



## SECTION 2: FORMS

**ATTACHMENT 1 – SUBMITTAL FORM****22-901**

The undersigned hereby declares that: H.W. Lochner, 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 a **North Lake Trail Phase 3 PD&E Study** for which Submittals were advertised to be received no later than 3:00 P.M. Eastern time on the date stated in the solicitation or as noted in an addenda. Furthermore, the undersigned is duly authorized to execute this document and any contracts or other transactions required by award of this Solicitation.

**1.0 TERM OF CONTRACT**

The Contract will commence upon the date of the purchase order or related Notice to Proceed. The Contract remains in effect until completion of the expressed and implied warranty periods. The County reserves the right to negotiate for additional services/items similar in nature not known at time of solicitation.

**2.0 PAYMENT**

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

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

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

Vendor accepts MasterCard for payment: NO

**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

## ATTACHMENT 1 – SUBMITTAL FORM

22-901

**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: Tampa, Florida
- B. Does the responding vendor maintain a significant physical location in Lake County at which employees are located and business is regularly transacted: NO If “yes” is checked, provide supporting detail: N/A

**9.0 GENERAL VENDOR INFORMATION:**

Firm Name: H.W. Lochner, Inc.  
 Street Address: 4350 West Cypress Street, Suite 800  
 City: Tampa State and ZIP Code: Florida, 33607  
 Mailing Address (if different): N/A  
 Telephone: 813.357.3750 Fax: N/A  
 Federal Identification Number / TIN: 36-2338811  
 DUNS Number: 08-819-7132

**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: *Don Skelton, PE* 

**ATTACHMENT 1 – SUBMITTAL FORM**

**22-901**

Date: 9/29/2021

Print Name: Don Skelton, PE

Title: Vice President | Principal-in-Charge

Primary E-mail Address: dskelton@hwlochner.com

Secondary E-mail Address: N/A

The individual signing this Submittal affirms that the facts stated herein are true and that the response to this Solicitation has been submitted on behalf of the aforementioned Vendor.

*[The remainder of this page is intentionally blank]*



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

## Detail by Entity Name

Foreign Profit Corporation  
H.W. LOCHNER INC

### Filing Information

**Document Number** 829045  
**FEI/EIN Number** 36-2338811  
**Date Filed** 11/21/1972  
**State** WI  
**Status** ACTIVE

### Principal Address

225 W. Washington Street  
12th Floor  
CHICAGO, IL 60606

Changed: 03/11/2014

### Mailing Address

225 W. Washington Street  
12th Floor  
CHICAGO, IL 60606

Changed: 03/11/2014

### Registered Agent Name & Address

CT CORPORATION SYSTEM  
1200 SOUTH PINE ISLAND ROAD  
PLANTATION, FL 33324

Name Changed: 12/21/2011

Address Changed: 12/21/2011

### Officer/Director Detail

#### **Name & Address**

Title Chairman

LOCHNER, HARRY WJR  
225 W. Washington Street  
12th Floor  
CHICAGO, IL 60606

NOVAK, BARBARA J  
225 W. Washington Street  
12th Floor  
CHICAGO, IL 60606

Title President

CORMIER, JEANNE  
225 W. Washington Street  
12th Floor  
CHICAGO, IL 60606

Title CFO

TOMLINS, PAULA  
225 W. Washington Street  
12th Floor  
CHICAGO, IL 60606

#### Annual Reports

<b>Report Year</b>	<b>Filed Date</b>
2019	02/21/2019
2020	01/02/2020
2021	01/25/2021

#### Document Images

<a href="#">01/25/2021 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/02/2020 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/21/2019 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/30/2018 -- AMENDED ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/15/2018 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/04/2017 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/09/2016 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/25/2015 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/11/2014 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/19/2013 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/21/2012 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">12/21/2011 -- Reg. Agent Change</a>	View image in PDF format
<a href="#">04/21/2011 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">11/04/2010 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/15/2010 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/30/2009 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/24/2008 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/03/2007 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/10/2006 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/06/2005 -- ANNUAL REPORT</a>	View image in PDF format

<a href="#">01/29/2001 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/01/2000 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">05/06/1999 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/06/1998 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/30/1997 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/29/1996 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/13/1995 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>

Florida Department of State, Division of Corporations

## W-9 REQUEST FOR TAXPAYER ID NUMBER AND CERTIFICATION

Substitute Form **W-9****Request for Taxpayer Identification Number and Certification**

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

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return) H.W. Lochner, Inc.	
	Business name, if different from above	
	Check appropriate box: <input type="checkbox"/> Individual/Sole proprietor <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ ..... <input type="checkbox"/> Exempt payee <input type="checkbox"/> Other (see instructions) ▶	
	Address (number, street, and apt. or suite no.) 225 W. Washington Street, 12th Floor	Requester's name and address (optional)
	City, state, and ZIP code Chicago, IL 60606	
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 your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
or
Employer identification number 36 2338811

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined in the instructions).

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

<b>Sign Here</b>	Signature of U.S. person ▶ <i>Donald J Skelton</i>	Date ▶ September 29, 2021
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**\*Instructions to Form W-9 available upon request.**

Detach on the perforation

**Section 119.071(5), Florida Statutes Notice:**

Your Tax Identification Number (which for individuals is your social security number) is collected on Form W9 for use in filing information returns with the IRS as described more fully below. Collection of the tax identification number (or social security number as applicable) is mandatory pursuant to Section 6109 of the Internal Revenue Code (26 U.S.C § 6109).

**Privacy Act Notice:**

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, the District of Columbia, and U.S. possessions to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.



## ADDENDUM NO. 1

22-901



REAL FLORIDA • REAL CLOSE  
Office of Procurement Services

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

**SOLICITATION:** North Lake Trail Phase 3 PD&E Study

09/16/2021

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.** On page 15 of Exhibit A – Scope of Work/Services it states that the consultant will provide an evaluation of the railroad bridge on Oakland Drive. In our preliminary review of the project location, the bridge appears to be located in Mt. Dora and so not actually in the project limits provided on page 16.

Is this bridge part of the scope for this project? Or is there another bridge within the project limits to be evaluated?

**R1. The Oakland Drive bridge is not part of the project. The bridge that is included in the study is the CR 445 Bridge over Alexander Creek.**

**Q2.** What is the contract's budget?

**R2. The budget is \$2,000,000.00**

**Q3.** Under the Vendor Profile section, Lake County asks respondents to “Include copies of any required licenses or permits. Provide a copy of the current State of Florida Board of Professional Regulation License.”

Does this requirement only apply to the prime consultant, or should we include all licenses/permits from subconsultants as well?

**R3. This requirement is only for the prime consultant. Copies of any required licenses or permits from subconsultants will be requested at the County’s discretion.**

**Q4.** Is this project Local Area Program (LAP) Funded?

**R4. This is not a LAP project. It is funded by FDOT through a legislative apportionment. The FM number is FM# 430975-2.**

**Q5.** Attachment 3 References form (which is also referenced as Attachment 2) says to list 5 project less than 5 years old. The RFQ on page 3 under B2, Past Performance, it says to list 3 verifiable reference/relevant projects completed within the last 3 years similar/same in magnitude. Do you want projects within the past 3 years or the past 5 years?

**R5. Please list a minimum of the three (3) most relevant projects from past five (5) years**

*[Acknowledgement page follows.]*

**ADDENDUM NO. 1**

**22-901**

**ACKNOWLEDGEMENT**

Firm Name: H.W. Lochner, 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: *Donald J Skelton*

Date: 9/29/2021

Print Name: Don Skelton, PE

Title: Vice President | Principal-in-Charge

Primary E-mail Address: dskelton@hwlochner.com

Secondary E-mail Address: N/A



# CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)  
09/21/2021

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).

<b>PRODUCER</b> Aon Risk Services Northeast, Inc. New York NY Office One Liberty Plaza 165 Broadway, Suite 3201 New York NY 10006 USA	<b>CONTACT NAME:</b> PHONE (A/C. No. Ext): (866) 283-7122      FAX (A/C. No.): (800) 363-0105		
	<b>E-MAIL ADDRESS:</b>		
<b>INSURED</b> H. W. Lochner, Inc. 225 W. Washington Street, 12th Floor Chicago IL 60606 USA	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	INSURER A: The Charter Oak Fire Insurance Company		25615
	INSURER B: Beazley Insurance Company, Inc.		37540
	INSURER C: Travelers Property Cas Co of America		25674
	INSURER D:		
	INSURER E:		

Holder Identifier :

**COVERAGES**      **CERTIFICATE NUMBER:** 570089255085      **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	Y		P6308451B877COF21	05/01/2021	05/01/2022	EACH OCCURRENCE: \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence): \$500,000 MED EXP (Any one person): \$5,000 PERSONAL & ADV INJURY: \$1,000,000 GENERAL AGGREGATE: \$2,000,000 PRODUCTS - COMP/OP AGG: \$2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY	Y		810-9M511530-21-43-G	05/01/2021	05/01/2022	COMBINED SINGLE LIMIT (Ea accident): \$1,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION						EACH OCCURRENCE AGGREGATE
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y	N/A	UB4K2046172143G	05/01/2021	05/01/2022	<input type="checkbox"/> PER STATUTE <input checked="" type="checkbox"/> OTH E.L. EACH ACCIDENT: \$1,000,000 E.L. DISEASE-EA EMPLOYEE: \$1,000,000 E.L. DISEASE-POLICY LIMIT: \$1,000,000
B	Env CPL/Prof			V2AEA4210201	05/01/2021	05/01/2022	Env. Contract. Prof.: \$10,000,000 SIR: \$750,000 Env. Contract. Poll.: \$10,000,000

570089255085

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
 RE: Job Project No. 19499, Description of Job: North Lake Trail Phase 3 PD&E (22-901). Named Insured includes: Lochner, 3995 South 700 East, Suite 450, Salt Lake City, UT 84107. Lake County, a Political subdivision of the State of Florida, and the Board of County Commissioners are included as Additional Insured in accordance with the policy provisions of the General Liability and Automobile Liability policies. General Liability and Automobile Liability policies evidenced herein are Primary and Non-Contributory to other insurance available to Additional Insured, but only in accordance with the policy's provisions. A waiver of Subrogation is granted in favor of Certificate Holder in accordance with the policy provisions of the General Liability, Automobile Liability and workers' Compensation policies.

<b>CERTIFICATE HOLDER</b>  Lake County, A Political Subdivision of the State of Florida and the Board of County Commissioner PO Box 7800 Tavares FL 32778-7800 USA	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  
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ATTACHMENT 3 - TEAM COMPOSITION

**CONSULTANT**

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge	Don Skelton, PE	Tampa	Professional Engineer: FL #45387
Project Manager, National Forest Service Coordination, Document Development, Public Involvement	Mark Easley	Tampa	N/A
Deputy Project Manager, Corridor Analysis & Trail Design, Document Development, Public Involvement	Tanya Kristoff, PE	Jacksonville	Professional Engineer: FL #55463
Engineering QA/QC	John Kenty, PE, PMP	Tampa	Professional Engineer: FL #55442 Project Management Professional: #1353633
Environmental QA/QC	Bill Howell, PE	Tampa	Professional Engineer: FL #37284
Corridor Analysis & Trail Design	Mattias Ciabatti, PE	Tampa	Professional Engineer: FL #90880
Signing & Signalization	Rob Swann, PE	Tampa	Professional Engineer: FL #59517
Traffic & Safety	Joseph Samus, PE, PTOE	Tampa	Professional Engineer: FL #80489 Professional Traffic Operations Engineer: #4296

**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)
Survey & Mapping	ECHO Utility Engineering & Survey	400 SR 434, Ste. 1024 Oviedo, FL 32765	Mark Efirid, PSM	6	Y	N
Structures	Horizon Engineering Group, Inc.	1051 Winderley Place, Ste. 400 Maitland, FL 32751	Kevin Fischer, PE Reid Kirkpatrick, PE	2.5	Y	Y
Drainage	Horizon Engineering Group, Inc.	1051 Winderley Place, Ste. 400 Maitland, FL 32751	Lisa Olivera, PE Shannon Medeiros, PE	5	Y	Y
Utility Coordination	Horizon Engineering Group, Inc.	1051 Winderley Place, Ste. 400 Maitland, FL 32751	Garth Thompson Pamela Young	3	Y	N
Natural Resources, National Forest Service Coordination	Inwood Consulting Engineers	3000 Dovera Drive, Ste. 200 Oviedo, FL 32765	Jason Houck, PWS, GISP	7.5	Y	Y

