BUILT FOR VERSATILITY

ON CALL TRANSPORTATION AND TRAFFIC ENGINEERING SERVICES

#21-0940 Request For Statement of Qualifications (RSQ)

Submitted by S&ME, Inc.

September 21, 2021

2. FORMS

The undersigned hereby declares that: S&ME, 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. None

6.0 CERTIFICATION REGARDING BACKGROUND CHECKS:

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

7.0 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

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

8.0 RECIPROCAL VENDOR PREFERENCE:

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

A. Primary business location of the responding Vendor: 1615 Edgewater Dr, Ste 200 Orlando FL 32804

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: S&ME, Inc.

Street Address: 1615 Edgewater Drive, Suite 200

City: Orlando State and ZIP Code: 32804

Mailing Address (if different): Click or tap here to enter text.

Telephone: 407-975-1273 Fax: Click or tap here to enter text.

Federal Identification Number / TIN: 56-0791580

DUNS Number: 080740486

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: *Shannon Sweitzer*

Date: 9/21/2021

Print Name: Shannon Sweitzer

Title: Senior Vice President

Primary E-mail Address: ssweitzer@smeinc.com

Secondary E-mail Address: Click or tap here to enter text.

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]

State of Florida
Department of State

I certify from the records of this office that S&ME, INC. is a North Carolina corporation authorized to transact business in the State of Florida, qualified on March 10, 1993.

The document number of this corporation is F93000000770.

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 February 24, 2021, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-fourth day of February, 2021

Secretary of State

Tracking Number: 3697533303CC

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

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

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

Request for Taxpayer Identification Number and Certification

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

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

Print or type. See Specific Instructions on page 3.

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

S&ME, Inc.

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

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

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

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

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

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

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

2724 Discovery Drive, Suite 120

Requester's name and address (optional)

6 City, state, and ZIP code

Raleigh, NC 27616

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

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

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

Social security number

			–			–				

or

Employer identification number

5	6	–	0	7	9	1	5	8	0

Part II Certification

Under penalties of perjury, I certify that:

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

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

Sign Here **Signature of U.S. person** ▶ Rachel Szortzis **Date** ▶ 1/4/2021

General Instructions

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

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

Purpose of Form

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

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

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

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

ADDENDUM NO. 1 **21-0940**

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

SOLICTATION: 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: S&ME, 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: *Shannon Sweitzer*
Date: 9/21/2021
Print Name: Shannon Sweitzer
Title: Senior Vice President
Primary E-mail Address: ssweitzer@smeinc.com
Secondary E-mail Address: Click or tap here to enter text.

ADDENDUM NO. 2 **21-0940**

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

SOLICTATION: 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: S&ME, 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: *Shannon Sweitzer*

Date: 9/21/2021

Print Name: Shannon Sweitzer

Title: Senior Vice President

Primary E-mail Address: ssweitzer@smeinc.com

Secondary E-mail Address: Click or tap here to enter text.

CERTIFICATE OF LIABILITY INSURANCE

7/1/2022

DATE (MM/DD/YYYY): 9/15/2021

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	Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000
CONTACT NAME:	
PHONE (A/C, No, Ext):	FAX (A/C, No):
E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Valley Forge Insurance Company	20508
INSURER B : Travelers Property Casualty Co of America	25674
INSURER C : American Casualty Company of Reading, PA	20427
INSURER D : National Fire Insurance Co of Hartford	20478
INSURER E :	
INSURER F :	

INSURED 1495227 S&ME INC.
111 KELSEY LANE, SUITE E
TAMPA FL 33619

COVERAGES **CERTIFICATE NUMBER:** 17826564 **REVISION NUMBER:** XXXXXXX

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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
D	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [X] PRO-JECT [X] LOC OTHER:	Y	Y	6042844344	7/1/2021	7/1/2022	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 1,000,000 $ 15,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY	Y	Y	BUA 7015184548	7/1/2021	7/1/2022	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 2,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX
B	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000	N	N	CUP-2S937960-21-NF	7/1/2021	7/1/2022	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	WC7015154143	7/1/2021	7/1/2022	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: 21-7868. LAKE COUNTY - ON CALL TRANSPORTATION AND TRAFFIC ENGINEERING SERVICES. LAKE COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, AND THE BOARD OF COUNTY COMMISSIONERS ARE ADDITIONAL INSUREDS AS RESPECTS GENERAL LIABILITY AND AUTO LIABILITY, AND THESE COVERAGES ARE PRIMARY AND NON-CONTRIBUTORY, IF REQUIRED BY WRITTEN CONTRACT. WAIVER OF SUBROGATION APPLIES TO GENERAL LIABILITY, AUTO LIABILITY AND WORKERS COMPENSATION/EMPLOYER'S LIABILITY WHERE ALLOWED BY STATE LAW AND IF REQUIRED BY WRITTEN CONTRACT.

CERTIFICATE HOLDER

17826564
LAKE COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, AND THE BOARD OF COUNTY COMMISSIONERS
P.O. BOX 7800
TAVARES FL 32778-7800

CANCELLATION See Attachments

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

Joseph M Agnello

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CNA

CNA PARAMOUNT

Blanket Additional Insured - Owners, Lessees or Contractors - with Products-Completed Operations Coverage Endorsement

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

It is understood and agreed as follows:

I. **WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **coverage part**, but only with respect to liability for **bodily injury**, **property damage** or **personal and advertising injury** caused in whole or in part by your acts or omissions, or the acts or omissions of those acting on your behalf:

A. in the performance of your ongoing operations subject to such **written contract**; or

B. in the performance of **your work** subject to such **written contract**, but only with respect to **bodily injury** or **property damage** included in the **products-completed operations hazard**, and only if:

1. the **written contract** requires you to provide the additional insured such coverage; and

2. this **coverage part** provides such coverage.

II. But if the **written contract** requires:

A. additional insured coverage under the 11-85 edition, 10-93 edition, or 10-01 edition of CG2010, or under the 1001 edition of CG2037; or

B. additional insured coverage with "arising out of" language; or

C. additional insured coverage to the greatest extent permissible by law;

then paragraph **I.** above is deleted in its entirety and replaced by the following:

WHO IS AN INSURED is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **coverage part**, but only with respect to liability for **bodily injury**, **property damage** or **personal and advertising injury** arising out of **your work** that is subject to such **written contract**.

III. Subject always to the terms and conditions of this policy, including the limits of insurance, the Insurer will not provide such additional insured with:

A. coverage broader than required by the **written contract**; or

B. a higher limit of insurance than required by the **written contract**.

IV. The insurance granted by this endorsement to the additional insured does not apply to **bodily injury**, **property damage**, or **personal and advertising injury** arising out of:

A. the rendering of, or the failure to render, any professional architectural, engineering, or surveying services, including:

1. the preparing, approving, or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and

2. supervisory, inspection, architectural or engineering activities; or

B. any premises or work for which the additional insured is specifically listed as an additional insured on another endorsement attached to this **coverage part**.

V. Under **COMMERCIAL GENERAL LIABILITY CONDITIONS**, the Condition entitled **Other Insurance** is amended to add the following, which supersedes any provision to the contrary in this Condition or elsewhere in this **coverage part**:

CNA

CNA PARAMOUNT

Blanket Additional Insured - Owners, Lessees or Contractors - with Products-Completed Operations Coverage Endorsement

Primary and Noncontributory Insurance

With respect to other insurance available to the additional insured under which the additional insured is a named insured, this insurance is primary to and will not seek contribution from such other insurance, provided that a **written contract** requires the insurance provided by this policy to be:

1. primary and non-contributing with other insurance available to the additional insured; or
2. primary and to not seek contribution from any other insurance available to the additional insured. But except as specified above, this insurance will be excess of all other insurance available to the additional insured.

VI. Solely with respect to the insurance granted by this endorsement, the section entitled **COMMERCIAL GENERAL LIABILITY CONDITIONS** is amended as follows:

The Condition entitled **Duties In The Event of Occurrence, Offense, Claim or Suit** is amended with the addition of the following:

Any additional insured pursuant to this endorsement will as soon as practicable:

1. give the Insurer written notice of any **claim**, or any **occurrence** or offense which may result in a **claim**;
2. send the Insurer copies of all legal papers received, and otherwise cooperate with the Insurer in the investigation, defense, or settlement of the **claim**; and
3. make available any other insurance, and tender the defense and indemnity of any **claim** to any other insurer or self-insurer, whose policy or program applies to a loss that the Insurer covers under this **coverage part**. However, if the **written contract** requires this insurance to be primary and non-contributory, this paragraph **3.** does not apply to insurance on which the additional insured is a named insured.

The Insurer has no duty to defend or indemnify an additional insured under this endorsement until the Insurer receives written notice of a **claim** from the additional insured.

VII. Solely with respect to the insurance granted by this endorsement, the section entitled **DEFINITIONS** is amended to add the following definition:

Written contract means a written contract or written agreement that requires you to make a person or organization an additional insured on this **coverage part**, provided the contract or agreement:

A. is currently in effect or becomes effective during the term of this policy; and

B. was executed prior to:

   1. the **bodily injury** or **property damage**; or
   2. the offense that caused the **personal and advertising injury**;

   for which the additional insured seeks coverage.

Any coverage granted by this endorsement shall apply solely to the extent permissible by law.

All other terms and conditions of the Policy remain unchanged.This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.

Attachment Code: D592471 Certificate ID: 17826564

CNA PARAMOUNT

Changes - Notice of Cancellation or Material Restriction Endorsement

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
EMPLOYEE BENEFITS LIABILITY COVERAGE PART
LIQUOR LIABILITY COVERAGE PART
OWNERS AND CONTRACTORS PROTECTIVE LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART
RAILROAD PROTECTIVE LIABILITY COVERAGE PART
STOP GAP LIABILITY COVERAGE PART
TECHNOLOGY ERRORS AND OMISSIONS LIABILITY COVERAGE PART
SPECIAL PROTECTIVE AND HIGHWAY LIABILITY POLICY - NEW YORK DEPARTMENT OF TRANSPORTATION

SCHEDULE	
Number of days notice (other than for nonpayment of premium):	090
Number of days notice for nonpayment of premium:	10
Name of person or organization to whom notice will be sent:	PER SCHEDULE ON FILE
Address:	PER SCHEDULE ON FILE PER SCHEDULE ON FILE XX 00000

If no entry appears above, the number of days notice for nonpayment of premium will be 10 days.

It is understood and agreed that in the event of cancellation or any material restrictions in coverage during the **policy period**, the Insurer also agrees to mail prior written notice of cancellation or material restriction to the person or organization listed in the above Schedule. Such notice will be sent prior to such cancellation in the manner prescribed in the above Schedule.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.

NOTICE OF CANCELLATION OR MATERIAL CHANGE - DESIGNATED PERSON OR ORGANIZATION

It is understood and agreed that this endorsement amends the following:

AUTO DEALERS COVERAGE FORM

BUSINESS AUTO COVERAGE FORM

MOTOR CARRIER COVERAGE FORM

In the event of cancellation or material change that reduces or restricts the insurance provided by this Coverage Form, we agree to send prior notice of cancellation or material change to the person or organization scheduled below at the address scheduled below. This endorsement does not amend our obligation to notify the Named Insured of cancellation as described in the Common Policy Conditions or in another endorsement attached to this policy.

SCHEDULE
1. Number of days advance notice:
10 Days if we cancel for non-payment of premium.
90 Days if the policy is cancelled for any other reason, or if coverage is restricted or reduced by endorsement.

1. Person or Organization's Name and Address	
Name:	ANY PERSON OR ORGANIZATION THAT IS REQUIRED BY WRITTEN CONTRACT OR AGREEMENT
Attention:	
Street Address:	
City, State, ZIP:	
e-mail address:	

All other terms and conditions of the policy remain unchanged

This endorsement, which forms a part of and is for attachment to the policy issued by the designated Insurers, takes effect on the Policy Effective date of said policy at the hour stated in said policy, unless another effective date (the Endorsement Effective Date) is shown below, and expires concurrently with said policy.

Workers Compensation And Employers Liability Insurance

Policy Endorsement

CANCELLATION AND NON-RENEWAL ENDORSEMENT

This endorsement applies only to the insurance provided by the policy because North Carolina is shown in item 3.A. of the Information Page.

It is hereby understood and agreed that all cancellation provisions in the policy addressing the required number of days notice for cancellation by us or non-renewal by us are amended as follows:

a. 15 days notice will be given for notice of cancellation for non-payment of premium.

b. 75 days notice will be given for notice of cancellation for any other reason.

c. 90 days notice will be given for non-renewal.

Notwithstanding the provisions above, in no event will the number of days notice for cancellation or for non-renewal be fewer than the number of days required by North Carolina law.

If the provisions above are blank, the number of days notice required by North Carolina law will apply.

In the event of cancellation or nonrenewal of the policy, we will mail notice to the named insured, and to the additional person(s) or organization(s) named in the Schedule below, as required by North Carolina law:

SCHEDULE

Certificate Holders that are on file with the Company

All other terms and conditions of the policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the policy issued by the designated Insurers, takes effect on the Policy Effective Date of said policy at the hour stated in said policy, unless another effective date (the Endorsement Effective Date) is shown below, and expires concurrently with said policy unless another expiration date is shown below.

Attachment Code: D594040 Certificate ID: 17826564

This endorsement, effective 12.01am 07/01/2021

Forms a part of policy no.: 031565551

Issued to: S&ME, INC. and as more fully detailed herein

By: LEXINGTON INSURANCE COMPANY

ENDORSEMENT

ADVICE OF CANCELLATION TO ENTITIES OTHER THAN THE NAMED INSURED ENDORSEMENT

This endorsement modifies insurance provided by the policy:

SCHEDULE

Name of Certificate Holder(s) and Address:

WHERE PURSUANT TO A CONTRACT OR WRITTEN AGREEMENT THE INSURED HAS AGREED BY NATURE OF SUCH CONTRACT OR 'WRITTEN AGREEMENT WHERE THE INSURED HAS PROVIDED THE COMPANY WITH THE NAMES AND ADDRESS OF SUCH CERTIFICATE HOLDERS

A. If the **Insurer** cancels this policy, prior written notice of cancellation shall be given to the Certificate Holder(s) shown in the above Schedule (hereinafter, "Certificate Holder(s)") as follows:

1. a ten (10) day prior written notice of cancellation shall be given for nonpayment of premium;

2. a sixty (60) day prior written notice of cancellation shall be given for any reason other than cancellation for non-payment of premium,

3. a sixty (60) day prior written notice of shall be given for non-renewal of this policy.

B. The **Insurer** shall provide sixty (60) days prior written notice of a **Material Change** during the policy period to the Certificate Holder(s).

Other than the right to receive notice of cancellation or a notice of a **material change** as set forth herein, this endorsement confers no rights under this policy to the Certificate Holder(s) including, but not limited to, additional insured status or additional **Named Insured** status.

The following definitions apply to this endorsement:

1. **Insurer** means Underwriters at Lloyd's, London

2. **Material Change** means the addition of an endorsement(s) to the policy after the policy inception date which:

   a. Reduces the Limits of Insurance/Liability; or

   b. Adds an Exclusion(s) to the policy.

All other terms and conditions of the policy remain the same.

Authorized Representative OR
Countersignature (In states where applicable)

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge	George Kramer, AICP, LEED AP	Orlando, FL	#020533
Project Manager	Kelly Farabee, PE, PTOE	Tampa, FL	#91816
Traffic Operations Engineer	Angelo Rao, PE	Tampa, FL	#58147
Senior Planner	Chris Dougherty, AICP	Orlando, FL	#026356
Senior Planner	Pat Tyjeski, AICP	Orlando, FL	#069120
Senior Transportation Planner	Terry McKloski, AICP	Tampa, FL	#022275
Utility Coordinator	Sarah Matin, PE	Orlando, FL	#70942
Engineering & Cost Estimating	Jeremy Fireline, PE, PMP	Tampa, FL	#63987

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)

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			

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)
Project Manager	Accurate Traffic Counts, Inc.	1750 W Broadway St, Suite 114, Oviedo, FL 32765	Santiago Franceschini	100%	Yes	Yes

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			

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)
Inwood PD&E Lead	INWOOD	3000 Dovera Drive, Suite 200, Ovie	David Dangel, PE **	50%	YES, Inwood has worked with S&ME.	YES
Inwood Traffic Engineering Lead	INWOOD	3000 Dovera Drive, Suite 200, Ovi	Christy Lofye, PE, RSP1 **	60%	YES, Inwood has worked with S&ME.	YES
Traffic Engineering/PD&E	INWOOD	3000 Dovera Drive, Suite 200, Ovi	Morgan Morris, EI **	70%	YES, Inwood has worked with S&ME.	YES
PD&E	INWOOD	3000 Dovera Drive, Suite 200, Ovi	Amanda Ashby **	70%	YES, Inwood has worked with S&ME.	YES

PD&E	INWOOD	3000 Dovera Drive, Suite 200, Ov	Jason Houck, PWS, GISP **	30%	YES, Inwood has worked with S&ME.	YES
PD&E	INWOOD	3000 Dovera Drive, Suite 200, Ov	Ben Shepherd, PWS **	60%	YES, Inwood has worked with S&ME.	NO
Traffic Engineering/PD&E	INWOOD	3000 Dovera Drive, Suite 200, Ov	Nick Altizer **	70%	YES, Inwood has worked with S&ME.	YES
Inwood QA/QC Officer	INWOOD	3000 Dovera Drive, Suite 200, Ov	Co-Co Wu, PE **	90%	YES, Inwood has worked with S&ME.	YES
Traffic Engineering Intersection/Signal Design	INWOOD	3000 Dovera Drive, Suite 200, Ov	Kate Spiess, PE **	75%	YES, Inwood has worked with S&ME.	NO
Traffic Engineering Intersection/S&PM Design	INWOOD	3000 Dovera Drive, Suite 200, Ov	Jessica Ballock, PE **	75%	YES, Inwood has worked with S&ME.	YES

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			

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)
Review of DRIs/Arterial Analysis	Protean	100 E Pine Street, Suite 600, Orlando, FL 32801	TODD DAVIS, PE **	55%		Yes
Arterial Analysis	Protean	201 W. Marion Ave., Suite 1201, Punta Gorda, FL 33950	LAURA ROSSI, PE **	40%		
Preliminary Engineering Plans/Streetlight Studies/Design	Protean	100 E Pine Street, Suite 600, Orlando, FL 32801	ALEXANDER HINKLE, PE **	45%	Yes	Yes
Traffic Signal Design/Streetlight Studies/Design	Protean	100 E Pine Street, Suite 600, Orlando, FL 32801	LEONARD BARDEN, PE **	60%		
Intersection Design	Protean	100 E Pine Street, Suite 600, Orlando, FL 32801	ELIZABETH WILSON, PE **	70%	Yes	Yes
Sidewalk Design	Protean	100 E Pine Street, Suite 600, Orlando, FL 32801	KAREN VAN DEN AVONT, PE **	45%	Yes	Yes

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge			

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)
2.1 Planning – Tasks a, b, c, d, e, f, and g 2.2 Traffic Engineering - Tasks a, b, c, d, e and f Other - Lighting Studies/Design and New Smart Technologies	WRA	3030 N. Rocky Point Drive, Suite 675 Tampa, FL 33607	Richard Butala	25%	Yes	Yes
2.1 Planning – Tasks a, b, d, e, and g 2.2 Traffic Engineering - Tasks a, b, c, d, e and f Other: Lighting Studies/Design New Smart Technologies	WRA	3030 N. Rocky Point Drive, Suite 6	Randy Spradling, PE, PTOE	25%	Yes	Yes

2.1 Planning – Tasks a, b, c, d, and g 2.2 Traffic Engineering - Tasks a, b, c, d, e and f Other: Lighting Studies/Design New Smart Technologies	WRA	3030 N. Rocky Point Drive, Suite 6	Corey Bevis, PE	10%	Yes	No
2.1 Planning – Tasks a, b, c, d, e, f, and g Other: New Smart Technologies	WRA	3030 N. Rocky Point Drive, Suite 6	Roberto Miguel, AICP	10%	Yes	No
2.1 Planning – Tasks a, b, d, e, f, and g Other: New Smart Technologies	WRA	3030 N. Rocky Point Drive, Suite 6	Tim Preece, AICP, CTP	10%	Yes	No
2.1 Planning – Tasks e, f and g Other: New Smart Technologies	WRA	3030 N. Rocky Point Drive, Suite 6	James Ritchey	10%	Yes	No

George M. Kramer, AICP, LEED AP
Principal in Charge

Kelly Farabee, PE, PTOE
Project Manager

PLANNING

Chris Dougherty, AICP
Senior Planner

Patricia A. Tyjeski, AICP
Senior Planner

Terry A. McKloski, AICP
Senior Planner

Roberto Miquel, AICP
Transportation Modeler

Tim Preece, AICP, CTP
Transportation, Transit Planner

Richard Butala
Transportation Planner

James Ritchey
Transit Planner

David Dangel, PE
Transportation Engineer, PD&E Director

Amanda Ashby
Transportation Planner

Nick Altizer
Traffic Engineer, PD&E

TRAFFIC ENGINEERING

Angelo Rao, PE
Traffic Operations Engineer

Todd Davis, PE
Traffic Operations Engineer
Transportation Planning

Laura Rossi, PE
Roadway Engineer

Alexander Hinkle, PE
Traffic Operations Engineer
Transportation Safety Engineer

Leonard Barden, PE
Traffic Engineer

Elizabeth Wilson, PE
Intersection Design

Karen Van Den Avont, PE
Roadway Engineer

Ernest Spradling, PE, PTOE
Lighting Engineer

Corey Bevis, PE
Traffic Engineer, ITS

Santiago Franceschini
Traffic Counts

Esteban G. Morales
Traffic Counts

Co-Co Wu, PE
QA/QC Officer

Kate Spiess, PE
Traffic Engineering
Intersection, Signal Design

Jessica Ballock, PE
Traffic Engineering
Intersection, S&PM Design

Cameron DeWitt, PE
Roadway Engineer

Christy Lofye, PE, RSP1
Traffic Engineering

Morgan Morris, EI
Traffic Engineering, PD&E

SUBJECT MATTER EXPERTS

Sarah L. Matin, PE
Utility Coordination

Jeremy L. Fireline, PE, PMP
Engineering, Cost Estimating

Jason Houck, PWS, GISP
Environmental Scientist, GIS Analyst

Ben Shepherd, PWS
Senior Ecologist

TEAM:

S&ME

Accurate Traffic Counts

INWOOD Consulting Engineers

Protean Design Group

Whitman, Requardt and Associates (WRA)

LOCATION

- Orlando, FL

EDUCATION

- MA Urban and Regional Planning, University of Florida, 2007
- BA Political Science, University of Florida, 1999

YEARS OF EXPERIENCE

- Joined S&ME in 2014 with 14 years of experience

REGISTRATIONS

- Certified Planner #020533, 2006

CERTIFICATIONS

- LEED Accredited Professional

GEORGE M. KRAMER, AICP, LEED AP

PRINCIPAL IN CHARGE

George has over 20 years of experience specializing in strategic planning and entitlement efforts for private and public sector clients. He provides a keen understanding of the full range of issues: technical, administrative and political inherent in all complex projects. His experience includes Strategic Master Planning, Comprehensive Planning, Public Involvement and Facilitation, Land Use Entitlements, Redevelopment Planning and Complete Streets/Multi-Modal Transportation. Implementation is at the forefront of George's approach to planning. He has helped affect positive change by leading successful entitlement efforts for large-scale master planned communities as well as representing local governments through the negotiation of urban-infill development agreements.

Key Projects and Assignments

FDOT D1 – District Wide Corridor Plans/Complete Streets Analyses Bartow, Florida

Principal-in-Charge for this interdisciplinary contract. The purpose of this contract is to provide the Florida Department of Transportation (FDOT) with professional services in support of Intermodal Systems Development and Systems Planning to include the preparation of Complete Street Action Plans for arterial or collector road corridors.

St. Augustine Mobility Planning and Complete King Street Master Plan St. Augustine, Florida | 2016 - 2020

Principal Planner for a comprehensive citywide mobility plan for the oldest municipality in the United States, which serves as a destination to more than 5M annual visitors. The project includes extensive community engagement and facilitation of a 16-member Mobility Advisory Task Force. The final plan included five sections addressing Street Network, Land Use/Urban Design, Parking, Transportation Demand Management and a Capital Improvements Program.

