



TAB 2
Forms

List no more than five projects which best illustrates qualifications relevant to the Solicitation. References must be less than five years old. LIST no more than two LAKE COUNTY GOVERNMENT PROJECTS (past, current, prime, and subcontractor) FIRST.

CivilSurv Design Group, Inc.

PROJECT NAME: CR 473 Safe Routes to Schools Sidewalk

Agency: Lake County

Address: 315 W Main Street #3813

City, State, Zip code: Tavares, FL 32778

Contact Person: Seth Lynch

Title: Development Engineer

Email: slynch@lakecountyfl.gov

Telephone: 352-253-9052

Project Cost: \$145,739

Contract Start and End Dates: 2018 - 2021

SCOPE of Project (list tasks, outlines or descriptions of items): CivilSurv Design Group, Inc. has served as the surveyor and design/permitting engineer for an important Lake County Safe Route to Schools project. The project involved approximately 6,500 LF of sidewalk, connecting sidewalks on County Road 473 to Treadway Elementary School. Just before the design began, there was a fatality along the road, hastening the project's design and construction. The project led to the construction and safety improvements along the roadway including: A gravity wall along the sidewalk, limiting the potential for vehicles to drive into an existing pond, with approximately 650 feet of pedestrian railing; Relocation and updating of speed limits to decrease speeds in proximity to the school; Reworking and replacement of significant amount of drainage; Replacement of 12 driveway crossings and 5 road crossings, limiting the cross slope and rebuilding to FDOT standards making the area ADA compliant. Due to the County, FDOT, and CivilSurv's efforts, the project had zero change orders and no notable changes to the construction as planned. Further, both the bid and final construction costs came in \$43,000 below estimates. The County further added site lighting to increase safety in the area.

PROJECT NAME: Lakeland Park Connector - Carpenters Way to Lakeland Park Drive

Agency: City of Lakeland

Address: 228 S Massachusetts Avenue

City, State, Zip code: Lakeland, FL 33801

Contact Person: Greg James

Title: Assistant Public Works Director

Email: greg.james@lakelandgov.net

Telephone: 863-834-6040

Project Cost: \$677,369

Contract Start and End Dates: 2014 – 2019 (2020 construction)

SCOPE of Project (list tasks, outlines or descriptions of items): This project provides for a new road connecting Carpenters Way to Lakeland Park Drive in north Lakeland. The length of the road is 0.42 miles mostly through wetlands. The project tasks included survey, roadway and lighting design, utility coordination, and permitting through the Southwest Florida Water Management District and the Army Corps of Engineers.

PROJECT NAME: Traffic Study and Street Lighting

Agency: City of Lake Wales

Address: 201 W Central Avenue

City, State, Zip code: Lake Wales, FL 33853

Contact Person: James Slanton

Title: City Manager

Email: jslaton@lakewalesfl.gov

Telephone: 863-678-4182

Project Cost: \$26,000

Contract Start and End Dates: January 2021 – June 2021

SCOPE of Project (list tasks, outlines or descriptions of items): CivilSurv was a sub-consultant to Chastain Skillman for two streetscapes projects in Lake Wales, Florida. The streetscaping for Park Avenue included the intersection of SR 17. In order to perform the proposed streetscaping, this required the elimination of a northbound left turn lane and the conversion of Park Avenue from a one-way westbound street to a two-way street. CivilSurv modeled the intersection along with several intersection on SR 17, both north and south of the SR 17 and Park Avenue intersection and prepared a traffic report of the findings justifying the elimination of the left turn lane. An analysis was also performed to determine if the existing traffic signal at Park Avenue and 1st Street was still justified, would be justified with the conversion of Park Avenue from one-way to two-way, or if a 4-way stop would be justified at the intersection. The analysis concluded that the 4-way stop was justified. CivilSurv also designed the street lighting design for the project using decorative street lighting. For the 1st Street streetscape project, CivilSurv prepared a traffic analysis to determine if the traffic signal at the intersection of 1st Street and Central Avenue was warranted or if the intersection could be converted from a traffic signal-controlled intersection to a 4-way stop to better conform with the streetscape project.

PROJECT NAME: General Engineering Services

Agency: Okeechobee County BOCC

Address: 304 NW 2nd Street #102

City, State, Zip code: Okeechobee, FL 34972

Contact Person: Louis Johnson, MPA

Title: Deputy County Administrator

Email: ljohnson@co.okeechobee.fl.us

Telephone: 863-763-9312

Project Cost: \$800,000

Contract Start and End Dates: 2017 - Ongoing

SCOPE of Project (list tasks, outlines or descriptions of items): General consulting services for in-house County Engineer services. Complete services for Planning, Design Review, and Construction Services. CivilSurv also previously served as the Public Works Director. Review of all Design, Traffic Studies, and Construction Projects for County; Parks Master Planning; Sidewalk Master Planning; Survey and Design Services for 5 Sidewalk Projects; Survey for Three Drainage Projects; Survey, Site, and Utilities Design for New Municipal Building; Survey for Irma Damage Assessment.

ATTACHMENT 2 – REFERENCES FORM

21-0940

PROJECT NAME: Traffic Study Reviews

Agency: St. Lucie County – Planning Division

Address: 2300 Virginia Avenue

City, State, Zip code: Fort Pierce, FL 34982

Contact Person: Kristopher McCrain

Title: Associate Planner

Email: mccraink@stlucieco.org

Telephone: 772-462-1265

Project Cost: \$3,000

Contract Start and End Dates: 2019 - Present

SCOPE of Project (list tasks, outlines or descriptions of items): As part of a continuing services contract with St. Lucie County, CivilSurv provides on-call reviews of traffic studies as requested by the County. Services consist of review of traffic studies to ensure compliance with the County's Land Development Code, providing review comments, and attending requested public meetings.

The undersigned hereby declares that: CivilSurv Design Group, 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 **On-Call, Transportation and Traffic Engineering Services** 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.

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 will accept payment through the County Credit Card-based payment system: NO

1.0 TERM OF CONTRACT

The Contract will be awarded for an initial one (1) year term with the option for two (2) subsequent two (2) year renewals. Renewals are contingent upon mutual written agreement.

The Contract will commence upon the first day of the next calendar month after Board approval. 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.

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. CivilSurv has no conflicts of interest.

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 Click or tap to enter a date. to date Click or tap to enter a date.

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: Lakeland, 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: Click or tap here to enter text.

9.0 GENERAL VENDOR INFORMATION:

Firm Name: CivilSurv Design Group, Inc.
 Street Address: 2525 Drane Field Road, Ste 7
 City: Lakeland State and ZIP Code: Florida, 33811
 Mailing Address (if different): Click or tap here to enter text.
 Telephone: (863) 646-4771 Fax: (863) 646-3378
 Federal Identification Number / TIN: 27-1816201
 DUNS Number: 961948911

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: *Craig R. Fuller, PE*

Date: 9/10/2021

Print Name: Craig R. Fuller, PE

Title: President

Primary E-mail Address: cfuller@civilsurv.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]

Proof of SunBiz Registration

State of Florida Department of State

I certify from the records of this office that CIVILSURV DESIGN GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on February 1, 2010.

The document number of this corporation is P10000009487.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on May 5, 2021, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fifth day of May, 2021*



Randy Be
Secretary of State

Tracking Number: 5537212219CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



CivilSurv W-9

<p>Form W-9 (Rev. January 2005) Department of the Treasury Internal Revenue Service</p>	<p>Request for Taxpayer Identification Number and Certification</p>	<p>Give form to the requester. Do not send to the IRS.</p>																																													
<p>Print or type See Specific Instructions on page 2.</p>	<p>Name (as shown on your income tax return) CivilSurv Design Group, Inc.</p>																																														
	<p>Business name, if different from above</p>																																														
	<p>Check appropriate box: <input type="checkbox"/> Individual/Sole proprietor <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Other <input type="checkbox"/> Exempt from backup withholding</p>																																														
	<p>Address (number, street, and apt. or suite no.) 2525 Drane Field Road, Suite 7</p> <p>City, state, and ZIP code Lakeland, FL 33811</p> <p>List account number(s) here (optional)</p>																																														
<p>Part I Taxpayer Identification Number (TIN)</p>																																															
<p>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 your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on page 3.</p> <p>Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.</p>																																															
<table border="1" style="margin: auto;"> <tr> <td colspan="9">Social security number</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> <tr> <td colspan="9" style="text-align: center;">or</td> </tr> <tr> <td colspan="9">Employer identification number</td> </tr> <tr> <td>2</td><td>7</td><td>1</td><td>8</td><td>1</td><td>6</td><td>2</td><td>0</td><td>1</td> </tr> </table>			Social security number																		or									Employer identification number									2	7	1	8	1	6	2	0	1
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<p>Part II Certification</p> <p>Under penalties of perjury, I certify that:</p> <ol style="list-style-type: none"> 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 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 I am a U.S. person (including a U.S. resident alien). <p>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 on page 4.)</p>																																															
<p>Sign Here</p>	<p>Signature of U.S. person ▶ </p>	<p>Date ▶ 9/10/21</p>																																													
<p>Purpose of Form</p> <p>A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.</p> <p>U.S. person. Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:</p> <ol style="list-style-type: none"> Certify that the TIN you are giving is correct (or you are waiting for a number to be issued), Certify that you are not subject to backup withholding, or Claim exemption from backup withholding if you are a U.S. exempt payee. <p>Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.</p> <p>For federal tax purposes you are considered a person if you are:</p> <ul style="list-style-type: none"> An individual who is a citizen or resident of the United States, A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States, or Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information. <p>Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).</p> <p>Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the recipient has otherwise become a U.S. resident alien for tax purposes.</p> <p>If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:</p> <ol style="list-style-type: none"> The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien. The treaty article addressing the income. The article number (or location) in the tax treaty that contains the saving clause and its exceptions. 																																															
<p>Cat. No. 10231X Form W-9 (Rev. 1-2005)</p>																																															





REAL FLORIDA • REAL CLOSE
Office of Procurement Services

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

SOLICITATION: On-Call, Transportation and Traffic Engineering Services

08/30/2021

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

Question 1. Will the County be providing topographic survey for task work orders or will the consultant need to provide survey?

Response 1. Survey is typically provided by the County for design projects under this contract as these are much smaller projects.

Question 2. Section 5.0.B. 2. Past Performance requires references / relevant projects completed within the last three (3) years, but the instructions on the Reference Form (Attachment 2) state that references must be less than five years old. Are we allowed to use projects less than five years old, or must they be within three years?

Response 2. The projects must be from within the past five years

Question 3. Section 6.0. E.4. Subcontractors/Joint Ventures section states, “Provide a list of proposed subcontractors or joint venture arrangements that may be used on the project. Provide the same information required in the Pricing Proposal for each sub-vendor or joint venture participant.” Since there is no ‘Pricing Proposal’ to be submitted, can you please specify what information is required for our subconsultants?

Response 3. The information is noted in the REVISED Attachment 3 – Team Composition Form.

ADDITIONAL INFORMATION

Remove and replace Attachment 3 – Team Composition Form with the REVISED Attachment 3 – Team Composition Form.

ACKNOWLEDGEMENT

Firm Name: CivilSurv Design Group, 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.

ADDENDUM NO. 1

21-0940

Signature of Legal Representative Submitting this Bid: *Craig R. Fuller, PE*

Date: 9/14/2021

Print Name: Craig R. Fuller, PE

Title: President

Primary E-mail Address: cfuller@civilsurv.com

Secondary E-mail Address: [Click or tap here to enter text.](#)



REAL FLORIDA • REAL CLOSE
Office of Procurement Services

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

SOLICITATION: On-Call Transportation and Traffic Engineering Services

09/14/2021

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. In reference to PDF page 5 (in the Solicitation) under item #4 Subcontractors/joint ventures - Could you clarify what is meant by the sentence? "Provide the same information in the pricing proposal for each sub-vendor or joint vendor participant."

R1. There is no pricing component for this solicitation at this time. Please list any and subcontractors on Attachment 3 – Team Composition Form

Q2. Under the Lake County General Terms and Conditions for the On-Call Transportation and Traffic Engineering Services RSQ No. 21-0940, it appears the "Warranty" terms do not apply to engineering type services and the "Indemnification" provision does not comply with Florida Statutes 725.08. Would the County be open to discussion of modifications to these provisions? At the County's convenience, and if necessary, we would be available to discuss these sections in more depth.

R2. The County will ensure that all indemnification language requirements are in accordance with Florida Statutes upon award of a contract.

ACKNOWLEDGEMENT

Firm Name: CivilSurv Design Group, 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: *Craig R. Fuller, PE*

Date: 9/16/2021

Print Name: Craig R. Fuller, PE

Title: President

Primary E-mail Address: cfuller@civilsurv.com

Secondary E-mail Address: [Click or tap here to enter text.](#)

CivilSurv Proof of Insurance

		CERTIFICATE OF LIABILITY INSURANCE		DATE (MM/DD/YYYY) 3/2/2021		
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 rights to the certificate holder in lieu of such endorsement(s).						
PRODUCER Heacock Insurance Group, LLC 100 E Main St Lakeland FL 33801			CONTACT NAME: Tami Troyer PHONE (A/C, No, Ext): 863-683-2228 FAX (A/C, No): 863-683-3309 E-MAIL: ttroyer@heacock.com ADDRESS:			
INSURED CivilSurv Design Group, Inc. 2525 Drane Field Road, Ste 7 Lakeland FL 33811			INSURER(S) AFFORDING COVERAGE INSURER A : Landmark American Insurance Co 33138 INSURER B : Travelers Property Casualty Co of Florida 10647 INSURER C : Travelers Casualty & Surety 19038 INSURER D : INSURER E : INSURER F :		NAIC #	
COVERAGES CERTIFICATE NUMBER: 929600202 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 SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		6807H35081A	2/27/2021	2/27/2022	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		BA4R383261	2/27/2021	2/27/2022	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		CUP5F95257A	2/27/2021	2/27/2022	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A	UB0K247374	2/27/2021	2/27/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> 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
A B	Professional Liability Crime		LHR787728 6807H35081A	2/27/2021 2/27/2021	2/27/2022 2/27/2022	Per Claim/Aggregate Retention Crime 2,000,000 10,000 100,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)						
CERTIFICATE HOLDER			CANCELLATION			
Insured Copy Only Informational purposes only			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 			
© 1988-2015 ACORD CORPORATION. All rights reserved.						
ACORD 25 (2016/03)		The ACORD name and logo are registered marks of ACORD				

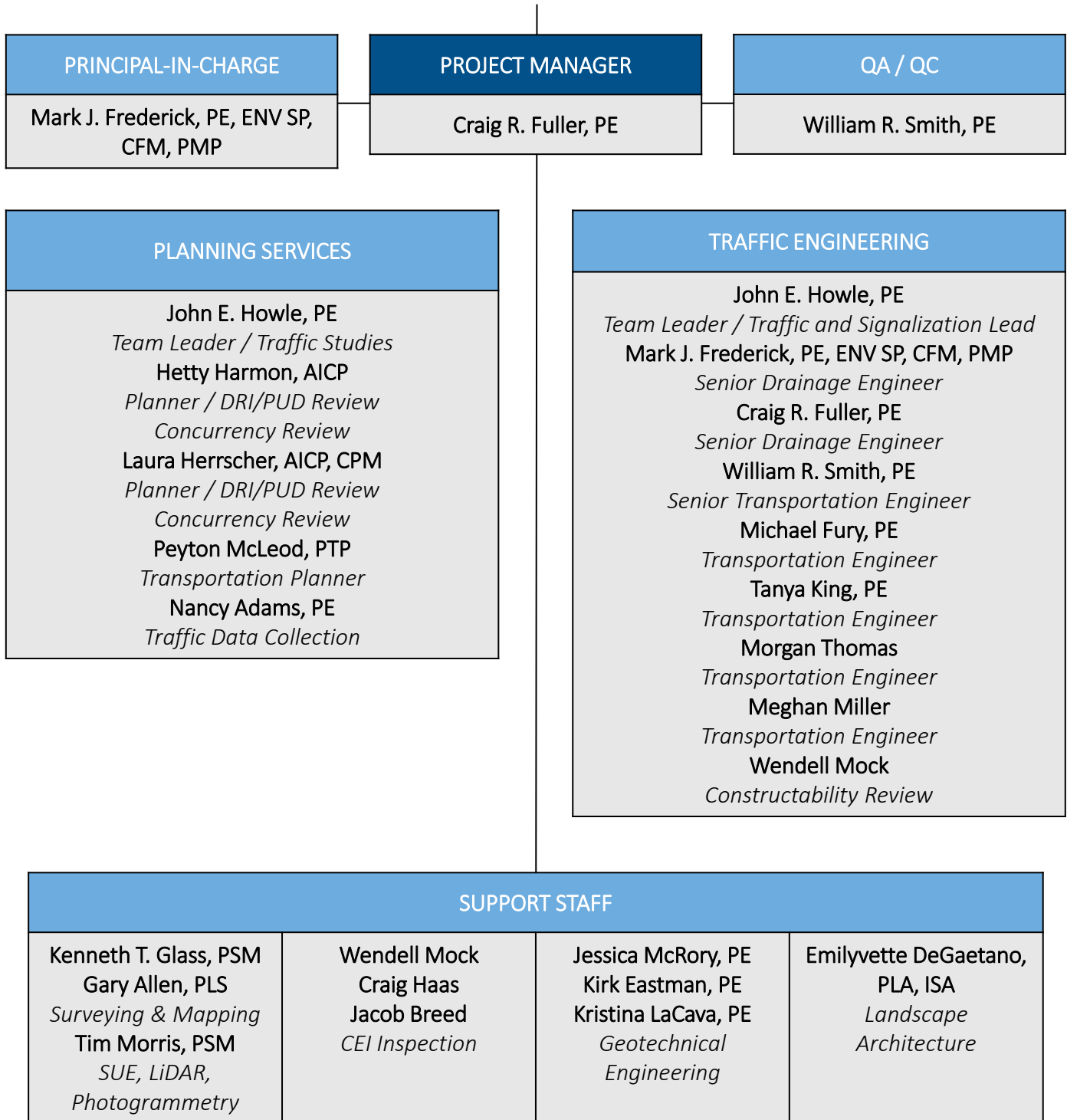


CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge	Mark J. Frederick, PE, ENV SP, CFM, PMP	Winter Haven	70671
Contract Manager	Craig R. Fuller, PE	Winter Haven	65605
QA/QC	William "Bill" Smith, PE		56434
Team Lead, Traffic and Signals	John E. Howle, PE	Bartow	27584
Planner	Hetty C. Harmon, AICP	Mulberry	19199
Survey Lead	Kenneth T. Glass, PSM	Lakeland	LS5713
SUE, LiDAR, Photogrammetry	Tim Morris, PSM	Plant City	LS7261
Transportation Engineer	Morgan Thomas	Vero Beach	

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)
Traffic Data Collection	Adams Traffic, Inc.	2404 Airport Road, Suite 2 Plant City, FL 33563	Nancy Adams, PE	5%	Yes	Yes
Geotechnical Engineering	AREHNA Engineering, Inc.	5012 W. Lemon St. Tampa, FL 33609	Jessica McRory, PE	10%	Yes	No
Geotechnical Engineering	AREHNA Engineering, Inc.	5012 W. Lemon St. Tampa, FL 33609	Kirk Eastman, PE	10%	Yes	No
Geotechnical Engineering	AREHNA Engineering, Inc.	5012 W. Lemon St. Tampa, FL 33609	Kristina LaCava, PE	10%	Yes	No
Landscape Architecture	Patel, Greene & Associates, Inc.	12570 Telecom Drive Temple Terrace, FL 33637	Emily DeGaetano, PLA, ISA	30%	Yes	Yes
Planner	Patel, Greene & Associates, Inc.	215 East Main Street Bartow, FL 33830	Laura Lockwood-Herrscher, AICP, CPM	30%	Yes	Yes
Transportation Engineer	Patel, Greene & Associates, Inc.	12570 Telecom Drive Temple Terrace, FL 33637	Michael Fury, PE	30%	Yes	Yes
Transportation Planner	Patel, Greene & Associates, Inc.	12570 Telecom Drive Temple Terrace, FL 33637	Peyton McLeod, PTP	30%	Yes	Yes
Transportation Engineer	Patel, Greene & Associates, Inc.	12570 Telecom Drive Temple Terrace, FL 33637	Tanya King, PE	30%	Yes	Yes



Mr. Fuller manages and designs water and wastewater projects including but not limited to water supply, wastewater collection and treatment, reclaimed water reuse, and hydraulic modeling. Mr. Fuller has nearly 20 years of engineering and project management experience encompassing hydraulics, water and wastewater facilities, reclaimed water planning, design, permitting, and construction services. Typical project experience includes the following projects:

Project Experience

QC Review | CR 473 LAP Safe Routes to School | Lake County | Lake County, Florida | 2019 to 2021 | \$145,000: Responsible for overseeing the project and review of critical elements including drainage, break lines, and constructability. Project included approximately 1 mile of sidewalk, gravity wall, and replacement drainage components to FDOT standard design.