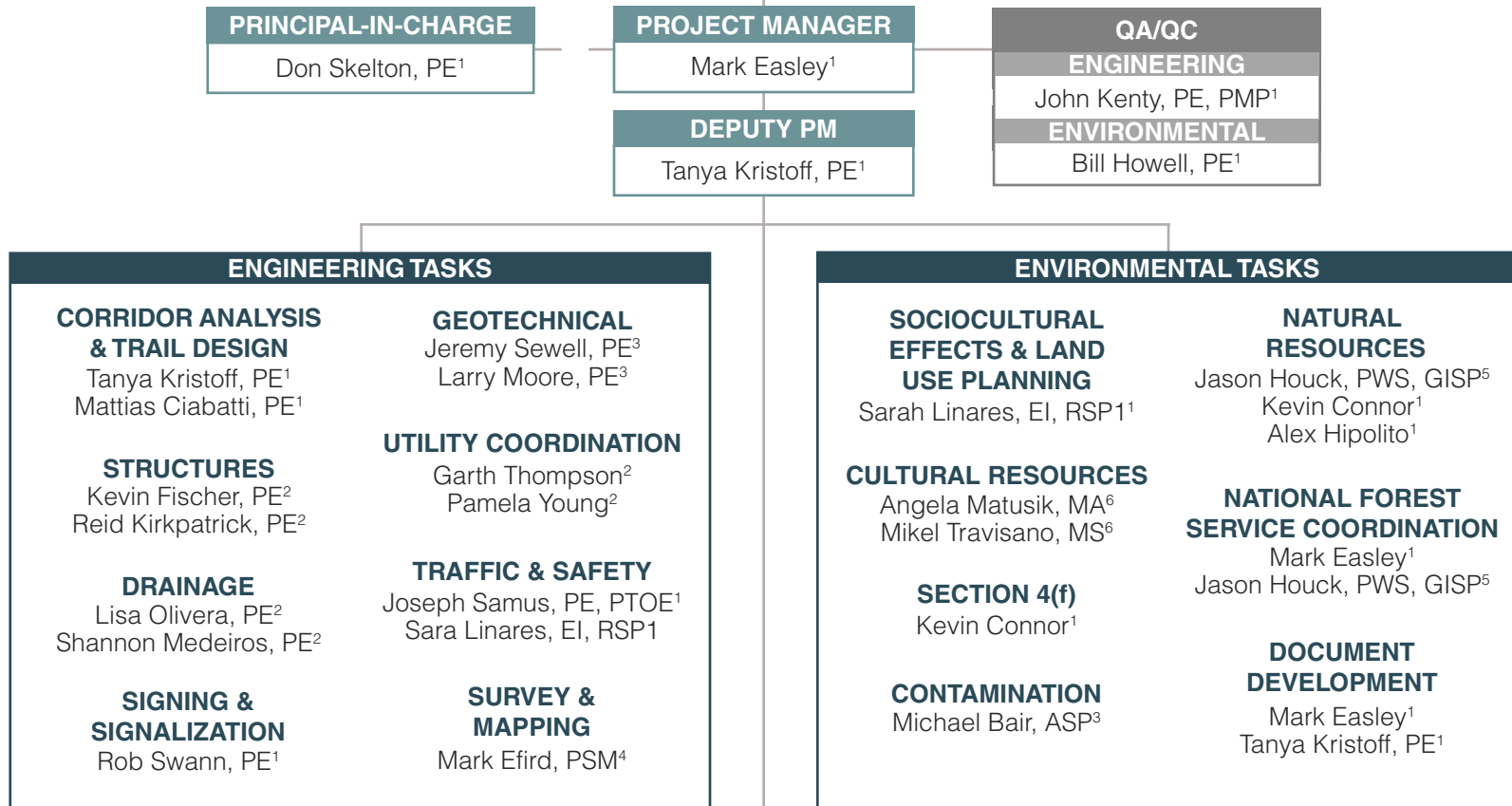
ATTACHMENT 3 - TEAM COMPOSITION

**CONSULTANT**

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge	See Previous Page	N/A	N/A
Traffic & Safety, Sociocultural Effects & Land Use Planning	Sarah Linares, EI, RSP1	Tampa	Engineer-in-Training: FL #1100022391
Section 4(f), Natural Resources	Kevin Connor	Tampa	N/A
Natural Resources	Alex Hipolito	Tampa	N/A
Renderings & Graphics	Josh Noftz	Tampa	N/A
Renderings & Graphics	Khan Lamvichit	Tampa	N/A

**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)
Cultural Resources	SEARCH, Inc.	3117 Edgewater Drive Orlando, FL 32804	Angela Matusik, MA Mikel Travisano, MS	4	Y	Y
Geotechnical	Tierra, Inc.	591 Susan B. Britt Court Winter Garden, FL 34787	Jeremy Sewell, PE Larry Moore, PE	1	Y	Y
Contamination	Tierra, Inc.	591 Susan B. Britt Court Winter Garden, FL 34787	Michael Bair, ASP	3	Y	Y



- LEGEND**
- 1 H.W. Lochner, Inc.
  - 2 Horizon Engineering Group, Inc.
  - 3 Tierra, Inc.
  - 4 ECHO Utility Engineering & Survey
  - 5 Inwood Consulting Engineers
  - 6 SEARCH, Inc.

**PUBLIC INVOLVEMENT TASKS**

<b>PUBLIC INVOLVEMENT</b> Tanya Kristoff, PE <sup>1</sup> Mark Easley <sup>1</sup>	<b>RENDERINGS &amp; GRAPHICS</b> Josh Noftz <sup>1</sup> Khan Lamvichit <sup>1</sup>
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# Mark Easley

Project Manager

With more than 38 years of experience, Mark Easley manages scientific investigations required for environmental assessment of a wide variety of project types, including surface, air, and water transportation, industrial and mixed-use complexes, and agricultural development. He is knowledgeable of regional-scale drainage studies, as well as research of marine coastal and freshwater wetland systems and federal and state-listed species.

Mark's technical expertise includes biological and ecological investigations and impact analyses and preparation of related reports and permit applications, mitigation plans, and conservation measures. He has also managed the developments of National Environmental Policy Act (NEPA) documents ranging from Categorical Exclusions to Environmental Impact Statements (EIS) for multiple federal agencies. He has an in-depth knowledge of all federal, state, regional, and local environmental criteria and associated agency procedures, including federal 404 Dredge and Fill Permitting, Sections 7 and 10 Consultations for protected species, and state wetlands and protected species permitting.



**Years of Experience:** 38

**Education:**

- Bachelor of Science in Biology, University of South Florida

**Certifications:**

- Habitat Evaluation Procedures (HEP) / USFWS
- Uniform Mitigation Assessment Method / WMD
- Wetlands Evaluation technique (WET) / USACE

## PROJECT EXPERIENCE

### **SR 40, East of CR 314 to CR 314A; Marion County, FL**

*Owner:* Florida Department of Transportation, District 5  
Environmental Task Manager | Project Completion: 2018

Preparation of permits for the widening of an approximately six-mile segment of SR 40 through the Ocala National Forest in Marion County. The project consisted of widening this segment of roadway from two to four lanes, the development of a stormwater management system to address water quality and quantity concerns, and the design and development of construction notes and specifications for 13 wildlife crossings, ranging in size from 36-inch x 58-inch to arch pipes to 400-foot-long bridge structures. Responsible for:

- Assessing project area for federal/state-listed protected species, determining wetland jurisdictional boundaries, preparing a quantitative assessment of existing wetland values and wetland values lost using the Unified Mitigation Assessment Method (UMAM), and developing construction guidelines for species protection
- Obtaining a U.S. Army Corps of Engineers 404 dredge and fill permit and St. Johns River Water Management District Environmental Resource Permit

### **SR 40, SR 15 (US 17) to SR 11; Volusia County, FL**

*Owner:* Florida Department of Transportation, District 5  
Environmental Task Manager | Project Completion: 2016

Preparation of permits for the widening of a 6.4-mile segment of SR 40 through the Hart Island Conservation Area, in Volusia County. The project consists of widening this segment of roadway from two to four lanes, the development of a stormwater management system to address water quality and quantity concerns, and the design and development of construction notes and specifications for four wildlife crossings. Responsible for:

- Assessing project area for federal/state-listed protected species, determining wetland jurisdictional boundaries, preparing a quantitative assessment of existing wetland values and wetland values lost using the Unified Mitigation Assessment Method (UMAM), and developing construction guidelines for species protection
- Obtaining a U.S. Army Corps of Engineers 404 dredge and fill permit and St. Johns River Water Management District Environmental Resource Permit

### **Haines City Trail LAP PD&E Study; Polk County, FL**

*Owner:* Florida Department of Transportation, District 1, and City of Haines City  
Project Manager | Project Completion: 2015

Development of environmental documents for an approximately 1.5-mile bike path/trail extending from Grace Avenue to Lily Avenue in the City of Haines City. Project specific issues included cultural resources, contamination, and federal protected species. Key environmental issues included contamination, protected species impacts, and potential impacts to a historic rail bridge listed in the Federal Register of Historic Places (FRHP). Responsible for:



- Project scheduling, developing and reviewing PD&E documents, managing subconsultants, and reviewing of project design plans
- Development of a Section 106 Case Study and extensive coordination with the State Historic Preservation Office (SHPO) to ensure that the historic would not be impacted by the proposed project

#### **Peace River Trail LAP PD&E Study; Polk County, FL**

*Owner:* Florida Department of Transportation, District 1, and Polk County

Project Manager | Project Completion: 2015

Development of environmental documents for an approximately 1.7-mile bike path/trail extending from Mount Pisgah Road to US 98 in Fort Meade, Florida. Project specific issues include section 4(f) properties, wetlands, and federal protected species. Responsible for:

- Project scheduling, developing and reviewing PD&E documents, managing subconsultants, and reviewing of project design plans

#### **Van Whidden Park Trail LAP PD&E Study; Glades County, FL**

*Owner:* Florida Department of Transportation, District 1, and Glades County

Project Manager | Project Completion: 2016

Development of environmental documents for an approximately 0.5-mile bike path/trail extension and paving of a 0.7-mile access road and a 0.25-acre parking area, located on Curry Island, Lake Okeechobee, Glades County. Project specific issues include wetlands and federal protected species. Responsible for:

- Project scheduling, developing and reviewing PD&E documents, managing subconsultants, and reviewing of project design plans
- Preparing extensive protected species assessments, including monitoring of the crested caracara (*Caracara cheriway*) and formal Section 7 consultations with the U.S. Fish and Wildlife Service

#### **Lake Howard Trail Phase II LAP PD&E Study; Polk County, FL**

*Owner:* Florida Department of Transportation, District 1, and Polk County

Project Manager | Project Completion: 2016

Development of environmental documents for an approximately 1.3-mile bike path/trail extension located along the northern boundary of Lake Howard in City of Winter Haven. The project extends through the National Register Interlaken Historic District and required a 106 Case Study, public workshop, and extensive coordination with the State Historic Preservation Office (SHPO). Responsible for:

- Project scheduling, developing and reviewing PD&E documents, managing subconsultants, and reviewing of project design plans

#### **US 41 Trail LAP PD&E Study; Collier County, FL**

*Owner:* Florida Department of Transportation, District 1, and Collier County

Project Manager | Project Completion: 2015

Development of environmental documents for an approximately 2.3-mile bike trail extending from San Marco Road (CR 92) to 6L Farm Road, in Collier County. The project extends through the Collier Seminole State Park. Project issues included wetlands, federal and state listed species and section 4(f) lands. Responsible for:

- Project scheduling, developing and reviewing PD&E documents, managing subconsultants, and reviewing of project design plans

#### **Daniel Island Terminal Environmental Impact Statement (EIS); Port of Charleston, SC**

*Owner:* South Carolina State Ports Authority

Project Coordinator, Senior Environmental Scientist | Project Completion: 2010

Assessment and permit preparation for a new 1,400-acre container terminal facility with 12 new 1,000-foot berths and 15 miles of rail and roadway corridor access, including acquisition of lands from the Francis Marion National Forest (FMNF) for the construction of project-related road and rail corridors. Acquisition of lands from the FMNF required the assessment of the lands to be taken and lands to be used to mitigate the impact to the forest. The overall project construction costs were estimated at more than \$1.25 billion. Responsible for:

- Developing a U.S. Army Corps of Engineers Environmental Impact Statement and Section 404 permit application, U.S. Coast Guard bridge permit, a formal Section 7 consultation with the U.S. Fish and Wildlife Service and National Marine Fisheries Service, and state water quality and wetland impact permit applications
- Coordinating with the U.S. Forest Service and assessing FMNF lands to be taken and lands to be used to mitigate the impact to the forest
- Developing a mitigation plan to offset impacts to coastal and freshwater wetlands, preparing a compensation plan to offset impacts to red-cockaded woodpecker colonies, assessing deep-water dredge disposal of approximately 11 million cubic yards of dredge material, and relocating approximately 1.5 miles of existing federal ship channels

# Don Skelton, PE

*Principal-in-Charge*

Don Skelton, PE, is Lochner's Florida Area Manager. As a prior Florida Department of Transportation (FDOT) District 7 Secretary, Don is highly experienced in the management of large transportation programs. Prior to Lochner, he oversaw the District's \$2 billion five-year work program, including several design-build initiatives and innovative financing programs to accelerate projects. He also oversaw the successful completion of several major regional transportation improvements, including the complete reconstruction of I-275 through Tampa and construction of the I-4/Selmon Expressway connector.

Don has led many large project teams and, as an executive manager, was responsible for the oversight of up to 650 personnel. He coordinated extensively with legislators, elected officials, metropolitan planning organizations, architectural/engineering consultants, contractors, and concessionaires, as well as community groups, local project stakeholders, and the general public. His many years in the public sector give him a full understanding of transportation project and program development, from planning and funding to design, construction, and maintenance.

Don brings this wealth of experience to his Lochner project roles, which notably include serving as a senior adviser to FDOT on high-profile projects. He is also a senior adviser to the City of Tampa, responsible for providing input, reviewing projects, and offering advice to the municipal client in its dealings with FDOT. In addition, Don served as the Tampa Bay Area Regional Transportation Authority Interim Executive Director. This role encompassed overall leadership of the agency, oversight of the day-to-day operations, and the development of policies for board approval.