City of Kissimmee Downtown CRA Plan Update and Operational Timeframe Extension, Kissimmee, Florida | 2020

Served as Principal-in-Charge for the update of the City of Kissimmee's Downtown Community Redevelopment Plan. Identified key redevelopment strategies and programming for the Plan update. S&ME worked with the City of Kissimmee's to update its Community Redevelopment Plan to embrace the City's burgeoning Medical Arts District, redeveloping waterfront, and arts and cultural resources as the City transitions from its historic agri-business heritage. S&ME's update of the CRA Plan included place-based economic development strategies to build upon the City's redevelopment achievements, position the Downtown Community Redevelopment area for continued redevelopment and private sector investment while protecting the City's historic downtown neighborhoods. The implementation timeframe for the updated CRA Plan included an extension of the operational timeframe of the CRA to 2052.

Pinellas Park Community Redevelopment Plan, Pinellas Park, FL | 2018-2019

Served as Principal-in-Charge for the update to the City of Pinellas Park's Community Redevelopment Plan and effort to extend the CRA's operational timeframe. The foundational elements of the Community Redevelopment Plan include the designation of a new 55-acre city center, renovation of its 29-acre community park and a complete street design for 78th Avenue that connects the two activity nodes. The master planning effort was designed to incentivize private sector investment around the area, consolidate facilities, create a walkable community and enhance the community's amenities to its residents. The Plan includes a detailed implementation strategy that addresses the redevelopment of opportunity sites and installation of capital improvements. It is currently advancing through the public hearing process with adoption anticipated by the end of 2019.

LOCATION

- Tampa, Florida

EDUCATION

- Clemson University, BS Civil Engineering, BA Architecture (2007)
- University of California Berkeley, MS Transportation Engineering (2009)

YEARS OF EXPERIENCE

- Joined S&ME in 2021 with about 9 years of experience in the private sector

REGISTRATIONS

- PE: Georgia 40586, South Carolina 34313, North Carolina 52290, Florida 91816, Tennessee 125287
- Professional Traffic Operations Engineer, 4287

PROFESSIONAL MEMBERSHIPS

- American Society of Civil Engineers

KELLY FARABEE, PE, PTOE

COMPLETE STREETS PROJECT MANAGER

Kelly is a seasoned traffic engineer with experience on a variety of projects for both public and private clients across the southeast. Her past work includes traffic impact studies, corridor analysis, safety analysis, intersection operations analysis, signal warrant analysis, evaluation of the need for pedestrian signals, as well as GDOT Intersection Control Evaluation (ICE) studies.

Relevant Project Experience

GDOT Operational Improvements Contract | 2020–2021

Deputy Project Manager for Region 1, which included the eastern half of the state of Georgia. The project applied a data-driven approach to mitigating bottlenecks throughout the state. Benefit-cost ratios were used as the primary metric for identifying projects that could be delivered. Typical tasks included:

- Presenting analysis to GDOT Project Managers at bi-weekly meetings
- Screening bottleneck locations to identify potential projects
- Collaborating with the project team to identify potential mitigation measures
- Traffic operational analysis, cost estimation, calculation of benefit-cost ratios

City of Tucker, GA Lavista Road at Fellowship Rd & Chamblee Tucker Road Improvements | 2020–2021

Project Manager responsible for study of potential roadway improvements for an area of heavy congestion near downtown Tucker, Georgia. Project involved:

- Early coordination with local stakeholders
- Evaluation of operations of over 20 mitigation strategies
- Crash analysis and development of crash diagrams
- Incorporating nearby road diet into study
- Balancing congestion relief for vehicles with pedestrian/bike safety
- Developing evaluation methodology to determine preferred alternatives
- Developing concept layouts for preferred alternatives
- Traffic operational analysis, cost estimation, calculation of benefit-cost ratios

US 78 at Mountain Industrial Boulevard Interchange, Tucker, GA

Traffic Specialist responsible for performing safety analysis for intersections within a 0.65-mile long study area. The project involved evaluating crash data for a 5-year period for 8 intersections, including an interchange with a limited access facility. Crash diagrams were created to illustrate crash patterns within the study area. Kelly collaborated with roadway design engineers to develop proposed improvements at the interchange to mitigate safety concerns identified through the crash analysis. The Tucker Summit CID received funding to implement proposed signal phasing changes at the interchange. Operational analysis was performed as part of the study to determine any impacts that the proposed changes would have on operations. In conjunction with the safety improvements, operational improvements, including lane additions on each ramp, were recommended.

KELLY FARABEE, PE, PTOE

COMPLETE STREETS PROJECT MANAGER

SR 204(Abercorn Street) at Mohawk Street/Dutchtown Road, Savannah, Georgia, Wolverton | 2017

Traffic Specialist responsible for analyzing safety and traffic operations at the intersection of SR 204 and Mohawk Street/Dutchtown Road. The existing intersection is unsignalized and is comprised of multiple access points that are often confusing for drivers to navigate. Because the intersection serves as a primary access point to the St. Joseph's Hospital Emergency Department, emergency vehicle needs were considered as part of the project. A GDOT Intersection Control Evaluation (ICE) was performed and a Restricted Crossing U-Turn (RCUT) was identified as the preferred alternative for the intersection. The project required extra coordination with the hospital not only to ensure their needs were addressed and to help them understand the benefits of an RCUT design over a traditional stop-and-go traffic signal. The study has been incorporated into a GDOT Safety Project to be completed along SR 204.

GDOT District 3 & District 6 Safety On-Call Contract, Wolverton | 2017

Traffic Specialist responsible for evaluating intersections identified as crash hot spots. The locations studied were in primarily rural areas. Tasks included:

- Analyzing crash data and identifying crash patterns
- Evaluating site characteristics
- Developing mitigation strategies such as signal phasing changes, turn lane installations, sight distance improvements, and intersection control changes such as converting to a roundabout, RCUT, or other appropriate design

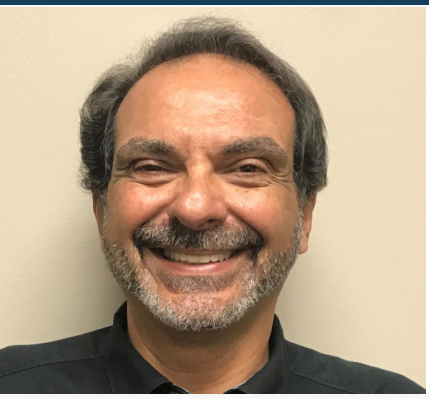
Savannah Arena Traffic Impact Study | 2020

Project Manager for a Traffic Impact Study evaluating the impacts associated with a 10,000-seat arena proposed in the Canal District of Historic Savannah, Georgia. The project included 15 study intersections and evaluated the evening peak hour traffic impacts associated with traffic arriving to an event and departing from an event. Ridesharing was included as a mode of travel for people attending events. As part of the study, proposed improvements were ranked to provide the City with recommendations for how and when to implement improvements.

Groves High School Masterplan Traffic Study, Wolverton | 2018

Project Manager responsible for completing the traffic study for a proposed K-8 and high school on SR 21 in Garden City, Georgia. The project involved coordination with the Savannah Chatham County Public School System, the City of Garden City, and Georgia DOT. Work included:

- A traffic signal warrant analysis for the main entrance to the school
- GDOT Intersection Control Evaluation (ICE)
- A spot speed study to evaluate and adjust the limits of the existing school speed zone on SR 21



LOCATION

- Tampa, Florida

EDUCATION

- University of Toronto, Civil Engineering (1980)

YEARS OF EXPERIENCE

- Joined S&ME in 2021 with over 40 years of combined public and private sector transportation engineering experience

REGISTRATIONS

- Florida 58147,
- Tennessee 125379,
- Virginia 0402050347,
- Michigan 6201049058,
- Ontario 38144507 (Ret.)

PUBLISHED ARTICLES

- HAWK Signals Florida Bicycle Association Messenger Magazine Summer 2020
- Lakeland TMC, Intelligent Transport, London, England Volume 2 2020
- Lakeland Transportation Bold, Interview, Intelligent Transport 2020
- Leading Pedestrian Intervals APWA Reporter, August 2017

PROFESSIONAL MEMBERSHIPS

- Institute of Transportation Engineers (ITE)

ANGELO RAO, PE

TRAFFIC OPERATIONS ENGINEER

Angelo has a passion for reinventing transportation infrastructure and embodying the notion of S.A.M. (Safety, Accessibility, and Mobility). Developing innovative traffic operational systems with a view of reducing fatality and incapacitating crashes towards meeting a “Vision Zero” environment, while enhancing operational mobility.

I-4 / SR 33 (Exit 38) FDOT D-1 Temporary Traffic Signal Installation City of Lakeland, FL | 2021

Original Project Manager for the construction of the Temporary Traffic Signals (two off-ramp locations). Utilizing FDOT D-1’s design, provided the planning, project management, component (strain poles/cabinets/controllers/fiber communication) interaction, as well as MOT applications.

- » Multi-departmental interaction
- » Compliance with D-1 planning, construction, MOT, and traffic signal operations requirements

City of Lakeland Vision Zero and Near-Miss Program, City of Lakeland, FL | 2017-2021

Assisted the City of Lakeland’s Planning Department in the development and deployment of projects aimed at reducing fatal and incapacitating crashes to zero. This lofty goal is feasible and indeed the fatality and incapacitating crash rates have been steadily falling over the past four years.

City of Lakeland Complete Streets Program, Lakeland, FL | 2015-2021

As an employee of the City of Lakeland, Angelo managed the lane repurposing of Massachusetts Avenue, the New York Avenue Cycle Track, the Lake Miriam Drive “Diagonal Crosswalk” system, the Interlachen Parkway Bicycle Boulevard, the proposed “Five Points” roundabout, and the first intersection “Mural painting” project.

Lakeland Area Alternatives Analysis – US 98 BRT Feasibility Study, City of Lakeland, FL | 2020

Assisted the City of Lakeland’s Planning Department in the Lakeland Area Alternatives Analysis (LAAA) study. Working with FDOT District One and other stakeholders, in defining a program of context-based projects for all transportation users.

Intersection Collision Avoidance Safety Program (iCASP) FDOT D-1 City of Lakeland, FL | 2020

Project developer for the Lakeland deployment provides a system that predicts a red-light runner in advance and then extends the all-red phase (delays the perpendicular green) accordingly.

- » Near-miss reduction and crash avoidance system
- » Working in parallel with the Red-Light Running violation camera system
- » Approval from FDOT Central Office to Experiment
- » All locations on the FDOT State system

ANGELO RAO, PE
TRAFFIC OPERATIONS ENGINEER

SR 37 (S. Florida Avenue) FDOT D-1 Lane Repurposing Project
City of Lakeland, FL | 2020

Project manager for the traffic analysis component. Traffic data analysis includes traffic speed and volume, Traffic Movement Counts, travel time utilizing "Bluetooth" sensor equipment, and crash data analysis.

- Significant data analysis in conjunction with FDOT D-1 forces
- Input to a comprehensive public outreach program.

SR 37 (S. Florida Avenue) FDOT D-1 Train Detour System
City of Lakeland, FL | 2019

City Project Manager for the system. Detour changeable message boards alert motorists when a train is approaching across S. Florida Avenue in the downtown.

US 92 FDOT D-1 Safety Project / "HAWK" Installations
City of Lakeland, FL | 2019

Partnering with District Traffic Operations staff on a corridor safety study on US 92 (Memorial Boulevard), particularly to enhance the safety of pedestrians and bicyclists while minimizing capacity losses.

- A total of four HAWK signals were located and installed on the State system.
- A grand total of 13 safety elements were constructed to maximize safety while balancing traffic operations.

Upgrading Lakeland's Traffic Management Center (TMC)
City of Lakeland, FL | 2017

The City's TMC was upgraded with new network servers, 4 workstations, 14 screens (12 TMC, 1 Signal shop, and 1 TMC Supervisor's office), and installed the latest Central Software (Centracs 2.0).

- Total upgrade cost including 5-year maintenance agreement $95,000
- 174 traffic control signals and 98 CCTV cameras, that are 100% inter-connected by redundant based (ring typology) fiber.

Installation of Lead Pedestrian Interval (LPI) Systems in the CBD
City of Lakeland, FL | 2015

Expansion of the City's LPI five-seconds program in the CBD with over 30 intersections. These modifications were installed remotely via the Centracs and Fiber backbone systems. At least four LPI intersection enhancements were installed on the FDOT D-1 State system.

- Pedestrian / bicycle crashes reduced by about 50%
- Vehicle-to-vehicle injury crashes reduced by over 30%

CHRISTOPHER R. DOUGHERTY, AICP

SENIOR PLANNER/GIS SPECIALIST

LOCATION

- Orlando, FL

EDUCATION

- MA Urban and Regional Planning, University of Florida, 2006
- BA Criminology, University of Florida, 2001

YEARS OF EXPERIENCE

- Joined S&ME in 2007 with 2 years of experience

REGISTRATIONS

- Certified Planner #026356, 2013

CERTIFICATIONS

- Trimble GPS
- NASSCO's Pipeline Assessment Certification Program (PACP)

Chris has over 16 years of experience providing public and private sector planning services. Areas of expertise include transportation, planning, land development codes, form-based codes, mobility planning, sector planning, community visioning, meeting facilitation, growth management and development review. He has a strong background in GIS and manages the GIS operations in the Orlando office.

City of Kissimmee Downtown CRA Plan Update and Operational Timeframe Extension, Kissimmee, Florida | 2020

Planner for the update of the City of Kissimmee's Downtown Community Redevelopment Plan. Identified key redevelopment strategies and programming for the Plan update. Specific responsibilities included developing a housing strategy for the plan, assisting with the creation of the plan, updating GIS data, and assisting with the facilitation of a virtual public workshop in Zoom.

Eloise CRA Plan Update, Polk County, Florida | 7/2017-2018

As the Project Manager for the Eloise CRA Plan update, was responsible for coordinating and scheduling public engagement opportunities; establishing new priorities and improvements for the CRA; and evaluating existing programs. Other duties included developing a survey; coordinating with County staff; reviewing existing characteristics and data of the community; preparing maps and reviewing GIS data; drafting the updated plan; and presenting the proposed concepts of the updated plan.

Land Development Code Update, Sumter County, Florida | 2014-2015

Project Planner for the update of Sumter County's Land Development Code. After decades of incremental modifications, the Code needed reorganization and updating to current standards and practices. The project included a comprehensive evaluation and assessment of the adopted Code. Following the evaluation, the Code was amended according to a matrix of findings. Specific responsibilities included evaluating the adopted Code, developing the assessment matrix and drafting the Code amendments according to the matrix.

Wildwood Comprehensive Plan, Wildwood, Florida

Senior Planner for the update of the City's comprehensive plan to address changes in local conditions since the last update and establish a new vision for future growth. Social Pinpoint, a web-based community engagement tool, was utilized to facilitate public input through a survey, an idea wall, and a virtual meeting portal. Responsibilities included assisting with the GIS analysis and mapping, transportation analysis, and advising on statute requirements.

Sumter County Comprehensive Plan, Sumter County, Florida

Project Manager for the update of the County's entire comprehensive plan. As one of the fastest growing counties in the state, Sumter nearly tripled its population over the last 20 years. This growth is due to the development of, arguably, the most successful active adult community in the United States, The Villages. Having only incrementally amended their plan throughout the years, the plan was overdue for a complete overhaul to ensure the future growth of the county was adequately planned for. Social Pinpoint, a web-based community engagement tool, was utilized to facilitate public input through a survey, an idea wall, and a virtual meeting portal. Responsibilities included managing the project, reviewing and preparing data and analysis, facilitating three live and simulcasted in Zoom public workshops, and coordinating with local agencies. Phase 2 includes updating the Goals, Objectives and Policies, which is anticipated to be completed in the third quarter of 2021.

CHRISTOPHER R. DOUGHERTY, AICP

SENIOR PLANNER/GIS SPECIALIST

Wellness Way Sector Plan, Lake County, Florida | 2013

Project Planner for the Wellness Way Sector Plan located on 16,000 acres in South Lake County. It was the first planning project to be undertaken under the Florida growth management law that promoted planning for large areas of land in a coordinated manner for long-term buildout. Although the area is currently rural in character, the County and key stakeholders in the area envision this area to be a major employment center for Central Florida in the future, anchored by compact, dense urban growth centers and surrounded by rural, rolling hills and lakes. Wellness Way received its name from the desire to attract health, fitness, biomedical research and related industries to the area, capitalizing on the existing triathlon and health/fitness industries located in Lake County today.

Volusia Growth Management Commission (VGMC) Planner, Volusia County, Florida | 2014-Present

Project Manager responsible for conducting comprehensive plan amendment reviews on a continuing basis for all jurisdictions within Volusia County to ensure consistency with the Commission's established criteria. The VGMC is a unique intergovernmental coordination clearinghouse for all comprehensive plan amendments within Volusia County. Specific responsibilities include reviewing amendments (large and small) for consistency with six criteria, coordinating with each jurisdictions' planners, drafting consistency certifications and achieving consensus among adjacent jurisdictions.

Mobility Plan, Melbourne, Florida | 2010-2011

Prepared a mobility plan to establish five Transportation Concurrency Exception Areas (TCEA) within the City. The mobility plan identified strategies, standards, improvements and the necessary amendments for the Comprehensive Plan relating to establishing mobility districts. In addition to managing the completion of the mobility study, specifically responsible for preparing GIS baseline data layers, GIS map series, project implementation plan, Transportation Element policy amendments and presentations for the Planning and Zoning Board and City Council hearings. Presented the proposed plan to Planning and Zoning Board and coordinated with Space Coast Area Transit, Space Coast TPO, Florida Department of Transportation and multiple City departments.

PATRICIA A. TYJESKI, AICP

SENIOR PLANNER

Pat has over 30 years of experience with long range comprehensive planning, land development regulations, zoning, and site plan review. She possesses training in design and specializes in areas of urban design and historic preservation. Over the course of her career, Pat has worked with over 30 jurisdictions on numerous comprehensive planning projects. She continues to incorporate new and innovative ideas into her practice and keeps updated with the latest changes to growth management legislation.

LOCATION

- Orlando, FL

EDUCATION

- Master of Regional Planning, Cornell University, Ithaca, New York, 1988
- Bachelor of Architecture, Universidad Javeriana, Bogotá, Colombia, 1985

YEARS OF EXPERIENCE

- Joined S&ME in 2000 with 11 years of experience

REGISTRATIONS

- Certified Planner #069120, 1992

PROFESSIONAL MEMBERSHIPS

- American Planning Association (APA)
- American Institute of Certified Planners (AICP)
- Florida Planning and Zoning Association (FPZA)

Wildwood Comprehensive Plan, Wildwood, Florida

Project Manager for the update of the City's comprehensive plan to address changes in local conditions since the last update and establish a new vision for future growth. Social Pinpoint, a web-based community engagement tool, was utilized to facilitate public input through a survey, an idea wall, and a virtual meeting portal. Responsibilities included managing the project, overseeing the preparation of eight plan elements, facilitating public workshops, and coordinating with other agencies.

Sumter County Comprehensive Plan , Sumter County, Florida

Principal-in-Charge for the update of the County's comprehensive plan. As one of the fastest growing counties in the state, Sumter nearly tripled its population over the last 20 years. Social Pinpoint, a web-based community engagement tool, was utilized to facilitate public input through a survey, an idea wall, and a virtual meeting portal. Responsibilities included ensuring adequate resources were in place for the successful completion of the project.

Manatee County Comprehensive Plan and LDC Updates, Manatee County, Florida

Project Manager for a series of Comprehensive Plan and Land Development Code amendments intended to clean up, clarify, and implement certain policies included in the Plan in 1989 as placeholders, until detailed regulations were adopted. The topics addressed included improving the County's Commercial Locational Criteria to encourage growth in nodes where utilities and services are available; encouraging the provision of clustering and mixed-use developments by right; encouraging the provision of affordable housing particularly in close proximity to transit stops, employment and services; clarifying the role and purpose of the various coastal planning areas previously adopted (Coastal Evacuation Area (CEA), Coastal Planning Area (CPA) and Coastal High Hazard Area (CHHA)); minimizing reliance upon Planned Development zoning; and improving the development review process.

Comprehensive Plan Reviews, Volusia County Growth Management Commission, Florida | 2014-Present

Principal Planner overseeing the review of large and small comprehensive plan amendments submitted to the Volusia County Growth Management Commission (VGMC) by all jurisdictions within Volusia County. The VGMC is a unique intergovernmental coordination clearinghouse for all comprehensive plan amendments within Volusia County. The reviews are intended to ensure the amendments will not result in negative impacts on the surrounding jurisdictions.

Comprehensive Plan Update, Clermont, Florida | 2008

Participated in the update to the City's Comprehensive Plan. The update included the development of population projections and a total rewrite of all required elements, including a review of the City's Public Schools Facilities Element. Prepared and facilitated a public visioning workshop to identify issues for the comprehensive plan update.

PATRICIA A. TYJESKI, AICP

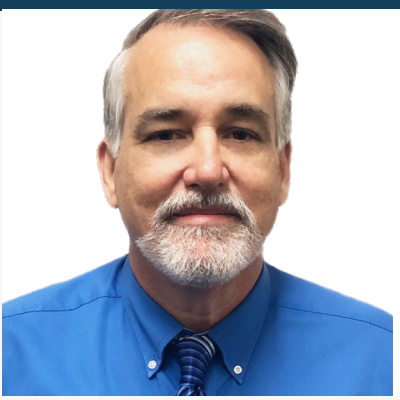
SENIOR PLANNER

Land Development Code Update and Form-Based Code, Gainesville, Florida | 2012

Project Manager for the update of the City's Land Development Code (LDC). This update incorporated form-based code regulations for the downtown and surrounding areas. The creation of the form-based code was completed with strict adherence to the community vision centered on the Comprehensive Plan update, community-driven priorities and existing neighborhood characteristics. The form-based code and other LDC revisions established a framework for the City to enable better development patterns; improve the quality of the built environment; foster pedestrian-friendly development and redevelopment; and give citizens, developers, builders and property owners predictable standards by which to design and build.

Land Development Code Update and Form-Based Code, Kissimmee, Florida | 2017

Project Manager for the update of the City's Land Development Code. This update incorporated form-based code regulations for the downtown area. The form-based code and other LDC revisions established a framework for the City to facilitate infill and redevelopment; implement past studies and plans for the downtown and surrounding areas; enable better and safer development patterns, thereby improving the quality of the built environment; and give citizens, developers, builders and property owners predictable standards. Facilitated a public workshop and presented the project at public hearings.



TERRY A. MCKLOSKI, AICP

SENIOR TRANSPORTATION PLANNER

Terry has over 22 years of professional experience in transportation planning and urban design with extensive knowledge of several travel demand modeling software platforms and traffic simulation packages. His project experience includes complete streets, corridor planning, large scale land use scenario planning, traffic impact analyses, corridor and interchange improvement studies, traffic forecasting, travel demand modeling, freight movement, and roadway network simulation. Terry's unique combination of planning knowledge and technical proficiencies make him an effective advocate for positive change through livable transportation systems.

LOCATION

- Tampa, Florida

EDUCATION

- Master of Urban and Regional Planning, Florida State University, 2006
- Bachelor of Urban and Regional Planning, Florida Atlantic University, 2002

YEARS OF EXPERIENCE

- Joined S&ME in 2019 with 20 years of experience

REGISTRATIONS

- Certified Planner #022275, 2006

PROFESSIONAL MEMBERSHIPS

- American Planning Association (APA), Florida Chapter
- Florida Planning and Zoning Association (FPZA)
- Urban Land Institute (ULI)

Himes Avenue Resurfacing and Design, Tampa, Florida | D: 2020; C: 2021

S&ME is provided civil engineering services for the resurfacing and miscellaneous design of Himes Avenue, from W. Columbus Drive to W. Hillsborough Avenue. The project is adjacent to Raymond James Stadium and is the main north/south access to the stadium. The final design will seek to advance a more complete street for the corridor that includes pavement resurfacing, new bike lanes, several high definition pedestrian crossings with rectangular rapid flashing beacons, new bus bay pull outs and median adjustments. As the lead roadway designer, planner and pedestrian and bicycle facilities designer, assisting the team in selecting locations and designing facilities for pedestrian crossings and bike lanes.

North Boulevard Concept Design, Tampa, Florida | 2019

S&ME provided concept plans that incorporated complete street principles for the refurbishing of North Boulevard from Bush Boulevard to Country Club Drive. The concepts included a dedicated multi-use path or bike lanes, several high definition pedestrian crossings with rectangular rapid flashing beacons, and high definition school zones enhancements. As the lead roadway designer, planner and pedestrian and bicycle facilities designer.

Curry Ford Vision Plan, Orlando, Florida | 2019

Lead for transportation planning for a vision plan for the Curry Ford Road corridor and surrounding neighborhoods. The Curry Ford Road area has become a popular destination for new small businesses, who have collectively worked together to become a designated Market Street. In addition to this commercial growth and redevelopment, the area is attracting more residential development as more people want to live in this neighborhood with its proximity to unique retail options and downtown Orlando. The Vision Plan will ensure the foundation of this healthy, vibrant area remains a strong neighborhood and great place to live, and provides for long-term stability for residents, visitors, and businesses. The S&ME Team evaluated the growth potential and probability by land use type expected to strongly impact the Curry Ford existing transportation facilities. The resulting plan will include recommended changes to the transportation network; cross section design for all the major roads in the study area.