Project Manager, QA/QC | Harbor Drive N at Belle Place Preliminary Drainage Analysis | City of Indian Rocks Beach | Indian Rocks Beach, Florida | 2020 to 2021 | \$8,100: Areas along Harbor Drive N routinely experience localized street flooding during typical summer rainfall and higher intensity events. This preliminary drainage analysis was completed using regional LiDAR data and project-specific measurements of the storm sewer infrastructure. Drainage basin parameters were calculated and the existing systems were modeled using Autodesk Storm and Sanitary Analysis software. Conceptual improvements and recommendations were summarized in a drainage report.

Project Manager | Midway Road: Canal 92 and Canal 84 Crossings | St. Lucie County | St. Lucie County, Florida | 2019 to 2020 | \$80,000: Responsible for leading the evaluation, design, and permitting of replacement cross drains across Midway Road in St. Lucie County. Replacement of 72-inch and 48-inch CMP culverts that had soil-cement headwalls with RCP culverts that have structures and concrete headwalls. Project includes evaluation of options, combining multiple drainage pipes into a structure, adding guardrail, MOT component, and stabilizing area.

Contract Manager | Memorial Drive Multi-Use Trail | Highlands County Board of County Commissioners | Sebring, Florida | 2020 to Present | \$150,000: This project involved the design of 1.4-miles of a new 10-foot wide multi-use trail within the existing Memorial Drive right of way. The multi-use trail connects with an existing multi-use trail at Pompano Drive and existing sidewalk at Sebring Parkway. The project was performed under a Local Agency Program (LAP) project agreement between FDOT and Highlands County. Responsibilities included construction document preparation and task management.

Project Manager, QA/QC | West Lake Jackson Stormwater Improvements, Phase I | City of Sebring | Sebring, Florida | 2020 to Present | \$200,000: The initial phase of the project involved the evaluation of existing drainage infrastructure, existing sanitary sewer, and pavement along SW Lakeview Drive. Stormwater discharges from the drainage system directly to Lake Jackson. This project involved funding application support services for a State Revolving Fund (SRF) loan from the Florida Department of Environmental Protection (FDEP). An Engineer's Report was prepared to summarize the findings of the infrastructure study and to provide recommendations for future phases of the project.

Project Engineer | Okeechobee County Property Appraiser Site Design | Okeechobee County | Okeechobee County, Florida | 2018 to 2020 | \$35,000: Responsible for leading the evaluation, design, and permitting of a new site design within Okeechobee County. Project involved design of subsurface treatment and dry detention, along with fire, water, and irrigation service to a 15,000-sf building.

Project Manager | Thomas Lake Water Quality Master Plan | Polk County Natural Resources | Polk County, Florida | 2015 | \$45,000: Responsible for leading the evaluation and planning effort for a Best Management Practices document for Thomas Lake within Polk County. The effort utilized numerical analysis of various sources of data, correlating proposed changes with projected improvements to water quality.

Project Manager | Northport Force Main Phase 2 | City of Port St. Lucie Utilities Division | Port St. Lucie, Florida | 2020 to 2021 | \$165,000: Responsible for leading the design and construction through



Expertise

- Design and Construction of Water and Wastewater Improvements, Process Optimization, Hydraulic Modeling

Education

- BS / Chemical Engineering / Florida Institute of Technology

Licenses / Certifications

- Professional Engineer in FL #65605

Specialized Training

- Hydraulic Modeler – Haestad Methods/Bentley WaterGEMS
- Biological Modeler - BioWin

Affiliations

- Florida Water Environment Association, Wastewater Treatment Process Committee (2011 – Present)
- City of Winter Haven Planning Commission (2011 – Present)
- City of Winter Haven Multimodal Transportation Advisory Commission (2013 – Present)

the installation of approximately 6,500 linear feet of 8-inch force main, connecting the Southport system to the Northport system. The project included design reviews at 60%, 90%, and 100%, significant utility coordination, a large easement definition, drilling under US-1 and Prima Vista, subsurface utility engineering, and the implementation of numerous construction techniques including wet tapping and HDPE HDD.

QA/QC | Haines City Wastewater CDBG Project | City of Haines City | Haines City, Florida | 2018 to 2020 | \$300,000: Responsible for review of design and design updates to meet intents of project. Project included a new lift station and conversion of two lift stations to gravity sewage systems, along with the replacement of approximately 1-mile of 15-inch gravity sewage piping. Additionally reviewed submittals for the project through construction, including final record drawings for close-out.

Contract Manager | US 27 from US 98 to Harvard Avenue Utility Relocations | Polk County Utilities Division | Polk County, Florida | 2021 to Present | \$327,000: This project involved the design of relocated potable water and wastewater facilities within the FDOT right of way to accommodate the widening of US 27 from 4 lanes to 6 lanes. PCU facilities, including 10-inch and 12-inch potable water main and 6-inch to 10-inch wastewater forcemain, were involved for approximately 3.25-miles of the 8.65-mile roadway project. CivilSurv performed subsurface utility engineering (Level A) to verify existing utility locations and identify potential utility conflicts. This project involved coordination with FDOT and other utility service providers within the corridor. CivilSurv completed the design for the new utility locations and led permitting efforts for approval through the Polk County Health Department, FDEP, and FDOT.

Project Manager | F-19 Raw Water Main | City of Port St. Lucie Utilities Division | Port St. Lucie, Florida | 2020 to 2021 | \$175,000: Responsible for leading the design and construction through the installation of approximately 3,000 linear feet of 16-inch brackish raw water mains. The project included design reviews at 30%, 60%, 90%, and 100%, significant utility coordination, a large easement definition, drilling under power and I-95, subsurface utility engineering, redesign of mains due to wetland conflict issues, and the implementation of numerous construction techniques including wet tapping, fusible PVC HDD, and a new access driveway to the proposed well.

Project Manager | West Pipkin Road Water Main Improvements | City of Lakeland | Lakeland, Florida | 2019 to 2020 | \$575,000: Responsible for leading the design team through the replacement of approximately 17,000 linear feet of water mains and force main, from 4-inch to 16-inch in diameter. The project included design reviews at 60%, 90%, and 100%. The project also includes significant utility coordination, subsurface utility engineering, redesign of mains due to stormwater conflict issues, and the implementation of numerous construction techniques including: wet tapping, temporary service mains, and numerous clearance packages.

Project Manager | Old Highway 37 Water Main Improvement | Polk County Utilities Division | Polk County, Florida | 2018 to 2019 | \$135,000: Responsible for leading the design team through the replacement of approximately 11,000 linear feet of water mains, from 8-inch to 12-inch in diameter. The project included design reviews at 30%, 60%, and 90% and easement acquisition. The project also included significant utility coordination, subsurface utility engineering, redesign of mains due to property conflict issues, and the implementation of numerous construction techniques including: HDD, J&B, wet tapping, pipe bursting, temporary service mains, and numerous clearance packages.

Project Manager | NPDES Permitting and Coordination | City of Indian Rocks Beach | Indian Rocks Beach, Florida | 2019 to Present | \$8,000 annually: Responsible for leading the generation of BMPs and reporting progress for City of Indian Rocks Beach. Includes tracking of various elements throughout reporting period and Annual Reporting.

Project Manager | NPDES Permitting and Coordination | Highlands County | Highlands County, Florida | 2018 to Present | \$8,000 annually: Responsible for leading the generation of BMPs and reporting progress for Highlands County. Permitting includes both Notice of Intent but additional responses and Annual Reporting. Drafted Ordinance that addresses illicit discharges and general stormwater BMPs.

Project Manager | NPDES Permitting and Coordination | City of Sebring | Sebring, Florida | 2018 to Present | \$8,000 annually: Responsible for leading the generation of BMPs and reporting progress for City of Sebring. Permitting includes both Notice of Intent but additional responses and Annual Reporting. Drafted and read in Ordinance that addresses illicit discharges and general stormwater BMPs.

Project Manager | NPDES Permitting and Coordination | City of Avon Park | Avon Park, Florida | 2018 to Present | \$8,000 annually: Responsible for leading the generation of BMPs and reporting progress for City of Avon Park. Permitting includes both Notice of Intent but additional responses and Annual Reporting. Drafted and read in Ordinance that addresses illicit discharges and general stormwater BMPs.

Mr. Mark Frederick serves as the Vice President of Civil Engineering for CivilSurv. He is experienced in leading multi-disciplinary project teams on a variety of infrastructure projects, including roadway and drainage improvements, stormwater retrofits, water/wastewater utility systems, parks and recreation projects, and site developments for public and private sector clients. Mr. Frederick manages projects at all stages throughout the project life cycle, from master planning and conceptualization to construction completion and permit close-out. Mr. Frederick is familiar with all aspects of the infrastructure project cycle and is able to effectively work with all members of the project team including clients, design professionals, agency reviewers, and construction contractors. Mr. Frederick has designed and permitted numerous stormwater management and water utility systems to serve redeveloped and new construction sites.

Mr. Frederick's experience includes over 20 years of diverse engineering experience in stormwater management system design and watershed model development. He is able to incorporate GIS software to streamline development of model parameters for the ICPR computer software input. Mr. Frederick also has experience with hydrologic and pollutant load modeling, design of retrofits for older stormwater management and collection systems, stormwater pump stations, maintenance and field collection of GIS data, and preparation of water management district environmental resource permit applications. He has successfully permitted projects involving wetlands, surface water impacts, and discharges to TMDL-listed waterbodies.

Project Experience

Project Engineer | Memorial Drive Multi-Use Trail | Highlands County Board of County Commissioners | Sebring, Florida | 2020 to Present | \$150,000: This project involved the design of 1.4-miles of a new 10-foot-wide multi-use trail within the existing Memorial Drive right of way. The multi-use trail connects with an existing multi-use trail at Pompano Drive and existing sidewalk at Sebring Parkway. The project was performed under a Local Agency Program (LAP) project agreement between FDOT and Highlands County. Responsibilities included construction document preparation and task management.

Engineer of Record | West Lake Jackson Stormwater Improvements, Phase I | City of Sebring | Sebring, Florida | 2020 to Present | \$200,000: The initial phase of the project involved the evaluation of existing drainage infrastructure at 28 outfall locations, existing sanitary sewer, and pavement along approximately 2.7 miles of SW Lakeview Drive. The existing drainage system was generally found to be substandard and conceptual improvements were proposed. These conceptual improvements addressed water quality improvements prior to discharging to Lake Jackson. The existing wastewater system deficiencies included inflow and infiltration issues that were, in many cases, evident in the pavement surrounding manholes. Conceptual improvements to the wastewater system and roadway were also proposed as part of the study. This project involved funding application support services for a State Revolving Fund (SRF) loan from the Florida Department of Environmental Protection (FDEP). An Engineer's Report was prepared to summarize the findings of the infrastructure study and to provide recommendations for future phases of the project.

Project Manager | Miscellaneous Site Development Plan Reviews | City of Polk City | Polk City, Florida | 2020 to Present | \$15,000: Mr. Frederick functioned as the City Engineer in the review of site development application packages submitted to the City by various private developers. The applications were reviewed based on City ordinances, City construction standards and specifications, and industry standards. Services included review of engineering aspects of various projects, including stormwater management systems and water utilities.

QC Reviewer | Lake Wales Connector Streetscape Lighting | City of Lake Wales | Lake Wales, Florida | 2020 to Present | \$60,010: As a subconsultant to Chastain-Skillman, CivilSurv designed the decorative lighting for the Lake Wales Connector Streetscape project from N Wetmore Street to SR 17. CivilSurv also designed and permitted a new traffic signal at SR 17 and performed a traffic study including Synchro modeling demonstrating that the existing traffic signal at Park Avenue and N 1st Street could



Expertise

- Stormwater management system design
- Utility system design
- Transportation infrastructure design
- Site development

Education

- BS / Civil Engineering / Purdue University, 2005
- MS / Civil Engineering / University of Florida, 2014

Licenses / Certifications

- Professional Engineer in FL #70671
- Certified Floodplain Manager # US-07-03155
- Envision Sustainability Professional
- Certified Project Management Professional

Training

- FDEP Qualified Stormwater Management Inspector
- FDOT Specification Package Preparation
- ICPR4 Software

Affiliations

- Florida Engineering Society
- American Society of Civil Engineers
- Florida Lake Management Society

be replaced with a 4-way stop based on a new traffic pattern and that the existing northbound left turn lanes on SR 17 and Park Avenue and E Stuart Street could be eliminated to allow more room within the existing right-of-way for proposed streetscape improvements.

Project Manager & Engineer of Record | Hugh Taylor Birch State Park Roadway Widening | Florida Department of Environmental Protection | Ft. Lauderdale, Florida | 2015 to 2016 | \$50,000: Hugh Taylor Birch State Park includes an approximate 2.0-mile one-way loop road with an average width of approximately 11-feet. This loop road is used for various modes of transportation including pedestrian and vehicular traffic. This project involved an engineering survey and recommendations to widen the road to a minimum width of 16-feet to improve the overall safety of the roadway for all users. Responsibilities included construction plan preparation and permit coordination.

Project Manager | Lake Wales Premier Streets | City of Lake Wales | Lake Wales, Florida | 2014: This project was conducted as a Florida Department of Economic Opportunities (DEO) grant funded project with the goal of creating a plan to upgrade the aesthetics along “premier street” corridors in the City. This project involved close coordination with City staff to evaluate the selected streets and document areas for potential aesthetic enhancements. A total of approximately 4.5-miles of City streets were involved in the study which included field data collection and photography. Photographs were digitally rendered to depict conceptual improvements and included in the final report. Responsibilities included project management.

Project Manager & Engineer of Record | Lake Wailes Trail & Trailhead Parking Improvements | City of Lake Wales | Lake Wales, Florida | 2013 to 2014: This project was a cooperatively funded project between FDEP and the City of Lake Wales involving expansion of the Lake Wailes Trailhead parking area from 17 spaces to 30 total spaces. In addition, construction plans were prepared to detail the resurfacing and striping of over 2.0-miles of existing asphalt trail. An engineering survey of the existing trail was conducted to identify areas in need of repair and rehabilitation prior to being overlaid with asphalt. Responsibilities included engineering design and construction administration services.

Engineer of Record | Bayshore Boulevard Running Trail Repairs | MacDill Air Force Base | Tampa, Florida | 2012 to 2013 | \$10,000: This project involved the evaluation of an existing 2.5-mile running trail with a rubberized surface to identify areas of compromised structural integrity. The running trail evaluation was used to prioritize sections to be repaired. Project responsibilities included trail evaluation, construction plan preparation, maintenance of traffic design, and coordination with the contractor and material supplier. Design was completed in accordance with MacDill Air Force Base criteria.

Project Engineer | Main Street and Bridgers Avenue Signalization | City of Auburndale | Auburndale, Florida | 2012 | \$5,000: This project involved construction phase services for the replacement of traffic signals within the City’s signature corridor. Responsibilities included conducting the pre-construction meeting, construction observation, contractor coordination, and coordination with FDOT and Polk County for final project acceptance.

Project Manager & Engineer of Record | Lake Gwyn Park | Polk County Parks & Natural Resources Division | Wahneta, Florida | 2014 to 2020 | \$500,000: This project involved updates to the master plan for the ±70-acre park site. Following master plan updates, the project progressed into detailed engineering design for the build-out conditions of the facility. Then, Mr. Frederick and the project team defined individual phasing limits based on available CDBG funding available for the project. Construction was completed in 3 phases and involved multi-purpose fields, a basketball court, the County’s prototypical “Grand Pavilion” building, 3 restroom buildings, playground equipment, trails, and associated infrastructure (roadways, parking, stormwater management, water utilities, field lighting, etc.). Responsibilities included leading a multidisciplinary project team comprised of various internal departments and sub-consultants to meet an aggressive schedule.

Project Manager & Engineer of Record | 7th Street Parking Lot | City of Haines City | Haines City, Florida | 2019 to 2020 | \$50,000: This project involved the construction of a public parking lot consisting of 14 spaces located in the City’s downtown, adjacent to City Hall and the public library. The 0.16-acre parcel was previously occupied by a building that demolished circa 2005. An underground concrete vault remained from the previous building on the property. Analysis of the remnant subsurface structure was performed to evaluate alternatives for abandonment to facilitate the proposed site improvements. Due to the size of the property and parking space yield requirements, a 3,150-cubic foot underground stormwater retention system was designed to discharge to a nearby storm sewer system. The project was also within a zone, identified by FDEP, as potentially impacted by groundwater contamination. Groundwater samples were collected in accordance with FDEP Standard Operating Procedures (SOPs) to support the FDEP determination that there was no reported groundwater contamination that would be affected by the proposed stormwater management system. Responsibilities included leading a multidiscipline team of surveyors, geotechnical engineers, civil engineers, and drilling subcontractors for the preparation of construction documents and permitting of the proposed project.

Mr. Smith has 46 years of professional engineering experience in the design and construction administration of multi-million-dollar projects for governmental, institutional, industrial and private (domestic and international) clients. His major strengths include organization, leadership, market strategies, planning, financial controls, negotiations, and problem resolution. Mr. Smith has specialized technical expertise in trenchless technologies, and maintains cost consciousness with an ability to identify needs and goals, streamline existing operations, and overcome obstacles with technically sound and financially feasible solutions.

His public works projects have involved planning, design and construction administration for new and the rehabilitation of existing infrastructure systems. Projects for local, state, and federal government agencies have included water and sanitary sewer systems, highways and airfields, storm water systems, industrial parks, marinas, and recreational facilities. Many of these projects involved assistance with the development of CIPs, grant applications and presentation at public meetings.

Project Experience

Fort Lauderdale, General Engineering Services Contract, Fort Lauderdale, FL, Program Manager: Provided a wide range of services to the City of Fort Lauderdale. These services included studies, design and construction related services for water/wastewater facilities, storm water management, street improvements including streetscapes, park improvements, architectural design and surveying.