**Years of Experience:** 34

**Education:**

- Bachelor of Science in Civil Engineering, University of Florida

**Professional Registration:**

- Professional Engineer: FL #45387

## PROJECT EXPERIENCE

### **Trail Lighting Field Review and Analysis; Doral, FL**

*Owner:* City of Doral

Principal-in-Charge | Project Completion: 2021

Field review of lighting throughout the city and development of lighting recommendations with specific focus on tunnels, overpasses, trailheads, bridge entrances/exits, public gathering places, crosswalks, along streets, and on signage. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver trail lighting review and analysis on time and budget to the performance expectations of the City

### **SR 60 (Courtney Campbell) Pedestrian Overpass, Courtney Campbell Trail to Bayshore Trail; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Principal-in-Charge | Project Completion: 2022

Design to construct a grade-separated structure connecting the Bayshore Trail and the Courtney Campbell Causeway Trail, removing conflicts with trail users and vehicles at the SR 60/Bayshore Boulevard signalized intersection. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver design on time and budget to the performance expectations of the District

### **Whiting Street Improvements PD&E Study; Hillsborough County, FL**

*Owner:* Tampa-Hillsborough County Expressway Authority

Principal-in-Charge | Project Completion: 2022

Project development and environment (PD&E) study to evaluate needs, costs, and effects of realigning existing Whiting Street from Jefferson Street to North Meridian Avenue, as well as extending Washington Street from Nebraska Avenue to North Meridian Avenue to improve traffic flow, safety, and access within downtown Tampa. The project also includes the reconfiguration of the Selmon Expressway on-ramps at Jefferson Street and off-ramps at Florida Avenue and Channelside Drive. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver PD&E study on time and budget to the performance expectations of the County

### **126th Avenue North Improvements PD&E Study, US 19 to 34th Street North; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

*Principal-in-Charge | Project Completion:* 2021

PD&E study within the Gateway Economic Development area for the widening and extension of 126th Avenue North, including analysis and assessment of impacts on social, economic, cultural and natural resources, to obtain Location and Design Concept Acceptance (LDCA). Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver PD&E study on time and budget to the performance expectations of the County

### **South Coast Greenway Trail Phase 1B PD&E Study; Hillsborough County, FL**

*Owner:* Hillsborough County

*Principal-in-Charge | Project Completion:* 2022

PD&E study for the South Coast Greenway Trail (Phase 1B) extending from the terminus of Phase 1A at SR 674 to 24th Street in Hillsborough County, Florida. The goal for the project was to recommend a trail alignment that connects to, and will be a part of, the South Coast Greenway Trail, which is supported by community and key project stakeholders. Proposed trail will provide recreational and non-motorized transportation opportunities for cyclists, in-line skaters, and pedestrians and link to important destinations, including parks and recreation facilities, public schools, town centers, and neighborhoods. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver PD&E study on time and budget to the performance expectations of the County

### **Hercules Avenue LAP ADA Sidewalk Improvements Phase II, Sherwood Street to Sunset Point Road; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

*Principal-in-Charge | Project Completion:* 2021

Implementation of sidewalk improvements to meet ADA requirements. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver design on time and budget to the performance expectations of the County

### **SR 30 (US 98) PD&E Study; Okaloosa & Santa Rosa Counties, FL**

*Owner:* Florida Department of Transportation, District 3

*Principal-in-Charge | Project Completion:* 2019

PD&E study for 24.6-mile segment of US 98, including widening from existing four-lane divided facility to six-lane divided facility with a raised median, sidewalks, and bicycle lanes, including evaluation of stormwater control measures affecting approximately 50 drainage basins discharging into the East Bay and Santa Rosa Sound, a habitat for numerous protected species. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver PD&E study on time and budget to the performance expectations of the District

### **US 19 PD&E Study, 66th Avenue to 118th Avenue; Pinellas Park, FL**

*Owner:* Florida Department of Transportation, District 7

*Project Manager | Project Completion:* 2020

Reevaluation of a previous PD&E study, including new conceptual design, cost estimates, environmental studies, and public involvement initiatives for improvements to a 3.6-mile stretch of US 19 and the US 19/Gandy Boulevard interchange. Responsible for:

- Directing and managing all resources as well as serving as the main contact for the client

### **US 41/Main Street PD&E Study; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1

*Principal-in-Charge, QA/QC | Project Completion:* 2020

PD&E study for converting US 41/Main Street intersections into two-lane roundabouts, including environmentally sensitive and Section 4(f) areas, historic and cultural resources, protected species habitat, and context-sensitive design solutions. Responsible for:

- Coordinating with project manager to plan, manage, execute, and deliver PD&E study on time and budget to the performance expectations of the District

# Tanya Kristoff-Powder, PE

Deputy Project Manager

Tanya Kristoff, PE is a senior project manager with extensive experience within the transportation industry. Tanya has effectively led dozens of project development and environment (PD&E) studies, as well as planning and final design projects. This leadership experience includes the improvement (widening) of city streets, the development and modification of expressways, complex interchanges, and bridges, and the incorporation of rail and transit facilities in urban and rural locations. She has experience working within alternative (design–build) delivery frameworks and has developed design–build specification packages on behalf of state departments of transportation. Tanya has had notable success throughout her career in the delivery of environmentally, historically, architecturally, and culturally sensitive projects with large National Environmental Policy Act (NEPA) and public outreach.



## PROJECT EXPERIENCE

### **I-10 (SR 8) PD&E Study, East of SR 261 (Capital Circle) to West of SR 59 (Gamble Road); Leon and Jefferson Counties, FL**

*Owner:* Florida Department of Transportation, District 3

Project Manager | Project Completion: 2021

PD&E study for widening 13 miles of interstate from four lanes to six lanes, including Section 4(f) and Section 106 property assessment and interchange operational analysis report. Responsible for:

- Overseeing analysis of existing roadway conditions and development of design alternatives
- Overseeing development of the NEPA reports covering existing conditions, engineering analysis, and design alternatives
- Leading all public involvement efforts

### **US 301 Feasibility Study, Marion County Line to I-10; Duval, Alachua, Bradford, Clay, FL**

*Owner:* Florida Department of Transportation, District 2

Project Manager | Project Completion: 2022

High-level feasibility study addressing mobility needs along 63 miles of the US 301 corridor, beginning at the Marion County line and continuing to I-10 in Duval County. Study includes analyzing the operation of intersections and interchanges along the corridor and providing alternative designs that result in mobility improvements, as well as identifying short-term and long-term alternatives. Responsible for:

- Overseeing analysis of existing roadway conditions and development of alternatives

### **US 98 Dupont Bridge PD&E Study; Bay County, FL**

*Owner:* Florida Department of Transportation, District 3

Project Manager | Project Completion: 2021

PD&E study for the replacement of the Dupont Bridge which is structurally deficient and has a substandard vertical clearance. The proposed replacement bridge will improve the vertical clearance to 65 feet to meet USCG requirements and will be capable of accommodating six lanes of traffic. Study also includes seagrass surveys, Section 7 consultations for marine and estuarine species including sea turtles, manatee, and Gulf sturgeon, as well as conducting an Essential Fish Habitat Assessment. Responsible for:

- Overseeing analysis of existing roadway conditions, specifically utilities
- Overseeing development of the NEPA reports covering utilities, natural environment, and NEPA document
- Assisting with public involvement efforts

### **SR 77 Feasibility Study, Blue Lake Road to the Jackson County Line; Washington County, FL**

*Owner:* Florida Department of Transportation, District 3

Project Manager | Project Completion: 2020

Feasibility study for SR 77, including evaluation of potential corridors or alternatives to meet the performance metrics identified in the purpose and need, such as a bypass and one-way pairs. Also includes analysis and assessment of the project's impact on the social, economic, cultural, natural, and physical environment. Responsible for:

- Overseeing analysis of existing roadway conditions and development of alternatives

**Years of Experience:** 27

#### **Education:**

- Bachelor of Science in Mathematics, Lafayette College
- Bachelor of Science in Civil Engineering, Lafayette College

#### **Professional Registration:**

- Professional Engineer: FL #55463
- Professional Engineer: GA #029763

### **SR 30 (US 98) PD&E Study; Okaloosa & Santa Rosa Counties, FL**

*Owner:* Florida Department of Transportation, District 3

*Project Manager | Project Completion:* 2019

PD&E study for 24.6-mile segment of US 98, including widening from existing four-lane divided facility to six-lane divided facility with a raised median, sidewalks, and bicycle lanes, including evaluation of stormwater control measures affecting approximately 50 drainage basins discharging into the East Bay and Santa Rosa Sound, a habitat for numerous protected species. Responsible for:

- Overseeing the technical analysis for environmental and drainage
- Preparing utility assessment
- Assisting with public involvement efforts

### **CR 250 Over Suwannee River Bridge Replacement; Suwannee County, FL**

*Owner:* Florida Department of Transportation, District 2

*Project Manager | Project Completion:* 2021

Design for two-lane bridge replacement of CR 250 over the environmentally sensitive Suwannee River to accommodate fluctuating river elevation. Responsible for:

- Examining and analyzing existing conditions and determining best method to rectify with current standards
- Overseeing development of roadway, drainage, structural, and signing and pavement marking design
- Coordinating with subconsultants and client for efficient project delivery

### **SR 79 PD&E Study, I-10 to Alabama State Line; Holmes County, FL**

*Owner:* Florida Department of Transportation, District 3

*Project Manager | Project Completion:* 2019

PD&E study to evaluate potential capacity improvements along a 17-mile emerging strategic intermodal system corridor, including analysis of bypass alternatives around downtown area and one-way pair alternatives. Responsible for:

- Examining and analyzing existing roadway conditions to develop alternative alignments
- Conducting extensive public involvement to obtain community feedback
- Overseeing technical analysis for environmental and traffic components
- Overseeing development of a preliminary engineering report and an environmental assessment

### **I-10 (SR 8), US 90 to SR 263 PD&E Study; Gadsden and Leon Counties, FL**

*Owner:* Florida Department of Transportation, District 3

*Project Manager | Project Completion:* 2018

Development of design alternatives for PD&E study to investigate the widening of two four-lane sections of interstate to six lanes, as well as the development of two interchange operational analysis reports to improve traffic operations and safety. Responsible for:

- Overseeing analysis of existing roadway conditions and development of design alternatives
- Overseeing the development of the planning report which provides the client with existing condition, engineering analysis, and potential design alternatives

## **PREVIOUS EXPERIENCE WITH OTHER ORGANIZATIONS**

### **Pensacola Bay Bridge (SR 30/US 98) PD&E Study; Pensacola and Gulf Breeze, FL**

*Owner:* Florida Department of Transportation, District 3

*Deputy Project Manager, Project Engineer | Project Completion:* 2022

The 3.5-mile PD&E Study included the replacement of a three-mile, four-lane bridge across Pensacola Bay, connecting downtown Pensacola with the City of Gulf Breeze. The project involved Section 106 sites related to archaeological sites for shipwrecks and Section 4(f) for recreational sites adjacent to the bridge landfall locations. Mitigation measures in the form of park enhancements included under bridge parking facilities, replacement of outdoor parking, and multi-use paths across the bay to connect the parks, and aesthetic bridge treatments. The highly controversial bridge included a managed lane analysis, tidal surge protection, migratory bird sites, and sea grass restoration project. Responsible for:

- Providing engineering analysis/alternative development
- Assisting with NEPA documents (EA)
- Assisting with public involvement process for this challenging and controversial study

# John Kenty, PE, PMP

## Engineering QA/QC

John Kenty is a Senior Roadway Engineer and Project Manager who has successfully led complex, high-profile planning and design contracts, overseeing multidisciplinary design teams and numerous subconsultant firms. As an engineer, John has experience in the design of major new roadway facilities, as well as roadway reconstruction and rehabilitation projects. His expertise includes the design of complex highway geometrics, alternative development and analysis, and the preparation of NEPA documentation. He has had considerable experience in the design of single-point urban interchanges (SPUIs) and in providing design solutions within constrained urban corridors.

John is known for developing innovative project solutions, providing expedited completion and substantial cost savings for his clients. Notably, he has been instrumental in analysis and conceptual design for the US 19 corridor in Florida's District 7. The team's work has substantially lowered estimated project costs by using overpasses, SPUIs, and frontage roads to reduce right of way acquisition.

In 2009, John was invited to participate in ARTBA's Young Executive Development Program for transportation engineers with recognized leadership potential. This intensive program provided him with in-depth training in the federal policy-making process and other political aspects of the transportation industry.

## PROJECT EXPERIENCE

### **South Coast Greenway Trail Phase 1B PD&E Study; Hillsborough County, FL**

*Owner:* Hillsborough County

QA/QC | Project Completion: 2022

Project development and environment (PD&E) study for the South Coast Greenway Trail (Phase 1B) extending from the terminus of Phase 1A at SR 674 to 24th Street in Hillsborough County, Florida. The goal for the project was to recommend a trail alignment that connects to, and will be a part of, the South Coast Greenway Trail, which is supported by community and key project stakeholders. Proposed trail will provide recreational and non-motorized transportation opportunities for cyclists, in-line skaters, and pedestrians and link to important destinations, including parks and recreation facilities, public schools, town centers, and neighborhoods. Responsible for:

- Responsible for performing QC of plans

### **Tyson Avenue Improvements, West Shore Boulevard to Manhattan Avenue; Tampa, FL**

*Owner:* City of Tampa

Project Manager | Project Completion: 2021

Engineering services for the evaluation of improvements to an undeveloped right-of-way corridor along West Tyson Avenue including a two-lane facility with a multimodal trail, continuous two-way left-turn lane along Manhattan Avenue between Tyson Avenue and Gandy Boulevard, and stormwater improvements along Tyson Avenue west of West Shore Boulevard. Responsible for:

- Performing overall project management
- Serving as engineer of record for preliminary design plans

### **West Shore Boulevard and Gandy Boulevard Intersection Improvements; Tampa, FL**

*Owner:* City of Tampa

Project Manager | Project Completion: 2021

Roadway improvements at the intersection of West Shore Boulevard (CR 587) and Gandy Boulevard (SR 600/US 92) by constructing one additional left-turn lane on the northbound and southbound roadway approaches of West Shore Boulevard which will move traffic through the intersection more efficiently and reduce driver delays during peak travel periods. Responsible for:

- Managing multidisciplinary design team
- Acting as Engineer of Record for roadway improvements



**Years of Experience:** 28

#### **Education:**

- Bachelor of Science in Civil Engineering, State University of New York at Buffalo

#### **Professional Registration:**

- Professional Engineer: FL #55442
- Professional Engineer: GA #36957

#### **Certifications:**

- Project Management Professional (PMP)
- Advanced Maintenance of Traffic (MOT)

### **US 19 (SR 55) Reconstruction, North of Nebraska Avenue to South of Timberlane Road; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Senior Engineer | Project Completion: 2025

Design upgrades for 2.4 miles of US 19 from a six-lane arterial to an elevated, six-lane controlled-access expressway with improved pedestrian safety through implementation of a “pedestrian thruway” to allow pedestrians to cross US 19 at-grade under an elevated road profile. Responsible for:

- Providing senior oversight of roadway reconstruction design

### **US 19 PD&E Study, 66th Avenue to 118th Avenue; Pinellas Park, FL**

*Owner:* Florida Department of Transportation, District 7

Senior Design Engineer | Project Completion: 2020

Reevaluation of a previous PD&E study, including new conceptual design, cost estimates, environmental studies, and public involvement initiatives for improvements to a 3.6-mile stretch of US 19 and the US 19/Gandy Boulevard interchange. Responsible for:

- Leading development of interchange and roadway widening alternatives

### **Dunedin Causeway Bridges PD&E Study; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

Senior Engineer | Project Completion: 2020

PD&E study to evaluate the rehabilitation or replacement of the Dunedin Causeway Bridge Nos. 150068 and 150067 over the intracoastal waterway and St. Joseph Sound in the City of Dunedin. Responsible for:

- Overseeing bridge alignment and profile alternative development

### **I-275 Pinellas Managed Lanes PD&E Study; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Senior Roadway Engineer | Project Completion: 2019

PD&E study to evaluate the addition of lane continuity improvements and managed lanes, developed as part of a regional master plan to add managed lanes to major highways throughout the Tampa Bay Region implemented through the Tampa Bay Next (TBNext) program. Responsible for:

- Overseeing the development of managed lanes alternatives along urban interstate
- Developing alternative cost estimates

### **SR 595 (Alternate US 19) Corridor Study, Belleair Road to Pinellas-Pasco County Line; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Senior Engineer | Project Completion: 2019

Alternative analysis for SR 595 to improve capacity, traffic operations, safety, and access. Evaluation of freight, transit, bicycle, and pedestrian movements to obtain FHWA Location and Design Concept Acceptance (LDCA). Responsible for:

- Leading the development of Complete Streets alternatives for a corridor study

### **102nd Avenue North at 113th, 118th, and 119th Streets North; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

Project Manager | Project Completion: 2016

Design of intersection improvements, including a sidewalk extension, the removal of channelizing islands, the installation of ADA-compatible features, intersection reconfiguration, and the design of 0.25 miles of roadway widening and pavement rehabilitation. Responsible for:

- Managing and overseeing the design of roadway widening and intersection ADA improvements

### **USCG Sidewalk and Pedestrian Bridges along Rescue Way; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

Project Manager | Project Completion: 2016

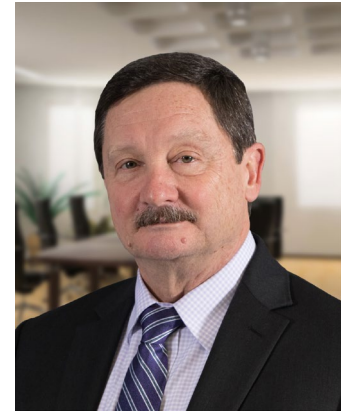
Design of enhanced 8-foot-wide sidewalk and a 60-foot-long pedestrian bridge, predominantly on airport property, to connect a US Coast Guard base with an outparcel annex building. Responsible for:

- Managing multi-discipline design team
- Developing pedestrian trail alternatives

# Bill Howell, PE

Environmental QA/QC

Bill Howell, PE, is a senior transportation engineer and planner with extensive experience conducting and managing project development and environment (PD&E) and planning studies for dozens of state and local transportation improvement projects for Florida Department of Transportation (FDOT), often involving complex socioeconomic, environmental, cultural, and historical issues. He has considerable experience working within the National Environmental Policy Act (NEPA) framework, Section 4(f), and Section 106 procedures and has overseen the preparation of categorical exclusions, environmental assessments, environmental impact statements, and state environmental impact reports. His notable expertise includes long-range planning, corridor studies, alternatives development and analysis, and conceptual design. Additionally, he has experience assessing the socioeconomic impacts of bypasses on rural communities. Bill has coordinated many public involvement programs and liaised with state and federal agencies, advisory committees, and local interest groups. He is committed to making such programs accessible to stakeholders, virtual and hybrid meetings with agencies and the local community. On numerous projects, he has been instrumental in providing multilingual public involvement programs to meet community demographics.



**Years of Experience:** 40

**Education:**

- Bachelor of Science in Civil Engineering (Structural Emphasis), University of South Florida
- Bachelor of Arts in Business Administration, University of South Florida

**Professional Registration:**

- Professional Engineer: FL #37284

## PROJECT EXPERIENCE

### **Dunedin Causeway Bridges PD&E Study; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

Project Manager | Project Completion: 2020

PD&E study to evaluate the rehabilitation or replacement of Dunedin Causeway Bridge Nos. 150068 and 150067 over the intracoastal waterway and St. Joseph Sound. Responsible for:

- Providing project management, including coordination with client, attending progress meetings, preparing progress reports and invoices, preparing and maintaining project schedule, monitoring scope of services and preparing supplemental agreements, preparing and tracking budget, developing project filing system and monitoring conformance, preparing project management and quality control plans, providing quality control and quality assurance reviews, reviewing internal project financial reports, assigning tasks, and overseeing production
- Assigning project-related tasks to production staff and overseeing production of reports, maps, correspondence and other project-related materials and deliverables; leading and overseeing development of bridge inspection procedures and report guidelines; approving equipment purchases and direct expenses; implementing and monitoring training program for bridge inspectors; monitoring operations for safety and OSHA compliance; overseeing and reviewing bridge inspection reports and related documents; and reviewing and directing all work produced by staff and subconsultants

### **US 41/Main Street PD&E Study; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1

Project Manager | Project Completion: 2020

PD&E study for converting US 41/Main Street intersections into two-lane roundabouts, including environmentally sensitive and Section 4(f) areas, historic and cultural resources, protected species habitat, and context-sensitive design solutions. Responsible for:

- Managing the overall project, including project scope, budget, schedule, and subconsultants
- Communicating with client to keep the project aligned with their goals
- Performing quality control on project throughout development to maintain the standards expected
- Developing project filing system and monitoring conformance
- Overseeing public and stakeholder meetings including preparing responses to public concerns
- Creating and maintaining comprehensive project documentation
- Leading and overseeing development of bridge inspection procedures and report guidelines



### **SR 70 PD&E Study, Jefferson Avenue to CR 29; Highlands County, FL**

*Owner:* Florida Department of Transportation, District 1

*Supervisor (Task Mgr.) | Project Completion:* 2021

PD&E study to evaluate widening SR 70—on Florida’s Strategic Intermodal System (SIS) and critical hurricane evacuation route—from two lanes to four lanes, including assisting with extensive protected species field surveys, evaluating sociocultural effects and relocations, evaluating impacts to Section 4(f) resources, and conducting traffic and safety analyses. Responsible for:

- Providing project management, including coordination with client, attending progress meetings, preparing progress reports and invoices, preparing and maintaining project schedule, monitoring scope of services and preparing supplemental agreements, preparing and tracking budget, developing project filing system and monitoring conformance, preparing project management and quality control plans, providing quality control and quality assurance reviews, reviewing internal project financial reports, assigning tasks, and overseeing production
- Assigning project-related tasks to production staff and overseeing production of reports, maps, correspondence and other project-related materials and deliverables; leading and overseeing development of bridge inspection procedures and report guidelines; approving equipment purchases and direct expenses; implementing and monitoring training program for bridge inspectors; monitoring operations for safety and OSHA compliance; overseeing and reviewing bridge inspection reports and related documents; and reviewing and directing all work produced by staff and subconsultants

### **US 19 PD&E Study, 66th Avenue to 118th Avenue; Pinellas Park, FL**

*Owner:* Florida Department of Transportation, District 7

*Supervisor (Task Mgr.) | Project Completion:* 2020

Reevaluation of a previous PD&E study, including new conceptual design, cost estimates, environmental studies, and public involvement initiatives for improvements to a 3.6-mile stretch of US 19 and the US 19/Gandy Boulevard interchange. Responsible for:

- Providing project management, including coordination with client, attending progress meetings, preparing progress reports and invoices, preparing and maintaining project schedule, monitoring scope of services and preparing supplemental agreements, preparing and tracking budget, developing project filing system and monitoring conformance, preparing project management and quality control plans, providing quality control and quality assurance reviews, reviewing internal project financial reports, assigning tasks, and overseeing production

### **SR 70 SWAT from Lorraine Road to CR 675 Waterbury Road; Manatee County, FL**

*Owner:* Florida Department of Transportation, District 1

*Project Manager | Project Completion:* 2022

An overlapping PD&E study with development of design documents for a capacity improvement. As a subconsultant to Kisinger, Campo and Associates, performing the public involvement and sociocultural effects analysis services for the PD&E study and independent peer review-signalization analysis under basic design services. Responsible for:

- Providing project management, including coordination with client, attending progress meetings, preparing progress reports and invoices, preparing and maintaining project schedule, monitoring scope of services and preparing supplemental agreements, preparing and tracking budget, developing project filing system and monitoring conformance, preparing project management and quality control plans, providing quality control and quality assurance reviews, reviewing internal project financial reports, assigning tasks, and overseeing production

### **Mainline Widening PD&E Study, Jupiter to Ft. Pierce; Multiple Counties, FL**

*Owner:* Florida's Turnpike Enterprise

*Project Manager | Project Completion:* 2022

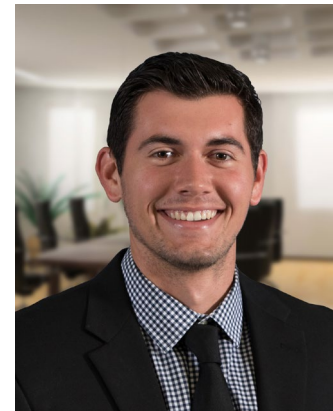
PD&E study in Palm Beach, Martin, and St. Lucie Counties to evaluate alternatives for widening of 36.7 miles of Florida’s Turnpike (SR 91), including improvements to existing interchanges and evaluation of new access locations. Responsible for:

- Managing the overall project, including project scope, budget, schedule, and subconsultants
- Communicating with client to keep the project aligned with their goals
- Performing quality control on project throughout development to maintain the standards expected
- Developing project filing system and monitoring conformance
- Overseeing public and stakeholder meetings including preparing responses to public concerns
- Creating and maintaining comprehensive project documentation

# Mattias Ciabatti, PE

## Corridor Analysis & Trail Design

Mattias Ciabatti, PE, is a roadway engineer with experience include roadway and interchange design. He is also well versed in project development and environment (PD&E) studies with a solid understanding of the process and preliminary engineering report (PER) development. Mattias possesses additional experience in cost estimate development, trip generation development, as well as, public involvement, plan development and research, and existing conditions assessment. for a variety of local and state agencies including the Florida Department of Transportation (FDOT).



## PROJECT EXPERIENCE

### **126th Avenue North Improvements PD&E Study, US 19 to 34th Street North; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works  
Civil Engineer I Project Completion: 2021

PD&E study within the Gateway Economic Development area for the widening and extension of 126th Avenue North, including analysis and assessment of impacts on social, economic, cultural and natural resources, to obtain Location and Design Concept Acceptance (LDCA). Responsible for:

- Creating typical section development
- Developing alternative intersection designs
- Creating LRE cost estimate
- Performing public involvement tasks

### **US 41 at Ringling Boulevard PD&E Study; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1  
Civil Engineer I Project Completion: 2019

PD&E study to convert existing intersection into two-lane roundabout within an environmentally sensitive area with historic and cultural resources, and protected species habitat. Responsible for:

- Performing roadway design of intersection alternatives
- Coordinating with District 1 to make adjustments to final conceptual design

### **Mainline Widening PD&E Study, Jupiter to Ft. Pierce; Multiple Counties, FL**

*Owner:* Florida's Turnpike Enterprise  
Civil Engineer I Project Completion: 2022

PD&E study in Palm Beach, Martin, and St. Lucie Counties to evaluate alternatives for widening of 36.7 miles of Florida's Turnpike (SR 91), including improvements to existing interchanges and evaluation of new access locations. Responsible for:

- Collecting crash data for the project corridor

### **SR 595 (Alternate US 19) Corridor Study, Belleair Road to Pinellas-Pasco County Line; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7  
Civil Engineer I Project Completion: 2019

Alternative analysis for SR 595 to improve capacity, traffic operations, safety, and access. Evaluation of freight, transit, bicycle, and pedestrian movements to obtain FHWA Location and Design Concept Acceptance (LDCA). Responsible for:

- Producing base mapping plan set
- Developing alternative design concepts for each jurisdictional area and presenting alternative concepts to the Project Advisory Group and public

### **SR 70 SWAT from Lorraine Road to CR 675 Waterbury Road; Manatee County, FL**

*Owner:* Florida Department of Transportation, District 1  
Civil Engineer I Project Completion: 2022

An overlapping PD&E study with development of design documents for a capacity improvement. As a subconsultant to Kisinger, Campo and Associates, performing the public involvement and sociocultural effects analysis services for the PD&E study and independent peer review-signalization analysis under basic design services. Responsible for:

- Performing field work by photographing public meeting locations and landmarks

**Years of Experience:** 5

#### **Education:**

- Master of Business Administration in Project Management, University of South Florida
- Bachelor of Science in Civil Engineering, University of South Florida

#### **Professional Registration:**

- Professional Engineer: FL #90880

- Configuring property owner mailing list

#### **US 19 PD&E Study, 66th Avenue to 118th Avenue; Pinellas Park, FL**

*Owner:* Florida Department of Transportation, District 7

Civil Engineer I Project Completion: 2020

Reevaluation of a previous PD&E study, including new conceptual design, cost estimates, environmental studies, and public involvement initiatives for improvements to a 3.6-mile stretch of US 19 and the US 19/Gandy Boulevard interchange. Responsible for:

- Developing preliminary engineering report and existing conditions section

#### **Laurel Street Sidewalk Improvements, Frontage Road to Westshore Boulevard; Tampa, FL**

*Owner:* Westshore Alliance

Civil Engineer I Project Completion: 2018

Preliminary feasibility study for the construction of sidewalk, pavement spot repairs, and ADA improvements along a 0.75-mile stretch of municipal street, including preliminary design concepts and cost estimates and identification of potential right of way, utility, and storm sewer impacts. Responsible for:

- Performing ongoing roadway design updates and quantity calculations

#### **SR 70 PD&E Study, Jefferson Avenue to CR 29; Highlands County, FL**

*Owner:* Florida Department of Transportation, District 1

Civil Engineer I Project Completion: 2021

PD&E study to evaluate widening SR 70—on Florida’s Strategic Intermodal System (SIS) and critical hurricane evacuation route—from two lanes to four lanes, including assisting with extensive protected species field surveys, evaluating sociocultural effects and relocations, evaluating impacts to Section 4(f) resources, and conducting traffic and safety analyses. Responsible for:

- Identifying existing and future land uses of study limit area

#### **US 41/Main Street PD&E Study; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1

Civil Engineer I Project Completion: 2020

PD&E study for converting US 41/Main Street intersections into two-lane roundabouts, including environmentally sensitive and Section 4(f) areas, historic and cultural resources, protected species habitat, and context-sensitive design solutions. Responsible for:

- Performing roadway design of intersection alternatives
- Coordinating with District 1 to make adjustments to final conceptual design

#### **SR 79 PD&E Study, I-10 to Alabama State Line; Holmes County, FL**

*Owner:* Florida Department of Transportation, District 3

Civil Engineer I Project Completion: 2019

PD&E study to evaluate potential capacity improvements along a 17-mile emerging strategic intermodal system corridor, including analysis of bypass alternatives around downtown area and one-way pair alternatives. Responsible for:

- Developing existing conditions section of preliminary engineering report

#### **US 41 Roundabout Design, 10th Street to 14th Street; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1

Civil Engineer I Project Completion: 2020

Design to replace two existing signalized intersections on US 41 at 10th Street and 14th Street with two-lane roundabouts including landscaped centers, bicycle lanes, pedestrian signals, curb and gutter, lighting, and ITS/ATMS facilities. Design for wide-turn radiuses at 10th Street/US 41 to accommodate a corridor-adjacent boat launching facility. Development of construction staging plan to minimize disruption to traffic and pedestrians in a busy urban setting. Responsible for:

- Performing roadway design markups and adjustments

# Rob Swann, PE

## Signing & Signalization

Rob Swann, PE is a senior project engineer with over 33 years of experience in traffic operations and transportation engineering for local and state agency clients across Florida. Rob's areas of expertise include the development of signing and pavement markings, intelligent transportation system (ITS) plans, signalization, traffic calming, lighting design, and Contraflow systems. He also provides traffic monitoring sites, traffic signal inspection, and utility undergrounding design. Rob has played an active role developing project-specific solutions for transportation facilities that include intersection and median modifications, high mast lighting, conventional roadway design, and decorative, LED, and pedestrian lighting.



## PROJECT EXPERIENCE

### South Coast Greenway Trail Phase 1B PD&E Study; Hillsborough County, FL

*Owner:* Hillsborough County

Supervisor (Task Mgr.), Lighting Design Engineer | Project Completion: 2022

Project development and environment (PD&E) study for the South Coast Greenway Trail (Phase 1B) extending from the terminus of Phase 1A at SR 674 to 24th Street in Hillsborough County, Florida. The goal for the project was to recommend a trail alignment that connects to, and will be a part of, the South Coast Greenway Trail, which is supported by community and key project stakeholders. Proposed trail will provide recreational and non-motorized transportation opportunities for cyclists, in-line skaters, and pedestrians and link to important destinations, including parks and recreation facilities, public schools, town centers, and neighborhoods. Responsible for:

- Providing lighting design support and oversight

### District 7 Design Support Services; Tampa, FL

*Owner:* Florida Department of Transportation, District 7

Traffic Engineer I | Project Completion: 2019

GEC services for a five-year, \$30 million contract spanning transportation engineering, surveying, architecture, landscaping, geographic information systems, and management support with a primary focus on design-build procurements, active design-build contract support, in-house staff support, and right of way acquisition support, including appraisal, cost estimation, negotiation, relocation, and property management services. Task orders include I-75 at Martin Luther King Jr. Boulevard DDI conceptual design and procurement documents, Gateway Expressway Design-Build RFP development for an elevated tolled expressway, and analysis and development of alternative concepts for the Tampa Bay Next (TBNNext) program. Responsible for:

- Producing MSP for expressway and ramp connection approaches, toll by plate, and electronic tolling signage and ITS
- Conducting constructability solutions for concept plans with constrained conditions throughout new construction and existing limits
- Developing RFP criteria elements for FDOT, Florida Turnpike Enterprise (FTE) and St. Pete/Clearwater Airport
- Developing submittal reviews for signing, marking, and signalization

### Tampa Bay Next General Support Services; Tampa, FL

*Owner:* Florida Department of Transportation, District 7

Traffic Engineer I | Project Completion: 2023

Continuing services in support of FDOT District 7's TBNNext program to modernize Tampa Bay's transportation infrastructure and create a sustainable, comprehensive regional transportation system, including analysis and development of additional express lanes along all major interstates, tolling plan, master signing plan, operation and maintenance (O&M) reports, LRE cost estimates, and cost and schedule risk workshops. Responsible for:

- Developing RFP criteria elements and MSP
- Reviewing RFP and MSP from various design-build teams for discrepancies
- Coordinating with municipalities for traffic operations needs for the development of the RFP and concept plans

**Years of Experience:** 34

#### Education:

- Bachelor of Science in Civil Engineering, University of South Florida

#### Professional Registration:

- Professional Engineer: TN #119927
- Professional Engineer: NC #048193
- Professional Engineer: KY #31910
- Professional Engineer: GA #36852
- Professional Engineer: FL #59517

### **Central Avenue Bus Rapid Transit (BRT) Design; St. Petersburg, FL**

*Owner:* Pinellas Suncoast Transit Authority

Traffic Engineer | Project Completion: 2021

Preliminary engineering, final design, and post-design services for a new 22.7-mile BRT line along Central Avenue to improve corridor travel times and directly support the region's economic development initiative. Implementation of designated semi-exclusive business access and transit (BAT) lanes, including transit signal priority, off-board fare collection, communications, an advanced vehicle location system, security, and all-door level boarding as well as the design of 30 bus stations integrating art elements into shelter structures, railings, signage, panels, and lighting to further enhance the aesthetics of the corridor. Responsible for:

- Producing signing and pavement marking, traffic signalization, and station operation plans per client standards
- Coordinating with right-of-way needs, station design and development, utilities, subsurface utility investigation, and permitting

### **Manual on Uniform Traffic Control Devices (MUTCD) Curve Compliance Safety Analysis; Statewide, FL**

*Owner:* Florida Department of Transportation, Central Office

Project Manager | Project Completion: 2019

Curve Compliance Safety Analysis for over 2,500 curves across Florida. The curve analysis program and the FDOT geographic information system (GIS) platform had to be closely checked to make sure the curve relationship matched for over 8000 curves in the state. Responsible for:

- Preparing curve analysis which was performed from field data and processed with the Reiker Inc., Cure Advisory Reporting Service (CARS) Data Processing Program
- Reviewing curve approach and curve signing from the field signing inventory
- Verifying the curve data was accurate by utilizing GIS software

### **Gateway Expressway and TBNext Section 2 Design-Build Concept Plans and RFP; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Traffic Engineer | Project Completion: 2022

Design-build support for \$500 million Gateway Expressway: a new elevated, tolled facility connecting US 19, St. Petersburg-Clearwater Airport, and Bayside Bridge directly to I-275; and TBNext addition of express lanes along I-275 from South of Gandy Boulevard to North of 4th Street. Scope includes department and stakeholder coordination, consolidation of multiple design plans, and preparation of RFP and supporting documents including typical section, pavement design, variations/exceptions, and permits. Responsible for:

- Developing the Master Signing Plan (MSP) and ramp connection approaches

### **Haines Road Improvements, 60th Avenue to US 19; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

Project Engineer | Project Completion: 2018

Preliminary engineering report and plans for recommended alternative, including improvements to 1.5 miles of Haines Road and conversion from two-lane rural typical section to two-lane urban roadway with bicycle lanes, curb and gutter, and sidewalks. Responsible for:

- Developing signal design

### **US 41 Roundabout Design, 10th Street to 14th Street; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1

Lighting Design Engineer | Project Completion: 2020

Design to replace two existing signalized intersections on US 41 at 10th Street and 14th Street with two-lane roundabouts including landscaped centers, bicycle lanes, pedestrian signals, curb and gutter, lighting, and ITS/ATMS facilities. Design for wide-turn radiuses at 10th Street/US 41 to accommodate a corridor-adjacent boat launching facility. Development of construction staging plan to minimize disruption to traffic and pedestrians in a busy urban setting. Responsible for:

- Overseeing development of signalization design and construction plans
- Directing design and analysis for signing and pavement marking plans
- Coordinating permits and submittals
- Preparing post construction RFI's responses, shop drawings, and record drawing certification

# Joseph Samus Jr, PE, PTOE

## Traffic & Safety

Joseph Samus Jr., PE, PTOE, is a senior traffic engineer and planner specializing in transportation planning and traffic engineering for federal, state, and municipal clients. A published traffic professional, Joseph has provided detailed traffic development and operational analysis throughout his career, excelling in urban and regional planning, project and staff management, and a variety of production tasks including: application and development of travel demand models and reports; corridor operational analysis; and traffic development and forecasting; as well as performing Interchange Access Requests (IMRs, IJR, IOARs); and wide range of studies consisting of project development and environment (PD&E), planning, traffic, managed lane, and detailed corridor simulations.

Leading a diverse team of traffic engineering professionals, Joseph has pioneered 'Big Data' application on urban and regional transportation planning efforts and has made it an integral part of his team's multi-resolution approach and process to project analysis. Through his project experience and leadership, Joseph has become an industry leader in regional travel demand model development/application (VISUM, CUBE, AIMSUN, and TransCAD), study area regional flow analysis (VISUM, AIMSUN, and GIS Network Analyst), and corridor level visioning and operational analysis (VISSIM, AIMSUN, VISTRO, TransModeler, and Synchro).

Most recently, due to uncertainty in data collection due to COVID-19 related traffic depression, JJ led the efforts of developing a synthetic volume processing tool that utilizes INRIX Big Data to generate TMCs and ADT at the intersection and corridor level, in addition to producing queuing, travel times and speeds without collecting any raw data. This Lochner tool translates INRIX data into usable a format, using geospatial identification of OD pairs and leverages the OSM network, INRIX trip paths, and PTV software packages to create a multi-resolution modeling network for use in corridor level planning and analysis efforts.

## PROJECT EXPERIENCE

### Whiting Street Improvements PD&E Study; Hillsborough County, FL

*Owner:* Tampa-Hillsborough County Expressway Authority  
Supervisor (Traffic Team Leader) | Project Completion: 2022

PD&E study to evaluate needs, costs, and effects of realigning existing Whiting Street from Jefferson Street to North Meridian Avenue, as well as extending Washington Street from Nebraska Avenue to North Meridian Avenue to improve traffic flow, safety, and access within downtown Tampa. The project also includes the reconfiguration of the Selmon Expressway on-ramps at Jefferson Street and off-ramps at Florida Avenue and Channelside Drive. Responsible for:

- Conducting travel demand sub-area model calibration to be leveraged in traffic forecast
- Developing traffic forecast for the various build alternatives to identify operational deficiencies and alternative solutions
- Preparing a project traffic analysis report to provide context sensitive alternative solutions to mitigate congestion while maintaining unique identity of the corridor

### 126th Avenue North Improvements PD&E Study, US 19 to 34th Street North; Pinellas County, FL

*Owner:* Pinellas County Department of Public Works

Traffic Engineer | Project Completion: 2021

PD&E study within the Gateway Economic Development area for the widening and extension of 126th Avenue North, including analysis and assessment of impacts on social, economic, cultural and natural resources, to obtain Location and Design Concept Acceptance (LDCA). Responsible for:

- Conducting intersection analysis including travel demand forecasting, safety audit, and operational analysis leveraging the FDOT Intersection Control Evaluation process to identify innovative solutions to solve transportation needs
- Screening innovative roundabout concepts including a traditional, peanut, barbell, and turbo roundabout configurations
- Preparing a project traffic analysis report to analyze the operational impacts of completing the 126th corridor
- Performing safety audit to identify potential areas of concern



**Years of Experience:** 12

#### Education:

- Master of Science in Transportation Engineering, University of South Florida
- Bachelor of Science in Civil Engineering, University of South Florida

#### Professional Registration:

- Professional Engineer: FL #80489

#### Certifications:

- Graduate Certificate in Traffic Operational Analysis
- Professional Traffic Operations Engineer (PTOE)

### **Traffic Studies of I-75 (SR 826/Palmetto) Underpass, NW 146th Street/NW 159th Street, and NW 154th Street/NW 170th Street Bridge Opening; Miami Lakes, FL**

*Owner:* Town of Miami Lakes

Traffic Planner | Project Completion: 2019

Traffic study for SR 826/Palmetto underpasses at NW 146th Street and NW 159th Street as well as bridge opening at NW 154th Street/NW 170th Street to evaluate need based on population growth and new development construction. Study also includes signal warrant analysis at five intersections. Responsible for:

- Conducting travel demand sub-area model calibration to be leveraged in traffic forecast
- Developing traffic forecast for the various build alternatives to identify operational deficiencies and alternative solutions

### **Southeast Hillsborough County AIMSUN Modeling Analysis; Hillsborough County, FL**

*Owner:* Hillsborough County

Traffic Engineer | Project Completion: 2021

Multi-resolution modeling study to examine roadway operations, including 22 signalized intersections, in the forecast year (2045) and aid in identifying key investment opportunities for operational improvement under the County's Capital Improvement Program. Study leverages the County's newly developed countywide multi-resolution model developed in Aimsun. This model uses the Tampa Bay Regional Planning Model (TBRPM) forecasted demand, along with the County maintained signal timings and peak hour traffic counts, to simulate traffic at a macroscopic level (regional), mesoscopic level (broad study area, including traffic signal timings at intersections), and microscopic level (including car following algorithms and more detailed roadway geometry). This model utilizes stochastic route choice using a logit model and input traffic binned into 15-minute increments to best understand the impacts of operational changes through the study areas.