King Street Complete Street Master Plan, St. Augustine, Florida | 2019

Transportation planner working with a team to develop a Complete Street Master Plan for the King Street corridor. The corridor runs from west of Palmer Street to east of Avenida Menendez (A1A). This important corridor serves as a primary gateway into to the City and experiences high pedestrian use. Project engaged the St. Augustine community to develop consensus for a preferred conceptual re-design of King Street to be both context sensitive and provide viable multi-modal transportation options for the corridor. The S&ME team worked to develop a community vision and conceptual design, along with an implementation strategy, to enhance mobility for the King Street corridor.

TERRY A. MCKLOSKI, AICP
SENIOR TRANSPORTATION PLANNER

FDOT D1 – District Wide Corridor Plans/Complete Streets Analyses, Bartow, Florida

Transportation planner for this interdisciplinary contract. The purpose of this contract is to provide the Florida Department of Transportation (FDOT) with professional services in support of Intermodal Systems Development and Systems Planning to include the preparation of Complete Street Action Plans for arterial or collector road corridors.

Growth Management General Planning Contracts, Florida Department of Transportation – District 2

Project Manager for growth management contracts from 2006-2013. Tasks under these contracts included representing FDOT in negotiations with Development of Regional Impacts (DRIs) and Sector Plans, working with local governments to evaluate land use proposals, and assisting rural communities with planning expertise. Tasks included analysis and modeling of numerous DRIs, traffic impact assessment, traffic forecasting, and land use utilization analysis. Also including analysis of transportation improvements needed to support future land use proposals and final proportionate share calculations. Under these contracts Mr. McKloski's team also performed other duties and planning studies which included corridor studies, comprehensive plan review, EAR reviews, Capital Improvement Plans assistance and review, FDOT District work program assistance, inter-governmental coordination.

Modeling Support Services, Systems Planning, Florida Department of Transportation (FDOT) Central Office | 2016-2019

Project Manager for this FDOT general planning services contract. He was the sub-contractors PM and part of a team to support travel demand modeling for the state modeling division. Support services include modeling help-desk type functions, providing training, on-site staffing, and on-call technical expertise in all phases of travel demand modeling and simulation.

SARAH L. MATIN, PE

UTILITY COORDINATOR

Sarah Matin, PE, has 16 years of experience and a passion for fostering relationships to expand the skillset and client base of organizations. Prior to joining S&ME, she worked for consultants, roadway, and heavy civil contractors, in addition to revising and updating specifications with a variety of municipalities throughout the state. She also has extensive experience as a consultant in roadway design and utility coordination for RRR, design-bid-build, and large-scale design-build projects for FDOT.

LOCATION

- Orlando, FL

EDUCATION

- BS, Civil Engineering

YEARS OF EXPERIENCE

- Joined S&ME in 2021 with 16 years of experience

REGISTRATIONS

- PE, FL #70942

PROFESSIONAL MEMBERSHIPS

- Region 5 Governor, American Society of Civil Engineers
- Central Florida Chapter Professional Development Chair, WTS International
- American Concrete Pipe Association
- CREW Orlando
- Florida Engineering Society Member
- University of Central Florida College of Engineering Mentor
- ASTM Committee C13

SR 40 Reconstruction from CR 328 to SW 80th Avenue, FDOT District 5
Utility Coordinator for the final design of 4 miles of reconstruction of SR 40. This project involved the reconstruction of approximately four miles of a two-lane rural roadway to a four-lane rural divided facility. Responsible for utility coordination, utility plans, roadway design, and drainage design. Permitting and coordination with local Tribe officials for construction and final plans.

SR 415 from the St. Johns River Bridge to Reed Ellis Road, FDOT District 5
Utility Coordinator and project engineer for the reconstruction of 2.3 miles of roadway in Volusia County from a two lane rural section to a four lane rural divided facility, including new construction of a recreational trail and both a 2,231 foot bridge over the St. Johns River, a 121 foot relief bridge over the river's floodplain and a 121 foot trail bridge. Responsibilities included utility coordination, plans review, permit review, construction plans, and roadway design.

SR 15 (Hoffner Road) New Construction and Milling and Resurfacing, FDOT District 5
Project engineer and utility coordinator for State road 15 (Hoffner Road) a rural two-lane undivided roadway, the project extends from North of Lee Vista Blvd to Conway Road. The project called for the widening and reconstruction of SR 15 to an urban four lane divided roadway. Responsibilities include utility coordination storm sewer design and pond design.

SR 530 (US 192) Widening from the Orange County Line to East of Secret Lake Drive with Middlesex Construction, FDOT District 5
Utility Manager for the 1.81 miles of roadway reconstruction and widening, milling and resurfacing, culvert extension and sidewalk construction. Responsibilities include utility coordination, plans review, permit review, and development of specification package.

SR 200 Widening with Anderson Columbia Construction Industries, FDOT District 2
Utility Manager for the widening and reconstruction of this 17-mile Limited Access four-lane facility. Work included roadway drainage design, signing and pavement markings, and utility relocations. The project also included the design of seven bridge crossings (14 total bridge structures), 16 box culvert replacements, and 17 retention ponds. Responsibilities include utility coordination, plans review, permit review.

SR 400 (1-4) at SR 46 Interchange Improvements with Ranger Construction, FDOT District 5
Utility Manager for the 3.52 miles of roadway and bridge widening, milling and resurfacing and sidewalk construction within limited access right of way. Responsibilities included utility coordination, plans review, permit review.

SR 35 (Baseline Road) Widening from SR 464/CR 464 to SR 40 with C. W. Roberts Contracting, FDOT District 5
Utility Manager for the 5.7 miles of roadway widening from a two-lane rural configuration to a four-lane divided urban section with bike lanes and sidewalks, with an ultimate design for a six-lane section.

SARAH L. MATIN, PE
UTILITY COORDINATOR

SR 35 (US 301) and SR 44 Reconstruction, Design-Build with C. W. Roberts Contracting, FDOT District 5

Utility Manager for the reconstruction of the roadway between CR 213 and SR 35 to provide a bridge crossing over the railroad. New frontage roads were constructed to access adjacent properties.

SR 434 & Florida Central Parkway Intersection Improvements, FDOT District 5 & Seminole County

Project Engineer for the improvements to the intersection of SR 434 and Florida Central Parkway in Seminole County. The improvements to SR 434 included widening to the north of SR 434, adding a turn lane and bike lanes west of Florida Central Parkway, adding a turn lane and bike lanes east of Florida Central Parkway and milling and resurfacing. The improvements to Florida Central Parkway included adding a left turn lane and milling and resurfacing. Responsible for utility coordination, roadway design, flexible pavement design, and typical section package.

JEREMY L. FIRELINE, PE, PMP

ENGINEERING & COST ESTIMATING

LOCATION

- Tampa, Florida

EDUCATION

- Purdue University, BS Civil Engineering, Minor in Land Surveying (2001)
- North Carolina State University, MENE Environmental Engineering (2013)

YEARS OF EXPERIENCE

- Joined S&ME in 2021 with 20 years of experience

REGISTRATIONS

- Professional Engineer: FL #63987
- NC #037020
- Project Management Professional (PMP)

PROFESSIONAL MEMBERSHIPS

- Urban Land Institute

Jeremy is a seasoned civil/environmental engineer with experience on a variety of projects for both public and private clients. His work includes basin wide drainage studies and related stormwater infrastructure design and permitting, as well as design, permitting and construction oversight of large utility extensions and replacement projects in developed areas.

Esplanade at Wiregrass Ranch – Storm Water Modeling and Design, PA | 2019–2020

Engineer of Record for preparation of regional storm water management model to incorporate a master planned community into the Wiregrass Ranch overall basin model:

- Negotiated with SWFWMD review staff to establish existing conditions model, blending the results of three prior permitted models, and incorporating subsequent ERP approvals.
- Designed control structures to balance 25-year and 100-year flows to restore beneficial hydrology to internal wetlands and preserve 100-year floodplain elevations throughout the Wiregrass Ranch Basin.
- Coordinated with SWFWMD to incorporated wetlands into attenuation and treatment strategy.

City of Naples Beach Restoration and Water Quality Improvement | 2020–2021

Designed preliminary drainage, grading and stormwater collection system for 3,200 LF of elevated roadway to mitigate flooding and provide resiliency to anticipated sea level rise. Prepared preliminary storm water quality BMP treatment train model to predict Nitrogen, Phosphorous, and TSS removal capability.

Sorrento at Palmer Ranch | 2019–2021

Engineer of Record for preliminary budgeting, re-zoning, design and permitting of a 110 Acre residential development adjacent to Oscar Sherer State Park. The site was bisected by a major drainage basin boundary that required preparation of two basin wide drainage models and analysis of inter-basin transfers.

- Integrated LiDAR topographic data from Oscar Sherer State Park to refine nodes in Sarasota County's existing condition model.
- Designed a vegetated conveyance swale to maintain hydrology to a boundary wetland with documented listed species and provide for overflow with sheet flow conditions from the project site to the State Park.
- Designed vegetated wetland buffers and buffer grading restoration plans to restore wetland function lost to agricultural water management practices (ditching)

South Estes Drive Water Main Replacement, Chapel Hill, North Carolina | 2015–2016

Project Manager for replacement of 5,100 LF of watermain in a highly developed area, adjacent to a mall, various medical and restaurant businesses, apartments, and single-family homes. Served as the main point of contact for all stakeholders during six months of nighttime construction. Managed procurement process and prepared agenda for Board Meeting for project approval.

Rosemary Street Water Main Replacement, Chapel Hill, North Carolina | 2016–2017

Project Manager for replacement of 2,200 LF of watermain on UNC Chapel Hill Campus. Project required nighttime work and multiple roadway closures throughout the progression of the project. Served as the primary source of contact for all stakeholders, which included homeowners and businesses with whom water services disruptions were coordinated.

JEREMY L. FIRELINE, PE, PMP

ENGINEERING & COST ESTIMATING

Mason Farm Road WWTP Flood Vulnerability Study, Carrboro, North Carolina | 2013–2016

Project Manager for evaluation of flood vulnerability at the Mason Farm WWTP, which is surrounded on all sides by creeks leading into the head waters of Jordan Lake. The facility is surrounded by a system of earth berms and sheet pile walls that are integrated into various structures that work together to form a physical flood barrier. Project Manager for multiple projects identified to increase resiliency:

- Sheet Pile Wall rehabilitation/stabilization.
- Storm Water Pump Station – Axial Flow Pump replacement.
- Vegetation evaluation and removal from flood protection berm.
- Installation of in-line valves in storm water outfall pipes to prevent backwater intrusion during high streamflow events.

Accurate Traffic Counts, Inc.
1750 W Broadway St, Suite 114,
Oviedo, FL 32765
Telephone: (407) 678-0605
Fax: (407-678-3299
E-mail: info@accuratetraffic.com

QUALIFIED PERSONNEL:

Santiago Franceschini – President

EDUCATION:

Associated Degree in Civil Engineer (Technological Institute of Puerto Rico)
Computer Aided Drafting (AutoCAD) I, II, III
Microstation Intergraph course

WORK EXPERIENCE:

* Over thirty-three (33) years of experience in traffic data collection and surveys throughout the State of Florida.
* Accurate Traffic Counts, Inc. Owner - 1993-Present
  Traffic Data Collection Studies services to Engineering Companies, Counties and Department of Transportation
* Vanasse Hangen Brustlin, Inc. - Traffic Technician (3 years)
* Hensley Schmidt, Inc. - Traffic Technician (3 years)

Santiago Franceschini is the president of Accurate Traffic Counts, Inc. He is responsible for insuring that your firm receives the staffing and equipment capabilities needed to provide excellent service for this contract. In addition, he will coordinate the traffic data collection services by making staff assignments, scheduling, and providing quality review. Mr. Franceschini has over thirty-one (32) years of extensive experience in all aspects of traffic data collection. Coordinating and completing multiple statewide large and small projects efficiently and effectively as President of ATC for the last twenty seven (27) years. He will coordinate the data collection efforts with the Sr. Field Technician. As soon as Work Orders are received, he reviews them to assure clear understanding of request for service and develop an effective schedule to complete the work in a timely fashion. He is responsible for contacting Sr. Field Technician to assign and explain specific task(s). He will process data once received from the field. He will serve as **Project Manager** insuring that all studies are performed on-time with top quality product results and that are meeting the departments expectations and timeframes.

ORANGE COUNTY TRAFFIC COUNT PROGRAM

Santiago has managed and conducted over 2,000 ADT 72 Hour Bi-Directional Volume Counts during the last 11 years with GMB and then VHB. Santiago has managed and conducted over 2,000 – 72 Hours Volume Counts during the last 11 years with Luke Transportation, Inc.

TURNING MOVEMENT COUNTS

Santiago has managed and performed over 300 Turning Movement Counts for Orange County Public Works, Traffic Division.

ORANGE COUNTY PUBLIC SCHOOLS – Data Collection for Elementary Schools Traffic Studies

INWOOD TRAFFIC ENGINEERING LEAD

Christy Lofye, PE, RSP$_1$ has served as a project manager on a variety of projects with an emphasis on transportation safety. She is skilled in roadway safety audits, capacity studies, traffic safety studies, and pedestrian/bicycle studies and has overseen signalization and signing and pavement marking design projects. She also has extensive public involvement experience leading public meetings and stakeholder outreach. She has thorough knowledge of FDOT design criteria, was a Florida Greenbook technical advisor for Chapters 8 and 9 and serves on the board of Bike-Walk Central Florida.

CHRISTY LOFYE, PE, RSP$_1$

EDUCATION
Bachelor of Science, Civil Engineering, University of Central Florida, 1989

REGISTRATION
- Professional Engineer, FL, 1994, No. 48129
- Road Safety Professional, FL, 2020, No. 490

YEARS EXPERIENCE – 24

YEARS WITH FIRM – 2

RELEVANT EXPERIENCE

Texas-Americana Road Safety Small Area Study – Project Manager for this in-house Orange County study which won a 2015 National Road Safety Award in the Program Planning, Development, and Evaluation category. The project consisted of 6.7 miles of urban roadway studied in response to a cluster of intersections with high crash frequencies and a significant number of pedestrian crashes within a small area. The project included a comprehensive, multimodal road safety audit conducted during both daytime and night-time periods, public involvement and stakeholder outreach, safety education, and a bike-helmet fitting event. The study resulted in recommendations for maintenance improvements and short term, mid-range, and long-term CIP projects.

Oak Ridge Road Pedestrian/Bicycle Safety Study – Orange County Project Manager for this 3.0-mile corridor safety study from Millenia Boulevard to Orange Blossom Trail (US 441) conducted in 2017. The study included traffic data collection, crash data analysis, access management, traffic modeling and development of design traffic, traffic operations analysis, multi-modal LOS analysis, and development of pedestrian/bicycle safety countermeasures and strategies. Responsibilities included consultant management and oversight, review of project reports, and coordination with project stakeholders, elected officials, and public involvement.

Woodbury Road RCA Study, Orange County (Orange County) – Senior Project Engineer for this project which involved widening Woodbury Road from two to four lanes from Lake Underhill Road to State Road 50, a distance of approximately two miles. Three alternatives were analyzed, in addition to the No-Build alternative, resulting in a preferred two to four lane widening with wide sidewalks, a shared-use path, and intersection improvements.

Waterford Lakes Small Area Study – Orange County Project Manager responsible for this small area study which included data collection, traffic operational analyses, crash analyses, access management review, intersection improvement concepts, design and construction cost estimates and extensive public outreach. This year-long study concluded with a report that documented the study efforts and included a prioritized list of recommended improvements.

Orange County Top 100 Intersections Project – Served as Orange County Project Manager for this study to determine the County's Top 100 intersections by crash rate. The project included network screening using Signal four Analytics to identify the top intersections for pedestrian and total crash frequency, collection of intersection approach and turning movement counts, calculation of crash rates, and ranking and prioritization of intersections with the highest crash rates. The intersections were further stratified by intersection control type to identify countermeasures that could be applied systemically. Field intersection inventories were conducted, prompt lists completed, and intersection characteristics identified, including upgrades needed for ADA compliance, resulting in immediate action items and/or recommendations for more detailed study and analysis.

Oak Ridge Road Signal Warrant Studies and Signal Design – Conducted a signal warrant study to determine the need for a new signal at the intersection of Oak Ridge Road and Chancellor Drive serving Mid-Florida Tech. Then served as Orange County Project Manager for the signal design to construct a mast arm signal at Chancellor Drive and signal reconstruction of an aging span-wire signal at Oak Ridge Road and Texas Avenue. ADA upgrades and pedestrian features were included as part of the design of both signals which required creative solutions due to utility conflicts.

Orange County Walk-Ride-Thrive! Pedestrian Safety Initiative – Worked with Mayor Teresa Jacobs' staff to create this pedestrian safety program that focused on programs, policies, and projects to establish and maintain a coordinated, comprehensive, and consistent response to pedestrian and bicycle safety issues. It included branding, brochures, TIP cards, education, outreach, extensive staff training, Code updates, development of a Complete Streets policy and Pedestrian/Bicycle Safety Action Plan.

Americana Pedestrian Safety Improvements – Project to design pedestrian crosswalks with ADA curb ramps and pedestrian-actuated rectangular rapid flashing beacons at two mid-block locations between Texas Avenue and San Antonio Boulevard, and to install missing pedestrian signals on the west leg of the traffic signal at San Antonio Boulevard along this corridor with heavy pedestrian activity and high crash frequency. Ms. Lofye managed the project for Orange County including collecting pedestrian crossing data, conducting crosswalk warrant studies, and coordinating with LYNX to relocate bus stops with upgraded shelters and amenities to coincide with crosswalks. She then managed the consultant preparation of signal and signing and pavement marking design plans.

SR 417 Widening from Boggy Creek Road to Narcoossee Road, Orange County (Central Florida Expressway Authority) – Engineer of Record responsible for the Signing and Pavement Marking Plans. Services include the final design and preparation of construction drawings / specifications for the proposed S.R. 417 inside widening from Boggy Creek Road to Narcoossee Road (SR 15). Specifically, the project consists of widening to the inside (median) to accommodate an additional general use travel lane in each direction with full depth shoulders to facilitate hard shoulder running in the future.

Orange County School Zone Upgrades – Division Manager and QC Reviewer for this project (2018-2019) to develop concept plans to upgrade all 41 reduced speed school zones on multi-lane roadways to new FDOT Speed Zoning Manual, Chapter 15 standards. This required signing and pavement marking relocations and all roadside school zone beacons to be mounted overhead where feasible. Concept drawings then led to signing and pavement marking design plans for full compliance with FDOT standards.

Town Center Boulevard ADA Improvements – Orange County Project Manager for this project to install accessible pedestrian signals (APS), sidewalk and curb ramp improvements, pedestrian refuge, and other ADA improvements at the intersections of Town Center Boulevard with John Young Parkway, Town Loop Boulevard, and Hunter's Creek Boulevard. The project further reduced turning radii at the John Young Parkway intersection, slowing speeds and shortening pedestrian crossing distances.

Dean Road RCA – Orange County Traffic Lead for this in-house roadway conceptual analysis study for the two- to four-lane widening of Dean Road from University Boulevard to the Seminole County Line. Responsibilities included access management, FSUTMS model adjustments, traffic forecasting and development of design traffic, traffic operational analysis and level of service, and intersection geometry recommendations.

Universal Boulevard Pedestrian Safety Action Plan – Division Manager and QC Reviewer for this project (2018-2019) to study existing conditions and develop concept plans to improve safety for pedestrians along Universal Boulevard from SR 538 to Sand Lake Road. The project included existing conditions analysis, identification of operational and safety issues, and potential improvement and modification concepts. Of specific concern were high travel speeds, a wide roadway, and safety for UCF/Rosen College of Hospitality Management students crossing Universal Boulevard. Stakeholder outreach and presentations included the Universal Boulevard Property Owners' Association, the I-Drive Chamber Pedestrian Safety Committee, and the I-Drive CRA Board for approval of project recommendations.

Orange County Concurrency Review Committee / Road Agreements Committee – Served as a voting member of Orange County's Concurrency Review Committee (CRC) (2007-2009) and Road Agreements Committee (2017-2019). In these roles Ms. Lofye reviewed and negotiated agreements for public-private partnership projects involving transportation impact fee credits, including the Road Network Agreements for Horizon West Villages F, H, and I. Concurrency studies included development impacts within a 2-mile radius, trip generation, trip distribution, traffic assignment, significance analysis, traffic impact analysis, determination of available capacity and deficient segments, and mitigation for project impacts including proportionate share calculations.

Orange County Impact Fee Studies/ Impact Fee Committee – Served as a voting member of Orange County's Impact Fee Committee (2007 – 2019). Responsibilities included reviewing proposed alternative impact fee studies, agreements, and hearing impact fee appeals of staff determination. Managed many independent alternative transportation impact fee monitoring studies involving coordination with property owners, traffic count data collection to determine trip generation; origin and destination surveys to develop trip length, the percentage of new trips, and the limited access discount factor; and determining the project's traffic impact to the roadway system by calculating the vehicle miles traveled and the resulting impact fee rate.

INWOOD PD&E LEAD

David Dangel, PE, has served as project manager on a variety of transportation projects since 1988. As Director of PD&E and Ecological Services, Mr. Dangel's key area of expertise is with project development and environment (PD&E) and preliminary engineering studies. His responsibilities include project management, scheduling, public involvement activities, engineering and alternatives analysis, report writing, and the coordination of subconsultants. Additionally, Mr. Dangel's experience includes construction engineering and inspection (CEI), traffic and transportation engineering, and National Environmental Policy Act (NEPA) documentation.

DAVID DANGEL, PE

EDUCATION
Bachelor of Science, Civil Engineering, University of Central, Florida, 1988

REGISTRATION
Professional Engineer FL, 1993, No. 46580

YEARS EXPERIENCE – 33

YEARS WITH FIRM – 25

RELEVANT EXPERIENCE

Waterford Lakes Small Area Study (Orange County) – Project Manager responsible for all aspects of a study to evaluate congestion and safety related issues. The Waterford Lakes area study included data collection, a traffic study, crash analyses, access management review, intersection improvement designs, cost analyses and extensive public outreach. This year-long study concluded with a report that documented the study efforts and included a prioritized list of recommended improvements.

Woodbury Road Roadway Conceptual Analysis (Orange County) – Project Manager and Principal-in-Charge for the study to consider widening Woodbury Road from two lanes to a four-lane divided urban roadway from Lake Underhill Road to SR 50 in east Orange County. The proposed improvements include the addition of pedestrian and bicycle amenities, widening the existing bridge over SR 408, and adding turn lanes at major intersections.

Continuing Services Contract for PD&E Studies, Districtwide (FDOT District Five) – Project Manager responsible for supporting the environmental management staff. Project tasks included preparing Purpose and Need Statements for ETDM projects, identifying planning consistency issues on projects, document reviews, local government and agency coordination for trail projects, and corridor planning studies. Task work orders included services for miscellaneous PLEMO, CR 514 at I-75 Interchange Project Information Package, Titusville to Edgewater Bike Loop MOA, SCT and Titusville-Edgewater Loop Trail Agency Coordination and Alternatives Development, and Silver River Bridges Minor Categorical Exclusion (MiCE) SOS.

Continuing Services for PD&E Studies (Florida's Turnpike Enterprise) – Project Manager and Principal-in-Charge responsible for supporting the environmental management staff of Florida's Turnpike Enterprise. Project tasks include conducting ETDM screenings for up- coming PD&E Studies, preparation of a State Environmental Impact Report for a new interchange on the Polk Parkway, document reviews, corridor feasibility studies and species-specific surveys.

Edgewater Drive Roadway Conceptual Analysis (Orange County) – Assistant Project Manager responsible for coordinating subconsultant activities, public involvement activities, roadway improvement alternatives, and report writing. This study involved preliminary alternative alignments for the widening of a two-lane rural road expansion to a four-lane divided urban roadway. The study included an extensive public involvement program to determine recommendations as well as traffic studies, acquisition and construction costs analysis, and environmental analysis.

East-West Connector Roadway Conceptual Analysis (Orange County) – Assistant Project Manager responsible for coordinating subconsultant activities, public involvement activities, roadway improvement alternatives, and report writing. The Roadway Conceptual Analysis consisted of developing a roadway alignment and typical sections for a new 4.7-mile four-lane divided urban roadway on new alignment through commercial and residential land uses. The final alignment minimized residential impacts while providing local access to the community.