Fort Lauderdale, Septic Areas 3 and 4 Utility Improvements, Fort Lauderdale, FL, Principal-In-Charge: Designed project to provide sewer service to approximately 800 residents and businesses that currently on septic tanks. Water mains in the project area are also being upgraded by replacing 2- and 4-inch mains as well as any leaded joint pipes. Complete design, permitting and construction phase services for this project 84,000 lf of gravity sewer, three sewage pump stations, 3,200 lf of force main and 8,500 lf of water main replacement.

CRUSA and NWRUSA Master Plans, Polk County, FL, Project Manager: Performed master planning services for the Central and Northwest Utility Service Areas. Future population forecasts and subsequently water and wastewater demands were developed from the latest data available using historical data from the County's Growth Management Department, BEBR data, the U.S. Census and Polk County Utilities connection forecast. Detailed evaluations of the existing water supply & distribution systems, wastewater collection & treatment plants and reclaimed water facilities were performed for both short term (2-5 years) and long term (25 years).

Utility Master Plan, St. Lucie County, FL, Project Manager: Completed a Master Plan for Potable Water, Wastewater and Reclaimed Water through the year 2040 for five distinct service areas. Work included population projections for each planning period; updating hydraulic models; projecting water demands, wastewater flows and reclaimed water demands; evaluating system capacities; and preparing a CIP through 2040.

Old Polk City Road 20" WM, Haines City, FL, Principal-In-Charge: Design and permitting for an approximately 2.1 mile 20" WM interconnect. The design required tie-in and connection into the city's water plant and route selection within a constrained ROW.

Water Main Improvements, City of West Melbourne, FL, Principal-In-Charge: Design and permitting for improvements to the water system throughout the City including:

- Bry-Lynn Interconnect – 2,400 LF of 8" and 12".
- Dairy Road Interconnect – 1,300 LF of 6" and 12".
- Sutton Avenue Replacement Water Main – 1,050 LF of 8".
- Connova Park Neighborhood Improvements – 16,300 LF of 8" and 6"

LS9 Force Main Improvements, Haines City, FL, Principal-In-Charge: Design and permitting of approximately 3,000 linear feet of 8" Force Main as part of R&R for an active line. Design required approximately 800 feet of Horizontal Directional Drilling with 2,200 ft of direct Burial. The project also required design in compliance with the FDOT UAM for FDOT ROW crossings.



Education

- BS/1965/Civil Engineering; Virginia Polytechnic Institute and State University

Licenses / Certifications

- Professional Engineer in FL #56434, VA, and NC

Affiliations

- American Society of Civil Engineers
- National Society of Professional Engineers

NWRUSA Water Main Improvements, Polk County, FL – Contract Manager: Design of water main improvements in five distinct sub-areas along with preparation of bid documents. The improvements required consideration for both direct burial and directional bore. Design required compliance with FDOT UAM for FDOT crossing.

Itchepackesassa Creek Regional Stormwater Facility, Polk County, FL – Project Manager: The Itchepackesassa Creek Regional Stormwater Facility was designed as a regional stormwater management facility to provide enhanced water quality, wetlands enhancement, habitat development and flood attenuation. The project consists of a 55-acre treatment area that receives flows from Winston Creek from a 4,200 gpm stormwater pump station. The flow is stored in shallow pools that support conditions for the growth of wetland plants. The microbial populations extract soluble carbon and nutrients reducing concentrations of BOD and fecal coliform levels. Construction cost: \$2,200,000

City of Port St. Lucie Emergency Relief Canal, Port St. Lucie, FL, Principal-In-Charge: Design and Construction Phase services for a drainage project involving approximately 4,500 linear feet of ditch controlled by two sheet pile weir structures and an FDOT Type K inlet structure. The purpose of the project is to provide for bypass of existing undersized drainage facilities during emergency conditions. The project will be operated under the terms of an agreement and memorandum of understanding between the City and the South Florida Water Management District. The project discharges to tidal receiving waters.

City of St. Petersburg, Leeland Street and Demens Road Bridge Rehabilitation, St. Petersburg, FL, Principal-In-Charge: Prepared construction documents for two bridge replacement projects. The project involved superstructure rehabilitation, replacement of the concrete decks, barrier walls, sidewalks and railing, extension of pile caps to accommodate utilities and roadway improvements at the approaches such as sidewalk, curb ramps, utilities relocation, site grading and resurfacing.

Department of Transportation, District 5, SR 482 (Sand Lake Road), Orange County, FL Principal-In-Charge: Prepared roadway plans for a 1.8-mile urban/rural arterial to meet FDOT Resurfacing, Restoration and Rehabilitation (RRR) standards. The project included roadway design, traffic control, signing and pavement markings, pond design and permitting with the South Florida Water Management District (SFWMD).

Pinellas County, Belcher Road, Pinellas County, FL, Principal-In-Charge: Prepared construction documents for a new four-lane divided arterial roadway for Alderman Road to Klosterman Road in Pinellas County. Work included storm water pond(s), lighting and signalization of two intersections.

Florida Department of Transportation, District 5, Miscellaneous Roadway Design, FL, Principal-In-Charge: Prepared plans for roadway improvements to SR 530(US 192) in Osceola County and SR 15/600 in Orange County. Project responsibilities included RRR design for milling and resurfacing mainline pavement, widening, drainage upgrades, utility coordination, signing, and design exceptions and variations. Additional improvements include reconstruction of curb and gutter, sidewalks and the addition of bicycle lanes.

Since 1975, Mr. Howle's experience has encompassed many phases of Civil Engineering, Transportation Engineering, Land Planning, and Agency Permitting. As Vice President of Engineering, he provides complete project services from Planning and Design through Permitting and Construction for Transportation Facilities, Utility Infrastructure, and Governmental Sites. Design experience includes Roadway, Drainage, Signalization, and Lighting. As a County Engineer, he was responsible for the implementation and maintenance of Roadway Capital Improvement plans including Budgeting, Design, Right-of-Way Acquisition, Construction, and Resurfacing. His extensive experience in Transportation Programs has established him as an Expert Witness in Eminent Domain Proceedings. As Vice President of Engineering, Mr. Howle directs the Planning, Design, and Construction of Transportation and Utility related facilities.

Project Experience

Project Manager | Memorial Drive Multi-Use Path | Highlands County Board of County Commissioners | Sebring, Florida | 2021 | \$149,230: This project is a 1.42-mile Multi-Use Path along Memorial Drive from Sebring Parkway to Pompano Drive. CivilSurv performed the topographic survey, project design and prepared documents for Highlands County to submit for an ERP permit exemption. The project was funded as part of a FDOT LAP project.

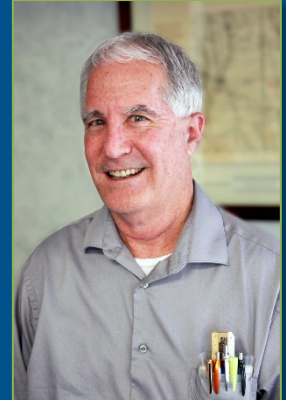
Project Supervisor | CR 473 LAP Safe Routes to School | Lake County Board of County Commissioners | Lake County, Florida | 2018 to 2021 | \$145,739: Responsible for overseeing the project and review of critical elements including drainage, break lines, and constructability. Project included approximately 1 mile of sidewalk, gravity wall, and replacement drainage components to FDOT standard design.

Project Manager | Chain of Lakes Trail Pedestrian Bridge | City of Winter Haven | Winter Haven, Florida | 2011 to 2014 | \$76,915: This project consisted of the design and permitting of a pedestrian bridge for the Chain of Lakes Trail connecting the existing trail on the south side of Avenue T NW (SR 544) to the existing trail on the north side of Avenue T NW. The project is a City of Winter Haven LAP project in cooperation with FDOT. CivilSurv is a sub-consultant to KCA for this project and performed the topographic survey, bridge approach design, project water management permitting, utility coordination and post design services. KCA is the Prime Consultant and Bridge Engineers. The Chain of Lakes Trail is a multi-use path that stretches along a 3.6-mile corridor from downtown Winter Haven to US Highway 17/92 in Lake Alfred. The trail serves Winter Haven's population with a place for bicyclists, joggers, or people just strolling along its path. The bridge over Avenue T is a vital link to connect the southern end of the Chain of Lakes Trail to the northern portion, which connects to the McKay Preserve Trail system and into downtown Lake Alfred.

Engineer of Record | Lakeland Park Drive | City of Lakeland | Lakeland, Florida | 2014 to 2020 | \$677,369: New 2-lane connector road between Carpenters Way and Lakeland Park Drive in the City of Lakeland. Project tasks included a study to determine the route for the road, roadway design, drainage design, signing and pavement marking, street lighting, utility coordination, permitting and a Multi-Use Trail. Services also included right-of-way condemnation assistance.

Project Manager | Emerson Point Trail | Manatee County Board of County Commissioners | Manatee County, Florida | 2012 | \$208,846: The Emerson Point Trail was a 2,400 linear feet trail along Sneed Island Road in Manatee County ending at the Emerson Point Park. CivilSurv provided the survey, design, permitting and part time construction inspection for this FDOT Local Area Program (LAP) project. The project was designed to work within a limited right-of-way and through wetlands which also involved drainage impacts that had to be resolved.

Project Manager | Orange Ridge Elementary School Sidewalk | FDOT District 1 | Bradenton, Florida | 2010 to 2011 | \$38,567: This project was an FDOT project providing for the design and permitting of 2,559 linear feet of sidewalk along 30th Avenue West from west of 2nd Street E to 9th Street East. In addition to the sidewalk, the project included drainage improvements and pavement markings.



Expertise

- Transportation infrastructure design
- Construction administration
- Site development

Education

- BS / Civil Engineering / The Citadel, 1975 / Deans List

Licenses / Certifications

- Professional Engineer in FL #27584, NC, VA, KY, and PA

Affiliations

- American Society of Civil Engineers
- National Association of County Engineers
- American Public Works Association

Project Manager & Engineer of Record | 7th Street SW Roadway Reconstruction | City of Winter Haven | Winter Haven, Florida | 2014 to 2020 | \$262,850: Two lane reconstruction of 0.73 miles of deteriorated road in the City of Winter Haven. The project was a complete streets project that included survey, roadway improvements, storm sewer system, signing and pavement marking, decorative street lighting, and a Multi-Use Trail. CivilSurv also performed utility coordination and permitting for the project. CivilSurv also provided part time CEI for the project.

Project Manager & Engineer of Record | 9th Street East Roadway Improvements | Manatee County Board of County Commissioners | Manatee County, Florida | 2005 to 2015 | \$445,476: This 0.5-mile project consisted of widening of 9th Street East from a rural two-lane roadway to a 4-lane urban divided roadway from 57th Avenue E to 53rd Avenue E (SR 70). The project included a new storm sewer system, retention ponds, water main and sanitary sewer force main relocations, SWFWMD and FDOT permitting, and mast arm traffic signal including signal timings for the SR 70 intersection. CivilSurv also provided CEI services for the project.

Project Manager | US 41 and Moccasin Wallow Intersection | FDOT District 1 | Manatee County, Florida | 2015 to 2018 | \$218,665: CivilSurv designed the improvements to the intersection of US 41 and Moccasin Wallow Road in Manatee County by installing and new westbound thru and right turn lane and converting the existing westbound lane to a dedicated left turn lane. In addition to the geometrical improvements to the intersection, the design included drainage improvements and modifications to the existing traffic signal to accommodate the new lane configuration.

Project Manager & Engineer of Record | 6th Street Mast Arms | City of Winter Haven | Winter Haven, Florida | 2011 | \$29,490: The project consisted of the design and permitting of two mast arm traffic signals on 6th Street SE at the intersections of Avenue C SE and Avenue K SE as part of a LAP project for the City. Using roadway plans provided by the City, CivilSurv designed the traffic signal and permitted their installation through the Florida Department of Transportation. The project also included coordination with the local utilities having both underground and overhead facilities within the right-of-way, obtaining a permit exemption from the Southwest Florida Water Management District, and construction assistance including the review of shop drawings.

Engineer of Record | Lake Wales Connector Streetscape Lighting | City of Lake Wales | Lake Wales, Florida | 2020 to Present | \$60,010: As a subconsultant to Chastain-Skillman, designed the decorative lighting for the Lake Wales Connector Streetscape project from N Wetmore Street to SR 17. Also designed and permitted a new traffic signal at SR 17 and performed a traffic study including Synchro modeling demonstrating that the existing traffic signal at Park Avenue and N 1st Street could be replaced with a 4-way stop based on a new traffic pattern and that the existing northbound left turn lanes on SR 17 and Park Avenue and E Stuart Street could be eliminated to allow more room within the existing right-of-way for proposed streetscape improvements.

Engineer of Record | Arbuckle Creek Road Intersection Lighting | Highlands County Board of County Commissioners | Sebring, Florida | 2018 | \$8,380: As a subconsultant to Chastain-Skillman, designed the intersection lighting for Highlands County at the intersection of Arbuckle Creek Road and Access Road, the entrance to the Highlands County Landfill.

Project Manager | Polk County Government Parking Garage | Polk County Board of County Commissioners | Bartow, Florida | 2015 to 2016 | \$73,848: As part of a design-build team, CivilSurv prepared the site improvements for a new parking garage for the Polk County Courthouse and Administration Building. The project included exterior parking, vehicle access to garage, bus driveway and pick-up area, enclosed drainage system, utility coordination, and potable water and sanitary sewer to service the garage. Services also included obtaining a SWFWMD permit, pre-design survey and as-built survey, and construction phase services.

Project Manager & Engineer of Record | Intersection Safety Improvements | Charlotte County Board of County Commissioners | Charlotte County, Florida | 2019 to 2020 | \$51,950: Studied potential intersection improvements for the south frontage road along US 41 where there were a large number of traffic accidents resulting from the volume of traffic on the side streets and lack of visibility on the frontage road.

CEI Project Manager | Sebring Parkway Phase IIA and IIB | Highlands County Board of County Commissioners | Sebring, Florida | 2020 to Present | \$501,160: The project consists of the 4-laning of Sebring Parkway from US 27 to Youth Care Lane. CivilSurv provided full time inspection services to oversee the construction of the project. In addition to the new lanes, the project included a storm sewer system, water main and sanitary sewer force main extension along the entire route of the project, roundabout at South Highlands Avenue, and new mast arm traffic signals at US 27 and at Desoto Road.

Morgan Thomas functions as a Project Engineer in CivilSurV's Vero Beach office. He is experienced in the use of AutoCAD Civil3D, EPANet, and the Microsoft Office suite. During his employment with CivilSurV he has performed various engineering and design tasks associated with water utilities, roads and drainage, and site development projects. He is familiar with various permitting review agencies and their requirements, including the Southwest Florida Water Management District, the South Florida Water Management District, the Florida Department of Environmental Protection, and several local governments.

Mr. Thomas has completed training courses for several field inspection categories through the Florida Department of Transportation's Construction Training & Qualification Program (CTQP). He applies his field experience to design projects that consider various aspects of constructability. Mr. Thomas is also experienced in construction cost estimation and construction management. Prior to joining CivilSurV, Mr. Thomas worked as a masonry contractor for over 15 years on a variety of residential and commercial buildings. Prior to his industry experience Mr. Thomas served in the United States Marine Corps.

Project Experience

Project Engineer | Memorial Drive Multi-Use Trail | Highlands County Board of County Commissioners | Sebring, Florida | 2020 to Present | \$150,000: This project involved the design of 1.4 miles of a new 10-foot-wide multi-use trail within the existing Memorial Drive right of way. The multi-use trail connects with an existing multi-use trail at Pompano Drive and existing sidewalk at Sebring Parkway. The project was performed under a Local Agency Program (LAP) project agreement between FDOT and Highlands County. Responsibilities included engineering design and construction document preparation.

Project Engineer | West Lake Jackson Stormwater Improvements, Phase I | City of Sebring | Sebring, Florida | 2020 to Present | \$200,000: The initial phase of the project involved the evaluation of existing drainage infrastructure, existing sanitary sewer, and pavement along SW Lakeview Drive. Stormwater discharges from the drainage system directly to Lake Jackson. This project involved funding application support services for a State Revolving Fund (SRF) loan from the Florida Department of Environmental Protection (FDEP). An Engineer's Report was prepared to summarize the findings of the infrastructure study and to provide recommendations for future phases of the project. Responsibilities included engineering task support and drawing preparation.

Project Engineer | Calusa-Hercules 230kV Access Road | Florida Power & Light Company | Charlotte & Lee Counties, Florida | 2020 to 2021 | \$75,000: This project involved the redesign of a 3.1-mile portion of new patrol road to access FPL's proposed transmission structure locations along SR 31, near Babcock Ranch. The redesign was required due to proposed improvements along SR 31. Tasks included coordination with the Babcock Ranch development team, FDOT Driveway Connection Permitting, and subsurface utility engineering to verify the location of an existing 26-inch-high pressure Florida Gas Transmission gas main. Responsibilities included engineering design and construction document preparation.

Project Engineer | Midway Road Culvert Replacement at Canal 92 and Canal 84 | St. Lucie County Public Works Department | Port St. Lucie, Florida | 2018 to 2020 | \$80,000: This project involved the replacement of large cross drain culverts under Midway Road at Canals 92 and 84. The existing culverts were 72-inch and 48-inch corrugated metal pipe culverts with soil-cement headwalls. The replacement culverts were designed as reinforced concrete pipe culverts with reinforced concrete MES and end walls, designed in accordance with FDOT specifications. The project included the evaluation of replacement alternatives, rerouting multiple drainage pipes into a common structure, adding roadside safety improvements, maintenance of traffic design, and stabilizing sloping. Responsibilities included engineering design and construction document preparation, along with the inspection of construction completed.



Expertise

- Utility system design
- Transportation infrastructure design
- Site development

Education

- BS / Civil Engineering / Florida Institute of Technology, 2016

Training

- FDEP Qualified Stormwater Management Inspector, #38093
- FDOT Concrete Field Inspector
- FDOT Concrete Lab Technician
- FDOT Earthwork Construction Inspection Level 1
- FDOT Quality Control Manager
- FDOT Equal Opportunity Compliance
- FDOT Tier 1 Illicit Discharge Detection and Elimination

Project Engineer | 20th Ave Stormwater Retrofit | City of Indian Rocks Beach | Indian Rocks Beach, Florida | 2017 | \$27,000: Performed drainage calculations along with drawing preparation for site and drainage structures. The project was a grant funded storm water quality BMP project partially funded by the Southwest Florida Water Management District.

Project Engineer | West Pipkin Road Water Main Improvements | City of Lakeland | Lakeland, Florida | 2019 to Present | \$245,000: This project involved the replacement of approximately 17,000 linear feet of potable water mains and sanitary force main, ranging in diameter from 4 inches to 16 inches. The project was in support of the widening of West Pipkin Road to four lanes between Medulla Road and S. Dossey Road. The project included design reviews at 60%, 90%, and 100%. The project also included significant utility coordination, subsurface utility engineering, redesign of mains due to storm sewer conflict issues, and the implementation of numerous construction techniques including: wet tapping, temporary service mains, and numerous clearance packages. Responsibilities included engineering design and construction document preparation.

Project Engineer | Northport Force Main Phase 2 | City of Port St. Lucie Utilities Division | Port St. Lucie, Florida | 2020 to 2021 | \$165,000: Responsible for design of approximately 6,500 linear feet of 8-inch force main, connecting the Southport system to the Northport system. The project included design reviews at 60%, 90%, and 100%, significant utility coordination, a large easement definition, drilling under US-1 and Prima Vista, subsurface utility engineering, and the implementation of numerous construction techniques including wet tapping and HDPE HDD.