- Conducting intersection analysis including forecasting, safety audit, and operational analysis leveraging the FDOT Intersection Control Evaluation process to identify innovative solutions to solve transportation needs
- Conducting modeling analysis leveraging the County's AIMSUN modeling network to aid in the prioritization of 10 projects in northwest Hillsborough County and an additional five projects in the Brandon area. Recently tasked with updating the Functional Classifications for the County utilizing a combination of GIS and big data sources

### **Northwest Hillsborough County AIMSUN Modeling Analysis; Hillsborough County, FL**

*Owner:* Hillsborough County

Traffic Engineer | Project Completion: 2021

Multi-resolution modeling study to examine roadway operations, including 54 signalized intersections, in the forecast year (2045) and aid in identifying key investment opportunities for operational improvement under the County's Capital Improvement Program. Study leverages the County's newly developed countywide multi-resolution model developed in Aimsun. This model uses the Tampa Bay Regional Planning Model (TBRPM) forecasted demand, along with the County maintained signal timings and peak hour traffic counts, to simulate traffic at a macroscopic level (regional), mesoscopic level (broad study area, including traffic signal timings at intersections), and microscopic level (including car following algorithms and more detailed roadway geometry). This model utilizes stochastic route choice using a logit model and input traffic binned into 15-minute increments to best understand the impacts of operational changes through the study areas. Responsible for:

- Conducting intersection analysis including forecasting, safety audit, and operational analysis leveraging the FDOT Intersection Control Evaluation process to identify innovative solutions to solve transportation needs
- Conducting modeling analysis leveraging the County's AIMSUN modeling network to aid in the prioritization of 10 projects in northwest Hillsborough County and an additional five projects in the Brandon area. Recently tasked with updating the Functional Classifications for the County utilizing a combination of GIS and big data sources

### **SR 595 (Alternate US 19) Corridor Study, Belleair Road to Pinellas-Pasco County Line; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Traffic Engineer | Project Completion: 2019

Alternative analysis for SR 595 to improve capacity, traffic operations, safety, and access. Evaluation of freight, transit, bicycle, and pedestrian movements to obtain FHWA Location and Design Concept Acceptance (LDCA). Responsible for:

- Conducting travel demand sub-area model calibration to be leveraged in traffic forecast
- Developing traffic forecast for the various build alternatives to identify operational deficiencies and alternative solutions
- Preparing a project traffic analysis report to provide context sensitive alternative solutions to mitigate congestion while maintaining unique identity of the corridor
- Performing safety audit to identify potential areas of concern

# Sara Linares, EI, RSP1

Traffic & Safety | Sociocultural Effects & Land Use Planning

Sara Linares, EI, RSP1, is a seasoned planner who brings over a decade of experience performing safety-focused traffic engineering and planning-related tasks, including research, development, calculations, design, and delivery on projects. She has assisted in the design and production of traffic and safety studies as well as signing, pavement marking, and signalization plans. She has experience with systemic and traditional safety project development programming HSIP projects, benefit cost analysis, and crash data analysis; developing construction cost estimates, and conceptual and condition diagrams; developing GIS crash related heat maps and comprehensive project related graphics; and performing field roadway assessments, road safety audits, complete street studies, and corridor action plans. Sara has served as in-house support for both Florida Department of Transportation (FDOT) District 7 and District 1 in the Traffic Operations Departments. She is proficient in the use of several computer applications such as CDMS, Crash Analysis Reporting System (CARS), Signal4, Financial Management System (FM), Project Suite, Skid Hazard Reporting System (SHR), MicroStation and ArcGIS Pro.



**Years of Experience:** 10

**Education:**

- Bachelor of Science in Civil Engineering, University of South Florida

**Professional Registration:**

- Engineer In Training: FL #1100022391

**Certifications:**

- RSP1-Road Safety Professional

## PROJECT EXPERIENCE

### **Whiting Street Improvements PD&E Study; Hillsborough County, FL**

*Owner:* Tampa-Hillsborough County Expressway Authority

Planner I | Project Completion: 2022

Project development and environment (PD&E) study to evaluate needs, costs, and effects of realigning existing Whiting Street from Jefferson Street to North Meridian Avenue, as well as extending Washington Street from Nebraska Avenue to North Meridian Avenue to improve traffic flow, safety, and access within downtown Tampa. The project also includes the reconfiguration of the Selmon Expressway on-ramps at Jefferson Street and off-ramps at Florida Avenue and Channelside Drive. Responsible for:

- Providing the future safety analysis for recommended No Build and Build alternatives by utilizing the HSM Part C Methodology, Crash Modification Factor Methodology and Qualitative methodology, in accordance with the FDOT IARUG Safety Guidelines
- Assessing recommended improvements that align with the Vision Zero initiatives

### **US 301/US 98/Clinton Avenue Intersection Realignment Study; Pasco County, FL**

*Owner:* Florida Department of Transportation, District 7

Planner I | Project Completion: 2022

Intersection realignment study evaluating suitable improvement alternatives that eliminate the existing intersection offset of US 301 and US 98 & US 301 and Clinton Avenue; facilitate east/west travel; maximize the benefits from the current investment for the Clinton Avenue extension west of US 301 that is currently underway; and enhance safety along the corridor. Responsible for:

- Updating public involvement efforts to accommodate COVID-19 safety precautions and Hybrid Public Hearing procedures
- Reviewing safety data, safety statistics, and recommendations for the Intersection Realignment Study

### **I-75 (SR 93) Master Plan Study, East of SR 951 to SR 78 (Bayshore Drive); Collier and Lee Counties, FL**

*Owner:* Florida Department of Transportation, District 1

Planner I | Project Completion: 2024

Master plan study of additional capacity, including evaluation of adding express lanes to the interstate, analysis of the corridor's current and future capacity needs, and development of a transportation program to implement necessary improvements. Responsible for:

- Developing a Master Plan outline and creating an inventory of the current 5-year FDOT work program projects along with local/regional planned efforts
- Aiding updates to the existing conditions technical memorandum regarding safety related comments
- Assisting in scheduling and coordination efforts with task leads and subconsultants



### **Central Polk Parkway, SR 540 to SR 35-US 17; Polk County, FL**

*Owner:* Florida's Turnpike Enterprise

*Planner | Project Completion:* 2022

Lochner is providing support services as a subconsultant to KCA for two segments of this project. For the first segment, Lochner is providing public involvement and for the second segment, Lochner is providing public involvement and sociocultural effects evaluation services. Responsible for:

- Updating the Central Polk Parkway Public Hearing Summary Report

### **Traffic Continuous Services; Bartow, FL**

*Owner:* Florida Department of Transportation, District 1

*Planner | Project Completion:* 2020

This contract consisted of providing in-house support services within the Safety Department, as an extension of the FDOT District One staff. Responsible for:

- Prioritizing, evaluating, and submitting potential projects for HSIP Funding for Central Office
- Developing a prioritized lists of the district's high crash corridors involving motor vehicles and pedestrian/bicyclist
- Providing innovated intersection, lane departure, and pedestrian concepts and estimates for intersections, corridors, and systemic improvements
- Participating at CTST meetings, educational events and Road Safety Audits as a FDOT representative
- Reviewing the feasibility of citizen requests/concerns and provide them with updates and resolutions
- Providing technical comments from reviews of safety studies and reports; providing crash data, crash reports, and crash analysis for the department
- Assisting in preparing scopes of work, fee proposals and responses to RFPs

### **Districtwide Safety Studies; Bartow, FL**

*Owner:* Florida Department of Transportation, District 1

*Planner | Project Completion:* 2021

Task work order (TWO) based contract consisting of traffic engineering studies, safety studies, and alternative recommendations for high-crash locations prioritized by the District. TWO also included intersection safety analysis, corridor studies, road safety audits, concept design, and net-present-value and benefit-cost calculations for the purposes of Highway Safety Improvement Program (HSIP) funds. Safety recommendations align with the three E's in Florida's Strategic Highway Safety Plan: Engineering, Enforcement and Education. Responsible for:

- Assisting in the design and production of Safety Assessment reports, Road Safety Audits, intersection and arterial safety analysis as well as traffic studies, including before and after studies, technical memorandums, speed studies, gap studies, lighting justification reports, design variations and design exemptions
- Crash analysis and documenting crash statistics, producing collision, conditions and improvement diagrams in CADD, participating in pedestrian/bicycle crossing and traffic movement counts and evaluating safety recommendations by calculating benefit cost ratios, and net present values
- Supporting in-house continuing services contract with the development of the District's work program

### **Traffic Operational Studies and Design; FL**

*Owner:* Florida Department of Transportation, District 7

*Designer | Project Completion:* 2021

TWO-based contract consisting of intersection or arterial traffic engineering studies including safety studies for high-crash locations prioritized by the District. Responsible for:

- Assisting in the design and production of intersection or arterial safety analysis, and traffic studies
- Generating the existing conditions of high-risk locations throughout District 7, crash analysis and documenting crash statistics, engineer cost estimates producing collision, conditions and improvement diagrams in CADD, participating in pedestrian/bicycle crossing and traffic movement counts and evaluating safety recommendations by calculating benefit cost ratios, and net present values
- Developing and prioritizing candidate work program projects
- Coordinating candidate work program projects for potential conflicts and field review in several locations to review potential safety issues

# Kevin Connor

## Section 4(f) | Natural Resources

Kevin Connor is an environmental scientist supporting roadway and site development projects. He has performed wetland delineations in accordance with state and federal guidelines and has developed mitigation and remediation plans for hundreds of acres of wetlands throughout the state of Florida. He has considerable experience in environmental permitting and has attained environmental resource and Section 404 permits for roadway and development projects, as well as U.S. Coast Guard bridge permits, wildlife relocation permits, and local environmental permits. He is also knowledgeable in National Environmental Policy Act (NEPA) processes and documentation, as well as mitigation assessments. Kevin's specialty is in habitat assessments, wildlife surveys, and relocation. His Master's degree in zoology included three years monitoring the behavior of gopher tortoises—a designated threatened species in the state of Florida—as well as habitat evaluations to document the presence of amphibians and reptiles throughout the state's central and southern regions. He has applied this experience practically in many projects to create effective relocation plans and is certified by the Florida Fish and Wildlife Conservation Commission (FFWCC) as an Authorized Gopher Tortoise Agent.



**Years of Experience:** 26

### Education:

- Master of Science in Zoology, University of South Florida
- Bachelor of Science in Biology, Wake Forest University

### Certifications:

- Authorized Gopher Tortoise Agent
- Stormwater Management Inspector

## PROJECT EXPERIENCE

### South Coast Greenway Trail Phase 1B PD&E Study; Hillsborough County, FL

*Owner:* Hillsborough County

Task Manager | Project Completion: 2022

Project development and environment (PD&E) study for the South Coast Greenway Trail (Phase 1B) extending from the terminus of Phase 1A at SR 674 to 24th Street in Hillsborough County, Florida. The goal for the project was to recommend a trail alignment that connects to, and will be a part of, the South Coast Greenway Trail, which is supported by community and key project stakeholders. Proposed trail will provide recreational and non-motorized transportation opportunities for cyclists, in-line skaters, and pedestrians and link to important destinations, including parks and recreation facilities, public schools, town centers, and neighborhoods. Responsible for:

- Leading the development of trail alternatives and completing engineering and environmental evaluations

### Big Bend Road Environmental Reconfiguration; Hillsborough, FL

*Owner:* Florida Department of Transportation, District 7

Environmental Lead | Project Completion: 2023

Interchange reconfiguration extending and widening the southbound deceleration lane on I-75 at the Big Bend Road interchange including widening the bridge over Big Bend Road. Proposed improvements include acceleration ramps along eastbound and westbound Big Bend Road for northbound I-75 and the replacement of the Old Big Bend Road Bridge over Bullfrog Creek. In addition, preparation of wetland mitigation plans and protected species coordination with United States Fish and Wildlife Service (USFWS) are also included. Responsible for:

- Performing wetland delineations
- Leading the environmental permitting effort
- Preparation of design plans for an approximately nine-acre wetland mitigation site
- Coordinating with regulatory agencies

### I-10 (SR 8) PD&E Study, East of SR 261 (Capital Circle) to West of SR 59 (Gamble Road); Leon and Jefferson Counties, FL

*Owner:* Florida Department of Transportation, District 3

Environmental Lead | Project Completion: 2021

PD&E study for widening 13 miles of interstate from four lanes to six lanes, including Section 4(f) and Section 106 property assessment and interchange operational analysis report. Responsible for:

- Performing field work including collecting environmental data including wetland assessments and threatened and endangered species surveys
- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing NEPA documents that including the Natural Resources Evaluation (NRE), Essential Fish Habitat (EFH) assessment, Section 4(f) Determination of Applicability, and Type 2 Categorical Exclusion

### **US 98 Dupont Bridge PD&E Study; Bay County, FL**

*Owner:* Florida Department of Transportation, District 3

*Environmental Lead | Project Completion:* 2021

PD&E study for the replacement of the Dupont Bridge which is structurally deficient and has a substandard vertical clearance. The proposed replacement bridge will improve the vertical clearance to 65 feet to meet USCG requirements and will be capable of accommodating six lanes of traffic. Study also includes seagrass surveys, Section 7 consultations for marine and estuarine species including sea turtles, manatee, and Gulf sturgeon, as well as conducting an Essential Fish Habitat Assessment. Responsible for:

- Performing field work
- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing NEPA documents that including the Natural Resources Evaluation (NRE) and Essential Fish Habitat (EFH) assessment
- Coordinating with regulatory agencies

### **126th Avenue North Improvements PD&E Study, US 19 to 34th Street North; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

*Environmental Lead | Project Completion:* 2021

PD&E study within the Gateway Economic Development area for the widening and extension of 126th Avenue North, including analysis and assessment of impacts on social, economic, cultural and natural resources, to obtain Location and Design Concept Acceptance (LDCA). Responsible for:

- Coordinating with regulatory agencies
- Performing field work including collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing NEPA documents that including the Natural Resources Evaluation (NRE), Essential Fish Habitat (EFH) assessment, Section 4(f) Determination of Applicability, and Type 2 Categorical Exclusion