SR 500 PD&E Study from US 192 to Country Boulevard (Osceola County) – Project Manager responsible for coordinating subconsultant activities, roadway improvement alternatives and analysis, and review of project documents and reports. This study evaluated the widening of this five-lane urban roadway to a four-lane divided urban roadway and a six-lane divided urban roadway from US 192 to Osceola Parkway, a distance of approximately 2.3 miles. SR 500 in the City of Kissimmee and on the State Intermodal System (SIS) is a SIS Connector. There is a National Register of Historic Places building along the corridor as well as a cemetery. Alignments were developed to avoid these two features. Inwood served as the Prime

Consultant and was responsible for the typical section development, alignment alteration development, drainage and flood plain analysis, wetlands and species evaluations, public involvement, and report preparation.

CR 769 (Kings Hwy) PD&E Study from Peace River Street to Charlotte County Line, DeSoto County (FDOT District One) – Project Manager responsible for overall project direction including team management, client coordination, alternative identification and development, public involvement, subconsultant coordination, report writing, and document review. The study evaluated the widening CR 769 from two to four lanes from Kingsway Circle in Charlotte County to Peace River Street in DeSoto County, Florida. This project also included an initial feasibility study to evaluate future traffic volumes and to identify existing safety concerns along the corridor. The feasibility study was used to support the need for the project and served as the basis for the alternatives that were considered.

SR 33 PD&E Study from Old Combee Road to North of Tomkow Road, Polk County (FDOT District One) – Project Manager responsible for overall project direction including team management, client coordination, alternative identification and development, public involvement, subconsultant coordination, report writing, and document review. This study involved the widening of a 4.3-mile segment of SR 33 from a two-lane rural roadway to a four-lane suburban roadway. The study also evaluated interchange improvements for the SR 33 - Interstate 4 interchange and the realignment of Tomkow Road. Public outreach activities included coordination with property owners, business owners, the Polk Transportation Planning Organization, and the City of Lakeland. Pedestrian features included a 12-foot-wide shared use path along the east side of SR 33.

SR 951 PD&E and Design Services (SWAT), Manatee Road to North of Tower Road, Collier County (FDOT District One) – Project Manager responsible for overall direction of the PD&E study portion of the project. The SR 951 project is the first FDOT District One project being completed using the new FDOT Statewide Acceleration and Transformation (SWAT) process, which allows the PD&E study phase and the design phase to be completed concurrently in order to reduce the length of the overall project schedule. The SR 951 project limits begin south of Manatee Road and continue north to Tower Road in Collier County, Florida. The proposed project improvements consist of milling, resurfacing, and widening the existing 0.605 miles of SR 951. The proposed roadway will consist of a six-lane divided suburban roadway with a 45-mph speed limit. There will be a raised median that varies in width from 22 to 24 feet. The existing roadway will be widened on the northbound and southbound lanes toward the median. Additional improvements include a 10-foot shared-use path on the east side of the roadway, 5-foot sidewalk on the west, and 7-foot bike lanes on both sides of the roadway. The existing bridge over Henderson Creek will also be widened to six lanes. Stormwater runoff will be collected in roadside ditches and conveyed to off-site stormwater ponds. Final deliverables for the project will include a Preliminary Engineering Report (PER) and State Environmental Impact Report (SEIR) along with signed and sealed construction plans.

SR 710 PD&E Study from US 441 to Martin County Line, Okeechobee County (FDOT District One) – Project Manager responsible for coordinating subconsultant activities, roadway improvement alternatives and analysis, and review of project documents and reports. The existing two-lane roadway is proposed to be widened to a four-lane rural roadway. The project also includes a four-lane urban roadway extension on new alignment from SR 70 to US 441 that utilized a land suitability mapping process to identify viable corridors.

Districtwide Community Awareness Contract (FDOT District Five) – Principal-in-Charge responsible for scheduling, planning work activities, client and subconsultant coordination, QA/QC, and public involvement for numerous task work orders under this Districtwide contract. Tasks involved providing public information and involvement support primarily for planning and design projects. Under this contract, Inwood developed Community Awareness Plans (CAP), coordinated the notification of stakeholders and government officials, coordinated and conducted public meetings and hearings, developed video and slide presentations, created public meeting displays and exhibits, and provided transportation design technical expertise support, among other miscellaneous tasks.

SR 46 PD&E Study from US 17/92 to SR 415, Seminole County (FDOT District Five) – Assistant Project Manager responsible for coordinating subconsultant activities, roadway improvement alternatives and analysis, and review of project documents and reports. This PD&E study analyzed a 5-mile segment of an existing two-lane roadway expansion to a four-lane divided urban roadway.

TRAFFIC ENGINEERING / PD&E

Morgan Morris, EI, works in Inwood's PD&E group as an Engineer I and Planner. She is skilled in the utilization of GIS, MicroStation, Signal 4 Analytics, and Microsoft Office. She has experience with signing and pavement marking design, guide sign design, crash data analysis, soil analysis, layouts of geographical landscapes, shop drawings and other design tasks. She also has experience preparing PED and AN documents, ETAT comment summary reports, and preparing for public meetings.

RELEVANT EXPERIENCE

Babcock Street PD&E Study from South of Micco Road/Deer Run Road to Malabar Road, Brevard County (FDOT District Five) – Engineer responsible for assisting in the writing and preparation of the Preliminary Engineering Report. The purpose of the project is to address capacity and safety issues on Babcock Street from 2,100 feet south of Micco Road to Malabar Road in Brevard County. The project team is studying the widening of Babcock Street for a distance of approximately 8.6 miles and will consider all viable alternatives and alignments. Inwood is analyzing and assessing the project's impact on the social, economic, cultural, natural, and physical environment in order to develop the Location and Design Concept of the project in accordance with FDOT policy, procedures, and requirements.

SR 417 Widening from Boggy Creek Road to Narcoossee Road, Orange County (Central Florida Expressway Authority) – Engineer for the signing and pavement marking portion of the SR 417 project in its 30, 60, 90, and 100% phases. Services include the final design and preparation of construction drawings / specifications for the proposed S.R. 417 inside widening from Boggy Creek Road to Narcoossee Road (SR 15). Specifically, the project consists of widening to the inside (median) to accommodate an additional general use travel lane in each direction with full depth shoulders to facilitate hard shoulder running in the future. The existing bridge over Narcoossee Road will be widened to the inside. Additional design elements include milling & resurfacing, surveying, drainage evaluation and design, permitting, lighting, signing and pavement markings, signalization, ITS (fiber optic network), maintenance of traffic, utility coordination, geotechnical analysis, and other tasks and associated activities.

Kelly Park Road Analysis Crash Data Analysis, City of Apopka (Kimley-Horn & Associates, Inc.) – Engineer responsible for preparation of crash summaries and crash diagrams for Kelly Park Road from Round Lake Road to Rock Springs Road, a length of approximately 5.1 miles. The improvements to Kelly Park Road will consider elements such as widening, intersection improvements, access management changes, safety improvements, multi-modal improvements, ITS, and streetscaping. Inwood was responsible for crash data analysis for seventeen (17) intersections and roadway segments between them. All crashes were summarized with details by report number, date and time of the crash, crash type and severity, crash condition, and contributing cause. A particular focus of crashes for this study were fatal and severe injury crashes (KABCO levels 4 and 5) and pedestrian, bicycle, and motorcycle crashes. Crash diagrams were prepared to supplement the crash summaries for these crash types and fatal and severe injury crashes.

SR 600 (US 92) Corridor Plan and Roundabout from Halifax River to SR A1A, Volusia County (FDOT District Five) – Engineer supporting public involvement and community meeting preparation. The proposed improvements include the construction of a roundabout to replace the existing signal at the intersection of International Speedway Boulevard and S.R. A1A, as well as widening International Speedway Boulevard to provide wider travel lanes and a raised median. Sidewalks and curb ramps that are compliant with Americans with Disabilities Act (ADA) requirements will be incorporated throughout the corridor. Additionally, signals will be reconstructed at Halifax Avenue, Peninsula Drive (S.R. 441) and Grandview Avenue.

SR 528 Milling & Resurfacing from SR 5 (US 1) to SR 401, Brevard County (FDOT District 5) – Engineer who assisted with signing and pavement markings plan design. This project will mill and resurface SR 528, a 4-lane limited access freeway, and the ramps associated with the SR 5, SR3, and Banana River Drive interchanges. The intent of the project is to restore and extend the existing pavement life. Unique elements of this project include fill asphalt removal and base rework (in isolated section), deep milling, and guardrail upgrades. Additional safety upgrades include pedestrian lighting at the SR 5 interchange and Wrong Way Driving detection at each of the interchanges.

MORGAN MORRIS, EI

EDUCATION
- Master of Science, Civil Engineering, University of Central Florida, 2019
- Bachelor of Science, Environmental Engineering, University of Central Florida, 2018

REGISTRATION
Engineer Intern, FL, 2019, No. 1100022417

YEARS EXPERIENCE – 4

YEARS WITH FIRM – 2

SR 31 Extension PD&E from SR 70 to US 17, DeSoto County (Reynolds, Smith & Hills, Inc.) – Planner who created the ETAT comments summary report. The purpose of this study is to evaluate the extension of SR 31 from SR 70 to US 17. Inwood is assisting with analyzing the project alternative's impacts on the social, economic, cultural, natural and physical environment in order to determine the location and design concept of the project's preferred alternative in accordance with FDOT policy, procedures, and requirements.

9th St S (MLK St) from 6th Ave S to 7th Ave S, Pinellas County (Florida Bridge and Transportation, Inc.) – Engineer responsible for assisting with Public Involvement duties and tasks related to documentation preparation. This project consists of replacing the existing 9th Street Bridge over Booker Creek and reconstruct the adjacent roadway to alignment with the widened bridge. This is a three-lane one-way road and is an off-system roadway. This project does not require the acquisition of right-of-way.

Edwards Road Phase 2 - RFP & Concept Plan, St. Lucie County (St. Lucie County) – Engineer responsible for assisting with Public Involvement duties. This project will develop 60% concept plans reconstruct 0.5 miles of Edwards Road to repair the drainage infrastructure damaged by Hurricane Irma. The typical section consists of a 5-lane urban roadway with sidewalks located on the south side of the roadway. The signal at Oleander Blvd. will be replaced. An RFP will also be developed to advertise this project as a Low-Bid Design Build. This is a LAP project being reviewed and coordinated with FDOT District Four.

ATTAIN Central Florida ATCMTD Grant, Orange County (UCF) – Graduate Research Assistant responsible for thesis titled Assessing Pedestrian Safety Conditions on Campus. This ongoing FHWA grant, in partnership with FDOT and MetroPlan Orlando, uses the UCF campus as a research base and testing facility for PedSafe, a pedestrian and bicycle collision avoidance system, and for Connected and Autonomous Vehicle research. Morgan's research contributed to the launching of two autonomous shuttles on campus and developing vehicle to pedestrian connectivity. Her research involved the use of surveys and a NADS MiniSim driving simulator to understand driver and pedestrian behavior. Models were created from the survey data which confirmed a need for improved education, enforcement, and physical road safety technologies such as P2V communication.

PD&E

Amanda Ashby is a transportation planner who provides support for Project Development and Environment (PD&E) studies, Efficient Transportation Decision Making (ETDM) projects, and planning and feasibility studies. Ms. Ashby is a skilled researcher with experience working with Environmental Justice populations, has extensive community coordination and outreach experience, and excels in the collection and analysis of complex datasets needed to complete planning studies with the utilization of ArcMap, Adobe software, and Signal Four Analytics.

AMANDA ASHBY

EDUCATION
Bachelor of Arts, Sociology, University of Central Florida, May 2017

TRAINING/ CERTIFICATIONS
- FDOT D5 Public Involvement Training
- FDOT D5 Traffic Analysis for PD&E Studies Training

YEARS EXPERIENCE – 5

YEARS WITH FIRM – 4

RELEVANT EXPERIENCE

St. Johns Heritage Parkway Alternative Corridor Evaluation Study, Brevard County (Brevard County) – Planner responsible for public and stakeholder coordination including the sociocultural effects evaluation, Efficient Transportation Decision Making (ETDM) support, and assistance with the development of the Methodology Memorandum (MM) and Alternative Corridor Evaluation Report (ACER). The ACE Study is being conducted to evaluate the potential for a new roadway corridor that could connect the existing segments of the St. Johns Heritage Parkway between Babcock Street on the south to Malabar Road on the north, a distance of approximately 14 miles.

SR 31 Extension PD&E from SR 70 to US 17, DeSoto County (Reynolds, Smith & Hills, Inc.) – Planner responsible for public and stakeholder coordination including research and outreach with Environmental Justice populations, sociocultural effects evaluation, Efficient Transportation Decision Making (ETDM) support, and development of the environmental document. The purpose of this study is to evaluate the extension of SR 31 from SR 70 to US 17. Inwood is assisting with analyzing the project alternative's impacts on the social, economic, cultural, natural and physical environment in order to determine the location and design concept of the project's preferred alternative in accordance with FDOT policy, procedures, and requirements.

ETDM Screening (FPID 439593-1-22-01), TBD County (Florida's Turnpike Enterprise) – Planner responsible for Planning and Programming Screen development, including GIS coordination; Preliminary Environmental Discussions (PEDs); developing purpose and need statements; agency coordination, AN packages and other items in support of the FDOT ETDM process. Project tasks include conducting ETDM screenings for upcoming PD&E studies, preparation of a State Environmental Impact Report for a new interchange on the Polk Parkway, document reviews, corridor feasibility studies and species-specific surveys. Project tasks include conducting ETDM screenings for upcoming PD&E studies, preparation of a State Environmental Impact Report for a new interchange on the Polk Parkway, document reviews, corridor feasibility studies and species-specific surveys.

Babcock Street PD&E Study from South of Micco Road/Deer Run Road to Malabar Road, Brevard County (FDOT District Five) – Planner responsible for production of GIS mapping, stakeholder coordination support and report development. The purpose of the project is to address capacity and safety issues on Babcock Street from 2,100 feet south of Micco Road to Malabar Road in Brevard County. The project team is studying the widening of Babcock Street for a distance of approximately 8.6 miles and will consider all viable alternatives and alignments. Inwood is analyzing and assessing the project's impact on the social, economic, cultural, natural, and physical environment in order to develop the Location and Design Concept of the project in accordance with FDOT policy, procedures, and requirements.

Old Lake Wilson Road PD&E Study from CR 532 to Sinclair Road, Osceola County (Osceola County) – Planner responsible for Efficient Transportation Decision Making (ETDM) support, stakeholder engagement, meeting coordination, and public involvement logistics. Osceola County is conducting this PD&E Study to evaluate the two lane to four lane widening of Old Lake Wilson Road from just north of County Road 532 to just south of Sinclair Road, a distance of approximately 2.25 miles. The project also involves widening or replacing the existing bridge over Interstate 4 and the addition of bicycle and pedestrian features throughout the project corridor.

St. Johns River to Sea Loop PD&E Study from US 1/Kennedy Parkway to Dale Avenue, Volusia County (FDOT District Five) – Planner responsible for meeting logistics, stakeholder coordination, development of the Preliminary Engineering

Report (PER), and GIS mapping. The project developed and evaluated alternatives for a paved multi-use trail as part of the St. Johns River to Sea Loop Trail in Volusia County, Florida. The total length of the project was approximately 11.6 miles. Key issues on the project involved stakeholder coordination for alternatives evaluation and context-sensitive solutions that met the need of the trail user while minimizing impacts to canals and drainage features.

SR 507 (Babcock) from Malabar Road to Palm Bay Road, Brevard County (FDOT District Five) – Planner responsible for public meeting logistics, public notification, and stakeholder coordination. This project involved the widening of SR 507 from a four-lane divided urban roadway to a six-lane divided urban section with a 22-foot median for 2.5 miles from Malabar Road to Palm Bay Road in Brevard County. The design involved saving the existing pavement and storm sewer system and utilizing existing FDOT stormwater management facilities for treatment and attenuation of the increased runoff. The existing southbound bridge over the Tillman C-1 Canal was widened to accommodate the proposed typical section and the phased construction required to replace the northbound bridge. Four signalized interconnected signals exist within the project limits and will be replaced. The road widening significantly impacted adjacent residences and businesses requiring substantial public involvement and analysis to minimize the impacts to circulation and parking for affected parcels. Sound walls are also warranted and will be constructed south of the Tillman Canal adjacent to the residential parcels east of the roadway. Close coordination was required with the Melbourne Tillman Water Control District, St. Johns River Water Management District and U.S. Army Corps of Engineers to obtain project permits.

SR 44 Bridge #110063 Replacement over St. Johns River, Volusia/Lake County (FDOT District Five) – Planner responsible for public meeting logistics, public notification, and stakeholder coordination. This project consists of the design of a new high level fixed-span bridge to replace the existing State Road (SR) 44 bascule bridge (Whitehair Bridge) over the St. Johns River. The project limits are from west of County Road (CR) 42 in Lake County to east of Ed Stone Park in Volusia County—approximately 0.9 miles. The proposed improvements include reconstructing the two-lane rural roadway bridge and approaches through the project limits with a new alignment, which will be south of the existing bridge. In addition, the signal at the SR 44 and CR 42 intersection will be replaced, and the access road to Pier 44 Marina will be relocated. Access changes to Ed Stone Park, St. Johns Marina, Old New York Avenue, and Shady Oaks will be included as part of this design project. Improvements also include new stormwater ponds and safety enhancements. This project includes roadway design, structural engineering, drainage design and permitting, geotechnical studies, signals, signing and pavement marking, utility coordination, cultural resources studies, landscape architecture, and a Community Awareness Plan for public involvement. The project is located in Essential Fish Habitat, and the St. Johns River is an Outstanding Florida Waterway; as such, close coordination is required with the National Marine Fisheries Services, U.S. Army Corps of Engineers, and St. Johns River Water Management District.

SR 50 Design from the Sumter/Lake County Line to CR 33, Lake County (Jacobs) – Planner responsible for meeting logistics for a joint public meeting with an adjacent project segment. This design project proposes to widen the existing two-lane rural roadway to a four-lane divided roadway. The expansion of SR 50 to four lanes is anticipated to improve traffic circulation as well as enhance safety, emergency access, emergency evacuation capacity, and level of service for all users.

9th St S (MLK St) from 6th Ave S to 7th Ave S, Pinellas County (Florida Bridge and Transportation, Inc.) – Planner responsible for supporting public involvement, agency coordination, and community charettes, as well as assisting with environmental documentation and the Section 4(f) evaluation. Utility coordination services included making utility contacts, preparing conflict matrices, and coordinating utility relocations to resolve conflicts with proposed project improvements. Because this was a design-build project, close and continuous coordination with the utility companies was required to ensure there were no delays during construction. The project included five-foot paved shoulder widening and six-foot sidewalk on the north side of Juanita Avenue between North 15th Street and North 13th Street, approximately 445 feet.

SR 31 State Environmental Impact Report (SEIR) from CR 78 to North of Cook Brown Road, Lee and Charlotte County (Kitson & Partners, LLC) – Planner responsible for public meeting logistics, public notification, and stakeholder coordination. This project will consider widening of SR 31 from a two-lane rural roadway to a four-lane divided roadway. Inwood was responsible for team management, client coordination, alternative identification and development, public involvement, subconsultant coordination, report writing, and document review.

SR 544 (Lucerne Park Road) PD&E Study from Martin Luther King Boulevard to SR 17, Polk County (FDOT District One) – Planner responsible for assisting with community engagement, stakeholder coordination with consideration to environmental justice populations, and meeting logistics. The purpose of this study is to evaluate capacity and safety improvements, and the addition of bicycle and pedestrian features along SR 544 (Lucerne Park Road) from Martin Luther King Boulevard to SR 17 in Polk County, Florida.

PD&E

Jason Houck, PWS, GISP, has served as an environmental scientist and GIS analyst on numerous transportation projects, Project Development and Environment (PD&E) studies, and watershed projects throughout the states of Florida and Tennessee since 2001. His clients include FDOT as well as other government agencies and private industry. Mr. Houck's key expertise is in wetland delineation; local, state, and federal wetland and listed species permitting; regulatory agency and NGO coordination; NEPA document preparation; wildlife crossing and habitat connectivity studies and design; mitigation planning and design; gopher tortoise relocation; land use/land cover mapping and analysis; tree surveys; and Trimble GPS equipment.

RELEVANT EXPERIENCE

Lake County Trails Master Plan, Lake County (Lake County) – Senior Scientist responsible for plan reviews. The Master Plan developed a 230-mile system of multi-use trails throughout Lake County. A realistic vision of a future trail system was developed with consideration of natural and cultural destinations, other regional trails, and local government support.

Washington Avenue Drainage Improvements, Lake County (Lake County) – Senior Scientist responsible for wetland delineation and regulatory agency coordination in support of environmental permitting for drainage improvements along Washington Avenue in Lake County, Florida. This was an improvement project to address localized flooding within an existing rural neighborhood. Problems included lack of infrastructure and poorly graded swales. The project included a dirt road paving, stormwater collection system, coordination with Florida Central Railroad, permitting through St. Johns River Water Management District and coordinating with utility agencies. Services provided include engineering services for drainage design, utility coordination, plans production, and permitting. Improvements were conceptualized including regrading of swales, replacement of culverts, and providing new outfalls.

East Lake Park, Lake County (GAI Consultants, Inc.) – Senior Scientist responsible for wetland and wildlife assessments, environmental document preparation, and permitting. Project tasks included grading, drainage, utilities, and parking for this 30-acre site with large elevation changes. The design challenges for this project included the integration of a regional paved multiuse trail, trailhead and vendor facilities, as well as the interface between the park and a newly constructed elementary school located adjacent to the site.

North Shore Scenic Overlook (Clay Island Trailhead), Lake County (GAI Consultants, Inc.) – Senior Scientist responsible for conducting environmental assessments, listed species surveys, tree survey, and GPS data collection for a proposed multiple use recreational trail. The project involves the preliminary planning and design for a scenic overlook associated with the Green Mountain Scenic Byway. The project includes an extensive public involvement plan including a design charrette and coordination with the Citizens Advisory Group for the scenic byway, GPS data collection and field review for critical habitat. The preliminary design was needed to assist with the completion of the federal scenic byway grant. Regulatory agency and permitting included a Section 7 consultation with the USFWS due to the confirmed presence of sand skinks within the project limits. Inwood ecologists conducted a field review with USFWS staff in order to delineate the extent of suitable habitat and subsequently develop a mitigation plan that resulted in approval of the project.

Lake Wekiva Trail PD&E Study, Lake County (Renaissance Planning Group, Inc.) – Senior Scientist responsible for the development of a Wildlife Habitat Report in support of the Type I Categorical Exclusion for the Wekiva Trail. Mr. Houck conducted general wildlife and protected species field reviews, development corridor and habitat maps, and prepared wildlife documents in support of the trail study. The project study area included a 15-mile corridor that would be used to construct a paved, shared-use trail that would provide hikers, cyclists, and nature enthusiasts with a regional connection between Lake, Seminole, and Orange Counties.

JASON HOUCK, PWS, GISP

EDUCATION
- Master of Science, Environmental Science, University of Tennessee, 2003
- Bachelor of Science, Environmental Science, University of Tennessee, 2001

LICENSES/ CERTIFICATIONS
- Professional Wetland Scientist, FL, 2008, No. 1876
- Authorized Gopher Tortoise Agent, FL, 2009, No. GTA-09-00068E
- Geographic Information Systems Professional, FL, 2007, No. 44521
- Qualified Stormwater Management Inspector, FL, 2009, No. 22334
- Trenching and Excavation Safety, FL, 2014

YEARS EXPERIENCE – 20

YEARS WITH FIRM – 13

Districtwide ETDM - North Shore Overlook and Trailhead, Lake County (FDOT District Five) – Senior Scientist responsible for conducting environmental assessment, list species surveys, tree survey, and GPS data collection. The project involved the preliminary planning and design for a scenic overlook associated with the Green Mountain Scenic Byway. The project included an extensive public involvement plan including a design charrette and coordination with the Citizens Advisory Group for the scenic byway, GPS data collection, and field review for critical habitat. The preliminary design was needed to assist with the completion of the federal scenic byway grant.

Leesburg-Wildwood Trail Design from Jones Road to 13th Street, Lake County (City of Leesburg) – Senior Scientist responsible for wetland and wildlife habitat assessment. The trail includes rest areas, informational kiosks, landscaping, and a pavilion. The trail creates a connection between a neighborhood, schools, parks and shopping areas. A unique challenge of the project was the incorporation of existing historic railroad elements into an interpretive display. This project is being designed with federal Transportation Enhancement funding under the FDOT Local Agency Program (LAP).