Project Engineer | F-19 Raw Water Main | City of Port St. Lucie | Port St. Lucie, Florida | 2020 to 2021 | \$165,000: Responsible for leading the design and construction through the installation of approximately 3,000 linear feet of 16-inch brackish raw water mains. The project included design reviews at 30%, 60%, 90%, and 100%, significant utility coordination, a large easement definition, drilling under power and I-95, subsurface utility engineering, redesign of mains due to wetland conflict issues, and the implementation of numerous construction techniques including wet tapping, fusible PVC HDD, and a new access driveway to the proposed well.

Project Engineer | SWRUSA Inflow & Infiltration Phase 2 | Polk County Utilities Division | Polk County, Florida | 2019 to 2020 | \$330,000: This project involved the evaluation, design, permitting, and cost estimating for proposed improvements to approximately 5 miles of sanitary sewer and manholes throughout Polk County Utilities' Southwest Regional Utility Service Area (SWRUSA) within 6 basins. The project included closed-circuit television (CCTV) inspection, analyzing and locating defects within the gravity sanitary sewer mains and manholes, designing improvements to the system, and construction management. Responsibilities included inspection review and engineering support.

Project Engineer | Old Highway 37 Water Main Improvements | Polk County Utilities Division | Lakeland, Florida | 2018 to 2019 | \$135,000: Performed the design of approximately 11,000 linear feet of water mains from 8 inches to 12 inches in diameter. The project included design reviews at 30%, 60%, and 90% and easement acquisition. The project also included significant utility coordination, subsurface utility engineering, redesign of mains due to property conflict issues, and the implementation of numerous construction techniques including: HDD, J&B, wet tapping, pipe bursting, temporary service mains, and numerous clearance packages.

Project Engineer | SWRUSA Inflow & Infiltration Phase 1 | Polk County Utilities Division | Polk County, Florida | 2017 to 2019 | \$196,000: This project involved the evaluation, design, permitting, and cost estimating for the proposed improvements to approximately 5 miles of sanitary sewer and manholes throughout Polk County Utilities' Southwest Regional Utility Service Area (SWRUSA) within 5 basins. The project included closed-circuit television (CCTV) inspection, analyzing and locating defects within the gravity sanitary sewer mains and manholes, designing improvements to the system, and construction management. Responsibilities included inspection review and engineering support.

Project Engineer | North Hutchinson Island Septic Removal Project | St. Lucie County | Ft. Pierce, Florida | 2016 to 2017 | \$1.1 million: Prepared design drawings for new water network. Potable water modeling using EPANet along with quantity takeoffs and utility coordination. Performed design of vacuum building site plan preparation along with FDEP and Water Management District permitting. New mains were permitted with FDEP and St. Lucie County.

Project Engineer | Gibson Oaks Water Plant Site Design | Polk County Utilities Division | Lakeland, Florida | 2019 to 2020 | \$45,000 (site portion): Responsible for site design layout including drainage, break lines, and roadway elements. Project included approximately 3,500 feet of roadway and drainage components, including considerable amounts of conflict resolution due to seasonal high water table issues (within swamp) and proposed pressure piping routes.

Ms. Hetty Harmon serves as the Senior Planner for CivilSurv. She is experienced in planning and land development gained from her work with governmental agencies and developers. This experience includes planning, land development, construction management and permitting. Additional experience includes development review, land use analysis, engineering reviews, GIS, implementation and enforcement of development codes and ordinances, neighborhood revitalization plans, utility coordination, public/private partnerships, streetscape plans, historic/architectural guidelines, corridor studies, capital improvement plans and served as a Planning Commissioner for Summit County, Colorado. Other duties have included coordination for developers of planning, engineering, marketing, financing and construction management of numerous residential and commercial developments.

Project Experience

Senior Planner | Facilities Master Plan Update Support Services | Florida Polytechnic University | Lakeland, Florida | 2021 | \$5,000: This project involved support services to the 2021-2031 Facilities Master Plan with respect to roadway, traffic, water and wastewater projections. Responsibilities included data gathering, analysis, and assisting in the preparation of a letter report to summarize infrastructure projections for the study period.

Senior Planner | Due Diligence Site Assessment – Multiple Sites | Hillsborough County Public Schools | Hillsborough County, Florida | 2021 to Present | \$20,000: This project involved the assessment of multiple sites for potential development as public elementary, middle, or high school facilities. Due Diligence Site Assessments were initiated as preliminary reviews and advanced to subsequent stages based on the findings of the review and recommendations. Preliminary Site Assessments involved a review of the general site characteristics, planning & zoning, historic features, availability of public facilities, availability of public services, physical characteristics, and drainage & stormwater. Responsibilities included data gathering, analysis, map preparation, and assisting in the report preparation.

Senior Planner | SWFWMD Grant Funding Applications | City of Indian Rocks Beach | Indian Rocks Beach, Florida | 2009 to Present | \$60,000: Prepared numerous SWFWMD grant applications for various storm water improvements in Indian Rocks Beach. The City received \$100,000 for the implementation of the project located at Harbor Drive North and South, \$77,928 for the 6th Avenue Stormwater Quality Improvements and most recently \$90,000 for the Harbor Dr and La Hacienda project.

Senior Planner | Consultant City Planning Services | City of Indian Rocks Beach | Indian Rocks Beach, Florida | 2006 to Present | \$70,000/yr: Planning Consultant for the City, handle day to day planning questions and all development reviews, prepared the EAR based comprehensive plan amendments. Updated the comprehensive plan data and analysis required for the EAR based amendments. Updated the City's Land Development regulations based on the approved EAR amendments. Reviewed site plans for consistency with the Comprehensive Plan and with the Land Development Regulations. Performed on-site inspections to determine consistency with the approved development plans.

Senior Planner | Misc. Development Reviews | City of St. Pete Beach | St. Pete Beach, Florida | 2018 | \$8,000: Performed land development permit reviews on an as needed basis while replacing staff. Most work was completed over the phone or through email, entered approvals/denials into the Accela program.

Senior Planner | Gibson Oaks Water Production Facility Land Use Change | Polk County Utilities Division | Polk County, FL | 2016 | \$27,071: Prepared the application package for Level 4 Large Scale Comprehensive Plan Amendment, prepared conceptual site plan and attended the Planning and County Commission Public hearings.

Senior Planner | Okeechobee Sidewalk Master Plan | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2016 | \$49,240: A sidewalk masterplan was developed to determine the sidewalk needs in the County. We coordinated with the Okeechobee School Board



Expertise

- Urban Planning
- Utility Coordination
- Permitting
- Grant Funding Coordination

Education

- MS / Urban and Regional Planning / University of Colorado, 1988
- Urban Design and Architecture Courses / University of Wisconsin-Milwaukee, 1981
- BS / Design / University of Wisconsin-Madison, 1977

Licenses / Certifications

- Certified Planner No. 019199

Training

- Geographical Information System Class / University of South Florida, 2009

Affiliations

- American Institute of Certified Planners
- American Planning Association, Heart of Florida Section
Treasurer 2009-2011
2019-2021
Secretary- 2011-2013
Vice Chair 2013-2014
Chair 2014-2017

Transportation Department, Parent/Teacher organizations, County Planning and Public Works Departments, Sheriff's Department and various civic organizations. The sidewalks were identified and ranked based on the following: Pedestrian destinations i.e. Parks, Schools, Shopping, a more enjoyable neighborhood experience, connectivity of neighborhoods, efficient use of public property and the preservation of private property and the Provisions of F.S. Chapter 1006.23 and the safety of school children. Arc GIS was utilized for map preparation and to determine the lengths of the proposed sidewalks. The master plan was utilized in the Safe routes school grant application showing the need for sidewalks around the elementary schools.

Senior Planner | St. Lucie County Utility Master Plan | St. Lucie County Board of County Commissioners | St. Lucie County, Florida | 2016 | \$267,911: Completed a Master Plan for Potable Water, Wastewater and Reclaimed Water through the year 2040 for five distinct service areas. Work included population projections for each planning period developed thru the TAZ zones utilizing Arc GIS, updating hydraulic models, projecting water demands and wastewater flows, evaluating system capacities, and preparing a CIP through 2040. Future development areas were incorporated into the population projections.

Senior Planner | Lakeland Park Drive Connector and Multi-Use Pathway Study | City of Lakeland | Lakeland, Florida | 2015 | \$19,960: Assisted in the alignment study for the Lakeland Park Drive and the Multi-Use path. Coordinated with the City of Lakeland, FDOT, surrounding property owners, and the Golf Course architect. Prepared the cultural resource and contamination reports and coordinated with the utility companies for design phase. Prepared and presented alignment alternative for the public meetings.

Senior Planner | Polk State College Facilities Master Plan | Polk State College | Polk County, Florida | 2013 | \$99,120: Update of the 2005-2025 plan to establish a framework for the orderly development of sites to support the mission, vision and educational plans of PSC for the years 2010-2030. The plan will be a guide to determine where the future educational centers should be located within Polk County. Utilizing Arc GIS with the census data we were able to determine where the students were located in Polk County and the distance to a Polk State College facility. The plan is intended to identify current and future development within Polk County, population growth, educational needs, employment demands, and demands of traditional and non-traditional students, student growth and economic pressures. Previously completed the 2005-2025 Master Plan.

Senior Planner | Parker Street Beautification Project | City of Lakeland | Lakeland, Florida | 2010 to 2011 | \$81,646: Construction administration services included meeting with the contractor and utilities on a weekly basis and review of contractor invoices and payroll. The project was funded with FDOT LAP funds which required that the project meet all EEO and Davis Bacon Act requirements. Oversaw the EEO compliance and payroll reporting to ensure compliance with all federal requirements.

Utility Coordinator | Drane Field Road /Don Emerson Rd Roundabout | City of Lakeland | Lakeland, Florida | 2020 | \$8,510: Utility coordination for the roundabout in the City of Lakeland. Coordinated with Frontier, Lakeland Electric, Lakeland Telecom, Lakeland Water, Spectrum and TECO.

Utility Coordinator | Basswood Sidewalk | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2016 | \$27,000. Obtained FDOT right of way permits and SFWMD permits for the 2.7-mile sidewalk project in Okeechobee County. During the design phase there were numerous discussions with FPL, OUA and Centurylink about possible conflicts with the existing utilities.

Permit Coordinator | Natural Gas Refueling Station | Hillsborough Area Regional Transit Authority | Hillsborough County, Florida | 2013 | \$13,000: Prepared the applications and obtained the permits for the Southwest Florida Water Management District Permit Modification and the Hillsborough County Environmental Protection Commission.

Project Coordinator | SR 33 - Jenkins Nissan Dealership to North of Deeson Pt/Old Combee Road Intersection | City of Lakeland | Lakeland, Florida | 2011 to 2012 | \$965,579: Coordinated the Public Involvement meeting prior to construction. Project included the 1.3 mile four laning of SR 33 project in Lakeland. The project included a new storm sewer system, two new mast arm traffic signals and coordination with utilities

Project Coordinator | West Daughtery Road Improvements | Polk County Board of County Commissioners | Polk County, Florida: | 2012 | \$231,655: Assisted in organizing the public involvement meeting for the road improvements. Coordinated the preparation of the exhibits utilized in the meeting.

Project Coordinator | Safe Routes to Schools Grant | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2018 | \$145,739: Applied and received a Safe Routes to School Grant for sidewalks around Seminole Elementary School in Okeechobee County. The County will receive \$1,076,629.30 for engineering and construction of 12,500 linear feet of sidewalk.

Ms. Meghan Miller functions as an Engineering Intern in CivilSurf's Lakeland office. She is experienced in the use of AutoCAD Civil3D and the Microsoft Office suite. During her employment with CivilSurf she has performed various engineering and design tasks associated with water utilities, roads and drainage, and site development projects.

Project Experience

Engineering Intern | Keystone Heights Substation Slope Stabilization | Seminole Electric Cooperative Inc. | Keystone Heights, Florida | 2021 to Present | \$40,000: This project involved the evaluation of existing slope and erosion issues at the Keystone Heights Substation. Slopes were previously stabilized with a geocell cellular confinement system that had since heaved above the gravel infill and become exposed. The project also involved review of erosion of a grassed slope immediately adjacent to the substation. CivilSurf performed a terrestrial LiDAR scan of the project area to construct a 3D model of the existing conditions. In addition, ground penetrating radar technology was used to locate potential underground improvements that may be disturbed during the slope stabilization construction. Responsibilities included preparation of a data gathering, engineering design, and construction phase support services.

Engineering Intern | West Lake Jackson Stormwater Improvements, Phase I | City of Sebring | Sebring, Florida | 2020 to Present | \$200,000: The initial phase of the project involved the evaluation of existing drainage infrastructure at 28 outfall locations, existing sanitary sewer, and pavement along approximately 2.7 miles of SW Lakeview Drive. The existing drainage system was generally found to be substandard and conceptual improvements were proposed. These conceptual improvements addressed water quality improvements prior to discharging to Lake Jackson. The existing wastewater system deficiencies included inflow and infiltration issues that were, in many cases, evident in the pavement surrounding manholes. Conceptual improvements to the wastewater system and roadway were also proposed as part of the study. This project involved funding application support services for a State Revolving Fund (SRF) loan from the Florida Department of Environmental Protection (FDEP). An Engineer's Report was prepared to summarize the findings of the infrastructure study and to provide recommendations for future phases of the project.

Engineering Intern | Calusa-Hercules 230kV Access Road | Florida Power & Light Company | Charlotte & Lee Counties, Florida | 2020 to 2021 | \$100,000: This project involved the redesign of a 3.1-mile portion of new patrol road to access FPL's proposed transmission structure locations along SR 31, near Babcock Ranch. The redesign was required due to proposed improvements along SR 31. Tasks included coordination with the Babcock Ranch development team, FDOT Driveway Connection Permitting, and subsurface utility engineering to verify the location of an existing 26-inch-high pressure Florida Gas Transmission gas main.

Engineering Intern | SWRWTF Scum Removal System Improvements | Polk County Utilities Division | Mulberry, Florida | 2020 to 2021 | \$30,000: This project involved the design of modifications to the discharge line of the scum removal system for Clarifiers 3 & 4 at the County's Southwest Regional WWTF. The purpose of this modification was to direct the scum line into the gravity sewer collection system and remove the connection to the Waste Activated Sludge (WAS) line. These improvements were designed to improve the overall process efficiency by removing scum discharges from the WAS line, allowing for better measurement of solids removal. The area available for constructing the piping modifications was constrained by the existing improvements at the WWTF. CivilSurf performed topographic survey data collection as well as subsurface utility engineering services to identify potential conflicts prior to initiating design. CivilSurf also performed permit coordination, bid phase coordination, and construction administration support services for the project.

Engineering Intern | Crooked Lake Park Inflow & Infiltration Study | Polk County Utilities Division | Polk County, Florida | 2021 to Present | \$170,000: This project involved the evaluation of the existing gravity sewer system and existing sanitary lift stations located within the area known as Crooked Lake Park. The project was initiated by several sanitary sewer overflow events that resulted in FDEP



Expertise

- Utility system design and analysis
- Stormwater system design and analysis

Education

- BS / Environmental Engineering / Florida Polytechnic University, (Expected 2022)

Training

- AutoDesk Storm & Sanitary Analysis Software

enforcement actions while the system was under the control of the previous entity. Inflow and infiltration issues were found to be a significant contributing factor to the sanitary sewer overflow events. The County acquired the system and consulted with CivilSurv to evaluate alternatives to bring the system into compliance. The evaluation involved the CCTV inspection of approximately 23,000 linear feet of gravity sanitary sewer of diameter ranging from 4-inch to 10-inch and approximately 80 manholes. Responsibilities included analysis of inspection data and preparation of a preliminary design report.

Engineer Intern | Southport Sewer System Study | City of Port St. Lucie Utilities Division | Port St. Lucie, Florida | 2021 to Present | \$115,000: This project involved the evaluation of the existing gravity sewer system and existing sanitary lift stations located within the SP6, 12, and 13 collection systems. The project was initiated by a cursory evaluation of the system noting significant backups during high rain and tidal event. The City consulted with CivilSurv to evaluate approximately 17,000 linear feet of gravity sanitary sewer of diameter ranging from 8-inch to 10-inch and approximately 165 manholes. Responsibilities included coordination with field staff for the completion of the MACP and CCTV inspections and analysis of inspection data, and preparation of a preliminary design report.

Engineering Intern | Due Diligence Site Assessment – Multiple Sites | Hillsborough County Public Schools | Hillsborough County, Florida | 2021 to Present | \$20,000: This project involved the assessment of multiple sites for potential development as public elementary, middle, or high school facilities. Due Diligence Site Assessments were initiated as preliminary reviews and advanced to subsequent stages based on the findings of the review and recommendations. Preliminary Site Assessments involved a review of the general site characteristics, planning & zoning, historic features, availability of public facilities, availability of public services, physical characteristics, and drainage & stormwater. Responsibilities included data gathering, analysis, map preparation, and report preparation.

Engineering Intern | Facilities Master Plan Update Support Services | Florida Polytechnic University | Lakeland, Florida | 2021 | \$5,000: This project involved support services to the 2021-2031 Facilities Master Plan with respect to roadway, traffic, water and wastewater projections. Responsibilities included data gathering, analysis, and preparation of a letter report to summarize infrastructure projections for the study period.

Mr. Glass is a multi-faceted surveying and mapping professional with over 37 years of experience. For the past sixteen years as Vice President of Surveying and Mapping Division he has been responsible for managing a team of eight field crews and seven office staff. His expertise includes providing all aspects of survey services required for a wide range of transportation projects. He has been responsible for the production of Florida Department of Transportation Design and Right-of-Way Mapping Surveys for minor design projects such as sidewalk and trails to major interstate design projects. Mr. Glass has experience producing survey products required for multiple types of municipal projects for utility infrastructure expansion, roadway, drainage and building design. In addition to design survey projects, he and his team have completed both Southwest and South Florida Water Management District projects. His team provides subsurface utility exploration services and uses the latest equipment and techniques including terrestrial LiDAR, UAS Mapping to efficiently complete survey and mapping projects.

Project Experience

Project Manager | City of Plant City Reclaimed Waterline | City of Plant City | Plant City, Florida | 2020 | \$35,500: Mr. Glass was the survey and mapping project manager for this 2.5-mile reclaimed water line design project being designed by Hydro Solutions, Inc. CivilSurf completed the survey data collection, mapping of the exiting right of way and sub-surface utility locates and designates through the route in historic Plant City, Florida.

Project Manager | City of Winter Haven Avenue K Sidewalk from South Lake Silver Drive to Martha Drive | City of Winter Haven | Winter Haven, Florida | 2020 | \$14,340: Mr. Glass was the survey and mapping project manager for this major project that involved the design of half a mile of new sidewalk along Avenue K NE in Winter Haven. The sidewalk project was required to connect the Winter Haven campus of Polk Community College to the sidewalks around Lake Silver. The project was completed as a sub-consultant to Kimley Horn and Associates. Mr. Glass managed the survey data collection, mapping of the exiting right of way, sub-surface utility locates and designates along with production of the required utility easement legal descriptions.

QA/QC, Client Manager | Sarasota County North River Road Right of Way Mapping | Sarasota County Board of County Commissioners | Venice, Florida | 2020 | \$282,252: Mr. Glass performed Client Manager and QA/QC duties for this Right of Way Mapping project for Sarasota County. The total length of the project was 5.5 miles starting at US 41 and ending at Venice Avenue and had 26 parcels. Since North River Road was being transferred to FDOT as a Design Build construction project the maps had to be produced in 3 months. The CivilSurf team met the challenge.