### **SR 30 (US 98) PD&E Study; Okaloosa & Santa Rosa Counties, FL**

*Owner:* Florida Department of Transportation, District 3

*Environmental Lead | Project Completion:* 2019

PD&E study for 24.6-mile segment of US 98, including widening from existing four-lane divided facility to six-lane divided facility with a raised median, sidewalks, and bicycle lanes, including evaluation of stormwater control measures affecting approximately 50 drainage basins discharging into the East Bay and Santa Rosa Sound, a habitat for numerous protected species. Responsible for:

- Performing field work
- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing NEPA documents including the wetland evaluation report, endangered species biological assessment, and essential fish habitat (EFH) assessment

### **US 41/Main Street PD&E Study; Sarasota, FL**

*Owner:* Florida Department of Transportation, District 1

*Environmental Lead | Project Completion:* 2020

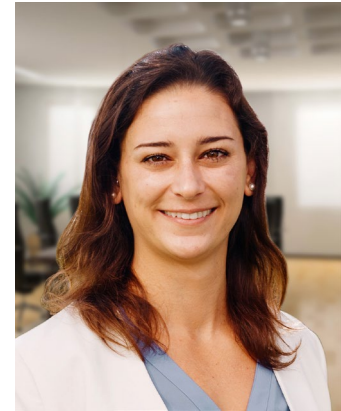
PD&E study for converting US 41/Main Street intersections into two-lane roundabouts, including environmentally sensitive and Section 4(f) areas, historic and cultural resources, protected species habitat, and context-sensitive design solutions. Responsible for:

- Performing field work
- Collecting environmental data including wetland assessments and threatened and endangered species surveys

# Alex Hipolito

## Natural Resources

Alex Hipolito is an environmental scientist on roadway and site development projects. She is proficient in field data collection for ecological assessments and protected species surveys and has performed wetland delineations in accordance with state and federal guidelines. Alex has experience in environmental permitting and has attained environmental resource permits for roadway and development projects as well as local environmental permits. In addition, Alex also has experience with Phase I and II environmental projects including soil and groundwater sampling, monitoring well installation, soil excavations, site dewatering oversight, emergency response for hazardous and non-hazardous releases, mineral oil dielectric fluid (MODEF) testing and abatement, asbestos abatement oversight, and is very knowledgeable with the National Environmental Policy Act (NEPA) processes, requirements, and documentation, including Natural Resources Evaluations (NRE). Alex is also certified by the Florida Fish and Wildlife Conservation Commission (FFWCC) as an Authorized Gopher Tortoise Agent which allows her to survey, bucket/live trap, transport, and capture gopher tortoises using hand shovel excavation of gopher tortoise burrows throughout Florida.



**Years of Experience:** 6

### Education:

- Bachelor of Science in Environmental Science, University of Tampa

### Certifications:

- 10-hour OSHA Construction Safety
- 24-Hour Mine Safety
- 40-Hour Hazwoper
- Authorized Gopher Tortoise Agent
- Certified PADI Advanced Scuba Diver
- CPR and AED
- First Aid

## PROJECT EXPERIENCE

### South Coast Greenway Trail Phase 1B PD&E Study; Hillsborough County, FL

*Owner:* Hillsborough County

Environmental Scientist | Project Completion: 2022

Project development and environment (PD&E) study for the South Coast Greenway Trail (Phase 1B) extending from the terminus of Phase 1A at SR 674 to 24th Street in Hillsborough County, Florida. The goal for the project was to recommend a trail alignment that connects to, and will be a part of, the South Coast Greenway Trail, which is supported by community and key project stakeholders. Proposed trail will provide recreational and non-motorized transportation opportunities for cyclists, in-line skaters, and pedestrians and link to important destinations, including parks and recreation facilities, public schools, town centers, and neighborhoods. Responsible for:

- Preparing and obtaining environmental permits through the federal and state regulatory agencies
- Performing wetland delineations and protected species surveys
- Conducting field reviews with regulatory agencies
- Preparing maps utilizing ArcGIS

### Tyson Avenue Improvements, West Shore Boulevard to Manhattan Avenue; Tampa, FL

*Owner:* City of Tampa

Environmental Scientist | Project Completion: 2021

Engineering services for the evaluation of improvements to an undeveloped right-of-way corridor along West Tyson Avenue including a two-lane facility with a multimodal trail, continuous two-way left-turn lane along Manhattan Avenue between Tyson Avenue and Gandy Boulevard, and stormwater improvements along Tyson Avenue west of West Shore Boulevard. Responsible for:

- Preparing an environmental technical memorandum addressing potential environmental impacts and conducting field reviews to assess land uses, potential wetlands, and protected species

### Whiting Street Improvements PD&E Study; Hillsborough County, FL

*Owner:* Tampa-Hillsborough County Expressway Authority

Environmental Scientist | Project Completion: 2022

PD&E study to evaluate needs, costs, and effects of realigning existing Whiting Street from Jefferson Street to North Meridian Avenue, as well as extending Washington Street from Nebraska Avenue to North Meridian Avenue to improve traffic flow, safety, and access within downtown Tampa. The project also includes the reconfiguration of the Selmon Expressway on-ramps at Jefferson Street and off-ramps at Florida Avenue and Channelside Drive. Responsible for:

- Conducting field reviews to assess land uses, potential wetlands, and protected species

### **Mainline Widening PD&E Study, Jupiter to Ft. Pierce; Multiple Counties, FL**

*Owner:* Florida's Turnpike Enterprise

Environmental Scientist | Project Completion: 2022

PD&E study in Palm Beach, Martin, and St. Lucie Counties to evaluate alternatives for widening of 36.7 miles of Florida's Turnpike (SR 91), including improvements to existing interchanges and evaluation of new access locations. Responsible for:

- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing maps utilizing ArcGIS

### **126th Avenue North Improvements PD&E Study, US 19 to 34th Street North; Pinellas County, FL**

*Owner:* Pinellas County Department of Public Works

Environmental Scientist | Project Completion: 2021

PD&E study within the Gateway Economic Development area for the widening and extension of 126th Avenue North, including analysis and assessment of impacts on social, economic, cultural and natural resources, to obtain Location and Design Concept Acceptance (LDCA). Responsible for:

- Preparing NEPA documents including the Natural Resource Evaluation (NRE) report
- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing maps utilizing ArcGIS

### **I-10 (SR 8) PD&E Study, East of SR 261 (Capital Circle) to West of SR 59 (Gamble Road); Leon and Jefferson Counties, FL**

*Owner:* Florida Department of Transportation, District 3

Environmental Scientist | Project Completion: 2021

PD&E study for widening 13 miles of interstate from four lanes to six lanes, including Section 4(f) and Section 106 property assessment and interchange operational analysis report. Responsible for:

- Preparing NEPA documents including the Natural Resource Evaluation (NRE) report
- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing maps utilizing ArcGIS

### **SR 29 PD&E Study, Oil Well Road to SR 82; Collier County, FL**

*Owner:* Florida Department of Transportation, District 1

Environmental Scientist | Project Completion: 2021

PD&E study for construction of an Immokalee bypass, including evaluation of impacts to wetlands, Native American lands, contaminated sites, historic and recreational resources, migrant farm worker communities, and Florida panther habitat. Responsible for:

- Preparing NEPA documents including the Natural Resource Evaluation (NRE) report
- Collecting environmental data including wetland assessments and threatened and endangered species surveys
- Preparing maps utilizing ArcGIS

### **Memorial Causeway Bridge Lighting Design; Clearwater and Pinellas County, FL**

*Owner:* City of Clearwater

Environmental Scientist | Project Completion: 2021

Coordination to obtain as-builts and permitting requirements from FDOT and the USCG Waterways to design dynamic LED color aesthetic lighting to bridge columns. This type of lighting will require coordination between City staff, permit agencies, and manufacturers of dynamic lighting systems and utility owners. Design plans will utilize the existing as-builts and aerials from concept drawings provided by a lighting manufacturer that provides the best alternative for the bridge. Responsible for:

- Preparing and obtaining environmental permits through the federal and state regulatory agencies

### **SR 8 (I-10) Lane Construction, Yellow River Relief Bridges to SR 85 (Ferdon Boulevard); Okaloosa County, FL**

*Owner:* Florida Department of Transportation, District 3

Environmental Scientist | Project Completion: 2022

Design for \$48 million replacement of existing twin bridges at the I-10/SR 85 interchange to meet current vertical clearance criteria, widening to accommodate three 12-foot travel lanes and two 12-foot shoulders in each direction of I-10, and coordination with a new DDI configuration at SR 85. Responsible for:

- Preparing and obtaining environmental permits through the federal and state regulatory agencies
- Performing wetland delineations and protected species surveys
- Conducting field reviews with regulatory agencies

# Joshua Noftz

## Renderings & Graphics

Josh Noftz is a creative services manager specializing in creating visuals that effectively communicate transportation designs to the public. Josh is responsible for managing and developing high-detailed three-dimensional models, renderings, animations, graphics, virtual presentations, and video production throughout the entire creative development process and bring strategic ideas to life through creative ideation and flawless execution for a variety of state and local agencies including the Florida Department of Transportation (FDOT). He is an expert in inter-departmental coordination and communication, as well as consulting and collaborating with clients, project managers, and design team members to produce high quality project deliverables applying innovative technologies and workflows that improve efficiency on a variety of transportation infrastructure projects. Josh is proficient in a variety of graphic software including Autodesk 3D Max, Adobe After Effects, Adobe Creative Suite, Unreal Engine, Maproom, Earth Studio, and Sketchup.



**Years of Experience:** 16

### Education:

- Bachelor of Science in Computer Animation, International Academy of Design and Technology

## PROJECT EXPERIENCE

### Whiting Street Improvements PD&E Study; Hillsborough County, FL

*Owner:* Tampa-Hillsborough County Expressway Authority

Graphic Designer | Project Completion: 2022

Project development and environment (PD&E) study to evaluate needs, costs, and effects of realigning existing Whiting Street from Jefferson Street to North Meridian Avenue, as well as extending Washington Street from Nebraska Avenue to North Meridian Avenue to improve traffic flow, safety, and access within downtown Tampa. The project also includes the reconfiguration of the Selmon Expressway on-ramps at Jefferson Street and off-ramps at Florida Avenue and Channelside Drive. Responsible for:

- Creating and managing the production of project graphics

### I-10 (SR 8) PD&E Study, East of SR 261 (Capital Circle) to West of SR 59 (Gamble Road); Leon and Jefferson Counties, FL

*Owner:* Florida Department of Transportation, District 3

Graphic Designer | Project Completion: 2021

PD&E study for widening 13 miles of interstate from four lanes to six lanes, including Section 4(f) and Section 106 property assessment and interchange operational analysis report. Responsible for:

- Creating and managing the production of project graphics

### Cortez Bridge (SR 684) Replacement Design, Gulf Drive (SR 789) to 123rd Street West; Manatee County, FL

*Owner:* Florida Department of Transportation, District 1

Graphic Designer | Project Completion: 2028

Design for \$75 million replacement of existing low-level bascule Cortez Bridge (SR 684) with a 3,000-foot-long, high-level fixed bridge incorporating 20 Florida I-Beam spans to maximize span length and minimizing the number of piers in Intercoastal Waterway. Responsible for:

- Creating interactive visualizations and virtual reality model for public involvement efforts
- Managing the production for an interactive three-dimensional model application which allows the user to view the project from any angle within approximately one-square-mile of the project, including real-time time-of-day scenarios, driver and pedestrian views, and informational callouts

### District 7 Design Support Services; Tampa, FL

*Owner:* Florida Department of Transportation, District 7

Graphic Designer | Project Completion: 2019

GEC services for a five-year, \$30 million contract spanning transportation engineering, surveying, architecture, landscaping, geographic information systems, and management support with a primary focus on design-build procurements, active design-build contract support, in-house staff support, and right of way acquisition support, including appraisal, cost estimation, negotiation, relocation, and property management services. Task orders include I-75 at Martin Luther King Jr. Boulevard DDI conceptual design and procurement documents, Gateway Expressway Design-Build RFP development for

an elevated tolled expressway, and analysis and development of alternative concepts for the Tampa Bay Next (TBNNext) program. Responsible for:

- Managing and developing three-dimensional models, animations, and graphics for multiple projects within the contract

### **Central Polk Parkway SR 540 to SR 35-US 17; Polk County, FL**

*Owner:* Florida's Turnpike Enterprise

Graphic Designer | Project Completion: 2022

Support services as a subconsultant to KCA for two segments of this project, including public involvement and sociocultural effects evaluation services. Responsible for:

- Assisting in the production of presentations and graphics used for public outreach

### **Carolina Pines Avenue Street Improvements, Lake Wheeler Road to South Saunders Street; Raleigh, NC**

*Owner:* City of Raleigh

Graphic Designer | Project Completion: 2021

Safety and mobility improvements including traffic calming utilizing horizontal deflection methods, traditional and mini roundabouts, sidewalk and multi-use path, improved railroad crossing, and a boardwalk structure over Carolina Pines Lake.

Responsible for:

- Creating and managing the production of the three-dimensional digital scale model and animation

### **SR 523 (N/NE 145th Street) and I-5 Interchange Project; Shoreline, WA**

*Owner:* City of Shoreline

Graphic Designer | Project Completion: 2021

Design and construct multi-lane, roundabout intersections at the Interstate 5 southbound ramp terminals and at the intersection of NE 145th Street and 5th Avenue NE. Re-channelize the existing NE 145th Street overpass to accommodate an 11-foot and a 12-foot vehicle lane in both directions, a 3-foot median, a buffered, 10-foot bicycle/pedestrian lane on the north side of the overpass. The existing pedestrian walkways on the north and south sides of the overpass will be retained.