Cady Way Trail Management Plan, Orange County (Orange County) – Senior Scientist responsible for environmental documentation and data collection to support the preparation of the management plan and GIS based maps. Inwood prepared the Cady Way Trail Phase II Management Plan for Orange County Parks and Recreation Department in accordance with the Florida Department of Environmental Protection (FDEP), Division of State Lands policies and procedures. Orange County leases the land for the trail from the FDEP Division of State Lands and is therefore required to prepare a plan for the use of the land for a 20-year period. The Management Plan documents the existing conditions of the trail, proposed improvements to the trail, and maintenance of the trail corridor.

Districtwide Environmental Permitting, County (FDOT District Five) – Project Manager responsible for contract management and staff allocation, review of environmental permit applications for consistency and completeness that are prepared by other consultants, regulatory agency coordination, and environmental permitting support for FDOT in-house design projects. Manage in-house review staff in support of FDOT D-5 work program and attend meetings with regulatory agencies on behalf and in support of FDOT District 5. Inwood currently holds to the Districtwide Environmental Permitting contract for FDOT District 5. The contract includes providing in-house staff for environmental permitting support, review of state and federal permit applications prepared by others on behalf of FDOT D5 prior to agency submittal, regulatory agency coordination, and permitting support for FDOT in-house design projects.

Osceola Parkway Extension Preliminary Feasibility Study, Osceola County (Osceola County) – Senior Scientist responsible for QA/QC review of environmental reports provided by subconsultant. This corridor evaluation study examined the feasibility of potential realignments and extensions of Osceola Parkway from the vicinity of its current eastern boundary terminus at Boggy Creek Road to Narcoossee Road and east to the Northeast Planning District in Osceola County. The study used GIS-based constraints mapping to identify and screen sensitive natural, physical, and socio-cultural features. The constraints map was then used to identify an initial set of corridor alignments that potentially could meet the purpose and need for the project while minimizing impacts to the identified sensitive areas. Ten corridor alignments were identified for further evaluation in subsequent studies. As part of the Feasibility Study, a financial feasibility analysis was conducted by Inwood's subconsultant, Kimley-Horn and Associates.

Osceola Parkway PD&E Study Phase II, Osceola County (Kimley-Horn & Associates, Inc.) – Senior Scientist responsible for wetland assessments, wildlife and habitat evaluations, Florida scrub jay surveys, regulatory and stakeholder coordination, QA/QC, and NEPA document preparation. The purpose of this study was to evaluate alternatives for the extension of Osceola Parkway from west of Boggy Creek Road to the proposed Northeast Connector Parkway, and alternatives for a north-south system connection from the Osceola Parkway Extension to SR 417. Phase I included the EST/ETDM and public involvement. Phase II continued the PD&E process.

TWO #11-Space Coast Trail Visitor Center Education Master Plan, Brevard County (FDOT District Five) – The Space Coast Trail PD&E Study is an ongoing evaluation of several shared-use trail segments proposed to be located within the Merritt Island National Wildlife Refuge (MINWR) and the Canaveral National Seashore (CANA). Within the MINWR, a key element of any acceptable shared-use trail is the ability of the shared-use trail to support wildlife education and interpretation as part of the visitor experience. The focus of this task work order is the development of a visitor education master plan to identify key educational and interpretive elements to be included with the Space Coast Trail. The purpose of this TWO will be to assist the Department with development of a visitor center education masterplan to support the Space Coast Trail PD&E Study.

TWO 8 - SR 600/US-92 Pedestrian HAWK Signal - Highland Ave to Mainland HS Entrance, Volusia County (Horizon Engineering Group, Inc.) – Project Manager. The contract consists of minor design, safety improvement, and maintenance projects throughout the District. Inwood provides ecological and permitting support in the form of wetland delineation and assessment, permit preparation and support, listed species surveys, and regulatory agency coordination.

PD&E

Ben Shepherd, PWS, has served as a Senior Ecologist on numerous transportation projects, Project Development and Environment (PD&E) studies, and watershed projects throughout Florida and the southeastern United States. His clients include Florida Department of Transportation as well as other government agencies and private industry. Mr. Shepherd's key expertise is in wetland delineation and permitting; threatened and endangered species surveys and permitting; wetlands and wildlife mitigation planning and document preparation for regulated activities; regulatory agency coordination; land use planning for regulated activities using GIS and habitat analysis; and land management associated with prescribed fire.

RELEVANT EXPERIENCE

Districtwide Environmental Permitting, County (FDOT District Five) – Senior Scientist responsible for Electronic Review Comments (ERC) plans reviews; preparation of in-house permit applications for regulatory agencies; reviewing Environmental Permit Applications (ERP) for consultants; attending permit and pre-production meetings for FDOT; and conducting wetland delineations, general wildlife surveys, and species-specific wildlife surveys, as needed by FDOT. Inwood currently holds to the Districtwide Environmental Permitting contract for FDOT District 5. The contract includes providing in-house staff for environmental permitting support, review of state and federal permit applications prepared by others on behalf of FDOT D5 prior to agency submittal, regulatory agency coordination, and permitting support for FDOT in-house design projects. Jason Houck serves as Inwood's Project Manager on this contract and works directly with Ms. Lyon on matters related to contract budgets, contract management, staff allocation, task work order development, project scoping, and agency partnering.

Continuing Services Contract for PD&E Studies (FDOT District Five) – Senior Ecologist responsible for regulatory agency coordination; identification of planning consistency issues; data acquisition and preliminary field work for planning studies; scope development; and, public involvement for planning studies. Task Work Orders have included development of concept plans, public involvement, and preparation of and obtaining a USFWS Biological Opinion for SR A1A in Flagler Beach following Hurricane Matthew; agency coordination and alternatives development for the Space Coast Trail and Titusville-Edgewater Loop Trail; and, wetland delineations and documentation preparation for the Silver River Bridges Minor Categorical Exclusion (MiCE) SOS.

Babcock Street PD&E Study, Brevard County (FDOT District Five) – Senior Ecologist responsible for listed species surveys, including those for Audubon's crested caracara and Florida scrub-jay; public involvement and NEPA documentation preparation, including the NRE and supporting evaluations for Section 4(f); and, agency coordination and mitigation planning for wetland and listed species resources. This project is meant to address capacity and safety issues on Babcock Street from south of Micco Road to Malabar Road, a distance of approximately 9 miles. Inwood observed Florida scrub-jays in the project area, which required unique mitigation planning with local, state and federal agencies.

Poinciana Parkway Southport Connector Expressway Alternatives Corridor Evaluation, Osceola County (FDOT District Five) – Senior Ecologist responsible for habitat mapping and listed species surveys for Audubon's crested caracara, bald eagle, and Everglade snail kite; wetland mapping, evaluation, and mitigation planning; roadway corridor evaluation planning; public involvement with regulatory agencies and stakeholder coordination; and, NEPA documentation preparation. This project was presented as a limited access facility connecting Poinciana to Florida's Turnpike. Inwood prepared the Alternative Corridor Evaluation (ACE), which analyzed more than a dozen alternative corridors with various environmental and cost constraints. Inwood observed several bald eagle nests and two Audubon's crested caracara nests. They also conducted extensive public involvement through a Project Advisory Group of property owners, regulatory agencies, NGOs, Florida's Turnpike Enterprise, and other interested stakeholders.

BEN SHEPHERD, PWS

EDUCATION
- Master of Science, Environmental Engineering Sciences, University of Florida, 2008
- Master of Science, Interdisciplinary Ecology, University of Florida, 2007
- Bachelor of Science, Biological Aspects of Conservation, University of Wisconsin - Madison, 2004

LICENSES/ CERTIFICATIONS
- Professional Wetland Scientist, FL, 2016, No. 2678
- Authorized Gopher Tortoise Agent, FL, 2017, No. GTA-17-00071
- Trenching and Excavation Safety, FL, 2014
- Qualified Stormwater Management Inspector, FL, 2021, No. 47193

YEARS EXPERIENCE – 14

YEARS WITH FIRM – 7

SR 50 PD&E Study, Multiple Counties (Kittelson & Associates, Inc.) – Senior Ecologist responsible for wetland delineations and habitat mapping; public involvement and NEPA documentation preparation of the NRE; and, agency coordination and mitigation planning for wetlands, stormwater/floodplains, and wildlife species, including a wildlife crossing evaluation along the corridor. The study was conducted to assess various widening alternatives for SR 50 from US 301 to CR 33 in Hernando (District 7), Sumter and Lake Counties. It considered best fit options to avoid or minimize wetland impacts, particularly within the Withlacoochee State Forest.

SR 600 (US 92) PD&E Re-evaluation from East of I-4 to East of County Line Road, Hillsborough County (FDOT District Seven) – Ecologist responsible for wetland delineations and habitat assessments; general wildlife surveys; mitigation planning; NEPA documentation preparation; and, regulatory agency coordination. The study included the re-evaluation of approximately 18 miles of SR 600 from near I-4 to the Hillsborough County Line through Plant City. The project evaluated several alternatives for the two-to-four lane widening of the existing roadway**.**

SR 44 over St. Johns River Bridge, Lake/Volusia Counties (FDOT District Five) – Senior Ecologist responsible for wetland delineations; preparation of state and federal wetland and listed species permit applications, which incorporated EFH Assessments, SSL Easements, and a USCG Bridge application; coordination with the Acquisition and Restoration Council regarding impacts to state lands; and public involvement and outreach with NGOs regarding Florida black bears. This project involved the design and permitting of the existing bascule bridge to a high-level fixed span bridge over the St. Johns River, an Outstanding Florida Water and EFH.

SR 40 from West of SR 11 to West of Cone Road, Volusia County (FDOT District Five) – Senior Ecologist responsible for wetland delineations and mitigation planning; preparation of state and federal permit applications; and, regulatory agency coordination regarding compensatory mitigation value of wildlife crossings, a unique concept in the state of Florida. The project involved the design and permitting the two-to-four lane widening of SR 40 with three pairs of wildlife shelves at exiting bridges and a dedicated concrete box culvert situated in an existing conservation easement. Inwood was the first company in the state to receive wetland mitigation credit for wildlife crossings.

SR 40 from the end of 4-lanes to CR 314, Marion County (Horizon Engineering Group, Inc.) – Senior Ecologist responsible for wetland delineations and mitigation planning; preparation of state and federal permit applications; and, regulatory agency coordination regarding compensatory mitigation value of wildlife crossings, a unique concept in the state of Florida. The project involved the design and permitting the two-to-four lane widening of SR 40 with a 12-foot multi-use trail on property owned by FDEP and numerous dedicated wildlife crossing structures**.**

SR 9 (I-95) Interchange at Viera Boulevard, Brevard County (Transystems Corporation) – Senior Ecologist responsible for wetland delineations and mitigation planning; general wildlife surveys; regulatory agency coordination; and preparation of state and federal permit application documents. The project involved the design of a new Diverging Diamond Interchange at I-95 and Viera Boulevard in order to improve mobility of traffic in the Viera Community and central Brevard County. This project required close coordination with USFWS and FWC because of a bald eagle's nest within 660 feet of the limits of construction.

SR 951 PD&E Study, Collier County (FDOT District One) – Senior Ecologist responsible for wetland delineations and habitat mapping; general wildlife surveys; NEPA documentation preparation with an NRE and EFH Assessment; wildlife crossing evaluation and design; and regulatory agency coordination. The study involved the evaluation of improvement alternatives related to the SR 951 bridge over Henderson Creek. The project is located near environmentally sensitive habitats, including the Rookery Bay National Estuarine Research Reserve and Aquatic Preserve and Henderson Creek, an EFH/OFW/SSL.

SR 29 Design Services from SR 82 to Hendry County Line, Collier County (FDOT District One) – Senior Ecologist responsible for wetland delineations and general wildlife surveys; species-specific surveys for Audubon's crested caracara, Florida bonneted bat, and Florida scrub-jay; Florida Panther Habitat Unit analysis; wood stork foraging biomass analysis; environmental permit documentation; regulatory agency coordination; GIS analysis; and, QA/QC. The purpose of the project is to secure environmental permits and provide complete construction plans to mill, resurface, and widen SR 29 from SR 82 to the Hendry County Line, in Collier County. The project was amended to include wildlife and habitat surveys along SR 82 from Gator Slough Lane to SR 29, as well as preparation of a Biological Assessment Report with species-specific survey results and habitat assessments necessary to obtain approvals from the USFWS and FWC for issuance of federal and state permits.

TRAFFIC ENGINEERING / PD&E

Nick Altizer is a member of Inwood's Project Development and Environment (PD&E)/Planning group and is experienced in GIS data collection and analysis in support of noise studies, public involvement support, and collection of existing condition data utilizing UAVs/drones. Mr. Altizer also has experience making custom GIS tools and applications using Python and JavaScript. His technical skills include ArcMap; Python; ArcGIS Online; FHWA TNM 2.5; Adobe Illustrator, InDesign, and Photoshop; HTML; and CSS. He is also Part 107 certified to fly UAVs/drones for commercial purposes.

NICK ALTIZER

EDUCATION
- Bachelor of Arts, Anthropology, University of Central Florida, 2015
- Master of Arts, Sociology, University of Central Florida, 2021

LICENSES/ CERTIFICATIONS
- FAA Remote Pilot, 4095777, 2020
- FDOT Traffic Noise Analysis Certificate, 2019
- FHWA Traffic Noise Model 2.5, 2019

YEARS EXPERIENCE – 6

YEARS WITH FIRM – 4

RELEVANT EXPERIENCE

CR 769 (Kings Hwy) PD&E Study from Peace River Street to Charlotte County Line, DeSoto County (FDOT District One) – Planner responsible for supporting the data collection and analysis effort for preparation of the noise study report. The study will evaluate widening CR 769 from two to four lanes from Sandhill Boulevard in Charlotte County to Peace River Street in DeSoto County, Florida. This project includes an initial feasibility study to evaluate future traffic volumes and to identify existing safety concerns along the corridor. The feasibility study will be used to support the purpose and need for the project and will serve as the basis for the alternatives that will be considered.

Babcock Street PD&E Study from South of Micco Road/Deer Run Road to Malabar Road, Brevard County (FDOT District Five) – Planner responsible for conducting noise analysis along Babcock Street in Palm Bay. The purpose of the project is to address capacity and safety issues on Babcock Street from 2,100 feet south of Micco Road to Malabar Road in Brevard County. The project team is studying the widening of Babcock Street for a distance of approximately 8.6 miles and will consider all viable alternatives and alignments. Inwood is analyzing and assessing the project's impact on the social, economic, cultural, natural, and physical environment in order to develop the Location and Design Concept of the project in accordance with FDOT policy, procedures, and requirements.

SR 528 from East of SR 3 to Port Canaveral Interchange, Brevard County (TLP Engineering Consultants, Inc.) – Planner responsible for conducting noise analysis along SR 528 in Merritt Island. This design project proposes to widen the existing SR 528 corridor from four lanes to six lanes. The additional lanes may be express lanes. The proposed project also involves the widening and reconstruction of all the existing bridges. The project is expected to enhance the integrity of the highway while accommodating future traffic demands, improving overall safety, improving emergency evacuation and response time, and meeting current design standards. Inwood is responsible for providing public involvement, environmental permitting, and noise analysis services for this project.

SR 504 from Woodbury Road to SR 520 – Noise Study Report, Orange County (HNTB) – Planner and Noise Analyst responsible for noise data collection and analysis of project features, creating TNM models and analyzing results, and noise study report (NSR) writing. The proposed corridor overlaps SR 50 from Woodbury Road to the divergence at SR 520, a distance of approximately 7.25 miles. The complex build design from Woodbury Road to Avalon Park Boulevard presented several challenges when analyzing noise impacts in TNM, particularly with the SR 504 overhang at elevated locations. These issues were resolved by dividing the proposed corridor into segments and adjusting sections of problematic overlap. Resolution was documented for future projects with similar issues. UAVs were also utilized for gathering existing traffic information in order to validate the noise models in TNM. This effort proved far more useful and accurate than in-field hand counts due to the difficulty of recording traffic on the current four to six lanes of SR 50.

Homestead Extension of Florida's Turnpike (HEFT) from Campbell Drive to US 1 – Noise Study Report, TWO 1, Production Home Office Support, County (HNTB Corporation) – Planner responsible for supporting noise analysis for various Florida Turnpike Enterprise projects, including Orlando South Interchange, SR 504, and Homestead Extension of Florida's Turnpike (HEFT) in South Florida. This analysis included modeling more than 3,600 receptor points located in 45 noise sensitive areas for the widening of the HEFT from four to eight lanes. For this project, 19 noise walls were evaluated. The noise analysis was documented in a Noise Study Report.

INWOOD QA / QC OFFICER

Co-Co Wu, PE has over 33 years of experience on a variety of transportation projects including roadway design, traffic design, Project Development and Environment (PD&E) Studies/preliminary engineering studies, transportation planning studies/traffic impact studies, and traffic operation/safety studies, Mr. Wu served as the Project Manager on a previous Volusia and Brevard Counties Community Traffic Safety Program, and Project Team Leader on multiple District-wide Traffic Operations Studies for District Five.

CO-CO WU, PE

EDUCATION
- Master of Engineering, Civil Engineering, University of Florida, 1988
- Bachelor of Science, Civil Engineering, National Taiwan University, 1983

REGISTRATION
Professional Engineer, FL, 1991, No. 44198

YEARS EXPERIENCE – 35

YEARS WITH FIRM – 15

RELEVANT EXPERIENCE

Volusia and Brevard Counties Community Traffic Safety Program, Florida (FDOT District Five) – Project Manager for this work order based contract to conduct various safety studies, including pedestrians, intersections and arterials, as requested by the Community Traffic Safety Teams in Volusia and Brevard Counties.

Districtwide Traffic Operations Studies, Florida (FDOT District Five) – Project Team Leader for this work order based contract to conduct various traffic operations studies, including signal warrant analysis, intersection analysis, arterial analysis, access management assessment, CORSIM simulation analysis, and interchange analysis.

SR 500 (US 441) Design Services from West of SR 451 to SR 429 Connector Road, Orange County (FDOT District Five) – QA/QC Officer responsible for quality control of construction plans and documents. This RRR project includes rehabilitating the asphalt pavement for US 441 from west of SR 451 to SR 429 Connector Road. New sidewalk was designed to eliminate all gaps within the project corridor and to correct ADA deficiencies. The project includes shoulder widening to accommodate bicycle key hole lanes, driveway apron reconstruction within the limits of the proposed shoulder widening, incidental curb and median modifications, drainage improvements, signalization upgrades and utility coordination. Safety improvements include correcting sight distance deficiencies, which improves turn lane visibility and deceleration distance. Intersection and underdeck lighting is provided for pedestrian safety.

SR 415 Design from Reed Ellis Road to Acorn Lake Road, Volusia County (FDOT District Five) – QA/ QC Officer responsible for quality control of construction plans and documents. The SR 415 final design project involved the reconstruction of a two-lane undivided rural highway to a four-lane divided urban arterial with a 22-foot median. The project limits are from Reed Ellis Road north to Acorn Lake Road, a distance of 5.3 miles. The project includes a four-foot bike lane, a 12-foot-wide multi-use asphalt trail, and a 12-foot high noise wall adjacent to a retirement community. Extensive right-of-way acquisition was required for this project: 170 parcels for the roadway footprint plus four parcels for the water retention areas. As the prime consultant for this roadway design project, Inwood was responsible for the overall roadway and drainage design, permitting, signing and marking, and public involvement activities. In addition, Inwood coordinated the archaeological, survey, geotechnical, traffic, signalization, environmental, and structural engineering subconsultant services. Inwood also provided utility coordination negotiations with Florida Power and Light for recreational trail use and power pole locations. This project won the 2016 FICE/FDOT Outstanding Project Award.

SR 507 (Babcock) from Malabar Road to Palm Bay Road, Brevard County (FDOT District Five) – QA/QC Officer responsible for quality control of construction plans and documents. This project involved the widening of SR 507 from a four-lane urban to a six-lane urban arterial through a heavily developed corridor of residential and commercial land uses. Right-of-way acquisition was required for the entire project length and involved whole takes of 27 residences, and extensive public involvement was vital. The project also involved removal of one bridge and widening another. Due to the residential nature of this corridor, 4,500 linear feet of noise walls were provided. Four signals were replaced and several median openings were closed as part of the Access Management Plan.

SR 40 Widening Design from End of Four Laning to East of CR 314, Marion County (FDOT District Five Subconsultant) – Independent Reviewer responsible for technical review of roadway plans. The project evaluated the widening of approximately six miles of roadway from a two-lane undivided roadway to a four-lane divided roadway, a multi-use trail, a new stormwater management system, and 14 wildlife crossing and habitat connectivity enhancements. The project traversed

through portions of the Ocala National Forest and required extensive stakeholder facilitation with environmental organizations. An innovative stormwater management approach is proposed in the use of the Bold and Gold biosorption media. Inwood also coordinated a joint public information meeting with the adjacent SR 40 design project to the east.

CR 516 (Palm Bay Road) Design from Minton Road to Pinewood Drive, Brevard County (FDOT District Five) – QA/QC Officer responsible for shop drawing review. This project included final engineering design and permitting to widen approximately 3.9 miles of CR 516 from a four-lane suburban to a six-lane divided urban arterial roadway. This included a bridge widening over I-95, 15 signalized intersections, 8 retention facilities, utility relocations, and noise barrier walls. The final engineering design included roadway, drainage, maintenance of traffic, signalization, signing and pavement marking plans, right-of-way maps, quantity computation, pavement designs, cost estimates, and a technical specifications package.

I-4 Beyond the Ultimate/SR 400 (I-4) from West of CR 532 to East of SR 522 (Osceola Pkwy), Osceola County (FDOT District Five Subconsultant) – QC Officer. Inwood is a subconsultant for a 2.75-mile section of the overall project, which spans three counties. The project includes widening I-4 to accommodate two new express lanes in each direction while maintaining the 44-foot multi-modal corridor and meeting vertical clearance criteria for new bridges. The SR 429 interchange with I-4 includes four new bridges to have a direct connection to the express lanes. The Old Lake Wilson bridge and the Reedy Creek bridges will also be replaced with a wider typical section. A portion of the eastbound express lanes is elevated to avoid right-of-way impacts to utility easements. The project includes development of the design to the 60% level for right-of-way acquisition and obtaining all necessary permits to allow design-build letting when funding becomes available.

I-75 (SR 93) Improvements, South of CR 470 to South of Florida's Turnpike, Sumter County (FDOT District Five Subconsultant) – QA/QC Officer responsible for quality control of construction plans and documents. The project consisted of the complete reconstruction of the CR 470 interchange, widening of CR 470, reconstruction of CR 475, and inside widening and resurfacing of the mainline for 4.6 miles north of the bridge over Lake Panasoffkee. Twelve retention areas were designed and permitted. The project also included new signals at the ramp terminals, interchange lighting and ITS facilities along the entire project length.

SR 40 from West of SR 11 to West of Cone Road, Volusia County (FDOT District Five) – QA/QC Officer responsible for quality control of construction plans and documents. This project consists of adding two new travel lanes to an existing two-lane rural highway for approximately 7.6 miles. Twelve new retention areas were designed as well as three floodplain compensation areas. Three bridges were completely replaced and lengthened to include wildlife crossing enhancements. Also included was one wildlife crossing structure, wildlife fencing and a 12-foot multi-use trail.

SR 951 Phase 1 Design (SWAT) from Manatee Road to North of Tower Road, Collier County (FDOT District One) – QA/QC Officer responsible for quality control of construction plans and documents. The SR 951 project is the first FDOT District One project being completed using the new FDOT Statewide Acceleration and Transformation (SWAT) process, which allows the PD&E study phase and the design phase to be completed concurrently in order to reduce the length of the overall project schedule. The SR 951 project limits begin south of Manatee Road and continue north to Tower Road in Collier County, Florida. The proposed project improvements consist of milling, resurfacing, and widening the existing 0.605 miles of SR 951. The proposed roadway will consist of a six-lane divided suburban roadway with a 45 mph speed limit. There will be a raised median that varies in width from 22 to 24 feet. The existing roadway will be widened on the northbound and southbound lanes toward the median. Additional improvements include a 10-foot shared-use path on the east side of the roadway, 5-foot sidewalk on the west, and 7-foot bike lanes on both sides of the roadway. The existing bridge over Henderson Creek will also be widened to six lanes. Stormwater runoff will be collected in roadside ditches and conveyed to off-site stormwater ponds. Final deliverables for the project will include a Preliminary Engineering Report (PER) and State Environmental Impact Report (SEIR) along with signed and sealed construction plans.

US 41 Final Design from Corkscrew Road to San Carlos Boulevard, Lee County (FDOT District One) – QA/QC Officer responsible for quality control of construction plans and documents. The project involved the widening of the existing 2.5-mile four-lane divided roadway to a six-lane divided urban and suburban roadway. Also included was the reconstruction of an existing 150-foot-long bridge over the Estero River, four mast arm signals, and landscape/irrigation plans.

