preservation: Outstanding Performance in the Field of Preservation Education & Media for the St. Petersburg's Design Guidelines for Historic Preservation

National Preservation Institute, Recent Past: Strategies for Evaluation Workshop

National Preservation Institute, Section 106 Workshop

SELECT PROJECT EXPERIENCE

Principal Investigator/Architectural Historian, Cultural Resource Assessment Survey of the South Sumter Connector Trail from the Withlacoochee State Trail to the Van Fleet Trail, Hernando and Sumter Counties, Florida. A historic architectural and archaeological survey conducted in support of 12-foot-wide, multi-use trail. The total length of the surveyed project corridor is approximately 14 miles. The architectural survey identified and evaluated 71 historic resources within the project's preferred alignment, including 66 newly recorded historic resources and five previously recorded resources. The report presented the findings and determined the eligibility for listing the historic resources on the NRHP. Conducted for TranSystems and the FDOT, District 5.

Principal Investigator/Architectural Historian, Cultural Resource Assessment Survey of State Road 500 (US 441) from Lake Ella Road to Avenida Central, Lake County, Florida. A historic architectural and archaeological survey conducted in support of the widening of SR 500/US 441. The total length of the surveyed project corridor is approximately 4.2 miles. The architectural survey identified and evaluated 49 historic resources, including 28 newly recorded historic resources and 21 previously recorded resources. The newly recorded resources included three historic resource groups and one historic district. The report presented the findings and determined the eligibility for listing the historic resources on the NRHP. Conducted for Metric Engineering and the FDOT, District 5.

Principal Investigator/Architectural Historian. Cultural Resource Assessment Survey of the State Road 50 Project Development and Environment Study from US 301 to County Road 33, Hernando, Sumter, and Lake Counties, Florida. A historic architectural and archaeological survey in support of improvements along SR 50, which included five alternatives involving widening the existing two-lane road to four lanes, the addition of passing lanes, interchange improvements, and the addition of bicycle and pedestrian lanes. The total length of the surveyed project corridor is approximately 20 miles. The architectural survey identified and evaluated 123 historic resources, including 115 newly recorded historic resources and eight previously recorded resources. Five newly recorded resources were recommended eligible for the NRHP, including the Linden Cemetery and the Carpenter Gothic, Linden United Methodist Church. One previously recorded resource was identified as the NRHP-eligible S-Line Richloam. The report presented the findings and determined the eligibility for listing the historic resources on the NRHP. Conducted for Kittelson & Associates and the FDOT, District 5.

Principal Investigator/Architectural Historian. Cultural Resource Assessment Survey (CRAS) of US 301 (SR 35) of US 301 from CR 470 West to SR 44, Sumter County, Florida. A historic architectural and archaeological survey in support of the widening of SR 35. The total length of the surveyed project corridor is approximately 7.7 miles. The architectural survey identified and evaluated 124 historic resources, including 119 newly recorded historic resources and five previously recorded resources. The newly recorded resources included the recommendation for the creation of a new historic district. The report presented the findings and determined the eligibility for listing the historic resources on the NRHP. The Florida SHPO concurred with our recommendation for the new NRHP-eligible Coleman Historic District. Following the CRAS, SEARCH prepared an effects evaluation, as the recommended alternative would require property acquisition from the eligible resource's parcel. The effects evaluation concluded that the ROW acquisition would not diminish the resource's significance and the SHPO concurred. Accordingly, SEARCH prepared the documentation for FDOT to pursue a de minimis finding under Section 4(f). FDOT, under federal authority delegated by FHWA, approved the de minimis finding in July 2018. Conducted for HDR, Inc. and the FDOT, District 5.

Attachment 4 — Location/Percentage of Work To Be Completed Form

ATTACHMENT 4 **LOCATION PERCENTAGE OF WORK TO BE COMPLETED** 22-902

Address of Prime Consultant's designated office where the majority of work will be performed	
Street	800 N. Magnolia Avenue
Street 2	Suite 1750
City	Orlando
State	Florida 32803

Percentage of total overall fees projected to be performed by the Prime Consultant's office above (Do not include percentage of fees anticipated to be performed on this project by sub-consultants)	45%

Address of Prime Consultant's other offices where work will be performed (if applicable)	
Street	4371 U.S. Highway 17 South
Street 2	Suite 203
City	Fleming Island
State	Florida 32003

Percentage of total overall fees projected to be performed by the Prime Consultant's office above (Do not include percentage of fees anticipated to be performed on this project by sub-consultants)	18%

Percentage of total overall fees projected to be performed by firms located within Lake County including the Prime Consultant and Subconsultants.	0%

ATTACHMENT 4

LOCATION PERCENTAGE OF WORK TO BE COMPLETED

22-902

Address of Prime Consultant's designated office where the majority of work will be performed	
Street	3111 W. Dr. Martin Luther King Jr Blvd
Street 2	Suite 375
City	Tampa
State	Florida 33607

Percentage of total overall fees projected to be performed by the Prime Consultant's office above (Do not include percentage of fees anticipated to be performed on this project by sub-consultants)	5%

Address of Prime Consultant's other offices where work will be performed (if applicable)	
Street	2035 Vista Parkway
Street 2	
City	West Palm Beach
State	Florida 33411

Percentage of total overall fees projected to be performed by the Prime Consultant's office above (Do not include percentage of fees anticipated to be performed on this project by sub-consultants)	1%

Percentage of total overall fees projected to be performed by firms located within Lake County including the Prime Consultant and Subconsultants.	0%

TRUTH-IN-NEGOTIATION CERTIFICATION

1. Pursuant to Section 287.055(5)(a), Florida Statutes, for any lump-sum or cost-plus-a-fixed fee professional services contract over the threshold amount provided in Section 287.017, Florida Statutes for CATEGORY FOUR, the Consultant must execute this Certificate and include it with the submittal of its proposal or as prescribed in the solicitation.