Project Manager | District Wide Survey and Right of Way Mapping | FDOT District One | 1993 to Present | \$1.5 million: Mr. Glass was a project manager for these contracts for the seven years and has been the client liaison and overall project manager for this task work order contract. He has prepared scopes, negotiated project budgets, scheduled sub-consultant activities and has been responsible for QA/QC of both design and right of way surveys.

Contract Manager | US 41 (SR45) from Southwinds Drive to Bay Street Lighting Retro-Fit | FDOT District One | Sarasota County, Florida | 2018 | \$17,830: Mr. Glass managed the survey team for CivilSurf that performed the surveying and mapping services for this lighting project through 4.4 miles of US41 in Sarasota County. The project was completed as a sub-consultant to Scalar Consulting Group, Inc. CivilSurf was responsible for retracing the alignment and computing the existing right of way for this project.

Project Surveyor | SR 33 (Lakeland Hills Blvd.) from Parkview Place to Granada Street | FDOT District One | Polk County, Florida | 2018 | \$105,723: CivilSurf under the leadership of Mr. Glass performed the surveying and mapping services for this project as a sub-consultant to Patel Greene and Associates. The project was needed to improve the roadway and drainage systems through the urban section Lakeland. CivilSurf was responsible for the design survey. All work was performed to District One standards.



Expertise

- Surveying & Mapping
- Project Management

Education

- BS / Surveying & Mapping / University of Florida, 1990 / With Honors

Licenses / Certifications

- Professional Surveyor & Mapper FL# LS5713

Affiliations

- FL Surveying & Mapping Society (President, 2012-2013, President Elect 2011-2012, Treasurer 2008-2010)
- Ridge Chapter of the Florida Surveying & Mapping Society (President, 2001-2002, Vice President 2000-2001)
- Former member of the FDOT Survey Technical Advisory Committee

Project Surveyor | SR 45 (US 41) from River Road to Woodmere Park Boulevard | FDOT District One | Sarasota County, Florida | 2018 | \$196,166: CivilSurv under the leadership of Mr. Glass performed the surveying and mapping services for this project as a sub-consultant to Florida Transportation Engineers, Inc. The project was needed to add a six-foot sidewalk along 5.6 miles of SR 45 in Sarasota County. CivilSurv was responsible for the design survey. All work was performed to District One standards.

Project Manager & Surveyor of Record | Central Polk Parkway Segments 2, 3, 5 and 6 | FDOT District One | Polk County, Florida | 2014 to 2016 | \$1.39 Million: The Central Polk Parkway is a proposed toll road in Polk County that will provide, at final completion, a connection between the existing Polk Parkway and Interstate 4. The overall project length is over 40-miles and was separated into 8 project segments. CivilSurv was the preferred teaming partner for 3 separate prime contractors (Kissinger Campo and Associates; Patel Greene and Associates; and Jacobs Engineering, Inc.) and, under the leadership of Mr. Glass, performed the surveying and mapping services for 4 project segments. These project segments (Segment 2 from US 17 to East Pollard Road; Segment 3 from East Pollard Road to SR 60; Segment 5 from East US 27 to CR 544; and Segment 6 from CR 544 to CR 580) represent 28-miles of the new-alignment. In addition to the design surveys, CivilSurv was responsible for the Right of Way Control Surveys and Right of Way mapping for this project. All work was performed to FDOT District One standards. Mr. Glass' responsibilities included project management and surveyor of record for the design surveys.

Project Surveyor | FP 436125-1 I-95 at Wickham Road- Interchange Modifications | FDOT District Five | Brevard County, Florida | 2018 | \$55,004: Mr. Glass and CivilSurv are currently preparing the design surveys for this project in Brevard County as a sub-consultant to KPM Franklin as a task on their Minor Design Contract.

Project Surveyor | FP 237592-2 SR5 (US-1) from Pine Street to Cidco Road | FDOT District Five | Brevard County, Florida | 2018 | \$173,447: Mr. Glass and CivilSurv prepared the Right-of-Way Monumentation Maps for this 6-mile section of US-1 in Brevard County. They were responsible for establishing the alignment and setting the right of way monuments and preparing the final Monumentation Map, filed in the Brevard County Clerk's Office.

Project Surveyor | FP 242484-7 I-4 Beyond the Ultimate Section 7 | FDOT District Five | 2018 | \$286,485: This project was completed with CH2M Hill to prepare the Design Build Bid Package for the heavily congested section of the theme parks area of Interstate 4. Mr. Glass and CivilSurv completed the vertical control, drainage surveys, and right-of-way mapping for this section of I-4 that started at SR 528 and ended at SR 435 (Kirkman Road) in Orange County.

Project Manager | District Continuing Surveying and Mapping Services Contract | FDOT District Seven | 2016 to 2021 | \$5 million: Mr. Glass is the technical professional for this \$5 million contract with District Seven. CivilSurv has successfully completed 16 project task work orders for this contract to date for the District.

Project Surveyor | SR 581(Bruce B. Downs) at SR 54 Intersection | FDOT District Seven | Hillsborough County, Florida | 2020 | \$58,627: Mr. Glass was the technical professional for this design survey project completed as a sub-consultant to Peters and Yaffee, Inc. The project involved adding turn lanes and pedestrian improvements. CivilSurv completed the design survey services for the project utilizing terrestrial Lidar for high traffic volumes within the project limits.

Project Manager | TB Next I-4 from Cross Town Expressway to Orient Road | FDOT District Seven | Hillsborough County, Florida | 2019 | \$407,881: This project was completed to provide 4 miles of Control Survey Mapping through the Interstate 4 corridor for the design of major express way improvements through historic Ybor City in Tampa. The property and existing right of way retracement was particularly challenging due to the age and history of the corridor. Mr. Glass led the CivilSurv's team to complete the Control Survey in under 16 months. District.

Project Manager | West Contract District Wide Survey and Right of Way Mapping | FDOT Turnpike Enterprise District | 2018 to Present | \$1.5 million: Mr. Glass is the client liaison and overall project manager for this task work order driven contract. He has prepared scopes, negotiated project budgets, scheduled sub-consultant activities and has been responsible for QA/QC of both design and right of way surveys.

Project Surveyor | SR 570 (Polk County Parkway) from I-4 to Lakeland Highlands Toll Plaza | FDOT Turnpike Enterprise District | Polk County, Florida | 2018 | \$294,974: CivilSurv under the leadership of Mr. Glass performed the surveying and mapping services for these projects as a sub-consultant to Patel Greene and Associates. The project was a 3R project for 8 miles along the Parkway. The project was survey data collection was completed using Mobile Lidar. CivilSurv also completed the SUE services for the project. All work was performed to Turnpike standards.

Mr. Morris has over 20 years of experience surveying, 16 years in responsible charge of accuracy and completeness of boundary surveys, A.L.T.A./A.C.S.M. surveys, topographic surveys, jurisdictional wetland delineation surveys, construction staking / layouts, as-built surveys, record platting, bridge deformation monitoring, Florida Department of Transportation right of way control surveys, right of way maps, and design surveys. He currently is charged with the operation of our Subsurface Utility Services, and Unmanned Aerial Systems mapping including the project planning and production of deliverables.

Project Experience

Project Manager | Harlem Community Sidewalk Improvements | Hendry County Board of County Commissioners | Harlem, Florida | 2021 | \$32,400: This project generally involved the design survey for 5-foot-wide concrete sidewalks for approximately 1-mile in a community. Responsibilities included 0.5-mile design/ topographic survey project using an unmanned aerial system (drone) with photogrammetry. Project entailed establishing vertical control as well as alignment recovery & right of way determination, confirming accuracy of photogrammetry. A point cloud and 3-D break lines and features were extracted from the dataset using AutoCAD Civil 3D. The root mean square (rms) errors of x, y, and z were within 0.03', 0.03', and 0.02', respectively.

Project Surveyor | Keystone Heights Substation Slope Stabilization | Seminole Electric Cooperative Inc. | Keystone Heights, Florida | 2021 to Present | \$40,000: This project involved the evaluation of existing slope and erosion issues at the Keystone Heights Substation. Slopes were previously stabilized with a geocell cellular confinement system that had since heaved above the gravel infill and become exposed. The project also involved review of erosion of a grassed slope immediately adjacent to the substation. CivilSurv performed a terrestrial LiDAR scan of the project area to construct a 3D model of the existing conditions. In addition, ground penetrating radar technology was used to locate potential underground improvements that may be disturbed during the slope stabilization construction. Responsibilities included preparation of surveying deliverables.

Project Manager | Miscellaneous Operational and Safety Improvements | FDOT District Seven/ Peters & Yaffee | Pasco County, FL | 2020 | \$458,000: This project generally involved operational and safety improvements at the CR 581 (Bruce B. Downs Blvd.) intersections with SR 54 and Eagleston Blvd., along with drainage improvements and resurfacing. Responsibilities included 0.5-mile design/ topographic survey project using terrestrial LiDAR on State Road 581 (Bruce B. Downs Blvd.) at State Road 54. Project entailed establishing vertical control as well as alignment recovery & right of way determination.

Project Manager | Fort Fraser Trail over SR 60| FDOT District One | Polk County, Florida | 2020 | \$56,000: The purpose of this project was for the design of a proposed pedestrian bridge on the Fort Fraser Trail over SR 60. Responsible for 0.6-mile design/ topographic survey project using terrestrial LiDAR on State Road 60 at Fort Fraser Trail. Project entailed establishing vertical control as well as alignment recovery & right of way determination for the addition of a pedestrian bridge over SR 60 connecting Fort Fraser Trail.

Project Surveyor | SR 70 from Peace River to Orange Ave. | FDOT District One | Desoto County, Florida | 2018 | \$248,000: This project involved reconstruction of SR 70. Responsibilities included densification of control & planning for LiDAR data collection of 2.5-mile section of roadway for extraction of data and registration of scan data & extraction for production of final deliverable.

Project Surveyor | SR 563 (Sikes Blvd.) From Lime St. to SR 539 | FDOT District One | Polk County, Florida | 2017 | \$22,000: This project involved rehabilitation of rigid pavement. Responsibilities included densification of control & planning for LiDAR data collection of 0.4-mile section of concrete pavement for extraction of pavement joints & cracks/ deficiencies in the roadway surface. Registration of scan data & extraction for production of final deliverable.

Project Surveyor | State Road 597 (Dale Mabry Highway) | FDOT District Seven | Hillsborough County, Florida | 2017 | \$531,000: This work order was for a Project Development and Environment (PD&E)



Expertise

- LiDAR
- Subsurface Utility Engineering
- Project Management

Education

- BS / Geomatics / University of Florida, 2019 / With Honors
- AA / Engineering / Hillsborough Community College, 2014 / With Honors

Licenses / Certifications

- Professional Surveyor & Mapper FL# LS7261 Issued: 9/25/2019
- Mapping with Small Unmanned Aerial Systems Certificate University of Florida, 2020
- FAA Remote Pilot #4223793 2019

Affiliations

- Florida Surveying and Mapping Society

Study. Assisted in creating project plan and managed all terrestrial LiDAR related activities of the project for 4 miles in Hillsborough and Pasco Counties. Assisted in extracting data and creating a digital terrain model.

Project Surveyor | State Road 595 (Alternate US 19) From Mohawk Street to Skinner Blvd. | FDOT District Seven | Pinellas County, Florida | 2017 | \$248,000: Planned all terrestrial LiDAR related activities. Registered all scan data. Assisted in data extraction to create digital terrain model and final deliverable.

Project Manager | SR 700/35 (US 98) | FDOT District Seven | Pasco County, Florida | 2021 | \$445,000: This work order was for a Project Development and Environment (PD&E) Study. Project manager for 11-mile design/topographic survey. Responsible for establishing primary horizontal & vertical control. Determined alignment & right of way along with control maps.

Project Manager | SR 91 | FDOT Turnpike Enterprise District | Osceola County, Florida | 2021 | \$144,000: Purpose of this project was to create final alignment & right of way determination for future use on 13.2-mile project (from mile post 221.72 to mile post 234.95) in Osceola County. Researched & coordinated field recovery of plats, certified corner records, right of way maps, & government notes for the purpose of the creation of alignment control maps.

Project Manager | SR 758 (Midnight Pass Road) | FDOT District One | Sarasota County, Florida | 2020 | \$280,000: Purpose of project was to transfer ownership of transportation facilities from FDOT to Sarasota County. Responsible for right of way control survey & maintained right of way maps for a 3.9-mile route on Siesta Key. Determined right of way, alignment, & blocks along a densely populated area in Siesta Key.

Project Manager | SR 91 | FDOT Turnpike Enterprise District | Lake County, Florida | 2020 | \$135,000: Purpose of this project was to create final alignment & right of way determination for future use on 7.8-mile project (from mile post 290.05 to mile post 297.87) in Lake County. Researched & coordinated field recovery of plats, certified corner records, right of way maps, & government notes for the purpose of the creation of alignment control maps.

Project Surveyor | McKim & Creed -Tampa Bay Next FDOT | FDOT District Seven | Hillsborough County, Florida | 2020 | \$408,000: Purpose of project is to modernize Tampa Bay area transportation & infrastructure. Assisted with the creation of base maps & sheets for the right of way control surveys for I-4/SR 400 from the Crosstown connector to Orient Road and I-275/SR 93 from south of Willow Avenue to North of Dr. MLK Jr. Blvd, and on I-4/SR400 from I-275 to Selmon Crosstown Connector.

Project Surveyor | SR 572 (Drane Field Road) at Don Emerson Drive Roundabout | City of Lakeland/Patel & Greene | Polk County, Florida | 2020 | \$89,000: Purpose of project was for the design of roundabout. Update the existing SR 572 Design Survey complete by us for FDOT District One in 2016 for FP 438013-1 to provide coverage need for the roundabout design. The scope of this work included updating baseline reference points, recovering and/or replacing project control points and benchmarks as needed to provide a FDOT District One compliant design survey, locate any jurisdictional lines flagged and up to 15 geo-tech investigation points completed by others. Provide Subsurface Utility Investigations Levels A, B, C and D and Utility Coordination Services along with utility constructability reviews. Provide right of way mapping services necessary to support the right of way acquisition.

Project Manager | SR 91 | FDOT Turnpike Enterprise District | Lake County, Florida | 2019 | \$140,000: Purpose of this project was to create final alignment & right of way determination for future use on 10.7-mile project (from mile post 279.36 to mile post 290.05) in Lake County. Researched & coordinated field recovery of plats, certified corner records, right of way maps, & government notes for the purpose of the creation of alignment control maps.

Project Manager | SR 91- From Turkey Lake Plaza to SR 50 | FDOT Turnpike Enterprise District | Orange County, Florida | 2019 | \$205,000: Purpose of this project was to determine alignment & right of way for 10.3-mile project (from mile post 263 to mile post 273) in Orange County for future use. Researched & coordinated field recovery of plats, certified corner records, right of way maps, & government notes for the purpose of the creation of alignment control maps.

Project Manager | SR 91 | FDOT Turnpike Enterprise District | Lake County, Florida | 2018 | \$13,200: Purpose of this project was to create draft alignment & right of way determination for 10.7-mile project (from mile post 279.36 to mile post 290.05) in Lake County.

Project Manager | SR 91 | FDOT Turnpike Enterprise District | Osceola County, Florida | 2018 | \$47,000: Purpose of this project was to create final alignment & right of way determination for 3.8-mile project (from mile post 234.95 to mile post 238.76) in Osceola County. Researched & coordinated field recovery of plats, certified corner records, right of way maps, & government notes for the purpose of the creation of alignment control maps.

Mr. Mock has more than 45 years of experience as a Construction and Testing Inspector, including utility, site development, bridge, roadway, and industrial projects. He also has experience in investigating public complaints and making reports on findings, also performs field-testing and collection of samples. Mr. Mock performs road ratings, road estimates for paving and construction projects. Provides written and oral reports for review requested by private contractors, along with the preparation of contract documents, contract administration, and project proposals to potential government and private clients. Also provides QA / QC for construction plans and documents.

Project Experience

Senior Inspector | CR 68 (Micco Bluff) Roadway Improvements | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2020 to Present: Project management and full-time inspection services for the milling, road widening, and resurfacing of CR 68 (Micco Bluff Road) from Kissimmee Cattle Company to Dead End.

Construction Inspection Manager | Lake Istokpoga Structure S-14 Culvert Replacement | Highlands County Stormwater Department | Highlands County, Florida | 2014 to 2015: Supervision of replacement of culvert and sluice gate.

Senior Inspector | Bartow Interconnect | Polk County Utilities Division | Polk County, Florida | 2011 to 2013: CEI Inspection and Construction Manager for the installation of 3-miles of 16" and 24" force main for the Bartow Interconnect.

Senior Inspector | Multiple Water Lines | City of Haines City | Haines City, Florida | 2005 to 2020: CEI Inspection on water line and miscellaneous projects. Ingraham Avenue for replacement of 10" waterline, SR 544 and Hwy 27 installed 16" and 8" waterlines, Southeast Quadrant total of 9 miles of 16" waterline, Design Build of Baker Dairy Road and a street scape project for Ingraham Avenue.

Senior Inspector/Project Administrator | Sewer Plant and Force Main Upgrade | City of Sebring Utilities Department | Sebring, Florida | 2000 to 2004: Inspection and project management for the USDA Rural Development Grant for upgrading of sewer Plant and a new 16" force main, Streetscape projects for CRA Board. 2010 ASCE Ridge Branch Project of the Year.

Senior Inspector | General Engineering Services | City of Indian Rocks Beach | Indian Rocks Beach, Florida | 1999 to Present: Stormwater Inspection Projects, Sanitation Sewer Inspection Projects – Gulf Blvd/Shoreline Stabilization/Site Development Projects/FDR & curb replacement.

Senior Inspector | NE 304th St Box Culvert Repair | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2018 to 2019: Full-time inspection services for the repair to the box culvert under NE 304th Street.

Senior Inspector | Potter Road | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2018-2019: Full-time inspection services for the replace of the weir structure and stabilization of the banks of Otter Creek south of Potter Road damaged by Hurricane Irma.

Senior Inspector | River Lakes Estates CEI Services | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2017 to 2018: Construction management and full-time inspection services for the installation of a storm sewer system and driveway culverts for River Lake Estates.

Senior Inspector | NE 34th Ave Roadway Improvements | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2017 to 2018: Full-time inspection services for the milling and resurfacing of NE 34th Avenue from SR 710 to SR 70.

Senior Inspector | NE 48th Ave Pipe Replacement | Okeechobee County Board of County Commissioners | Okeechobee County, Florida | 2017 to 2018: Full-time inspection services for the replacement of the double pipes under NE 48th Avenue damaged by Hurricane Irma.



Expertise

- Construction Engineering & Inspection
- Constructability Reviews

Education

- High School Diploma

Licenses / Certifications

- TIN# M20088354
- CTQP
- Asphalt Paving Level 1
- Asphalt Paving Level 2
- F.D.O.T. Concrete Field Tech. Level 1
- Earthworks Construction Inspection Levels 1 & 2
- Final Estimates-Level 1
- ACI Concrete Certification
- D.E.P. Stormwater Management Inspector Certification
- F.D.O.T Maintenance of Traffic Advanced
- F.D.O.T Study courses
- Nuclear Gauge Certification
- F.D.O.T. Workshop-Specifications Training, 2004
- University of Wisconsin-Madison- Improving Public Works Construction Inspection Skills, 2003
- National Pollutant Discharge Elimination System, 1995
- Fundamentals of Customer Service

Adams Traffic, Inc.