SR 29 Design Services from SR 82 to Hendry County Line, Collier County (FDOT District One) – QA/QC Officer responsible for quality control of construction plans and documents. This project provides complete construction plans to mill, resurface, and widen SR 29 from SR 82 to the Hendry County Line in Collier County, Florida. This project was amended to include conducting wildlife and habitat surveys along SR 82 from Gator Slough Lane to SR 29. It also includes providing documentation in the form of species-specific survey reports, habitat assessments, and a Biological Assessment Report necessary to obtain the FWC and USFWS approvals for issuance of state and federal permits.

TRAFFIC ENGINEERING INTERSECTION / SIGNAL DESIGN

Kate Spiess, PE, has served as Project Manager or Project Engineer on a variety of transportation design projects for municipal government clients as well as FDOT since 2000. This includes continuing service contracts for Seminole County, City of Oviedo, and City of Lake Mary. Her project goals are to provide quality services on time and to add value to projects with her technical expertise. Her area of expertise is in roadway design and the preparation of construction plans. As a hands-on project manager, she can answer design questions down to the smallest detail. She is also trained and certified to prepare specifications, special provisions, and temporary traffic control plans.

KATE SPIESS, PE

EDUCATION
Bachelor of Science, Civil Engineering, Georgia Institute of Technology, 2000

REGISTRATION
Professional Engineer, FL, 2005, No. 62501

CERTIFICATION
Advanced Maintenance of Traffic, FL, 2012

YEARS EXPERIENCE – 21

YEARS WITH FIRM – 21

RELEVANT EXPERIENCE

SR 600 (US 92) Corridor Plan / Roundabout, Volusia County (FDOT District Five) – Project Manager responsible for design, coordination of subconsultants, scope preparation, scheduling, and estimating project construction cost. The proposed improvements include the construction of a roundabout to replace the existing signal at the intersection of International Speedway Boulevard and S.R. A1A, as well as widening International Speedway Boulevard to provide wider travel lanes and a raised median. Sidewalks and curb ramps that are compliant with Americans with Disabilities Act (ADA) requirements will be incorporated throughout the corridor. Additionally, signals will be reconstructed at Halifax Avenue, Peninsula Drive (S.R. 441) and Grandview Avenue.

SR 426/CR 419 Widening from Pine Avenue to Avenue B, Seminole County (Seminole County Engineering/Public Works) – Project Manager responsible for roadway design and plans production, scheduling, project reporting and documentation, subconsultant and in-house staff coordination, and assembling the final construction documents. This project included preliminary and final engineering and permitting for the widening of State Road 426/County Road 419 to a four-lane divided urban roadway. The 1.5-mile corridor design included intersection and drainage improvements, traffic volume studies, the addition of sidewalks and bicycle lanes, environmental permitting, and safety enhancements. This project required close coordination with FDOT during plan reviews and right-of-way acquisition.

SR 434 Widening from Smith Street to Franklin Street, Seminole County (Seminole County Engineering/Public Works) – Project Manager responsible for roadway design and plans production, scheduling, project reporting and documentation, subconsultant and in-house staff coordination, assembling the final construction documents, and serving as an expert witness during the right of way acquisition process. This project included preliminary and final engineering and permitting for the widening of State Road 434 to a five-lane undivided urban roadway. The design included intersection and drainage improvements, traffic volume studies, the addition of sidewalks and bicycle lanes, environmental permitting, and safety enhancements. This project required close coordination with FDOT during plan reviews and right-of-way acquisition.

Sand Lake Road Improvements, Seminole County (Seminole County Engineering/Public Works) – Project Manager responsible for design, coordination of subconsultants, scope preparation, scheduling, and estimating project construction cost. This project consisted of widening the existing roadway for the addition of a right turn lane and also extending an existing turn lane to convert it to a thru-right movement. In addition, this project included drainage improvements, modification to existing signalization, utility coordination, and determination of permit exemption.

Wymore Road at Oranole Road Intersection Improvements, Seminole County (Seminole County Engineering/Public Works) – Project Manager responsible for roadway design, coordination of subconsultants, scope preparation, and scheduling. This project consisted of adding a northbound and eastbound right turn lane on Wymore Road, and modifying the existing signal, signing and pavement marking plans. This project involved coordination with the City of Maitland and Orange County for work within their right-of-way. Utility coordination and determination of permit exemption were also part of this project, along with post design services.

I-4 Beyond the Ultimate (SR 400) from East of CR 532 to West of World Drive, Osceola County (FDOT District Five Subconsultant) – Assistant Project Manager responsible for roadway design. Inwood is a subconsultant for a 2.75-mile

section of the overall project, which spans three counties. The project includes widening I-4 to accommodate two new express lanes in each direction while maintaining the 44-foot multi-modal corridor and meeting vertical clearance criteria for new bridges. The SR 429 interchange with I-4 includes four new bridges to have a direct connection to the express lanes. The Old Lake Wilson bridge and the Reedy Creek bridges will also be replaced with a wider typical section. A portion of the eastbound express lanes is elevated to avoid right-of-way impacts to utility easements. The project includes development of the design to the 60% level for right-of-way acquisition and obtaining all necessary permits to allow design-build letting when funding becomes available.

SR 60 (Adamo Drive) from North 22nd to West of 50th Street, Hillsborough County (FDOT District Seven) – Project Manager responsible for roadway design and plans production, scheduling, project reporting and documentation, subconsultant and in-house staff coordination, and assembling the final construction documents. This resurfacing, restoration and rehabilitation (RRR) design includes milling and resurfacing the travel lanes, providing continuous sidewalks on both sides of the roadway, and widening for bicycle keyways at right turn lanes. The length of the project is approximately 1.991 miles.

CR 516 (Palm Bay Road) Design from Minton Road to Pinewood Drive, Brevard County (FDOT District Five) – Project Engineer responsible for signing and pavement marking. This project included final engineering design and permitting to widen approximately 3.9 miles of CR 516 from a four-lane suburban to a six-lane divided urban arterial roadway. This included a bridge widening over I-95, 15 signalized intersections, 8 retention facilities, utility relocations, and noise barrier walls. The final engineering design included roadway, drainage, maintenance of traffic, signalization, signing and pavement marking plans, right-of-way maps, quantity computation, pavement designs, cost estimates, and a technical specifications package.

I-95 Widening from Palm Coast Parkway to St. Johns County Line, Flagler County (FDOT District Five) – Project Engineer responsible for roadway design, and pond sitting and drainage report. This project involved the addition of fifth and sixth lanes to I-95 from Palm Coast Parkway to the St. Johns County line, a distance of 8.5 miles. The existing four lanes and the interchange ramps were milled and resurfaced, and the bridge over Pellicer Creek was replaced.

Downtown Lake Mary Infrastructure Design, Seminole County (City of Lake Mary) – Project Manager responsible for design, coordination of subconsultants, scope preparation, scheduling, and estimating project construction cost. This project consisted of design plans to improve the infrastructure along 4th Street, Crystal Lake Avenue and Lakeview Avenue by adding on-street parking and also converting Seminole Avenue to a parking lot between 4th Street and 5th Street. A primary and secondary drainage system was part of this project. Utility coordination and a SJRWMD permit modification were also part of this project.

Palmetto Street Turn Lane and Lake Mary Boulevard Sewer Design, Seminole County (City of Lake Mary) – Assistant Project Manager responsible for the overall plans preparation and roadway design. This project consisted of the preliminary and final design, permitting, bidding, and construction of additional turn lane, sidewalk, and drainage improvements along Palmetto Street. Project also included over 1,800 LF of PVC sanitary sewer, 250 LF of jack and bore, and duplex lift station. The project was located next to Lake Mary Sunrail station and included extensive coordination with FDOT-Railroad and Seminole County.

SE 92nd Loop (formerly Belleview Bypass) from US 441 to SR 35, Marion County (Marion County) – Project Engineer responsible for roadway design. This project involved the design of a new 5.5-mile corridor alignment of a four-lane, high-speed suburban roadway. In addition to roadway design, the project addressed drainage improvements, existing and future traffic volumes, sidewalk addition, access management controls, signalization, and safety enhancements.

Community Center Parking Lot, Seminole County (City of Lake Mary) – Project Manager responsible for design, coordination of subconsultants, scope preparation, scheduling, and estimating project construction cost. This project consisted of designed an additional parking lot for the Lake Mary Community Center and connecting to the existing parking lot. Modifications to the existing stormwater pond were required for the new impervious pavement. Utility coordination was also a part of the project.

Lake Hayes Sidewalk, Seminole County (Seminole County) – Project Manager responsible for design, coordination of subconsultants, scope preparation, scheduling, and estimating project construction cost. Design tasks included the layout and modelling of several new inlets and replacement of side drain pipes to connect to an existing cross drain pipe. Additional tasks included basin delineation and ditch grading.

TRAFFIC ENGINEERING INTERSECTION / S&PM DESIGN

Jessica Ballock, PE, has been successfully providing roadway and transportation engineering design services for the Florida Department of Transportation (FDOT) as well as municipal government clients throughout Florida since 2006. Ms. Ballock's skill set includes development of horizontal and vertical alignments, cross sections, intersection design, ADA improvements/consideration, plans production, signing and pavement markings, maintenance of traffic design, signalization design, flexible and rigid pavement design, specifications, permitting, and scheduling. She brings a variety of experience and technical knowledge to all of her projects and provides quality services on time to clients.

JESSICA BALLOCK, PE

EDUCATION
Bachelor of Science, Civil Engineering, University of Central Florida, 2006

LICENSES/CERTIFICATIONS
-Professional Engineer, FL, 2012, No. 73909
-Advanced Maintenance of Traffic, FL, 2008, No. 61170

YEARS EXPERIENCE – 16

YEARS WITH FIRM – 16

RELEVANT EXPERIENCE

SR 500 (US 441) Design Services from West of SR 451 to SR 429 Connector Road (MP 12.951 to MP 15.065), Orange County (FDOT District Five) – Project Engineer responsible for roadway and sidewalk design, pavement design, plans production and quantities. This RRR project includes rehabilitating the asphalt pavement for US 441 from west of SR 451 to SR 429 Connector Road. New sidewalk was designed to eliminate all gaps within the project corridor and to correct ADA deficiencies. The project includes shoulder widening to accommodate bicycle keyhole lanes, driveway apron reconstruction within the limits of the proposed shoulder widening, incidental curb and median modifications, drainage improvements, signalization upgrades and utility coordination. Safety improvements include correcting sight distance deficiencies, which improves turn lane visibility and deceleration distance. Intersection and underdeck lighting were provided for pedestrian safety.

SR 600 (US 92) Corridor Plan and Roundabout from Halifax River to SR A1A, Volusia County (FDOT District Five) – Project Engineer responsible for roadway design including horizontal and vertical alignment and plans production. The proposed improvements include the construction of a roundabout to replace the existing signal at the intersection of International Speedway Boulevard and S.R. A1A, as well as widening International Speedway Boulevard to provide wider travel lanes and a raised median. Sidewalks and curb ramps that are compliant with Americans with Disabilities Act (ADA) requirements will be incorporated throughout the corridor. Additionally, signals will be reconstructed at Halifax Avenue, Peninsula Drive (S.R. 441) and Grandview Avenue.

SR 44 over St. Johns River Bridge #110063, Volusia/Lake Counties (FDOT District Five) – Project Engineer responsible for roadway design including horizontal and vertical alignment, pavement design, plans production, and preparing specifications. This project involves the replacement of an existing bascule bridge with a new fixed span bridge. The new bridge will provide a minimum vertical clearance of 45 feet above mean high water, and a clear navigation channel of 125 feet between bridge fenders is proposed. This project includes roadway design, structural engineering, drainage design and permitting, geotechnical studies, signals, signing and pavement marking, utility coordination, cultural resources studies, landscape architecture, and a Community Awareness Plan for public involvement. The project is located in Essential Fish Habitat, and the St. Johns River is an Outstanding Florida Waterway; as such, close coordination is required with the National Marine Fisheries Services, U.S. Army Corps of Engineers, and St. Johns River Water Management District.

SR 40 from West of SR 11 to West of Cone Road, Volusia County (FDOT District Five) – Project Engineer responsible for roadway design including horizontal and vertical alignment, superelevation transitions, pavement design, signing and pavement marking, plans production and scheduling. This project consists of adding two new travel lanes to an existing two-lane rural highway for approximately 7.6 miles. Twelve new retention areas were designed as well as three floodplain compensation areas. Three bridges were completely replaced and lengthened to include wildlife crossing enhancements. One wildlife crossing structure was also included as well as wildlife fencing and a 12-foot multi-use trail.

SR 415 Design from Reed Ellis Road to Acorn Lake Road, Volusia County (FDOT District Five) – Project Engineer responsible for plans production and utility design assistance. This project involved the reconstruction of a 5.3-mile two-lane undivided rural highway to a four-lane divided urban arterial with a 22-foot median. The project also included a 4-foot bike lane, a 12-foot-wide multi-use asphalt trail, two traffic signals, and a 12-foot-high noise wall adjacent to a retirement

community. Extensive right-of-way was needed for the widening—over 170 parcels were acquired. This project won the 2016 FICE/FDOT Outstanding Project Award.

SR 426/CR 419 Widening from Pine Avenue to Avenue B, Seminole County (Seminole County Engineering/Public Works) – Project Engineer responsible for design, plans production, signing and pavement markings, signalization design, and pavement design. This project included preliminary and final engineering and permitting for the widening of State Road 426/County Road 419 to a four-lane divided urban roadway. The 1.5-mile corridor design included intersection and drainage improvements, traffic volume studies, the addition of sidewalks and bicycle lanes, environmental permitting, and safety enhancements. This project required close coordination with FDOT during plan reviews and right-of-way acquisition.

9th St S (MLK St) from 6th Ave S to 7th Ave S, Pinellas County (FDOT District Seven) – Project Manager responsible for roadway design including horizontal and vertical alignment, project reporting and documentation, scheduling and directing internal staff. This project consists of replacing the existing 9th Street Bridge over Booker Creek and reconstruct the adjacent roadway to alignment with the widened bridge. This is a three-lane one-way road and is an off-system roadway. This project does not require the acquisition of right-of-way.

SR 60 (Adamo Drive) from North 22nd to West of 50th Street, Hillsborough County (FDOT District Seven) – Project Engineer responsible for design and plans production assistance. This resurfacing and rehabilitation (RRR) design includes milling and resurfacing the travel lanes, providing continuous sidewalks on both sides of the roadway, and widening for bicycle keyways at right turn lanes. The length of the project is approximately 1.991 miles.

CR 68/Orange Avenue from Graves Road to Kings Highway, St. Lucie County (FDOT District Four) – Project Engineer responsible for pavement design and plans production assistance. Elements of the work included minor roadway improvements by widening the roadway with 8-foot shoulders (5 feet paved), signing and pavement marking, drainage improvements, utility relocation, environmental permits, and other incidental items for a complete project. The project was implemented in two phases. Phase I included survey, development of typical sections, cross section evaluation, right-of-way evaluation, determining drainage and permitting impacts, and preparing a findings/recommendation report. Phase II included final design plans.

SE 92nd Loop (formerly Belleview Bypass) from US 441 to SR 35, Marion County (Marion County) – Project Engineer responsible for design and vertical alignment in plans update, quantities, and cost estimate. This project involved the design of a new 5.5-mile corridor alignment of a four-lane, high-speed suburban roadway. In addition to roadway design, the project addressed drainage improvements, existing and future traffic volumes, sidewalk addition, access management controls, signalization, and safety enhancements.

Jackson Heights Middle School Sidewalk LAP Project-Contract Documents and Plans Preparation, Seminole County (City of Oviedo) – Project Engineer responsible for sidewalk design, plans production, quantities, cost estimate and signing and pavement markings. The project consisted of sidewalk design within the Jackson Heights Middle School area under the Safe Routes to Schools funding program in collaboration with FDOT. Minor drainage improvements were included. Careful consideration was taken to avoid impacting utilities, trees, and landscaping. This project also included reconstructing many residential driveways for ADA compliance.

Lockwood Boulevard Reconstruction, Seminole County (City of Oviedo) – Project Engineer responsible for roadway design, plans preparation, quantities, cost estimate, signing and pavement markings and bidding documents. This LAP project consisted of the reconstruction and resurfacing of 1.8 miles of Lockwood Boulevard. The construction of this project was funded by the American Recovery and Reinvestment Act of 2009, which added additional guidelines that were followed during the design process. Minor drainage improvements were included in the reconstructed portions of the roadway.

Altamonte Elementary Safe Routes to School Sidewalk Design, Seminole County (Seminole County Engineering/Public Works) – Project Engineer responsible for sidewalk design, plans preparation, drainage design, quantities, cost estimate and signing and pavement markings. This project consisted of 1.6 miles of sidewalk along five streets near Altamonte Elementary School. The proposed sidewalks were constructed within the County-owned right-of-way. Utility coordination and determination of permit exemption were also part of this project, along with post design services. This LAP project required coordination with FDOT.

SR 46 at Jungle Road and Rest Haven Road (Left Turn Addition), Seminole County (Seminole County Engineering/Public Works) – Project Engineer responsible for roadway design, plans production, quantities, cost estimate and signing and pavement markings. This project consisted of widening SR 46 for the addition of left turn lanes at Jungle Road and at Rest Haven Road. This was a LAP project that required coordination with FDOT. Utility coordination and coordination with SJRWMD, UAOs, and USACE were also part of this project.

TRAFFIC ENGINEERING INTERSECTION / DRAINAGE DESIGN

Cameron DeWitt, PE, has served as an assistant project designer on various roadway projects for Florida Department of Transportation (FDOT) as well as municipal government clients throughout Florida since 2011. Mr. DeWitt's key expertise is in roadway drainage design and permitting. He is skilled in the utilization of MicroStation, ASAD, ICPR, PONDS Modeling, Hy-8, HEC-RAS, GeoPak Drainage, and Microsoft Office.

CAMERON DEWITT, PE

EDUCATION
Bachelor of Science, Environmental Engineering, University of Central Florida, 2014

REGISTRATION
Professional Engineer, FL, 2020, No. 90461

YEARS EXPERIENCE – 10

YEARS WITH FIRM – 10

RELEVANT EXPERIENCE

SR 417 Widening from Boggy Creek Road to Narcoossee Road, Orange County (Central Florida Expressway Authority) – Project Engineer responsible for drainage design and plans production for the proposed S.R. 417 inside widening from Boggy Creek Road to Narcoossee Road (SR 15). Specifically, the project consists of widening to the inside (median) to accommodate an additional general use travel lane in each direction with full depth shoulders to facilitate hard shoulder running in the future. The existing bridge over Narcoossee Road will be widened to the inside. Additional design elements include milling & resurfacing, surveying, drainage evaluation and design, permitting, lighting, signing and pavement markings, signalization, ITS (fiber optic network), maintenance of traffic, utility coordination, geotechnical analysis, and other tasks and associated activities.

SR 19 over Little Lake Harris Design-Build Bridge Replacement, Lake County (Leware Construction Company) – Engineering Intern responsible for drainage design and plans production. The Inwood/Leware Team was selected to provide design-build services for this bridge replacement project. The overall project objective is to construct a new two-lane bridge structure east of the existing bridge and remove the existing 3,130-foot bridge (which is in declining condition). The proposed bridge typical section will consist of one 12-foot lane in each direction, 10-foot paved shoulders, and a barrier-separated 8-foot sidewalk on the east side of the bridge. The roadway approaches on the south and north ends of the bridge will consist of one 12-foot lane in each direction, 10-foot shoulders (5-foot paved) and a 5-foot sidewalk on the east side of the roadway. The design speed is 55 mph for the bridge and roadway approaches. We also recognize that SR 19 will be widened to four lanes at some point in the future; therefore, FDOT is expecting that the design and construction of these initial two lanes can be easily duplicated (and mirrored to the west) when necessary.

SR 44 Bridge #110063 Replacement over St. Johns River, Volusia/Lake County (FDOT District Five) – Engineering Intern responsible for drainage design and plans production. This project consists of the design of a new high level fixed-span bridge to replace the existing State Road (SR) 44 bascule bridge (Whitehair Bridge) over the St. Johns River. The project limits are from west of County Road (CR) 42 in Lake County to east of Ed Stone Park in Volusia County—approximately 0.9 miles. The proposed improvements include reconstructing the two-lane rural roadway bridge and approaches through the project limits with a new alignment, which will be south of the existing bridge. In addition, the signal at the SR 44 and CR 42 intersection will be replaced, and the access road to Pier 44 Marina will be relocated. Access changes to Ed Stone Park, St. Johns Marina, Old New York Avenue, and Shady Oaks will be included as part of this design project. Improvements also include new stormwater ponds and safety enhancements. This project includes roadway design, structural engineering, drainage design and permitting, geotechnical studies, signals, signing and pavement marking, utility coordination, cultural resources studies, landscape architecture, and a Community Awareness Plan for public involvement. The project is located in Essential Fish Habitat, and the St. Johns River is an Outstanding Florida Waterway; as such, close coordination is required with the National Marine Fisheries Services, U.S. Army Corps of Engineers, and St. Johns River Water Management District.

West SR 50 PD&E Corridor Planning Study, Lake County (FDOT District Five Subconsultant) – Engineering Intern responsible for supporting the drainage Pond Siting Report and Location Hydraulics Report. The purpose of this corridor planning study was to evaluate SR 50 within Sumter County and western Lake County, as well as a small portion in eastern Hernando County (FDOT District 7). This project will be coordinated with local and regional agency partners such as the Lake-Sumter Metropolitan Planning Organization, Sumter County, and Lake County to identify existing and future corridor needs, as well as to identify potential solutions that establish a usable and safe East-West connector between the west coast (Brooksville) and the Central Florida area (Orlando).

SR 500 (US 441) Design Services from West of SR 451 to SR 429 Connector Road (MP 12.951 to MP 15.065), Orange County (FDOT District Five) – Engineering Intern responsible for supporting drainage design and plans production. This RRR project includes rehabilitating the asphalt pavement for US 441 from west of SR 451 to SR 429 Connector Road. New sidewalk was designed to eliminate all gaps within the project corridor and to correct ADA deficiencies. The project includes shoulder widening to accommodate bicycle key hole lanes, driveway apron reconstruction within the limits of the proposed shoulder widening, incidental curb and median modifications, drainage improvements, signalization upgrades and utility coordination. Safety improvements include correcting sight distance deficiencies, which improves turn lane visibility and deceleration distance. Intersection and underdeck lighting is provided for pedestrian safety.

Hoagland Boulevard Segment 2, Osceola County (Consor Engineers, LLC) – The design involves realigning approximately 1.9 miles of Hoagland Boulevard from 1,200 feet north of Shingle Creek to 5th Street. The project includes a proposed bridge crossing over CSX railroad. Reconstruction of the existing two lane rural facility to a four lane divided urban facility is proposed.

SR 434 Corridor Planning Study, Seminole County (Kittelson & Associates) – Engineering Intern responsible for analysis of existing drainage conditions, preliminary pond siting and sizing and development of a Drainage Technical Memo. The Corridor Planning Study evaluated the future needs of SR 434 in two sections, from SR 417 to Franklin Street (Section 1) and from Mitchell Hammock Road to Smith Street (Section 2), including four and five lanes alternatives for each section, as well as shared-use paths and sidewalks.

Edwards Road Phase 2 - RFP & Concept Plan, St. Lucie County (St. Lucie County) – Engineering Intern responsible for drainage design and plans production. This project will develop 60% concept plans reconstruct 0.5 miles of Edwards Road to repair the drainage infrastructure damaged by Hurricane Irma. The typical section consists of a 5-lane urban roadway with sidewalks located on the south side of the roadway. The signal at Oleander Blvd. will be replaced. An RFP will also be developed to advertise this project as a Low-Bid Design Build. This is a LAP project being reviewed and coordinated with FDOT District 4.

Midway Road (CR 712) Widening/Reconstruction from Glades Cut Off Rd. to Selvitz Rd., St. Lucie County (FDOT District Four) – Engineering Intern responsible for drainage design and plans production. This project begins at Glades Cut-Off Road and extends east for 1.7 miles, spamming Florida's Turnpike and terminating at Selvitz Road. Midway Road will be reconstructed from a two-lane rural typical section to a four-lane urban typical section with 11-foot travel lanes, 7-foot buffered bike lanes, a 10-foot shared-use path on the south side, and a 6-foot sidewalk along the north side. The existing two-lane bridge over Florida's Turnpike will be removed and a new four-lane bridge structure will be constructed in its place. Three interconnected signalized intersections will be improved. Canal 103, which borders the south side of the roadway, will be enclosed in an 11' x 5' concrete box culvert. Stormwater will be collected through a closed drainage system and will be treated in a combination of new and existing storm water ponds. A landscape and irrigation plan will also be developed to maintain corridor consistency.