2. The Consultant hereby certifies, covenants, and warrants that wage rates and other factual unit costs supporting the compensation for this project are accurate, complete, and current at the time of contracting.

3. The Consultant further agrees that the original agreement price and any additions thereto will be adjusted to exclude any significant sums by which Lake County determines the agreement price was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such agreement adjustments must be made within (1) year following the end of the agreement.

CONSULTANT
Firm Name: WGI, Inc.
Signature: Nancy Clements
Print Name: Nancy Clements, PE
Title: Senior Vice President
This 23 day of September, 2021.

State of Florida
County of Orange

The foregoing instrument was acknowledged before me this 23 day of September, 2021
by Nancy Clements
(print name of officer or agent)
on behalf of WGI, Inc.
(name of corporation/entity).

He/she is personally known to me or has produced

_____ as identification.

(NOTARY SEAL)

Notary Public State of Florida
Tricia Ann Downes
My Commission GG 323745
Expires 04/15/2023

Tricia Ann Downes
Notary Signature

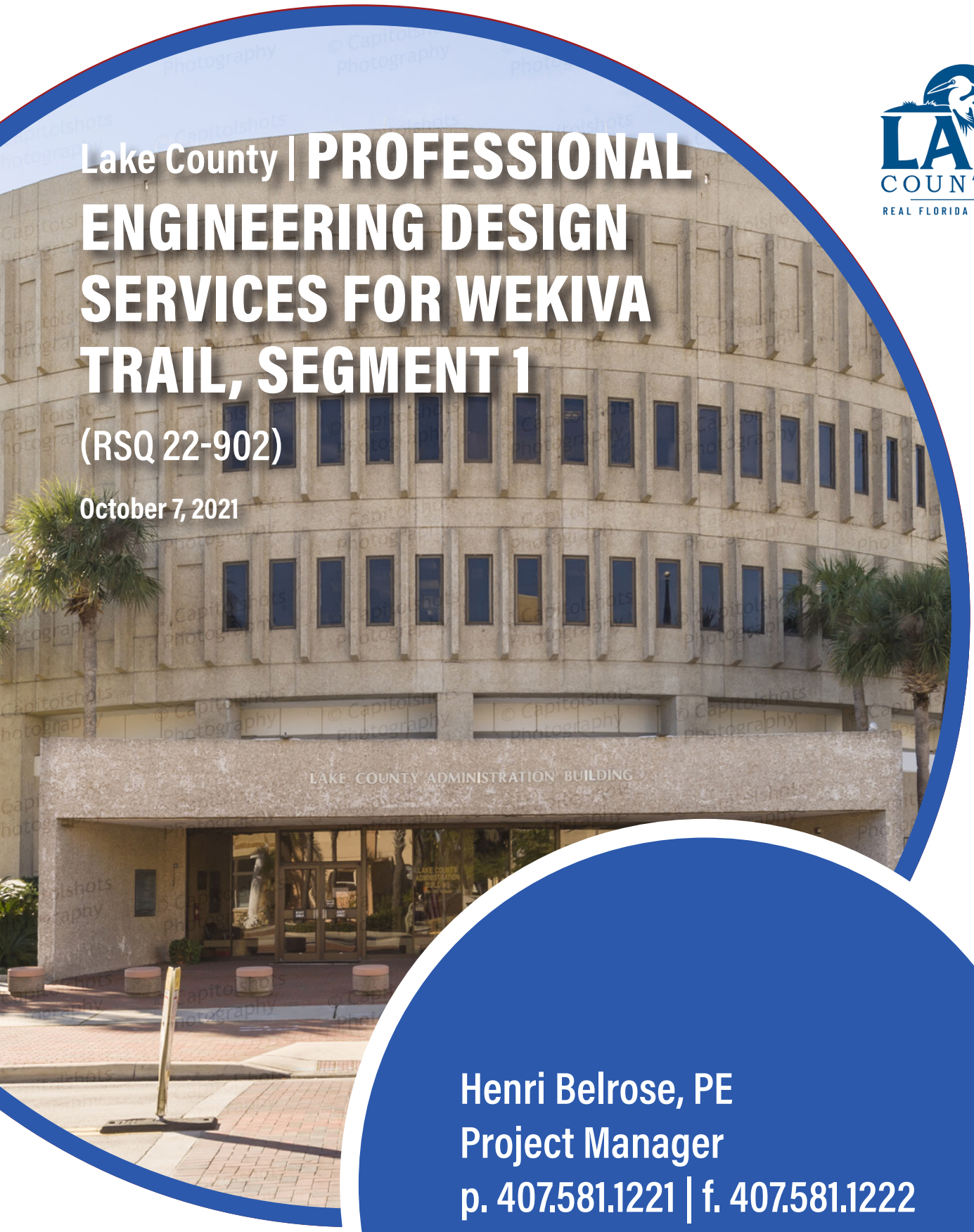
Tricia Ann Downes
Print Name

4/15/2023
Commission Expiration:

Lake County | PROFESSIONAL ENGINEERING DESIGN SERVICES FOR WEKIVA TRAIL, SEGMENT 1

(RSQ 22-902)

October 7, 2021



LAKE COUNTY, FL
REAL FLORIDA · REAL CLOSE

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WGI