Traffic Data Collection Services

NANCY ADAMS, P.E.
Traffic Counts

Nancy Adams is president of Adams Traffic, Inc., which provides traffic data collection services throughout Florida. Nancy has 30 years of engineering experience. She started her career in roadway design and then joined FDOT District Seven in the traffic design department before starting a traffic engineering consulting firm. Nancy started Adams Traffic in 2001 with a commitment to providing accurate, professional traffic data collection services on schedule. Nancy's traffic count experience is extensive. She has been responsible for hundreds of data collection assignments for the Florida DOT and many local government agencies. She provides hands-on service and is personally involved in the management, scheduling, collection, reporting and quality review of each Adams Traffic assignment. Nancy reviews every count before submittal to the client and has been responsible for the collection of thousands of accurate traffic counts in the past 20 years.

Project Experience:

SR 35 (US 98) from W Daughtery Rd to North of W Socrum Loop Rd PD&E Study, FDOT District One – Subconsultant recently responsible for collecting classification, volume, turning movement, and pedestrian counts along Lakeland corridor.

District Environmental Management Office (DEMO) Districtwide Consultant, FDOT District One – Subconsultant providing traffic data collection on districtwide contract responsible for development and evaluation of engineering and environmental studies for transportation improvements. Recently completed counts along US 98 corridor from North of Socrum Loop Rd to South of CR 54 in Lakeland for PD&E study.

Statistics Traffic Counts, FDOT District One – Subconsultant providing annual volume and classification counts in Highlands, Polk, DeSoto, Manatee, Lee, and Hardee Counties.

Districtwide Traffic Studies, FDOT District One – Subconsultant providing traffic data collection on two concurrent district-wide contracts. Assignments have included approach counts, turning movement counts, delay studies and speed studies throughout the district.

Districtwide Safety Studies & Design, FDOT District One – Subconsultant providing traffic data collection in support of safety projects throughout the district. Recently collected pedestrian crossing counts along SR 70 in Okeechobee County and SR 80 in Hendry County.

TSM&O Traffic Signal Retiming, FDOT District Five – Subconsultant providing traffic data collection on signal retiming assignments. Recently collected turning movement counts and 7-day volume counts for eight corridors.

Districtwide Safety Studies & Design, FDOT District Five – Subconsultant providing traffic data collection in support of safety projects throughout the district. Recently collected turning movement, speed, and pedestrian crossing counts.

Districtwide Traffic Operational Studies for Innovative Intersection and Interchange Treatments, FDOT District Seven – Subconsultant responsible for traffic data collection services to the District Traffic Operations office. Data collection includes volume, intersection turning movement, and pedestrian counts.

Districtwide Corridor, Subarea and Special Transportation Studies, FDOT District Seven – Subconsultant responsible for traffic data collection services for various studies performed for the District Planning department. Recent assignment included collecting volume, turning movement, and pedestrian counts along SR 580 in Pinellas County.

Districtwide Traffic Data Collection, FDOT District Seven – Prime consultant responsible for traffic data collection services to the District Traffic Operations office. Services included machine counts, turning movement counts, radar spot speed studies and pedestrian mid-block crossing counts.

Statistics Traffic Counts, FDOT District Seven – Subconsultant providing annual volume and classification counts utilizing FDOT Survey Processing Software (SPS). Counts collected along state roadways in Hillsborough, Pasco, and Pinellas counties.



Registration:

Professional Engineer,
Florida - #49288, 1995

Education:

B.S., Civil Engineering,
University of South
Florida, 1990

Work Experience:

- President, Adams Traffic, Inc., January 2001 to Present
- President, Markham – Stukes, Inc., May 1994 to December 1999
- Traffic Design Engineer, Florida DOT District Seven, February 1992 to May 1994
- Project Engineer, Seminole Engineering, May 1990 to February 1992



Jessica McRory, PE, LEED AP

GEOTECHNICAL ENGINEERING SUPPORT

Career Summary

Ms. McRory has managed the geotechnical aspects of testing, design and construction for over a thousand engineering projects over the last 17 years. Her involvement has included analysis and evaluation of soil conditions pertaining to new construction design, as well as ongoing construction projects. Project experience has ranged from task order contracts to large FDOT projects. Other responsibilities have included coordinating geotechnical field and laboratory testing, as well as construction materials testing services. Evaluations have included soil and groundwater conditions, determining soil bearing capacity and consolidation characteristics and analyzing the performance of various types of foundation systems. Ms. McRory has provided recommendations for shallow foundations, various ground improvement techniques and deep foundation systems including driven piles, drilled shafts, and augercast piles.

Project Experience:

Continuing Services Consultants/Minor Design Contract, District Five Florida: Ms. McRory serves as a senior geotechnical engineer and contract manager for this task-order contract. Scope have included geotechnical support of minor design and safety enhancements.

City of Orlando Engineering Services Contract - Wilshire Bridge Replacement Orlando, Florida: AREHNA Performed geotechnical engineering services to provide subsurface information for the conversion of an existing bridge to a double culvert. The scope included SPT and auger borings and probes beneath the water to define bearing layers. Ms. McRory managed the field activities, performed analysis and prepared the engineering report.

Continuing Services Roadway Design #14 & #15 Contract, BDI District Five, Florida: AREHNA provides geotechnical engineering services for this task order contract which consist of roadway and drainage improvements projects.

Districtwide Geotechnical and Materials Testing, District Five, Florida: Ms. McRory serves as a senior geotechnical engineer and contract manager for this task-order contract. Tasks have included pavement coring, geotechnical engineering.

Districtwide Minor Design Contract, District Five, Florida: Ms. McRory serves as a senior geotechnical engineer and contract manager for this task-order contract. Projects have included fast paced geotechnical support for the Department's in-house projects.

I-4 (SR-400) Ultimate (P3), District Five, Orange to Seminole County, Florida: McRory serving as a Geotechnical Engineer, is providing geotechnical support for miscellaneous structures proposed for the I-4 Ultimate project, which consists of highway improvements along 21 miles of highway construction. The subsurface exploration for Areas 1, 2, and 4 includes 253 overhead sign structures, 123 mast arm structures, 63 CCTV structures, 104 Jack and Bore, box culverts, and 5 toll gantry structures.

Access Management Safety Studies Continuing Contract, District Seven, Florida: AREHNA is the geotechnical consultant on this access management contract. Project tasks are anticipated to include roadway and intersection design, engineering and studies, ITS and traffic signal improvements, analysis and evaluations, and pedestrian safety improvements.

Contact Information

813.944.3464

jmcrory@arehna.com

5012 W. Lemon Street
Tampa, Florida 33609

Licenses

Professional Engineer
Florida Registration No.

68440, 2008 LEED

Accredited Professional

Experience

17 years total

12 years at AREHNA

Education

Master of Science, Civil
Engineering, Geotechnical
Concentration University
of South Florida, 2004

Bachelor of Science, Civil
Engineering University of
South Florida, 2003



Miscellaneous Professional Services for Engineering Services, Transportation Development and Design, Hillsborough County, Florida: AREHNA has performed geotechnical explorations for a series of projects, predominantly pavement projects. Scopes include seasonal high groundwater determination, muck delineation, Standard Penetration Test borings, auger borings, infiltration testing, DCPT testing for use in pavement design, pavement cores and base thickness measurements. Ms. McRory serves as the project manager for this contract.

Hillsborough County Geotechnical Continuing Services Contract, Hillsborough County, Florida: Ms. McRory serves as the geotechnical Contract Manager on this Hillsborough County contract that supports the efforts of multiple consultants for geotechnical support of County projects including the public works and real estate departments.

Districtwide Minor Design Contract, District Seven, Florida: Ms. McRory serves as the contract manager for this task-order contract. Projects have included roadway, drainage and lighting improvement projects.

Districtwide Minor Design Contract, District One, Florida: Ms. McRory served as a senior geotechnical engineer and project manager for this task-order contract.

Miscellaneous Improvements - Traffic Ops Design Studies Continuing Contract, District Seven, Florida: AREHNA is available to provide geotechnical engineering services for this task order contract which include studies, design and preparation of roadway construction on State Highways, County Roads and City Streets within the five counties of District Seven.

Florida's Turnpike Enterprise, Continuing Services ERCAR, Systemwide, Florida: Ms. McRory served as a senior geotechnical engineer and contract manager for this task-order contract. Projects have included roadway, drainage and lighting improvement projects.

Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services, City of St. Petersburg, Florida: Ms. McRory served as the Project Manager for geotechnical engineering services on multiple transportation and bridge replacement projects under this task order contract. Services included drilling and laboratory testing, engineering analysis and reporting.

Pinellas County Transportation Engineering Contract, Pinellas County, Florida: Ms. McRory serves as the project manager and oversees the geotechnical engineering effort on this project. This is an as-needed contract to support the County's Transportation projects. Scopes have included pavement, roadway, intersection and drainage improvement projects, as well as new utility placement.

District Wide Geotechnical and Materials Testing, District Seven, Florida: Ms. McRory serves as the principal-in-charge for this contract. She ensures adequate available resources for the field exploration programs including soil borings, and pavement coring, as well as construction materials testing. Services included pavement data collection, design of structure foundations and soil surveys for intersection improvement, resurfacing, widening and bridge projects.

City of Tampa AE Contract, Tampa, Florida: Ms. McRory's responsibilities included geotechnical scope development and cost estimation, boring layout and utility coordination, soil classification, geotechnical analysis, and preparation of recommendations for pavements, drainage and site preparation for multiple City of Tampa Public Works projects.

Hillsborough County Stormwater Continuing Services Contract, Hillsborough County, Florida: Ms. McRory serves as the geotechnical Project Manager on this Hillsborough County contract that supports drainage and stormwater improvement projects. Multiple stormwater tasks have been completed Countywide for this contract. We have closely coordinated with the design team to ensure that deadlines are met.

Design Build Safety Improvements, Tampa Hillsborough Expressway Authority, Tampa, Florida: The project consists of safety improvements to add wider inside paved shoulders to provide refuge for disabled vehicles and a corridor for emergency vehicles. Ms. McRory is served as the contract manager for the geotechnical services which include field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.





Kristina LaCava, PE

GEOTECHNICAL ENGINEERING SUPPORT

Career Summary

Ms. LaCava has over 14 years of geotechnical and materials engineering experience. Her engineering experience includes design and construction oversight of residential, commercial, municipal, and transportation projects. Ms. LaCava has provided design recommendations, construction considerations and construction oversight for shallow foundations including isolated, continuous and monolithic systems; deep foundations including driven pile systems, drilled shafts, micro-piles and helical anchors; soil remediation including compaction grouting and chemical grouting; ponds including pond liner oversight; pavement sections and earthwork construction. Duties have included developing work scopes/cost estimates, permit preparation, providing engineering analyses and design recommendations and project financial management. She has also been involved in oversight of construction materials testing projects for earthwork, concrete and pavement materials. Ms. LaCava performed geotechnical explorations for numerous commercial clients. Areas of expertise include the geotechnical aspects of foundation, retaining wall, as well as analysis of Florida sinkhole conditions.

Project Experience:

I-4 Ultimate (P3), District Five, Florida: The project includes 21 lane-miles of interstate reconstruction and associated infrastructure. AREHNA's responsibility includes geotechnical support for design of miscellaneous structures, ITS and drainage improvements. Ms. LaCava led geotechnical engineering services during construction.

Geotechnical and Materials Testing Continuing Services Contract, District Seven, Florida: Ms. LaCava serves as the project engineer and oversees all aspects of coordination, invoicing, reporting for geotechnical related tasks under this contract. Scopes include extensive pavement coring as part of this contract.

Miscellaneous Professional Services for Engineering Services, Transportation Development and Design, Hillsborough County, Florida: AREHNA has performed geotechnical explorations for a series of projects, predominantly pavement projects. Scopes include seasonal high groundwater determination, muck delineation, Standard Penetration Test borings, auger borings, infiltration testing, DCPT testing for use in pavement design, pavement cores and base thickness measurements. Ms. LaCava served as the project engineer for this project.

Hillsborough County Stormwater Continuing Services Contract, Hillsborough County, Florida: This Hillsborough County contract supports drainage and stormwater improvement projects. We have closely coordinated with the design team to ensure that deadlines are met. Ms. LaCava was the project engineer.

Pinellas Co. Geotechnical & Materials Testing Contract, Pinellas County, Florida: AREHNA is currently supporting multiple ongoing transportation projects. AREHNA has performed Contractor QC testing as an extension of the County under this contract. Asphalt sampling & testing for several resurfacing projects and roadway improvement has been underway. Concrete & field soil densities were performed & FDOT log books have been maintained under this contract. Drilled shaft testing & inspections have been performed, as well as extensive asphalt testing & inspection. Ms. LaCava served as the project engineer, coordinated field testing, and provided geotechnical recommendations.

Contact Information

813.944.3464
klacava@arehna.com

5012 W.
Lemon Street
Tampa,
Florida 33609

Licenses

Professional Engineer
Florida Registration No. 77594,
2014

Experience

14 years total
10 years with AREHNA

Education

Bachelor of Science, Civil
Engineering University of
South Florida, 2009



City of St. Petersburg Geotechnical Engineering Contract, St. Petersburg, Florida: The work included a variety of roadway, wall, bridge and utility replacement projects. Ms. LaCava coordinated and oversaw drilling and laboratory testing programs and performed engineering analysis and reporting.

9th Street S. (MLK Street) From 6th Ave S. to 7th Ave S., District Seven, Pinellas County, Florida: The project site is located along 9th Street S in St. Petersburg. The existing roadway is off-system and a one-way, southbound, three-lane urban roadway in the historic Rosery Park area. The improvements consist of the replacement of the existing bridge over Booker Creek and associated roadway improvements. Ms. LaCava is the project engineer, providing analysis and recommendations for bridge foundations and roadway construction.

58TH Avenue North Roadway and Drainage Improvements, Pinellas County, Florida: This drainage project consists of roadway and drainage improvements along 59th Avenue North in Pinellas Park, Florida. The project includes optional services for an alternative scope of work along 58th Avenue North between 44th Street North and 46th Way North. 58th Avenue North consists of a two-lane asphalt paved roadway with single-family houses on both sides.

Jefferson Road Drainage Improvements, Hillsborough County, Florida: The purpose of our geotechnical study was to obtain information on the general subsurface conditions for the proposed construction of a new storm sewer system along the north side of Jefferson Road and a new storm water retention pond west of Jefferson Road. AREHNA performed Standard Penetration Test borings, auger borings, installation of piezometers, permeability testing, pavement cores and laboratory classification testing.

City of St. Petersburg, 1st & 2nd Street N Mast Arms, St. Petersburg, Florida: Planned and managed geotechnical exploration program to provide design level recommendations for traffic signal mast arm foundations. Performed soil borings at proposed mast arm locations to provide soil parameters to assist in mast arm foundation design. Obtained required permits for Right-Of-Way and Maintenance of Traffic. Carefully coordinated location of existing underground utilities to avoid conflicts. Ms. LaCava was responsible for planning and managing the project and drilling operations and presenting results and recommendations in a written report.

City of St. Petersburg Geotechnical Engineering Contract, St. Petersburg, Florida: The work included a variety of roadway, wall, bridge and utility replacement projects. Ms. LaCava coordinated and oversaw drilling and laboratory testing programs and performed engineering analysis and reporting.

I-75 SR52 to the Hernando County Line, District Seven, Pasco County, Florida: Ms. LaCava performed geotechnical engineering services for this design build project. The project includes 16 lane-miles of interstate widening and associated infrastructure. The project also includes ponds for stormwater retention, flood plain compensation, culvert extensions, as well as new signage and ITS.

I-595 Express Corridor Improvements Project (P3), District Four and Turnpike, Broward County, Florida: Ms. LaCava was responsible for presenting results and recommendations on retaining wall design and roadway design for one of the largest highway transportation projects in Florida, which consists of improvements to 10.5 miles of I-595 associated with a new tolled reversible express lanes system in the I-595 median, including a total of 65 bridge replacements or widenings and numerous miscellaneous structures, such as steel sheet pile bulkheads and canal stabilization for the adjacent North New River Canal, drainage outfall structures, temporary retaining walls, MSE walls, concrete cantilever retaining walls, overhead signs, a toll gantry, highmast lights, and mast arm signal poles.

7th Street/Bartlett Park Stormwater Improvements, City of St. Petersburg, Florida: The purpose of our geotechnical study was to obtain information on the general subsurface conditions at the proposed project site. This project consisted of new storm pipe, 5' by 8' box culvert, baffle box, and Low Impact Development (LID) improvements. Ms. LaCava served as the project engineer.

Intersection Improvements Bloomingdale and Bell Shoals Road, Brandon, Florida: The geotechnical scope of work included performing soil test borings and providing parameters for mast arm design. Ms. LaCava was the project engineer and coordinated field testing and provided geotechnical recommendations.

Turkey Creek Road Widening, Hillsborough County, Florida: This project included widening 1.4 miles of roadway along Turkey Creek Road, realigning Airport Road with new traffic signals, and two stormwater management areas near Airport Road and Sydney Road. Ms. LaCava served as the Project Engineer, coordinated field testing, and provided geotechnical recommendations.





Kirk M. Eastman, PE

GEOTECHNICAL ENGINEERING SUPPORT

Contact Information

813.944.3464
keastman@arehna.com

5012 W. Lemon Street
Tampa, Florida 33609

Licenses

Professional Engineer
Florida Registration No.
50733, 1996

Experience

28 years total
2.5 years at AREHNA

Education

Master of Science, Civil
Engineering, Structures &
Foundations Engineering)
University of Central
Florida, 1992

Bachelor of Science,
Aeronautical Engineering,
Embry- Riddle Aeronautical
University, 1989

Career Summary

Mr. Eastman has 28 years of experience in the field of geotechnical engineering. He has managed multiple FDOT District Wide Contracts for Districts 1 and 7 over a 24-year period. He has also served as project manager for multiple major projects (Design-Build and Design-Bid-Build). His experience includes roadway, bridge, pond and retaining wall projects where he has performed shallow and deep foundation analyses including driven piles, settlement and slope stability analyses. He has also worked on vibration monitoring projects and performed numerous ground subsidence studies.

Project Experience:

Miscellaneous Improvements - Traffic Ops Design Studies Continuing Contract, District Seven, Florida AREHNA is available to provide geotechnical engineering services for this task order contract which include studies, design and preparation of roadway construction on State Highways, County Roads and City Streets within the five counties of District Seven.

City of Tampa A/E Continuing Services Contract, Tampa, Florida Work was performed on an as needed basis to support Public Works Projects. Services included pavement coring, drilling and laboratory testing, engineering analysis and reporting for pavement evaluation, drainage/stormwater and roadway projects. Mr. Eastman oversaw field and laboratory testing tasks and performed engineering analysis and reporting.

Hillsborough County Capital Improvement Program - Bridge Replacement Projects, Hillsborough County, Florida: The project consists of replacement of the existing bridge with three 11 feet by 4 feet box culverts. The new bridge structure will include two eleven-foot-wide travel lanes with 1.3-foot-wide shoulders, sidewalks protected by concrete barrier walls, and two lane undivided rural section with 7-foot-wide shoulders. Mr. Eastman provided geotechnical engineering services, recommendations and report preparations.

Districtwide Geotechnical and Materials Testing, District Seven, Florida: Mr. Eastman serves as a senior geotechnical engineer for this task-order contract. Scope of work has included pavement coring and geotechnical support of in-house design projects.