SR 951 Phase 1 Design (SWAT) from Manatee Road to North of Tower Road, Collier County (FDOT District One) – Engineering Intern responsible for drainage design and plans production. The SR 951 project is the first FDOT District One project being completed using the new FDOT Statewide Acceleration and Transformation (SWAT) process, which allows the PD&E study phase and the design phase to be completed concurrently in order to reduce the length of the overall project schedule. The SR 951 project limits begin south of Manatee Road and continue north to Tower Road in Collier County, Florida. The proposed project improvements consist of milling, resurfacing, and widening the existing 0.605 miles of SR 951. The proposed roadway will consist of a six-lane divided suburban roadway with a 45-mph speed limit. There will be a raised median that varies in width from 22 to 24 feet. The existing roadway will be widened on the northbound and southbound lanes toward the median. Additional improvements include a 10-foot shared-use path on the east side of the roadway, 5-foot sidewalk on the west, and 7-foot bike lanes on both sides of the roadway. The existing bridge over Henderson Creek will also be widened to six lanes. Stormwater runoff will be collected in roadside ditches and conveyed to off-site stormwater ponds. Final deliverables for the project will include a Preliminary Engineering Report (PER) and State Environmental Impact Report (SEIR) along with signed and sealed construction plans.

I-4 at SR 557 Interchange Design, Polk County (Dewberry Engineers, Inc.) (DEW-002-01) – Engineering Intern responsible for supporting development of a Pond Siting Report and Location Hydraulics Technical Memo. The project consists of reconstructing the existing I-4 and SR 557 interchange in Polk County from a partial cloverleaf to a diamond configuration and re-aligning the eastbound and westbound I-4 travel lanes to accommodate the I-4 ultimate 10-lane typical section that will include three general use lanes and two express lanes in each direction along with a multi-modal corridor within the median. Stormwater management is provided in two proposed wet detention ponds where the right-of-way has already been acquired by the FDOT. Additional drainage elements required for this project include storm drain conveyance, ditch analysis, cross drain analysis, and floodplain compensation.

protean DESIGN GROUP

TODD DAVIS, PE

REVIEW OF DRIS/ARTERIAL ANALYSIS

18 Years of Experience
2 year with Protean

Education
BS, Civil Engineering,
University of Central Florida, 2005

Registrations
Professional Engineer,
No. 70661, Florida, 2010

*prior to joining Protean

Mr. Davis brings extensive experience in a variety of project types, including traffic operations, transportation planning studies, and Concurrency Management Systems (CMS). Specific tasks include the review of Developments of Regional Impact (DRI) and Comprehensive Plan Amendments, corridor and area-wide planning studies, signal warrants, traffic impact studies, impact fee studies, CMS, and data collection. In support of these activities, Mr. Davis is well versed in the methodologies outlined in the Quality Level of Service Manual, Institute of Transportation Engineers (ITE) Trip Generation Handbook, and the Highway Capacity Manual, and is proficient in Synchro, HCS, LOSPlan, TravTime, Jamar, and Microsoft Office.

PROJECT EXPERIENCE

FDOT District 5, Metropolitan Planning Organization (MPO) Plans Review, Districtwide; Project Manager. Protean Design Group, as a subconsultant, is supporting the District on review of plans submitted to the District from local MPOs. Protean will review plans submitted by the five MPOs in the District, including draft and final plans for Transportation Improvement Plans (TIPs), Long-Range Transportation Plans (LRTPs), and LRTP Needs Plans. Support provided under this TWO includes comparison of the current proposed plans to the previously adopted plans (including FDOT Work Program and MPO Cost Feasible Plans), reviewing supporting analysis of existing and future conditions, coordination with the District Model staff regarding the updated 2045 Central Florida Regional Planning Model (CFRPM) and comparison to the MPO supporting analysis, coordination with the District SIS unit regarding any planned and funded improvements to SIS corridors, reviewing MPO process for addressing future technology (eg: connected and automated vehicles [CAV]), reviewing the quality of the plans, and reviewing plans to ensure planning consistency.

- **DRIFT Support.** Protean Design Group is providing support to the District on updates to the DRI Financial Tracker (DRIFT) for the District PLEMO staff including support of the mapping component view attributes (DRI boundaries, development orders, annual reports, associated mitigatiion, and proportional share agreements), updates to financial components based on previous quarterly updates, and data upload and management for quarterly updates.

- **MPO Plans Support.** Protean Design Group will provide support to the District on review of plans submitted by the five MPOs in the District. Protean will then review and draft the final plans related to the Transportation Improvement Plan (TIP), Long-Range Transportation Plan (LRTP), and LRTP Needs Plan. Other items in this task include comparison of the current proposed plans to the previously adopted (including the FDOT Work Program and MPO Cost-Feasible Plan), review of supporting analysis of existing and future conditions, coordination with the District Model Staff regarding the updated 2045 Central Florida Regional Planning Model (CFRPM) and comparison to the MPO supporting analysis, coordination with the District SIS unit regarding any planned and funded improvements to SIS corridors, review of MPO process for addressing future technology, such as Connected and Automated Vehicles (CAV), review the quality of the plans, such as the evaluation process and linkage between the vision, goals, objectives, and evaluation criteria, and review plans to ensure Planning Consistency.

FDOT District 5, Regional Planning Councils (RPC), FL; Public Involvement.* Mr. Davis provided coordination and assistance with three Regional Planning Councils (RPC) including the East Central Florida, Northeastern, and Withlacoochee, located within District 5, along with the Transportation Planning Organizations (TPOs)/Metropolitan Planning Organizations (MPOs). Tasks included coordination with FDOT liaisons, posting of public hearings and informational meetings/correspondence with all the District 5 county publications, creating presentations summarizing FDOT and the Tentative Five-Year Work Program, and writing scripts for public hearings on behalf of FDOT liaisons. His responsibilities included assisting in the coordination and organization of the projects to provide FDOT with the appropriate information and materials required to meet the public needs. In addition, Mr. Davis worked with the District 5 Public Information Officer to create a video for the Work Program Public Hearing summarizing the gas tax and the tax implementation.

FDOT District 3, Districtwide Growth Management Planning Assistance, FL; Project Manager.* Mr. Davis supported the FDOT District 3 Districtwide Growth Management Planning Assistance team as project manager. The firm was responsible for supporting the District with their team's expertise in transportation planning, growth management planning, transit planning program management, aviation planning, interstate master plans, interchange justification reports, environmental analyses, and permitting systems analyses.

protean DESIGN GROUP

LAURA ROSSI, PE

ARTERIAL ANALYSIS

11 Years of Experience
3 years with Protean

Education
BS, Civil Engineering,
University of Central Florida, 2012

Registration
Professional Engineer,
No. 82403, Florida, 2017

Certification
Advanced MOT

*prior to joining Protean

Ms. Rossi brings a wealth of experience in roadway, stormwater, and stormsewer design. She is skilled in all aspects of geometric design, including vertical and horizontal alignments, rural and high-speed urban designs, temporary traffic control plans (TTCP), and signing and pavement markings. She also has experience with modeling stormsewer systems and the design of wet detention ponds, retention ponds, and floodplain compensation sites in compliance with the Florida Department of Transportation (FDOT) criteria. In addition, she is experienced with bridge hydraulics reports, bridge scour analysis, and documenting district specific stormwater management system design criteria for projects throughout the State.

PROJECT EXPERIENCE

FDOT District 4, Loxahatchee Road from Arthur Marshall Loxahatchee Refuge to SR 7 (US 441), Broward County, FL; Deputy Project Manager. Protean Design Group designed plans to widening, mill, and resurface 6.15 miles of Loxahatchee Road to accommodate 11-foot paved lanes (one in each direction), a raised median, bicycle lanes on each side of roadway, and sidewalks on the south side of the roadway. Protean also accommodated the full design of three single-lane roundabouts to address needs of the City of Parkland, a project stakeholder. This project was unique in the fact that there are several funding sources, which require great coordination, including the City of Parkland, Broward County, Broward County Metropolitan Planning Organization (MPO), and FDOT District 4.

FDOT District 4, SW 56th Avenue from Pembroke Road to Stirling Road, Broward County, FL; Project Engineer. This complete-streets mobility project includes the widening, milling, and resurfacing of SW 56th Avenue to add 7-foot buffered bicycle lanes for the length of the project. ADA ramp improvements, signing and pavement markings, and replacement/installation of new signage, as necessary to conform to MUTCD and current Greenbook Design Standards, is included in the contract. The key issue of this project is coordination; we are coordinating with the City of Fort Lauderdale and Broward County for their preferences and standards, Broward County Metropolitan Planning Organization (MPO) since they are funding a portion of the project, and FDOT District 4 as the client and project facilitator.

FDOT District 5, Metropolitan Planning Organization (MPO) Plans Review, Districtwide; Project Engineer. Protean Design Group, as a subconsultant, is supporting the District on review of plans submitted to the District from local MPOs. Protean will review plans submitted by the five MPOs in the District, including draft and final plans for Transportation Improvement Plans (TIPs), Long-Range Transportation Plans (LRTPs), and LRTP Needs Plans. Support provided under this TWO includes comparison of the current proposed plans to the previously adopted plans (including FDOT Work Program and MPO Cost Feasible Plans), reviewing supporting analysis of existing and future conditions, coordination with the District Model staff regarding the updated 2045 Central Florida Regional Planning Model (CFRPM) and comparison to the MPO supporting analysis, coordination with the District SIS unit regarding any planned and funded improvements to SIS corridors, reviewing MPO process for addressing future technology (eg: connected and automated vehicles [CAV]), reviewing the quality of the plans, and reviewing plans to ensure planning consistency.

FDOT District 5, SR 40 from CR 314 to CR 314A, Marion County, FL; Design Engineer.* This 6.00-mile-long capacity project reconstructed a two-lane roadway to a four-lane divided highway and a 12-foot shared-use path through the Ocala National Forest. The project consisted of 13 wildlife crossings, including two pairs of 50-foot bridges and three pairs of 400-foot bridges. A large amount of existing road was milled and resurfaced and widened. Six drainage basins were included in the project limits, including three direct runoff basins where vegetated natural buffers (VNB) were used, and runoff was permitted to flow into the forest with minimal treatment. Since four floodplains were impacted by the project, floodplain compensation volume calculations and cross sections were prepared. The project included extensive coordination with the U.S. Forest Service, Florida Department of Environmental Protection (FDEP), St. Johns River Water Management District (SJRWMD), and Florida Fish and Wildlife Conservation Commission (FWC). Ms. Rossi was responsible for superelevation calculations, roadway sheet production, 3D corridor modeling, wetland sketches, pond detail sheets, ditch tabs (volume calculations), erosion control, base clearance profile design, floodplain compensation volume calculations and cross sections, pavement design, and temporary traffic control plans (TTCP).

protean DESIGN GROUP

ALEXANDER HINKLE, PE

PRELIMINARY ENGINEERING PLANS/STREETLIGHT STUDIES/DESIGN

13 Years of Experience
11 years with Protean

Education
BS, Civil Engineering,
University of Central Florida, 2011

MS, Engineering Management,
University of Central Florida, 2017

Registrations
Professional Engineer,
No. 82354, Florida, 2017

Certifications
IMSA Fiber Optics Technician – Level I

Advanced MOT

*prior to joining Protean

Mr. Hinkle has 13 years of experience in traffic operations and transportation engineering. He has provided lighting, signing, pavement markings, signal, intelligent transportation systems (ITS), roadway, and temporary traffic control plan (TTCP) design for a variety of Florida Department of Transportation (FDOT) projects across the State of Florida.

Mr. Hinkle's career has focused around improving safety for vehicular, pedestrian, and bicyclist facilities, which has been achieved through understanding the safety and operational issues at hand and then developing the best design solution. As engineer-of-record (EOR) for multiple intersection improvement and RRR projects throughout the State, Mr. Hinkle has provided safety/operational reviews and prepared RRR reports outlining project deficiencies, safety concerns, and recommendations of improvements for numerous projects.

PROJECT EXPERIENCE

FDOT District 5, SR 46 from SR 500 (US 441) to Vista View Lane (Wekiva Parkway Segment 3B), Lake County, FL; Project Engineer. Protean Design Group served as a subconsultant and provided signing, pavement markings, signalization, and lighting services for the reconstruction of SR 46, a six-lane divided controlled access roadway, and the new intersection at SR 500 (US 441) with a separated flyover from SR 500 (US 441) to SR 46. Protean Design Group's tasks included design of new directional cantilever and overhead signs, loop installation, lighting, signal heads on the bridge deck, sight clearance, and pavement markings. Mr. Hinkle led Protean's efforts.

FDOT District 5, SR 50 from SR 33 to 12th Street, Lake County, FL; Project Engineer. Protean Design Group was responsible for the milling and resurfacing of 4.52 miles of SR 50 from SR 33 in Groveland, FL to west of 12th Street in Clermont, FL. This roadway was classified as a major arterial and two typical sections were utilized—1.00 mile of four-lane urban divided highway with curb and gutter, raised grass median, bicycle lanes, and 5-foot sidewalk and 3.52 miles of four-lane rural divided highway with 4-foot paved outside shoulders and grass median with a ditch. Shoulder widening was required to include keyholes and bicycle facilities. A unique aspect of this project involved the use of polymer modified asphalt (PMA), which provided a cost-effective solution to alleviate the rutting of asphalt due to the heavy truck traffic. Protean was responsible for signing, pavement markings, loop replacements, pedestrian features, drainage improvements, sidewalk extensions, and guardrails. To meet safety standards, guardrail extensions were performed as well as replacement of three-beam guardrail. Pedestrian conveyances plans were included in the temporary traffic control plan (TTCP) due to heavy pedestrian traffic in the area and tight right-of-way (ROW). Protean led the Community Awareness Plan (CAP) Level 2 efforts, which included informing the local residents of a future bypass coming and to educate them that this project was not the bypass project. We coordinated with Lake County, the City of Groveland, and the City of Clermont.

FDOT District 5, SR 500 (US 441) from Griffin Road to Martin Luther King Boulevard, Lake County, FL; Project Engineer. Protean Design Group provided designs for this milling, resurfacing, and widening project that included 1.10 miles of SR 500 (US 441) from Griffin Road to Martin Luther King Boulevard through Leesburg, FL. The existing roadway was a seven-lane undivided facility that was proposed to be converted to a six-lane divided urban road with bicycle lanes and sidewalks on both sides. The project also included the design of two stormwater ponds, two signalized intersections, and significant utility coordination. One public meeting was held, and extensive coordination was required with locals. Due to right-of-way (ROW) acquisition and utility concerns, the project was re-scoped between Phase II (60%) and Phase III and converted to a sidewalk improvement only project.

FDOT District 5, SR 500 from Perkins Street to Griffin Road, Lake County, FL; Project Engineer. This project involved the widening and reconstruction of SR 500 between Perkins Street and Griffin Road in Leesburg, FL. The project consisted of widening SR 500 from four to six lanes along with the realignment of northbound US 27 to create a 'T' intersection with SR 500. Additionally, the project included drainage design and permitting, signal designs at four intersections, and signing and pavement marking design. An intricate temporary traffic control plan (TTCP) was also developed to minimize impact in the area during construction. The complexity of the project necessitated extensive coordination with residents, business, government, and utility agency owners (UAO).

protean DESIGN GROUP

LEONARD BARDEN, PE

TRAFFIC SIGNAL DESIGN/STREETLIGHT STUDIES/DESIGN

9 Years of Experience
1 year with Protean

Education
BS, Civil Infrastructure Engineering, George Mason University, 2012

Registration
Professional Engineer
No. 90031, Florida, 2020

Certifications
VDOT Advance Work Zone Traffic Control Training

VDOT Certified Work Zone Traffic Control Training Instructor

Advanced MOT

*prior to joining Protean

Mr. Barden has experience in traffic operations studies, traffic signal design, maintenance of traffic, and safety review. He has acted as liaison to clients facilitating project management with contractors. He has worked with signing and pavement marking teams for interstate and express lanes. His traffic operations experience includes bus rapid transit studies, experimental traffic control, and corridor wide safety analysis.

PROJECT EXPERIENCE

FDOT District 1, Minor Design Consultant and Resurfacing Consultant (4 Contracts), Districtwide; Project Engineer. Protean Design Group, Inc. provided services for this TWO-based contract including milling and resurfacing, roundabout, sidewalk, safety improvements, roadway design, drainage, signing and pavement marking, lighting, lane extensions, and median reconstruction. Tasks include:

- **SR 600 (US 17/92) from East Hinson Avenue to Johnson Avenue, Polk County.** Protean Design Group provided services for pavement design, in accordance with the Flexible Pavement Design Manual, with the purpose of reconstructing the side streets from the mainline edge of travel to the back of the returns to accommodate the sidewalk crossings located on the east side of SR 600 from south of Hinson Avenue to Johnson Avenue. The pavement was described in a memorandum format.

- **SR 45 (US 41B) at Bayshore Road/26th Street Keyholes and 23rd Street, Manatee County.** Protean Design Group provided milling and resurfacing services for US 41 Business from 17th Street to Bayshore Road. An intersection modification was designed for the intersection of US 41 Business and 23rd Street from a full median opening to a one-way directional median opening. At US 41 Business (SR 45) and 26th Street/Bayshore Road the intersection was modified from a full opening to a directional, along with the removal of a flashing beacon and closure of one median opening, and modification of another median opening to a directional with a U-tun apron on US 41 Business south of the 26th Street intersection. The project also included guardrail improvements, driveway improvements, ADA improvements, minor drainage improvements, pedestrian signal upgrades, and signing and pavement markings.

FDOT District 1, SR 64 (6th Avenue) from 10th Street West to 10th Street East, Manatee County, FL; Traffic Engineer. Protean is leading the milling and resurfacing SR 64 from 10th Street West to 10th Street East and SR 64 from 43rd Street West to 15th Street West. The proposed designs consist of replacing existing ADA curb ramps as well as curb and gutter. Existing driveways are being evaluated for removal or width reduction. Traffic signals at 26th Street West, 10th Street West, 1st Street, and 9th Street East are being replaced as well as the detection loops and signal backplates for the remaining signals. The pedestrian signals at 43rd St W and 39th St W are being upgraded while lighting along both corridors is replaced from HPS to LED. Bike lanes will be added to the section of SR 64 from 10th Street West to 10th Street East.

FDOT District 2, SR 5/US 1 from Ponce de Leon Boulevard to Cross Ridge Drive, St. Johns County, FL; Project Engineer. Protean Design Group provided services for this project located in St. Johns County, which included the milling and resurfacing of SR 5 from just south of the North City Gates to just north of Cross Ridge Drive. The main intent of this project was to preserve the roadway integrity. Additional project elements included ADA upgrades, minor drainage modifications, driveway modifications to prevent erosion, preventative measures to prevent over tracking, signing and pavement markings, bicycle lane keyholes, and signal upgrades.

City of Alexandria, ITS Integration Phase III, Alexandria, VA; Lead Transportation Engineer.* Mr. Barden was tasked with developing The City of Alexandria's Intelligent Transportation System (ITS) Integration phase III. Phase III included the development of CCTV Cameras, RWIS, Fiber Optic communication links to the existing traffic signal cabinets, New Fiber lines and conduits, the expansion of the TMC video wall, real-time conditions map, and a physical inventory of all existing conduits, cables runs, cameras, and weather sensors. Mr. Barden prepared base mapping plans using The City of Alexandria's existing GIS maps. The base mapping included the design of 10 segments within the city, as well as existing fiber, new fiber, and 11 CCTV camera locations.

protean DESIGN GROUP

ELIZABETH WILSON, PE

INTERSECTION DESIGN

4 Years of Experience
4 years with Protean

Education
BS, Civil Engineering,
University of Florida, 2016

Registration
Professional Engineer,
No. 92034, Florida, 2021

*prior to joining Protean

Ms. Wilson is a project engineer at Protean Design Group. She has gained experience with transportation engineering, including working on major and minor roadways to design signing and pavement markings, signals, and lighting, and has coordinated with utilities and maintaining agencies. She has assisted on roadway and traffic design projects for the Florida Department of Transportation (FDOT) statewide during her time with Protean. She has a working knowledge of FDOT standards and regulations.

PROJECT EXPERIENCE

FDOT District 4, Loxahatchee Road from Arthur Marshall Loxahatchee Refuge to SR 7 (US 441), Broward County, FL; Project Engineer. Protean Design Group designed plans to widening, mill, and resurface 6.15 miles of Loxahatchee Road to accommodate 11-foot paved lanes (one in each direction), a raised median, bicycle lanes on each side of roadway, and sidewalks on the south side of the roadway. Protean also accommodated the full design of three single-lane roundabouts to address needs of the City of Parkland, a project stakeholder. This project was unique in the fact that there are several funding sources, which require great coordination, including the City of Parkland, Broward County, Broward County Metropolitan Planning Organization (MPO), and FDOT District 4.

FDOT District 4, SW 56th Avenue from Pembroke Road to Stirling Road, Broward County, FL; Project Engineer. This complete-streets mobility project includes the widening, milling, and resurfacing of SW 56th Avenue to add 7-foot buffered bicycle lanes for the length of the project. ADA ramp improvements, signing and pavement markings, and replacement/installation of new signage, as necessary to conform to MUTCD and current Greenbook Design Standards, is included in the contract. The key issue of this project is coordination; we are coordinating with the City of Fort Lauderdale and Broward County for their preferences and standards, Broward County Metropolitan Planning Organization (MPO) since they are funding a portion of the project, and FDOT District 4 as the client and project facilitator.

FDOT District 5, A1A (Astronaut Boulevard) at McKinley Avenue/Holman Avenue, Center Street/Buchanan Avenue, Atlantic Avenue, and SR 5/US 1 at SR 508 (NASA Boulevard) and Cherry Street, Brevard County, FL; Traffic Engineer. This contract included intersection improvements at five intersections within Brevard County – three intersections along A1A and two intersections along SR 508 (NASA Boulevard). Along A1A, we replaced the existing strain poles with mast arms at the intersections of McKinley Avenue/Holman Avenue, Center Street/Buchanan Avenue, and Atlantic Avenue and provided ADA upgrades. Along SR 5/US 1, we upgraded the intersections at SR 508 (NASA Boulevard) and Cherry Street from strain poles to mast arms. Additional improvements included pedestrian signal upgrades, curb ramp and sidewalk modifications, replacement of an existing ditch bottom inlet and regrading of the drainage swale, and associated signing and pavement markings. A detailed pedestrian conveyance plan was also included in the TTCP to allow for the safe access of pedestrians during construction activities.

FDOT District 5, SR 46 from Orange Boulevard to I-4 (Wekiva 7B) ASC and ITS Deployment, Seminole County, FL; Project Engineer. This widening and reconstruction of SR 46 to a six-lane divided urban roadway tied into the recently completed I-4/SR 46 interchange improvements to the east and the Wekiva Section 7A project to the west. The project typical section included a raised median, three travel lanes in each direction, turn lanes, bicycle lanes, curb and gutter, and sidewalk. Final design included drainage, stormwater management, pond design, environmental permitting with Florida Department of Environmental Protection (FDEP) and Army Corps of Engineers (ACOE), signing and pavement markings, replacement of mast arm signals, lighting for the entire project limits, intelligent transportation systems (ITS), a community awareness plan (CAP) Level 3 public involvement effort, utility coordination, and geotechnical and environmental evaluations. As a part of the overall Wekiva Parkway project, public involvement and coordination with local stakeholders were significant project issues.

FDOT District 5, SR 600 (US 92) from I-4 Flyover to Tomoka Farms Road, Volusia County, FL; Project Engineer. The project consisted of widening SR 600 (US 92) from an existing four-lane road to a six-lane highway from east of the I-4 flyover ramp to Tomoka Farms Road. Protean Design Group served as a subconsultant and provided traffic engineering and operation services for this 2.55-mile project. Protean Design Group was responsible for the design of seven multi-post signs, two overhead signs, upgrading LPGA Boulevard and Tomoka Farms Road from strain poles to mast arms, and light pole relocations.

protean DESIGN GROUP

KAREN VAN DEN AVONT, PE

SIDEWALK DESIGN

34 Years of Experience
13 years with Protean

Education
BS, Civil Engineering,
University of Illinois, 1986

Registration
Professional Engineer,
No. 44794, Florida, 1991

Certifications
FDOT Specification Package Preparation

FDEP Certified Erosion Control Inspector

Advanced MOT

*prior to joining Protean

Ms. Van den Avont has vast experience in roadway design, drainage design, and permitting. She has worked on numerous major, minor, and interstate design projects including drainage, permitting, roadway widenings, reconstructions, milling and resurfacings, signing and pavement markings, shoulder construction, signalization, sidewalk and ADA improvements, and guardrail. Ms. Van den Avont is also experienced using various design software packages, including MicroStation, GEOPAK, ASAD, Advanced ICPR, HY-8, HEC-RAS, and PONDS.