District Wide Geotechnical Services, District One, Sarasota, Florida: Mr. Eastman serves as the Contract Manager for geotechnical services relating to numerous transportation projects. Projects included design of structure foundations, soil surveys, intersection improvements, Oversight testing and inspection during construction, as well as sinkhole investigations including geophysical testing such as GPR.

Continuing Services for Design Projects, District Four, Broward County, Florida: Mr. Eastman serves as a senior geotechnical engineer for this task-order contract relating to numerous transportation projects. Projects included roadway widening, intersection improvements, design of structure foundations, soil surveys, pedestrian and safety improvements. Mr. Eastman's responsibilities include project oversight, field and laboratory coordination and quality control.

Pinellas County Roadways, Drainage, Structural, Civil and Traffic Engineering Capital Improvement Program (CIP) | Pinellas County, Florida: AREHENA provides geotechnical engineering services on this task order contract consisting of roadways, sidewalks and

drainage improvement project to include 62nd Ave. Improvement, 42nd Ave. Sidewalk/Drainage Improvements, Philippe Park Pedestrian Bridge and Sand Key Park Pavement Improvements.

Design Build Safety Improvements, Tampa Hillsborough Expressway Authority, Tampa, Florida: The project consists of safety improvements to add wider inside paved shoulders to provide refuge for disabled vehicles and a corridor for emergency vehicles. Mr. Eastman serves as the project engineer is responsible for project oversight, quality control, coordination for the geotechnical services which include field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

Access Management Safety Studies Continuing Contract, District Seven, Florida: AREHNA is available on an as needed basis on this task workorder contract. Project tasks to include roadway and intersection design, engineering and studies, ITS and traffic signal improvements, analysis and evaluations, and pedestrian safety improvements.

Professional Services Continuing Services for Design Projects, District Four, Florida: AREHNA has performed geotechnical explorations for a series of roadway improvements and pavement projects under this contract. Scope includes lane widening, intersection improvements, mast arm, drainage improvements, and milling/resurfacing throughout the district. Mr. Eastman oversees field and drilling services, laboratory testing, engineering analysis and reporting, utility coordination, permitting and (MOT) maintenance of traffic.

District-Wide Contract, Citrus, Sumpter, Hernando, Pasco, Pinellas and Hillsborough Counties, District Seven Florida: Mr. Eastman has managed multiple District Wide Contracts over 20 years and has provided geotechnical engineering services on over 100 projects consisting of Roadway Improvements, Bridge Replacement, Pond Improvements, Miscellaneous Structures, Retaining Walls, Sheet Pile Walls and Vibration Monitoring projects. Mr. Eastman was responsible for coordinating subsurface exploration programs. As part of the contract, Mr. Eastman coordinated the Emergency Services Program where events affecting traffic safety and roadway closures such as sinkholes were responded to on short notice with geophysical surveys, subsurface exploration and remediation recommendations and monitoring.

I-4/Lee Roy Selmon Expressway Interchange North of 7th Avenue, Hillsborough County, Florida: The project consisted of constructing a connector between I-4 and the Lee Roy Selmon Expressway and included six bridge structures, MSE walls, ponds and 3,800 feet of roadway. As the Senior Geotechnical Engineer managing the project, Mr. Eastman was responsible for coordinating the subsurface exploration program including SPT soil borings, hand auger borings, much probing, field permeability tests, reviewing soil samples, assigning laboratory tests, reviewing test results, providing geotechnical engineering recommendations and preparing all geotechnical reports.

I-275 Design Build from SR60 to Himes Avenue, Hillsborough County, Florida: The project consisted of improvements to the I-275 corridor including 10 bridges, ramps, underpass structures and associated retaining wall structures. Mr. Eastman was the Senior Geotechnical Engineer on the project and was responsible for the geotechnical exploration program, supervising the geotechnical testing program, soil classifications, settlement, axial pile capacity and slope stability analyses, providing geotechnical engineering recommendations and report preparation.

Waterfront District, Channelside Complete Streets Design, Tampa, Florida: AREHNA provided Geotechnical Engineering support to Stantec for the downtown Tampa Infrastructure Improvements. Services included utility coordination, borings layout, drilling and soil testing at various intersections in the Waterfront District Channelside area. Mr. Eastman serves as the Geotechnical Engineer responsibilities include project oversight, quality control, coordination for the geotechnical services for field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

Design Build Safety Improvements, Tampa Hillsborough Expressway Authority, Tampa, Florida: The project consists of safety improvements to add wider inside paved shoulders to provide refuge for disabled vehicles and a corridor for emergency vehicles. Mr. Eastman serves as the project engineer is responsible for project oversight, quality control, coordination for the geotechnical services which include field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.



EMILYVETTE DEGAETANO, PLA, ISA Senior Landscape Architect



Emily is the Director of Landscape Architecture for Patel, Greene and Associates (PGA). She has been active in landscape architecture, master planning, landscape design, arboricultural assessments, and post-design services during construction for more than 16 years. Her expertise includes project management, client coordination, public involvement, technical writing, and technical plans review. Specializing in the transportation sector, she is accomplished in interstate, highway and interchange beautification, landscape design for speed management, low volume drip and traditional overhead irrigation systems, and urban streetscape design. Emily is also experienced at trail planning and design, parks and recreation design, and private retail/commercial development.

Contract Role

Landscape Architecture

Education

B.L.A., Landscape Architecture,
University of Georgia, 2004

Registrations/Licenses

Registered Landscape Architect,
Florida, LA6667080, 12/23/2010

Certifications

Certified Arborist/International
Society of Arboriculture/#FL 5660A
(2007)

FDOT Temporary Traffic Control –
Intermediate Certificate #46347
(2018)

FDEP Qualified Stormwater
Management Inspector #41955
(2019)

OSHA 10-Hour Construction Safety
and Health Certification Council of
Landscape Architectural
Registration Boards/Certificate
#20273 (2019)

Work Experience

Patel, Greene and Associates
2020 - Present

AECOM
2004 - 2020

Contact

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813.978.3100
emily.degaetano@patelgreene.com

*Experience prior to joining PGA

Experience:

***SR 91 (Florida’s Turnpike)/Minneola Interchange Landscape Improvements, Lake County, FL, Landscape Architect of Record:** The focus of the design was to produce a “Bold” landscape for the newly constructed, award-winning interchange on Florida’s Turnpike at Hancock Road. The design consisted of high impact plantings on the approach to the Hancock Rd. overpass along SR 91 and the on/off ramps. Drought tolerant, native species along with specimen palms and flowering trees were used to provide seasonal color, to accentuate the gateways and focal points of the project, and to add visual interest and shade for the Hancock Trail users. Areas with existing vegetation were augmented with native species to further enhance and reforest these areas, providing a natural backdrop for the interchange. The project is also irrigated with a low volume irrigation system. Emily was responsible for the landscape design, construction documents production oversight, and project coordination. She also provided post-design services that included shop drawing reviews, construction observation, and landscape inspections.

***SR 429 Wekiva Parkway Section 7A Landscaping, Seminole County, FL, FDOT District Five, Landscape Architect:** The project involved highway beautification for 3.47 miles of new four-lane divided limited access highway along with two two-lane frontage roads, roundabouts at the major intersections, two tolling facilities, and the SR 46/SR 429 interchange. The design focused on high visibility areas and addressed the need for buffering along the adjacent residential communities and within the pond and flood compensation areas. Tree protection, root pruning, and soil materials for future landscape areas were coordinated with the design team. Plant palette emphasized native and drought tolerant species along with specimen trees/palms to accentuate the gateways and focal points of the project. Landscape and hardscape plans were prepared as a component set of the roadway plans per the master aesthetics plan for the entire Wekiva Parkway Corridor, allowing a high level of coordination between all disciplines while remaining consistent with the remainder of the corridor. Emily was responsible for the landscape design, construction document production, preparation of cost estimate, and overall project coordination.

***Transportation Enhancement Project Assistance, Districtwide, Florida, FDOT District Two, Landscape Architect:** Landscape architecture, engineering, and planning services were provided to FDOT District Two for the review of transportation enhancement grant applications submitted by municipalities in District Two counties. Emily was responsible for assessing proposals to construct multi-use trails, sidewalks, and trailhead facilities located within state and local road rights-of-way, former rail corridors, and other public lands.

EMILYVETTE DEGAETANO, RLA, ISA

Senior Landscape Architect

Tasks included documenting existing conditions, opportunities and constraints, and generating conceptual site plans, typical sections and support documentation. Conceptual plans, sections and documentation were used in developing long range estimates (LREs) and technical memoranda, which were reviewed and used as aids to rank and prioritize the projects for the FDOT District Two 5-year work program.

***East Palatka Trail Study, Putnam County, Florida, FDOT District Two, Landscape Architect:** Assisted in the planning study to investigate alternative alignments and identify the preferred route for a proposed multi-use trail in Putnam County. The multi-use trail is proposed in conjunction with the widening of US 17 south of East Palatka and will extend from San Mateo to East Palatka. Major contributions include conceptual trail design in addition to production of illustrative graphics and maps to aid in site inventory and analysis, for use in public involvement workshops, and included in the final report delivered to the client.

***City of Cape Coral Design of Neighborhood Parks, Lee County, FL, City of Cape Coral, Senior Landscape Architect & Arborist:** The purpose of this project was to design and prepare construction documents for seven neighborhood parks throughout the City of Cape Coral. Conceptual site plans, program elements, and order of magnitude costs previously developed were utilized as the basis of design for each park site. Emily provided arboricultural services for the Cultural Park Neighborhood Park and assisted with design, production of construction documents, cost estimating, and plans review for the seven parks.

***SR 867 (McGregor Blvd.) Landscaping, Lee County, FL, FDOT District One, Landscape Architect of Record:** Emily was responsible for the landscape design and project coordination for the landscape improvements along McGregor Blvd. from Gladiolus Dr. to Cypress Lake Dr. The focus of the design was to provide landscaping in the medians to enhance the project corridor. The landscape design was extensively coordinated with Lee County Department of Transportation and FDOT District One.

***Chain of Lakes Trail Pedestrian Bridge over Avenue T (SR 544), City of Winter Haven, Florida, Landscape Architect:** Emily was responsible for assisting with the landscape design, coordination, and preparation of landscape and irrigation construction documents for the first pedestrian bridge project in the City of Winter Haven. The pedestrian bridge provided a safe connection between two segments of the Chain of Lakes Trail. The project was a JPA between the City of Winter Haven and FDOT District One. Provided post-design services during construction.

***Courtney Campbell Causeway Trail Amenities Plan, Tampa, FL, City of Tampa, Senior Landscape Architect:** The Courtney Campbell Trail provides a dedicated pedestrian and bicycle trail spanning Old Tampa Bay with a separate trail bridge built adjacent to the travel lanes of the historic causeway. The addition of user amenities such as seating, shade shelters, wayfinding signage, and landscaping greatly enhance the user experience along this significant trail. In 2018 the project was the recipient of an Award of Merit by the Hillsborough County City-County Planning Commission for the Annual Community Design Awards. Emily assisted with construction document production and performed design and plans review for quality assurance.

***Tampa Riverwalk - Doyle Carlton, Tampa, FL, City of Tampa, Landscape Architect:** Located along the eastern bank of the Hillsborough River in Downtown Tampa, the scope of work involved designing and preparing construction documents for approximately 2,000 linear feet of waterfront multi-use path with urban design features. The project limits are from north of the David A. Straz Center for the Performing Arts to Water Works Park. The Tampa Riverwalk provides a safe and accessible pedestrian and bicycle corridor that serves as a transportation alternative.





LAURA LOCKWOOD-HERRSCHER, AICP, CPM Chief Planner



Laura is the Planning Group Manager for Patel, Greene and Associates (PGA). She has more than 24 years of experience in both public and private sectors of the transportation industry. Her background includes leading and managing several aspects of the planning process including policy planning, Long-Range Transportation Plans (LRTP), transit planning, integrated transportation and land use studies, modal development, systems and corridor planning, and the complete streets process. Laura has organized numerous public engagement efforts for planning studies including conducting charrettes and open design studios. Laura’s previous positions in leadership with the Florida Department of Transportation (FDOT) and the Polk Transportation Planning Organization (Polk TPO) have allowed her to form lasting relationships with key stakeholders across the state.

Contract Role

PD&E & Planning

Education

M.A., Public Administration, Troy University, 2010

B.A., Public Administration, St. Leo University, 2003

Professional Certifications/Affiliations

American Institute of Certified Planners (AICP), 32061, 2019

Certified Public Manager (CPM) 2004

Work Experience

Patel, Greene and Associates
2019 - Present

HNTB
2018 - 2019

FDOT District One
2013 - 2018

Polk TPO
2003 - 2013

Polk County’s Sheriff’s Office
1997 – 2003

Contact

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Bartow, FL 33830
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laura.herrscher@patelgreene.com

*Experience prior to joining PGA

Experience:

***HNTB, Planning, and Environmental Director (2018 – 2019):** Laura was the Director of the Planning and Environmental Department which served clients in the West Florida area including FDOT Districts 1, 3, and 7, Hillsborough County, Pasco County, Pinellas Transit Authority, and Tampa-Hillsborough Expressway Authority. She also managed projects for FDOT Central Office under the Office of Policy Planning contract. Projects and tasks that Laura oversaw as Director of this group ranged from environmental permit reviews, feasibility studies, management of projects for FDOT in a staff augmentation role, planning consistency review, planning and corridor studies, and general planning support for GEC contracts.

***Florida Department of Transportation, District One, ISD Administrator; Urban Manager Intermodal Systems Development (2016 – 2018); Urban Management Districtwide (2013 - 2016):** Laura was the Department Head leading four functional areas: Project Development and Environmental (PD&E), Modal Development, Systems Planning, and the Liaison Group/Planning Studio (rural planning and MPO Programs) for the 12-county District. She provided oversight and management of PD&E activities including National Environmental Policy Act (NEPA) compliance, state of Florida delegation memorandum of understanding (MOU) and audit, six MPOs, rail, seaport, aviation, transit, and freight development, and urban and rural planning needs. She also led coordination with local governments, MPOs, development of the regional transportation demand model, priority project programming, work program development, public hearings, and geographic information system (GIS) for the District. She was a principal actor in establishing and forming the Heartland Regional Transportation Planning Organization (TPO). In addition, she steered her team through the first federal audit of the Department as required in the MOU for delegation assignment of NEPA. She directed District programming of project priorities for MPOs and local governments, including establishing evaluation criteria for state and regional project programs like SUN Trail and Transportation Regional Incentive Program (TRIP). Laura built relationships with elected officials, MPO Directors and staff, and local government leaders to create fruitful partnerships resulting in successful implementation of projects that met the needs of communities.

Liaison Office Support, FDOT District Five, Chief Planner: Laura serves the Liaison Office to administer the MPO Program for the five MPOs within District Five. Work assignments include reviewing MPO documents such as UPWP, TIP, LRTPs, etc. for compliance and revision. She also assists with managing federal funding allocations and creates Letters of Authorization (LOA) to facilitate fund encumbrances, processes invoices and ensures eligible expenses and budgets are correctly administered. Laura’s strong experience with the MPO process benefits District and MPO staff with advisement and guidance and she has developed and delivered training, presentations for District Leadership, and tracking tools for priority projects and invoice and budget information.

LAURA LOCKWOOD-HERRSCHER, AICP, CPM

Chief Planner

***SR 37/South Florida Avenue Corridor Master Plan, FDOT District One, Project Manager & Urban Manager:** Laura served as the FDOT Project Manager on this Master Plan initiated and funded by FDOT. The project took a holistic approach to creating a master plan for a prime corridor within the City of Lakeland and included a week-long charrette with stakeholders to develop a vision for the community. A complete market analysis was accomplished for the study area, and informed decision makers about the type of development and re-development to consider for the corridor. The Dixieland CRA was a primary partner for this study, and the market analysis is serving as a key factor for the CRA plan and focus. The project received awards for planning excellence at both the local (Heart of Florida Section) and state levels (Florida Chapter) of the American Planning Association.

***Big Bend Road Corridor, Hillsborough County, FL, Project Manager & Planning Director:** Laura was the Project Manager of this Preliminary Land-use Assessment and Transportation (PLAT) Study to evaluate transportation needs, development patterns, potential for development/redevelopment, and alignment of community vision with policy and infrastructure improvement recommendations for the Big Bend Road Corridor. The PLAT process is conducted to inform future needs and improvements in the corridor and will serve as a guiding document for upcoming project development studies. This project won a 2019 Future of the Region award from the Tampa Bay Regional Planning Council in the Transportation and Mobility category.

SR 15/US 441 Stakeholder Outreach, FDOT District One GEC, Functional Area Lead: For this GEC contract with District One, Laura serves as the functional area lead for the Intermodal Systems Development Department. PGA's team was assigned a task work order to develop a strategy for outreach in rural areas of the District to engage local partners and stakeholders in the planning process and corridor assessments. Laura spearheaded efforts to develop a stakeholder workshop using a charrette style approach to gathering input from participants, who included elected officials, city management, community members, and other partnering agencies such as law enforcement, school board, and economic development professionals. The workshop provided participants an opportunity to identify concerns within the corridor and develop recommendations for improvements that could be included in upcoming resurfacings or standalone projects. Techniques included a brief presentation to orient participants to the corridor, real-time polling of the audience, interactive activities, and a summary report/memo to document the process and synthesize improvement and project ideas.

3rd St. NW Priority Transportation Project and Transportation Alternatives Program Applications, Polk County, FL, City of Winter Haven, Project Manager: The City of Winter Haven requested assistance to complete an application for project prioritization and funding from the Polk TPO. The Complete Streets project on 3rd St. NW will connect the City's Downtown with popular community assets and attractions by improving multimodal facilities, access, safety, and comfort for vulnerable roadway users. Laura's knowledge and understanding of the TPO prioritization process, funding, and FDOT project programming procedures helped this project receive funding and priority ranking of #2. The project is projected to be designed and constructed starting in 2026.





MICHAEL FURY, PE

Engineer 1

Michael is a Project Traffic Engineer with Patel, Greene and Associates (PGA). He has more than eight years of experience specializing in traffic & ITS design. His design experience includes districtwide projects, limited-access roads, intersections, rural, and urban roadways. Michael has significant in-house experience with FDOT, providing in-house services under several contracts to District Seven. His specific responsibilities have included lighting, signalization, traffic data collection, access management studies, access permitting, site observation, and project management.

Experience:

***Districtwide Access Management - Districtwide Access Classification Study, FDOT District Seven, Traffic/ITS Specialist:** Michael was the Traffic/ITS Specialist responsible for preparing an access classification study for multiple segments throughout District Seven. The study was performed to determine an appropriate access classification for segments that are currently without an access classification based on the procedures and guidelines provided in Section 335.188(3)(c) of the Florida Statutes and FDOT’s Assignment of Access Management Classifications to the State Highway System Topic Number 425-030-155-e. This involved reviewing crash data to determine high crash locations and developing recommendations to fit the access classification standards while reducing crash probability.

***Districtwide Access Management, FDOT District Seven, Traffic/ITS Engineer:** Michael was the Traffic/ITS Engineer responsible for review of access permits on behalf of the Department’s traffic operations division. This review encompasses examination of traffic impact analyses, roadway and signal plan review, and site plan review for compliance with Department standards. Additional duties included coordination with applicants and Departmental staff from maintenance, safety, design, project management, and planning as well as preparation of conceptual designs.

SR 44 from Bottle Brush Court to US 27, Lake County, FL, FDOT District Five, SAPM, Signals, Lighting EOR: The purpose of this project is to mill and resurface the roadway to extend the longevity of the roadway. Signals, signing and pavement markings, lighting and curb ramps are also included in the project. The existing typical section is to be maintained as part of this project’s overall improvements.

Continuing Services - Roadway Design (BDI), FDOT District Five, SAPM, Signals, Lighting Lead: This task work order-based contract provides roadway and other design services throughout District Five. Specific responsibilities on the contract include supporting in-house design efforts, conducting reviews for roadway plans. Mike is leading signing and pavement markings, signals, and lighting efforts for tasks assigned under this contract.

***Intersection Feasibility Study, US 41 at SR 44 (Highland Blvd.), Citrus County, FL, FDOT District Seven, Traffic/ITS Engineer:** Michael was the Traffic/ITS Specialist responsible for site observation, data collection, and preparation of memoranda on this study to determine the feasibility of adding an additional left-turn lane for the signalized intersection at US 41 and SR 44.

SR 436 from S. of SR 552 to N. of SR 552, Orange County, FL, FDOT District Five, SAPM & Signals EOR: This project is improving safety at the intersection of SR 436 and SR 552 by reconstructing mast arms with additional traffic controls, reconstructing pavement and curb ramps, removing channelizing islands, and completing drainage modifications to compensate the proposed improvements. PGA is the prime consultant leading the roadway, drainage, structures, signals, signing, and environmental efforts.

Contract Role

Traffic Studies

Education

M.C.E., Interdisciplinary Transportation, University of South Florida, 2017

B.S., Civil Engineering, Florida State University, 2014

Registrations/Licenses

Professional Engineer, Florida, 86909, 03/08/2019

Work Experience

Patel, Greene and Associates
2019 - Present

Gannett Fleming
2013 - 2019

Contact

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813.978.3100
michael.fury@patelgreene.com

*Experience prior to joining PGA

MICHAEL FURY, PE

Engineer 1

SR 40 Access Management from SW 27th Ave. to MLK Jr. Blvd., Marion County, FL, FDOT District Five, SAPM EOR: *This project designs access management improvements along SR 40 for this 0.79-mile urban corridor. The scope included inventorying current signing, ditch regarding and additional signing to accommodate turn lane modifications and completing median drainage analysis. PGA is a subconsultant responsible for the drainage and SAPM efforts. Mike is responsible for the design and documentation of signing and pavement markings.*

SR 70 (Okeechobee RRR), Okeechobee County, FL, FDOT District One, Lighting & Signals EOR: *This task work order consists of an approximately 0.9-mile resurfacing project which includes the upgrade of one signalized intersection and the reconstruction of a second signalized intersection. The signalization scope for this project includes new pedestrian signals, new mast arms for the reconstructed intersection, 4-section signal heads for protected/permissive movements, and the installation of video detection. Michael is leading the design and documentation for signals.*

SR 758 from SR 72 to Shadowlawn Way, Sarasota County, FL, FDOT District One, SAPM, Signals, Lighting EOR: The goal of this RRR project is to correct the deficient pavement conditions and extend the service life of the existing roadway including all travel lanes, auxiliary lanes, shoulders, and crossovers. Additional scope items include the redesign of two signalized intersections, intersection lighting, and signing and pavement markings.

Good Neighbor Trail Gap from W. of SR 50 to Good Neighbor Trail, Hernando County, FL, FDOT District Seven, SAPM & Signals EOR: This project increases trail connectivity through the project limits through the design of a 12-foot wide-multi-use trail that will link the Suncoast Trail to the Good Neighbor Trail as a portion of the Coast-To-Coast Connector Trail. Michael is responsible for leading the design and documentation for SAPM & signals.

SR 33 from Parkview Place to Aida St. (Complete Street), Polk County, FL, FDOT District One, SAPM & Signals EOR: This is an approximately 1.1-mile complete street project in Downtown Lakeland which involves milling and resurfacing, signing and pavement markings, lighting, and signalization. The signalization efforts for this project include the addition of 4-section signal heads for protected/permissive movements, design of two new PHB signals, and re-timing and phasing four intersections.

SR 39 (Paul S. Buchman Highway) from N. of Knights Griffin Rd. to Pasco C/L, Hillsborough County, FL, FDOT District Seven, SAPM EOR: This project is intended to rehabilitate the flexible pavement along SR 39 (Paul S. Buchman Hwy). This segment of SR 39 is a two-lane rural, undivided facility with a design speed of 65 mph. The project also incorporates safety improvements to include shoulder widening, addition of a left turn lane, and upgrades to the existing guardrail systems. Michael is responsible for leading the design for signing and pavement markings.

SR 804 (Boynton Beach Blvd.) from Lyons Rd. to E. of Florida's Turnpike, Palm Beach County, FL, FDOT District Four, Lighting EOR: This 1.2-mile RRR project included milling and resurfacing along SR 804 and upgraded the signalization to video detection. Other minor improvements included minor widening to extend existing turn lanes to the Florida Turnpike. This project also required close coordination with Lake Worth Drainage District (LWDD). Additional elements included extensive coordination with FPL for lighting upgrades and with Palm Beach County. PGA was the prime consultant leading the roadway, drainage, structures, signing and pavement marking and lighting design. Michael was responsible for completing the lighting analysis report.





PEYTON MCLEOD, PTP Senior Planner

Peyton is a Senior Planner with Patel, Greene and Associates (PGA). He has more than 18 years of experience and is integrally involved in multimodal transportation planning projects, including numerous corridor studies and safety studies for FDOT and regional transportation planning agencies. His wide range of experience includes multimodal level of service analyses, national transportation safety studies, non-motorized trip prediction techniques, evaluations of transit systems and facilities, transportation facilities and conditions mapping, and multimodal facility demand analyses.

Peyton is a central figure in the development of numerous multimodal plans. These plans typically include system-wide analyses and corridor-level feasibility studies, considering the safety and mobility of all modes of travel. He helps a variety of jurisdictions develop network evaluation and project prioritization methodologies to rank and implement nonmotorized transportation projects. He has helped FDOT develop mode shift models to predict corridor-level bicycle and pedestrian use resulting from proposed facility improvements. At the national level, he has developed urban streets multimodal level of service methodologies that enable tradeoff analysis for these same travel modes.

Contract Role

PD&E & Planning

Education

B.A., Geography, Stetson University,
2001

Certifications

Professional Transportation
Planner, 720, 03/26/2020

Work Experience

Patel, Greene and Associates
2019 - Present

Landis Evans & Partners, Inc.
2003 - 2019

Contact

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*Experience prior to joining PGA

Experience:

Winter Park Dr. Complete Streets and Concept Development Study, Seminole County, FL, City of Casselberry, Senior Planner: Winter Park Dr. is a critical corridor for enhancing multimodal connectivity in Casselberry, providing a key north-south connection for all modes of travel within the City. By incorporating multimodal safety and mobility considerations early in the project development process, this ongoing project aims to help active transportation become a viable and routine choice for daily mobility needs. As a foundational component of the existing conditions analysis, Peyton recently led a multidisciplinary walking audit of the corridor, focusing on pedestrian safety, comfort, and accessibility. The audit results are being used to identify short-term and long-term needs to build into the study's development of alternatives. In upcoming study phases, Peyton will be developing multimodal design scenarios, conducting benefit analysis, and refining the preferred alternative.

***US 17 Trail PD&E Study, Volusia County, FL, FDOT District Five, Deputy Project Manager:** A preferred alternative for a critical 14-mile link in the St. Johns River to Sea Loop, a SUN Trail priority regional trail network was identified as part of this FDOT District Five PD&E study. The study team evaluated several alignment alternatives within the US 17 corridor, considering elements such as safety, trail user operating environment, school access/student mobility, local government support, and utility impacts in identifying the preferred alternative. Additional key study elements included innovative drainage/cross-flow treatments, threatened and endangered species considerations, and a Specific Purpose Survey to confirm FDOT-owned right-of-way. Peyton served as Deputy Project Manager, leading safety analysis, project management activities, socio-cultural effects evaluations, alternatives evaluations, and public meeting materials.

***SR A1A Complete Streets Safety Implementation Plan, Flagler, Volusia & Brevard Counties, FL, FDOT District Five, Technical Lead:** Within FDOT District Five, SR A1A spans the length of Flagler, Volusia, and Brevard Counties and serves as a major route for visitors and residents by providing access to tourist destinations and employment centers. Peyton served as the technical lead for this envisioned six-phase study designed to improve the safety and accommodation of pedestrians and bicyclists through a comprehensive 5E program – engineering, education, encouragement, enforcement, and evaluation. In Phase 1 of the study, Peyton reviewed and consolidated prior relevant studies, reviewed crash history, and created a list and map of focus segments to move forward to future study phases.

PEYTON MCLEOD, PTP

Senior Planner

***University Ave. (SR 26) Multimodal Emphasis Corridor Study, Alachua County, FL, FDOT District Two/Gainesville MTPO, Project Planner:** Peyton led this corridor study which will help link various modes of transportation to reduce traffic conflicts and enhance flow on University Ave. University Ave. is a key transportation corridor connecting the University of Florida, downtown Gainesville, and the neighborhoods of East Gainesville. Peyton led the study's stakeholder walking tour, facilitated the community workshops, and prioritized candidate projects for additional Phase 2 study and cost estimating. The study's recommendations included bus stop amenity enhancements and location refinements, a bikeway along the University of Florida University Ave. frontage, several improved pedestrian crossings, and geometric and signal improvements for major intersections.

3rd St. NW Priority Transportation Project and Transportation Alternatives Program Applications, Polk County, FL, City of Winter Haven, Senior Planner: The City of Winter Haven is seeking grant funding for a Complete Streets project on 3rd St. NW that will connect the City's Downtown with numerous popular cultural attractions. The proposed project is intended to improve multimodal comfort, safety, and access through elements such as wider sidewalks, new pedestrian crossings, aesthetic enhancements, and traffic calming. Peyton completed grant applications to be submitted by the City to both the Polk Transportation Planning Organization and the Florida Department of Transportation. To support the applications, Peyton outlined existing conditions and proposed improvements, documented linkages to transit facilities and connectivity enhancements, quantified multimodal mobility improvements, prepared typical section graphics, described community benefits, and conducted a benefit-cost analysis.

***Multimodal Level of Service Study, City of Largo, FL, Project Planner:** Peyton served as team technical lead for this plan, which encourages active transportation in Largo, in addition to supporting automobile and transit use within specific multimodal corridors. The plan outlines a 25-year work program designed to guide funding and scheduling of multimodal improvements along the designated multimodal network of streets and trails. The plan identifies both near- and long-term planning horizons for projects and funding, requiring collaboration and partnerships with multiple stakeholders and agencies. Peyton conducted FDOT-based level of service analyses for the bicycle, pedestrian, and transit modes.

Safe Streets Pinellas, Pinellas County, FL, Forward Pinellas, Senior Planner: Peyton led public and stakeholder engagement activities that contributed to this Vision Zero planning effort's Action Plan. The outreach plan included formation of a Task Force, a Project Ambassadors program, social media campaigns, and four demonstration projects. Several varied demonstration projects were designed and executed: collecting bicycle/pedestrian counts and survey data at a new RRFB trail crossing installation, designing a protected intersection for an urban cycle track on a transit route corridor, using innovative video data collection to detect near misses at a key intersection with safety concerns, and developing concepts to better define markings and crossing features for pedestrians in a beach community.

***Districtwide Bicycle and Pedestrian Gap Study, FDOT District Two, Technical Lead:** This study identified gaps in FDOT District Two's bicycle and pedestrian network. Peyton led several project components, beginning with creating a districtwide inventory of bicycle and pedestrian facilities and conducting a bicycle and pedestrian existing conditions/level of service analysis for the District's roadways (more than 2,000 centerline miles). Peyton conducted a detailed analysis of five years of bicycle and pedestrian crash data to determine spatial, temporal, and environmental safety trends. He also developed a prioritization protocol that incorporates the LOS, demand, and safety findings. The results of the study now serve as a guide to the District for improvement.





TANYA KING, PE Senior Engineer 1



Contract Role

Traffic Studies

Education

M.S., Civil Engineering, North Carolina A & T State University, 2003

B.S., Civil Engineering, North Carolina A & T State University, 1999

Registrations/Licenses

Professional Engineer, Florida, 70926, 01/28/2010

Work Experience

Patel, Greene and Associates
2019 - Present

FDOT District One
2011 - 2018

City of Orlando
2008 - 2010

KCI Technologies
2006 - 2008

Burgess and Niple
2005 - 2006

Wells and Associates
2003 - 2005

City of Greensboro DOT
2001 - 2003

City of Tamarac Public Works
2000 - 2001

Contact

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Temple Terrace, FL 33637
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*Experience prior to joining PGA

Tanya is a Senior Traffic Engineer with Patel, Greene and Associates (PGA). Specializing in traffic engineering studies, Tanya has served as a project manager, contract manager, and in other leadership capacities throughout her 19-year career. She became intimately familiar with the Florida Department of Transportation's (FDOT) policies and procedures through her tenure at FDOT District One. Her specific project experience includes safety analysis, traffic/speed count analysis, signal warrant analysis, roundabout analysis, capital improvement projects, roadway design, traffic impact studies, crash data analysis, capacity analysis, signing and pavement marking design, and traffic forecasting.

Experience:

SR 31 from SR 80 to SR 78 PD&E, Lee County, FL, FDOT District One, Traffic Reviewer: SR 31 is a Florida Department of Transportation, District One PD&E project extending from SR 78 to SR 80 in Fort Myers, Florida. The plan is to widen SR 31 from a two-lane undivided roadway to a six-lane divided roadway. PGA serves as a subconsultant on this project tasked with performing the Intersection Control Evaluation for the intersection of SR 31 at SR 80 (Palm Beach Blvd.).

***US 17/92 from Lake Alfred Rd. to Pomelo St. Study, Polk County, FL, FDOT District One Lead Traffic Reviewer:** The purpose of the study was to determine whether the current typical section can accommodate future traffic as this area continues to grow and develop. Tanya, in her role with FDOT District One, was responsible for overseeing the corridor analysis as the Lead Traffic Reviewer. In this role, Tanya coordinated extensively with the District Planning Office, Central Florida Regional Planning Council, and the City of Lake Alfred. She reviewed traffic signal warrants, speed studies, traffic volumes, and historical crash data.

***US 27 and Four Corners Blvd., Polk County, FL, FDOT District One, Project Manager & Lead Traffic Reviewer:** The intersection of US 27 and Four Corners Boulevard was an unsignalized intersection servicing over 45,000 Vehicles Per Day (VPD) with side street volumes in excess of 6,000 VPD. Tanya was responsible for review and oversight of installation of a traffic signal in her role as both Lead Traffic Reviewer and Traffic Project Manager. In these roles, she managed staff in the review of historical crash data and current traffic volumes as part of a traffic signal warrant analysis. As signal warrants were met for this intersection, Tanya was also responsible for coordination with Traffic Operations, Traffic Design, and the Design-Build Push Button Committee in order to secure funding and determine scheduling to install the traffic signal.

***Jacaranda Roundabout, City of Venice, Traffic Reviewer:** The Jacaranda Blvd and E. Venice Avenue intersection was a two-lane roundabout originally designed and constructed by the City of Venice. Due to the roundabout's substandard performance and constant swipe crashes, the Department decided to assist the City of Venice and have a roundabout expert evaluate the current design and correct this issue. Tanya managed staff in the review of the traffic analysis and review of the design plans.

***SR 758 Higel Ave. and Siesta Drive, Sarasota County, FL, FDOT District One, Lead Traffic Reviewer:** With traffic volumes of 17,000 VPD, Higel Avenue is two-lane roadway providing access to some of Sarasota's popular beaches. Due to the high number of crashes at the intersection of Higel Avenue and Siesta Drive, Tanya, in coordination with District Traffic Operations staff, collaborated to provide safety improvements at this location. Tanya provided recommendations based on the review of historical crash data, traffic counts, and speed analysis. Recommendations included installing speed limit feedback signs, curve ahead signs, chevrons, and guard rail to improve the safety at this location.

TANYA KING, PE

Senior Engineer 1

***US 41 and Lely Resort, Collier County, FL, FDOT District One, Lead Traffic Reviewer:** The intersection of US 41 and Lely Resort was an unsignalized T-Intersection and one of many entrances to the Lely Resort community. This intersection was experiencing a high number of left turn crashes of which one resulted in a fatality. Tanya was responsible for review and oversight of the analysis of the required operational improvements as the Lead Traffic Reviewer. In this capacity, Tanya reviewed traffic signal warrants, three-year crash history, origin-destination, and speed studies. Tanya also performed a traffic analysis based on upstream U-turn traffic to determine whether the re-routed traffic would contribute to warranting a signal at this intersection. Tanya led the coordination between Collier County, Lely Resort Homeowner's Association and District staff, and all parties agreed that restricting the side street left turn movement exiting Lely Resort would be the safest and most cost-effective solution for this intersection.

***US 41 and 10th and 14th St. Roundabouts, Sarasota County, FL, FDOT District One, Lead Traffic Reviewer:** The design plans for the 10th and 14th Street roundabouts required studies to support installing Pedestrian Hybrid Beacons at pedestrian crossings. Tanya was responsible for overseeing the analysis of the required operational improvements as the Lead Traffic Reviewer. As a technical reviewer, she reviewed traffic signal warrants, pedestrian volumes, and historical crash data along for the two roundabouts. Based on this information, Tanya used her professional engineering judgment to recommend Pedestrian Hybrid Beacons at the 10th Street roundabout. These recommendations were then implemented into the overall design.

***SR 78 and NE 24th Avenue/Hancock Creek S. Blvd., Lee County, FL, FDOT District One, Project Manager:** The SR 78 (Pine Island Boulevard) and NE 24th Avenue/Hancock Creek Boulevard was an unsignalized intersection located in the City of Cape Coral, Florida. Due to a high number of angle crashes, District staff approved a traffic signal at this location. In her role at District One, Tanya was the Traffic Operations Project Manager for construction of the signal. In this capacity, Tanya worked closely with the City of Cape Coral and District Local Agency Program Office to develop an agreement between the two agencies which outlined funding sources allocated for the signal and contributions from private developers. She also analyzed traffic data to determine mainline and side-street turn lane lengths which would be incorporated into the design of the signal. Tanya was also responsible for coordination with Traffic Operations, Traffic Design, and the Design Build Push Button Committee in order to secure additional funding and determine scheduling for installation of the traffic signal.

***SR 82 from Daniels Parkway to Homestead Boulevard, Lee County, FL, FDOT District One, Lead Traffic Reviewer:** This 6.8-mile section of SR 82 was a two-lane, undivided roadway which was being widened to a four-lane typical section. Tanya, in her role with FDOT District One, was responsible for overseeing the analysis of the required operational improvements as the Lead Traffic Reviewer. In this role, Tanya coordinated extensively with other FDOT departments such as Traffic Operations, Traffic Design, and Project Management to ensure the project went smoothly. As a technical reviewer, she reviewed traffic signal warrants, speed studies, traffic volumes, and historical crash data along this corridor. Based on this information, Tanya used her professional engineering judgement to provide recommendations to improve the safety and overall operation of the future corridor. These recommendations were then implemented into the overall design.



LOCATION PERCENTAGE OF
WORK TO BE COMPLETED

Address of Prime Consultant's designated office where the majority of work will be performed	
Street	2525 Drane Field Road
Street 2	Suite 7
City	Lakeland
State	FL 33811

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)	95.00%
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Address of Prime Consultant's other offices where work will be performed (if applicable)	
Street	
Street 2	
City	
State	

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