PROJECT EXPERIENCE

FDOT District 4, Loxahatchee Road from Arthur Marshall Loxahatchee Refuge to SR 7 (US 441), Broward County, FL; Project Engineer. Protean Design Group designed plans to widening, mill, and resurface 6.15 miles of Loxahatchee Road to accommodate 11-foot paved lanes (one in each direction), a raised median, bicycle lanes on each side of roadway, and sidewalks on the south side of the roadway. Protean also accommodated the full design of three single-lane roundabouts to address needs of the City of Parkland, a project stakeholder. This project was unique in the fact that there are several funding sources, which require great coordination, including the City of Parkland, Broward County, Broward County Metropolitan Planning Organization (MPO), and FDOT District 4.

FDOT District 5, Local Agency Program (LAP) Continuing Services Contract (CSC), Districtwide; Project Engineer. Protean Design Group is the prime consultant for this task work order (TWO)-driven project that specializes in providing study, design, and final acceptance of funds for local agency program (LAP) projects within FDOT District 5. Within FDOT District 5's boundaries, 27 local agencies prioritize and fund local projects through their metropolitan/transportation planning organization (Lake Sumter-MPO, Space-Coast TPO, MetroPlan Orlando MPO, Marion-Ocala MPO, and River to Sea TPO). Compliance with Federal requirements allow the LAP-certified agencies to be reimbursed using Federal funding. FDOT District 5–through Protean's contract–provides oversight of these LAP projects on behalf of the FHWA and manages the federal funds. This contract includes TWO assignments that encompass finalizing the scope, coordinating with the local agency, and completing the final design—including plans, specifications, and cost estimates—of LAP projects. Assignments vary and include sidewalk and bicycle improvements, safety and intersection projects, trails, and other traffic improvement projects.

- **Lakeshore Drive (Pine Ridge Elementary) Sidewalk Improvements, Lake County.**
- **Sunset Drive, Casselberry, FL.**

FDOT District 5, SR 46 from Orange Boulevard to I-4 (Wekiva 7B) ASC and ITS Deployment, Seminole County, FL; Drainage Engineer. This widening and reconstruction of SR 46 to a six-lane divided urban roadway tied into the recently completed I-4/SR 46 interchange improvements to the east and the Wekiva Section 7A project to the west. The project typical section included a raised median, three travel lanes in each direction, turn lanes, bicycle lanes, curb and gutter, and sidewalk. Final design included drainage, stormwater management, pond design, environmental permitting with Florida Department of Environmental Protection (FDEP) and Army Corps of Engineers (ACOE), signing and pavement markings, replacement of mast arm signals, lighting for the entire project limits, intelligent transportation systems (ITS), a community awareness plan (CAP) Level 3 public involvement effort, utility coordination, and geotechnical and environmental evaluations. As a part of the overall Wekiva Parkway project, public involvement and coordination with local stakeholders were significant project issues.

FDOT District 1, Anna Maria/Holmes Beach Sidewalk Projects, Manatee County, FL; Lead Project Engineer. This project involved evaluating 3,000 feet of existing sidewalk and design of sidewalk replacements and ADA improvements/upgrades for six locations in the Cities of Holmes Beach and Anna Maria. The project was performed using American Recovery Reinvestment Act (ARRA) stimulus funding and was completed in less than 2 months from Notice to Proceed (NTP). Protean was responsible for sidewalk design, coordination with local agencies, preparation of specifications, and construction cost estimates.

Corey Bevis, PE

Traffic Engineer

- **EDUCATION**
  MS/Transportation Engineering/University of Central Florida/2013
  BS/Civil Engineering/Embry-Riddle Aeronautical University/2010
- **REGISTRATION/CERTIFICATIONS**
  Professional Engineer – Florida
  License No. 84449 (Issued 01/2018)
  Professional Engineer – Pennsylvania
  License No. 92207 (Issued 05/2021)
- **EXPERIENCE** 9 Years

Corey Bevis has 9 years of experience in traffic engineering, Intelligent Transportation Systems (ITS), and traffic operations and safety studies. His experience has spanned various categories of traffic engineering such as ITS, traffic operations studies, traffic signals, signing & pavement marking design, traffic control plans, and roundabout and interchange highway lighting design. He is familiar with Florida Dept. of Transportation (FDOT), Central Florida Expressway Authority (CFX), Pennsylvania Dept. of Transportation (PennDOT), MUTCD, and AASHTO standards, procedures, and manuals. He also has project experience using AutoCAD, MicroStation, Visual Lighting 2017, & HCS software, and his technical training includes IMSA Fiber Optic training, IMSA Work Zone Temporary Traffic Control training, and Highway Lighting Training. His work has supported projects in FDOT Districts 1, 4, 5, 6, and 7.

Relevant Project Experience:

Regional Transportation Management Center (FDOT-5), Seminole County, FL – Transportation Analyst
Assisted his previous firm with design of the outside plant (OTP) fiber optic network for the new RTMC. Design included fiber optic network connections between the new RTMC and existing FDOT District 5 communication nodes. Required extensive coordination with FDOT and Seminole County staff to facilitate the use of existing fiber optic cable infrastructure and networking equipment.

Interstate 75 Sumter Marion Intelligent Transportation System (ITS) Design (FDOT-5), Sumter & Marion Counties, FL – Transportation Analyst
While at his previous firm, completed the design of the ITS component plans set for the Sumter Marion Intelligent Transportation System, a 28-mile freeway reconstruction design/build project. Work was completed in three segments: (1) I-75 south of Florida's Turnpike to north of US 27; (2) I-75 from the Hernando County Line to State Road 48; and (3) I-75 from SR 48 to south of Florida's Turnpike. ITS design included fiber optic communications, CCTV Cameras, MVDS devices, and Dynamic Message Signs. Project design was part of a design/build project.

Wekiva Parkway Section 7A (FDOT-5), Seminole County, FL– Transportation Analyst
Lead designer at his previous firm on the ITS component plan set for the project, which included typical freeway ITS devices, including a fiber optic communication network, CCTV Cameras, MVDS devices and Dynamic Message Signs.

DCS Replacement (CFX), Orange County, FL– Transportation Analyst
While working with his previous firm, completed the drafting and various design components of the Data Collection System (DCS) Replacement Project and delivered final plans to CFX.

DMS Replacement Project (FDOT-6), Miami, FL – Transportation Analyst
With his previous firm, completed field work, drafting, and various design components of the Dynamic Message Sign (DMS) Replacement Project on I-95 & I-195 in Miami. Design services were provided as part of the design/build project.

Orange Blossom Trail (US 441) CCTV Camera & Fiber Optic Cable Installation, Orange County, FL– Transportation Analyst
Working with his previous firm, he completed the design of Orange Blossom Trail CCTV System for Orange County. The project included installation of fiber optic cabling, CCTV cameras, and Ethernet networking equipment along approximately 5 miles of Orange Blossom Trail from Sand Lake Road (SR 482) to Kaley Avenue. The CCTV cameras and fiber optic cabling installed will provide Orange County a means to monitor major intersections along the Orange Blossom Trail corridor and provide interconnect for the existing traffic signals. Project included a significant amount of field review to document existing equipment and fiber optic cabling, along with coordinating with Orange County to ensure that the agencies goals were met by the project.

Richard Butala

Transportation Planner

- **EDUCATION**
  B.S./Environmental Resource Management/ Pennsylvania State University/1986
- **EXPERIENCE**
  34 Years

Richard Butala has over 34 years of experience as a Transportation Planner. He has successfully led and completed studies for small scale intersection and bridge replacement projects, to a variety of roadway/bridge improvements projects, to large scale limited access facilities on new location. He is experienced with developing, analyzing, and preparing studies for complete streets and multi-model transportation modes; pedestrian, bike and trail planning and design; large facility managed-lane alternatives; and the applications of new and smart technologies. He has successfully led and has been the main author of numerous transportation planning studies, feasibility, and corridor studies, and NEPA environmental clearance documents for State Departments of Transportation and municipal clients. He is very well versed in all aspects of the transportation project development and delivery process from project planning and programming, funding, and grant preparation; to scoping and contracts; to all types of analyses and technical writing/plan preparations along with sustainability and resilience planning for a wide range of applications.

Relevant Project Experience:

Traffic and Transportation General Planning and Engineering Consultant, Lake County, FL – Contract Manager for this county-wide on-call services contract that provides for a wide range of traffic and transportation study and design projects. Work tasks could include environmental, traffic and design services for roadways, bike lanes, sidewalks, intersections and safety needs including pedestrian crossings, lighting and speed studies.

Professional Engineering Services Contract, City of North Port, FL - Managed and was Lead Transportation Planner for this on-call services contract that provides for a wide range of transportation study and design projects throughout the City. Work included environmental, traffic and design services for roadways, intersection improvements, sidewalks, trails and planning needs.

Transportation Projects Funding Analysis, Winter Haven, FL - Project Manager/Lead Planner that directed and prepared a comprehensive funding analysis including estimating design and construction costs needed for all of the future transportation studies, roadway/intersection and trail projects identified within the City of Winter Haven. Assisted the City in prioritizing projects to be included in the overall City budget and for future project programming.

Quiet Zone Transportation Study, Winter Haven, FL - Project Director/Chief Planner that directed and assisted in the technical studies involving the analysis of 11 CSX rail crossing located throughout the City of Winter Haven and Polk County. The project involved coordinating efforts with the City, Polk County, FDOT Rail Division, CSX and the Federal Rail Administration to create two different quiet zones in urbanized areas along an active commercial rail line.

Rosery Road Phase 1 Improvements (Complete Street), City of Largo, FL - Lead Transportation Planner for this complete street project assisting in the development of multimodal project elements including: roadway/drainage improvements, bike lanes, pedestrian safety improvements, mid-block crossings, drainage improvements, rail crossing and utilities upgrades, landscape and aesthetics and extensive neighborhood/public involvement. Analyzed the needs of numerous planned and new development throughout the project area.

Environmental Vulnerability Study and Adaptation Plan, Village of Miami Shores, FL - Lead Planner that provided work on data collection, technical analysis, and document preparation for this Environmental Vulnerability Study. This study focused on identifying the effects of sea level rise, tidal flooding and storm surge along with identifying the key infrastructure components within the “at-risk” areas and then developing and evaluating numerous adaptation strategies along with planning phases for funding for public facilities and assets.

Hazard Mitigation Grant Program Application Assistance, Polk County, FL - Chief Planner that performed research, data collection and planning efforts for the preparation and development of this countywide grant applications for providing auxiliary power and the relocation of sanitary sewer lift stations throughout the County. This effort included developing and analyzing a range of mitigation alternatives based on long-term costs, feasibility, and potential environmental impacts and preparing short, mid and long-range plans for funding and implementation.

Roberto Miquel, AICP

Traffic/Travel Demand Modeler

Roberto Miquel, AICP, is a transportation planner and travel demand modeler with 18 years of experience. Roberto's work has included updating and enhancing statewide travel demand models, including the North Carolina Statewide Travel Model, developing small urban area and MPO models, conducting project-level traffic forecasts, generating user benefits for project prioritization, and delivering travel demand model training courses. He has also served as the technical lead for hurricane evacuation studies in Florida, Virginia, Delaware, and Maine.

- **EDUCATION**
  BA/Anthropology / Florida State University/ 2000
  MSP/Urban & Regional Planning / Florida State University/2003
- **REGISTRATION/CERTIFICATIONS**
  American Institute of Certified Planners
  No. 023147 (Issued 02/2009)
- **EXPERIENCE**
  18 Years

Relevant Project Experience:

FSUTMS Comprehensive Modeling Workshop, Tallahassee, Florida

As Lead Instructor, Mr. Miquel has taught the Florida Department of Transportation's Florida Standard Urban Transportation Modeling Structure (FSUTMS) Comprehensive Modeling Workshop to members of the modeling profession in the State of Florida. This workshop is a 32-hour week-long training workshop in which the participants are taught the fundamental components of travel demand modeling in Florida. Topics covered include trip generation, trip distribution, mode choice, trip assignment, corridor analysis, modeling for site impact analysis, modeling for LRTP preparation, and transit. The workshop combines lectures with hands-on modeling exercises using the Cube travel demand modeling software.

Florida Emerging Markets, Tallahassee, Florida

As Senior Modeler, Mr. Miquel oversaw the travel demand modeling and scenario analysis for an emerging markets study in Florida. The emerging markets study defined four alternative market scenarios that could affect seaport activities throughout the state and estimated market impacts in terms of cargo tons processed at each of the ports. Those tonnages were then converted into Florida Statewide Model inputs and each of the scenarios were analyzed to determine impacts to the highway network due to changes in truck flows. The results of each of the scenarios were compared to each other to identify which corridors could anticipate heavy impacts regardless of the scenario.

Transportation Interface for Modeling Evacuations, Jacksonville, Florida

As Project Manager, Mr. Miquel had led the development, maintenance, and application of Florida's Transportation Interface for Modeling Evacuations (TIME) since 2014. Prior to that as a senior modeler, he assisted in the design and development of TIME and led the use of TIME to calculate evacuation clearance times for all of Florida's Regional Planning Councils. TIME is an ArcGIS-based interface front-end with a Cube travel demand modeling software back-end used to calculate evacuation clearance times throughout the state of Florida.

Florida Evacuation Model Integration, Tallahassee, Florida

Mr. Miquel is currently assisting the Florida Department of Transportation with integrating the Transportation Interface for Modeling Evacuations (TIME) with the Florida Statewide Travel Demand Model. Mr. Miquel originally developed TIME for the Florida Division of Emergency Management, but the Department is now seeking to use the tool as part of an integrated transportation planning platform. Mr. Miquel's responsibilities include advising on survey instrument design, providing guidance on the origin elements of TIME, assessing the feasibility of developing a dynamic demand model from the survey and developing such a model. A dynamic demand model simultaneously determines the decision to evacuation along with the temporal profile as opposed to the traditional method of first determining overall demand and then allocated demand to a temporal profile.

Tim Preece, AICP, CTP

Transportation/Transit Planner

Mr. Preece has 30 years of experience in a wide range of transportation and transit planning, including corridor studies, areawide plans, transit operations planning, environmental planning and project development. He has successfully managed numerous multimodal, inter-agency projects through planning, concept development and environmental planning. Mr. Preece is a registered planner with the American Institute of Certified Planners and has obtained the Certified Transportation Planner specialty certification.

- **EDUCATION**
  BS/Geography and Environmental Planning/ Towson University/1990

  BS/Economics/Towson University/1990
- **REGISTRATION/CERTIFICATIONS**
  American Institute of Certified Planners
  No. 011676 (Issued July 1995)
- **EXPERIENCE**
  30 Years

Relevant Project Experience:

I-10/I-110/Davis Highway Interchange Modification Report (IMR), FDOT, Pensacola, FL
Project Manager for the preparation of an IMR for FDOT. Proposed major interchange modification that involved development of collector/distributor lanes between two closely spaced interchanges.

SR-A-1-A Corridor Study; Florida Department of Transportation, Martin County, FL
Performed transportation modeling, traffic forecasting and alternatives analysis for improvements to this mixed corridor. Analysis included specific trip generation studies including a power plant, condominiums, and commercial uses.

Traffic Forecasting and Transportation Analyses for SR-5 (US-1) PD&E Study; FDOT, Martin County, FL
Project Planner that developed design alternatives in support of this corridor study. Traffic forecasting utilized FDOT's FSUTMS transportation model. Analysis of alternatives included assessment of environmental and design constraints, safety analysis, and traffic operations.

US-1 Corridor Evaluation; Florida Department of Transportation, Dania, FL
Provided traffic operational analysis of a densely developed corridor in Broward County. The study sought to establish baseline conditions within the corridor and identify short-range mitigation measures to improve traffic operations.

On-Call Consulting Services and Regional Transit Development Plan, Three Rivers Regional Commission, Griffin, GA
Senior Transit Planner that analyzed operational data, develop FTA-required plans and policies, and prepare a regional transit financial plan.

Managed Lane Express Bus Plan, Washington, D.C.
Senior Transit Planner that developed an expanded express bus plan which will complement Maryland DOT's I-495 / I-270 managed lane project.

Baltimore MTA Battery Electric Bus Facility Requirements; Baltimore, MD
Researcher and principal author of an addendum to MTA's Facility Master Plan to address potential future Battery Electric Buses (BEBs)

AppalCART Transit Development Plan; Boone, NC
Senior Transit Planner on a Transit Development Plan for AppalCART in Boone, North Carolina.

Aerotropolis Transit Feasibility Study; Atlanta, GA
Project Manager and Senior Transit Planner that developed a transit master plan within the Atlanta Aerotropolis.

Last Mile Connectivity Implementation Plan – Mt. Vernon Highway; Sandy Springs, GA
Lead Transit Planner that developed a concept and plan for shuttle service between the City's new City Center and the Sandy Springs MARTA rail station.

James Ritchey

Transit Manager/Planner

Mr. Ritchey is a transit manager/planner who has worked for WRA for over 9 years. Prior to joining WRA, he spent 37 years developing transit services throughout the southeastern states. During his career, he has completed transit development plans (TDPs), comprehensive service reviews (CSR), and bus fleet management plans (BFMP) and has led transit agencies through system start-up, operations, and facility design. An expert in FTA grants and compliance, he has developed and executed more than $250 million of FTA grants and has successfully navigated agencies through multiple compliance reviews.

- **EDUCATION**
  BA/History/University of Virginia

  MS/Management Science/North Carolina State University
- **EXPERIENCE**
  46 Years

Relevant Project Experience:

Union County Community Connectivity Plan, NCDOT, Monroe, NC - Southeast of Charlotte, Union County is one of North Carolina's fastest growing counties. Union County has transitioned from being primarily rural to mostly urbanized with 70% of the county located in the Charlotte urbanized area. The Community Connectivity Plan follows a TDP format with work shared between the consulting team and NCDOT's data managers. Mr. Ritchey was the Project Manager and evaluated the need for transit service, available funding, alternative funding sources and long term service investments.

Three Rivers Regional Commission, Griffin, GA - TRRC is a 10-county regional planning organization headquartered in Griffin, Georgia. Mr. Ritchey has been the Project Manager for a regional TDP / transit financial plan. The work included creation of a new service contractor request for proposal (RFP) that combines the 5311 and DHS programs. He has prepared financial plans and assisted TRRC respond to a GDOT Agreed-Upon Procedures Report. Mr. Ritchey and his team developed a cost model for each of the Three Rivers counties to forecast operating costs, eligible funding and local share while testing service models and changing urban/rural classifications.

AppalCART Comprehensive Service Review, Boone, NC – AppalCART serves Watauga County, North Carolina including Appalachian State University (ASU). The fare-free system includes 13 fixed routes serving the Town of Boone and ASU as well as 10 dial-a-ride routes serving rural Watauga County. Mr. Ritchey led the TDP / CSR using an on-board survey, detailed route evaluation and community meetings. The on-board survey had 1,130 responses while an on-line Survey Monkey survey had 228 responses. The new service design included changes to most of the routes including connecting services crosstown and improving frequencies on overcrowded lines. With the new service design, Fall 2019 ridership was up 12% with record high ridership during October. Conceptual designs and cost estimates were developed for a Rivers Street Transit Center, West Boone Park and Ride and expanded bus and employee parking. The final report included an evaluation of electric bus, long-range capital and operating plan and evaluation of alternative funding methods.

RideOn Bus Fleet Management Plan (2014, 2017 and 2020), Montgomery County DOT, Rockville, MD - The BFMP has served as the TDP for the 350 bus Ride On system. Mr. Ritchey was the Project Manager for the 2014 BFMP and 2017 and 2020 updates. Since starting as a feeder bus service to Washington's Metro, Ride On has grown to its current 311 peak vehicles on 78 different bus routes and 88,000 average daily boardings. He developed a strategic service plan for Ride On and reviewed service plans, fleet replacement schedules, facility improvements, vehicle maintenance procedures and long-term capital project budgets. Ride On has begun to deploy electric buses including four Proterra 35' electric buses and plans to purchase 10 electric buses annually until reaching 64 electric buses in 2025. The County has added a new electric service at the Brookville Depot for the first 14 buses including a 3,000-amp panel capable of supporting 14 depot chargers. Mr. Ritchey reviewed the County's electric bus implementation including daily service range, bus axle weight, bus depot and on-route charging infrastructure, electric bus maintenance, utility bill analysis and projected electric costs, vehicle emission reductions, and benefit cost analysis.

Ernest (Randy) Spradling, PE, PTOE

Traffic/Lighting Engineer

Mr. Spradling is a Registered Professional Engineer in four states, a Certified Professional Traffic Operations Engineer, and an IMSA-certified Level II Traffic Signal Technician, Traffic Signal Inspector, and Level I Roadway Lighting Technician with more than 40 years of traffic engineering and transportation planning experience. His experience includes serving as the District Traffic Design Engineer for FDOT District 1 managing a team of designers of traffic component plan sets for roadway projects with a focus on roadway lighting, signalization, and signing/pavement marking plans. He has been responsible for engineering and management of state and local government development review, transportation planning, roadway facilities inventory, capital project management, and construction management functions. His design experience includes: project manager, analyst, and lead designer on over 200 intersections and signal systems in FL, OH, and WV; over 20 roadway and intersection lighting projects in FL and OH; and over 1,000 temporary work zone traffic control plans.

- **EDUCATION**
  BS/Civil Engineering/West Virginia Institute of Technology/1980
- **REGISTRATION/CERTIFICATIONS**
  Professional Engineer – Florida
  License No. 61235

  Registered Professional Engineer in OH, VA, and WV

  Professional Traffic Operations Engineer, TPCB (#2733, exp. 9-9-24)

  Temporary Traffic Control Advanced (Refresher), FDOT (#68943, exp. 1-8-25)

  Specifications Package Preparation, FDOT (exp. 1-12-2026)

  Roadway Lighting Technician Level I, IMSA (#RR_123726, exp. 3-2-24)

  Roadway Lighting Technician Level II, IMSA (#SS_123726, exp. 7-26-24)

  Traffic Signal Technician Level I, IMSA (#AA_123726, exp. 6-14-22)

  Traffic Signal Design/Engineering Technician Level II, IMSA (#BD_123726, exp. 2/1/2024)

  Traffic Signal Inspector, IMSA (#SI_123726, exp. 8-7-22)

  Traffic Signal Inspector for Advanced Technologies, IMSA (#AT_123726, exp. 8-7-22)

  FDOT ICE Manual for Analysts (2019, no exp.)

Relevant Project Experience:

Lake County – On-Call Transportation & Traffic Engineering, Lake County, FL
Senior Traffic Engineer/Engineer of Record under a continuing services contract that included various traffic operational studies, safety studies, signal inventories, traffic counts, intersection and collision diagrams, crash analysis, signal warrant and intersection analysis, travel time and delay studies, signal timing and implementation plans and pedestrian and bicycle studies, and traffic design services. Completed intersection lighting designs for the Treadway School Rd. & Camp Rd. and the Treadway School Rd. & Radio Rd. intersections, completed speed studies on Treadway School Rd. and on Villa City Rd, completed a traffic signal warrant analysis for the Old HWY 50 & Blackstill Lake Rd intersection. Worked on an access and operational study at the SR 19 & CR 44 intersection.

City of Eagle Lake – On-Call Development Application Review Services, Eagle Lake, FL
Provided site development plan and traffic impact study review services for development applications. Development applications reviewed include Ranches at McLeod PUD and Thousand Oaks PUD.

City of North Port – On-Call Professional Engineering Services, North Port, FL
Senior Traffic Engineer/Engineer of Record under a continuing services contract that includes various professional engineering services. Completed a signal warrant analysis and safety analysis for Price Boulevard at North Port High School/Heron Creek Middle School Main access.

City of Winter Haven – On-Call Professional Engineering Services, Winter Haven, FL
Senior Traffic Engineer/Engineer of Record under a continuing services contract that includes various professional engineering services. Completed traffic operational studies for Avenue O SE from 3rd St SE to 6th St SE and for N Lake Shipp Dr SW from west of Avenue Q SW to 15th St SW and 5th St SE from Avenue K SE to Avenue O SE, and 15th St SW from N Lake Shipp Dr SW to north of Roselawn Ave SW.

ATTACHMENT 4 **LOCATION PERCENTAGE OF WORK TO BE COMPLETED** 20-0940

Address of Prime Consultant's designated office where the majority of work will be performed	
Street	1615 Edgewater Drive, Suite 200
Street 2	
City	Orlando
State	Florida 32804

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)	40%

Address of Prime Consultant's other offices where work will be performed (if applicable)	
Street	111 Kelsey Lane, Suite E
Street 2	
City	Tampa
State	Florida 33619

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)	20%

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