Responsible for:

- Creating and managing the production of the three-dimensional digital scale model and animation

### **US 19 Reconstruction, North of SR 580 to Northside Drive; Pinellas County, FL**

*Owner:* Florida Department of Transportation, District 7

Graphic Designer | Project Completion: 2028

Design to convert 1.5-mile section of US 19 from a six-lane arterial to an elevated, six-lane controlled-access expressway with two-lane, one-way frontage roads, and an at-grade pedestrian thruway beneath the elevated road profile. Project also includes design of a U-turn overpass, development of a 2.5-mile traffic study to determine an optimal interchange configuration, and oversight of drainage, ITS design, and traffic control planning. Responsible for:

- Managing the creation of high-detail models and drive-throughs of the project area

### **Dade Boulevard Shared-Use Path and Road Diet Feasibility Study; Miami Beach, FL**

*Owner:* City of Miami Beach

Graphic Designer | Project Completion: 2022

Feasibility study for implementation of multimodal access improvements to/from the Miami Beach Convention Center and surrounding areas, including hybrid lane reduction improvements by removing turn bays and adding bidirectional protected bike lanes, a shared use path connection to Miami Beach High School, and crosswalk bicycle signals. Responsible for:

- Creating and managing the production of project graphics

### **US 301/US 98/Clinton Avenue Intersection Realignment Study; Pasco County, FL**

*Owner:* Florida Department of Transportation, District 7

Graphic Designer | Project Completion: 2022

Intersection realignment study evaluating suitable improvement alternatives that eliminate the existing intersection offset of US 301 and US 98 & US 301 and Clinton Avenue; facilitate east/west travel; maximize the benefits from the current investment for the Clinton Avenue extension west of US 301 that is currently underway; and enhance safety along the corridor. Responsible for:

- Creating and managing the production of project graphics

# Khan Lamvichit

## Renderings & Graphics

Khan is a graphic designer responsible for developing and implementing a wide array of materials including the production of graphics, layouts, webpages, and visuals and animations from conceptualization to delivery. He is an expert in inter-departmental coordination and communication and is skilled at consulting and collaborating with clients, project managers, and design team members to produce high quality project deliverables. Khan is highly skilled with Adobe Creative Cloud (Photoshop, InDesign, Illustrator, AfterEffects, and Flash) and many other graphics design software applications. He is a dynamic and accomplished graphics professional who possesses the ability to stretch the boundaries of design and digital storytelling.



## PROJECT EXPERIENCE

### US 41/Main Street PD&E Study; Sarasota, FL

Owner: Florida Department of Transportation, District 1

Graphic Designer | Project Completion: 2020

Project development and environment (PD&E) study for converting US 41/Main Street intersections into two-lane roundabouts, including environmentally sensitive and Section 4(f) areas, historic and cultural resources, protected species habitat, and context-sensitive design solutions. Responsible for:

- Creating animation of driver's view traveling through roundabouts showing the functional purpose for the public
- Plotting labels and call outs showing historic areas, interstate signs, and existing roads for aerial layout
- Creating demonstrative exhibits for presentation

### SR 29 PD&E Study, Oil Well Road to SR 82; Collier County, FL

Owner: Florida Department of Transportation, District 1

Graphic Designer | Project Completion: 2021

PD&E study for construction of an Immokalee bypass, including evaluation of impacts to wetlands, Native American lands, contaminated sites, historic and recreational resources, migrant farm worker communities, and Florida panther habitat. Responsible for:

- Identifying existing areas, roads, and state roads with labels, call outs, and plotted typicals for aerial site layout
- Redesigning and conceptualizing future roads and highways through visual aids
- Creating large exhibits for presentation

### SR 595 (Alternate US 19) Corridor Study, Belleair Road to Pinellas-Pasco County Line; Pinellas County, FL

Owner: Florida Department of Transportation, District 7

Graphic Designer | Project Completion: 2019

Alternative analysis for SR 595 to improve capacity, traffic operations, safety, and access. Evaluation of freight, transit, bicycle, and pedestrian movements to obtain FHWA Location and Design Concept Acceptance (LDCA). Responsible for:

- Redesigning PowerPoint presentation for public meeting
- Recreating slides and graphics for PowerPoint use
- Designing and conceptualizing graphics for map layouts, letter heads, newsletters, fact sheets, postcards, directional signs and large exhibits for public meeting

### Trial Exhibits, Inc.; Tampa, FL

Production Manager

- Led design team in design, development, and implementation of graphics, layout, and animation production while meeting deadlines
- Supervised assessment of all graphic materials and projects to ensure the quality and accuracy of design
- Consulted and collaborated with clients, account managers, and design team to obtain data to produce accurate graphic design and animation
- Developed and designed numerous marketing programs (brochures, newsletters, presentations, and advertisements) for company marketing strategy and brand
- Illustrated storyboards using story, script, and shot list as references for animation projects
- Edited videos and created DVDs using Premeire, AfterEffects, and PowerDVD maker

**Years of Experience:** 12

#### Education:

- Bachelor of Arts in Animation and Art, University of Central Florida



Mr. Fischer has more than 22 years of experience in bridge design and plans production. His extensive experience includes Florida-I Beams, AASHTO girders, steel plate and box girders, concrete segmental box girders, bridge widenings, shallow and deep end bents, C-Piers, multi-column piers, straddle piers, sheet pile wall design, retaining wall design, steel H-pile design, box culvert design, spread footings, span and cantilever signs, mast arms and strain poles. Mr. Fischer has also been responsible for preparing Bridge Development Reports, shop drawing review, and design support during construction of projects.

## REPRESENTATIVE PROJECT EXPERIENCE

**Seminole-Wekiva Trail, Grade Separated Crossings Feasibility Study - Seminole County, FL** - This study project includes an analysis of potential grade separated crossing structure options for future construction at existing at-grade multi-use trail crossings of SR 436 at Laurel Street and SR 434 at Orange Avenue. Multiple overpass and tunnel alternatives are being evaluated at each intersection. A report including analysis of the structural options, profile and alignment, impacts to existing utilities and traffic signals, impacts to adjacent parcel owners, coordination with stakeholder agencies, maintenance of traffic during construction, existing trail realignment and continuation of existing pedestrian access, drainage and permitting and a construction cost estimate for each final alternate will be presented to the Board of County Commissioners at the conclusion of the study. Mr. Fischer is serving as Project Manager and Lead Structures Engineer.

**Casselberry Bike Trail, Wirz Park – City of Casselberry - Seminole County, FL** - Served as Structures Engineer of Record responsible for design and plans production of a pedestrian, bicycle and maintenance vehicle accessible timber boardwalk for this trail project.

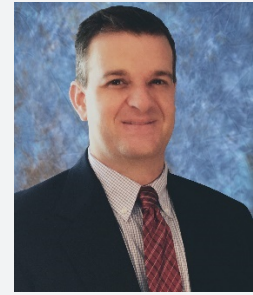
**Cross Seminole Trail, Improvements to Pedestrian Bridge over US 17-92 – Seminole County, FL** - This project will introduce pedestrian connectivity for the existing Cross Seminole Trail pedestrian bridge over US 17-92 to the existing grade separated sidewalks located on either side of US 17-92. The proposed 10' and 8' wide sidewalk and ramp systems, located on the east and west side of US 17-92 respectively, will each be ADA compliant and designed to minimize impacts to the existing natural features adjacent to the Trail. Mr. Fischer is serving as Project Manager and Structures Engineer of Record for the back-to-back retaining walls that will support the ramps.

**ECRR Trail from Providence Blvd. to SR 415, County of Volusia Engineering and Construction - Volusia County, FL** - Served as Structures Engineer of Record responsible for design and plans production of a pedestrian, bicycle and maintenance vehicle accessible timber boardwalk for this trail project.

**SR 528 from E. of SR 524 (Industry) to E. of SR 3 - FDOT District 5 - Brevard County, FL** – This project includes widening and reconstruction of SR 528 (SR A1A/Martin Andersen Beachline Expressway/Astronaut Boulevard) from 4 to 6 lanes from east of SR 524 to east of SR 3. The project includes replacement of the bridges over US 1, SR 3, the Indian River Relief Channel, and the westbound bridge over the Indian River. A shared-use trail is also included on the north side of SR 528. Mr. Fischer is responsible for QC for all plan components for the bridges over the Indian River Relief Channel.

**SR 415 over St. Johns River – FDOT District 5 - Seminole and Volusia Counties, FL** - Performed preliminary design calculations including ship impact study of existing AASHTO beam bridge, BDR design and cost analysis of all components at all project bridge sites, and QA/QC review of BDR reports for contract consisting of a proposed multi-span AASHTO beam bridge with a continuous steel plate girder unit over the navigational channel, a continuous steel plate girder multi-span replacement retrofit to the navigational channel spans of an existing bridge adjacent to the location of the proposed bridge, a proposed four-span flat slab vehicular traffic bridge over the Relief Channel and a four-span flat slab multi-use trail bridge over the Relief Channel.

**Orange County Deficiency Repair Plans – Orange County, FL Public Works** – Structures Engineer of Record for deficiency repair plans for four existing bridges (Bates Road over Crane Strand Canal, Buck Road over Little Econ River, Temple Trail over Howell Branch Creek and Old Winter Garden over SR 408). Deficiencies included spalls and cracks in



## EDUCATION

Master of Engineering,  
Structural Engineering,  
University of Florida, 1999  
Bachelor of Science, Civil  
Engineering, University of  
Florida, 1997

## CERTIFICATION

PE Florida, No. 60074, 2003

**YEARS OF EXPERIENCE: 22**

prestressed beam concrete topping, pedestrian sidewalk structural steel framing members to intermediate bent cap connection, exposed reinforcement and prestressing strands, embankment protection and approach slab settlement or erosion and repair to failed MSE wall slip joint.

**Rhode Island Avenue over I-4 - FDOT District 5 - Volusia County, FL** - Managed the design of a 386 ft. long three span bridge with pedestrian sidewalk consisting of AASHTO beam superstructure and multi-column pier substructure founded on prestressed concrete piles.

**SR 44 over St. Johns River - FDOT District 5 - Lake and Volusia Counties, FL** – The purpose of this project was to provide a new 10-span Florida-I Beam bridge replacement over the navigable St. Johns River and improvements to the approach roadways on either side, including MSE walls and traffic signals. Design engineering responsibilities that Kevin provided included approximately 71,000 square feet of permanent and temporary-critical steel sheet pile wall.

**Continuing Services Contract for Roadway Design #001 and #002, District Wide - FDOT District 5** - This contract included miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: Lighting Retrofit, SR 482 Sidewalk and EE Williamson Bridge Replacement.

**Continuing Services Contract for Roadway Design #11, District Wide - FDOT District 5** - This contract includes miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: SR 519, SR 552, I-4 RRR and I-4 SR 429 Aux Lanes.

**Install CCTV Cameras Turnpike Wide - Florida's Turnpike Enterprise** - Structures Engineer of Record responsible for 20 new CCTV camera support pole structures in various Dade, Broward, Palm Beach, Martin and St. Lucie County locations along SR 821, SR 869 and SR 91.

**Structural Analysis for Signal Improvement at Ten Sites within FDOT District 5** – Horizon prepared Signal Structures Reports for existing mast arms and span wire signals at ten sites across multiple Central Florida counties as part of this Continuing Services Contract with FDOT District 5. The reports included analysis of proposed modifications to the existing structures and visual assessments of the structures from visits to each site. Mr. Fischer provided Quality Control for each report.

**SR 417 widening from Landstar Boulevard to Boggy Creek Road, Orange County, FL - CFX** - Horizon served as the prime design consultant for the SR 417 widening from Landstar Boulevard to Boggy Creek Road. The project consisted of widening from 4 to 6 lanes with inside shoulders to serve as an additional lane for part time shoulder running in the future. Mr. Fischer served as Structures Engineer of Record for four ground mounted concrete noise walls with approximately 11,000' of combined wall length.

**SR 44 over St. Johns River - FDOT District 5 - Lake and Volusia Counties, FL** - The purpose of this project was to provide a new 10-span Florida-I Beam bridge replacement over the navigable St. Johns River and improvements to the approach roadways on either side, including MSE walls and traffic signals. Design engineering responsibilities that Mr. Fischer provided included a signalization structure consisting of four concrete strain poles in a rectangular configuration.

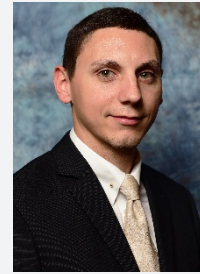
**SR 19 over Little Lake Harris (Design Build) - FDOT District 5 - Lake County, FL** – This replacement bridge design/build project included the design of approximately 1200' of precast concrete privacy walls and one multi-post sign for which Mr. Fischer was responsible for designing, among other tasks.

**SR 429, Wekiva Parkway 7A - FDOT District 5 - Seminole County, FL** - Mr. Fischer was Structures Engineer of Record for one single cell two-phased construction box culvert terminating at the face of an MSE wall, 11 elevated overhead span and cantilever signs supported on cast-in-place aesthetic columns and 4 traffic signal mast arms.

**SR 400 (I-4) Interchange at SR 46 (Design Build) - FDOT District 5 - Seminole County, FL** – As part of this bridge widening project, 11 cantilever and span sign structures, seven high mast lighting structures and nine traffic signal mast arms were designed by Mr. Fischer who was also Structures Engineer of Record.

**SR 40 from SR 11 to Cone Road - FDOT District 5 - Volusia County, FL** - Design Engineer responsible for a signalization structure consisting of 4 concrete strain poles in a rectangular configuration, 2 new concrete box culverts including a wildlife crossing with special ventilation chimney attachments, and three concrete box culvert extensions as part of this corridor improvement project.

Mr. Kirkpatrick's experience includes structural design of transportation structures, which include all bridge components as well as miscellaneous structures (sign structures and mast arm signals); reviewing shop drawings for bridge components, miscellaneous structures, and mechanically stabilized earth (MSE) walls; assisting in plan preparations for all stages of submittals; and reviewing and incorporating owner comments on plan submittals. He is proficient in a variety of structural analysis software, including FB-MultiPier, LEAP Bridge Enterprise, Shoring Suite, ATLAS, STAAD, as well as various FDOT-generated Mathcad programs and Microstation.



## REPRESENTATIVE PROJECT EXPERIENCE

**SR 33 over Green Swamp CSI, Lake County, FL – FDOT District 5** – This FDOT in-house design project involved the replacement of the existing SR 33 Bridge over Green Swamp, minor drainage, guardrail, and other roadway improvements. Horizon was responsible for the temporary traffic control plans, and the design of the bridge which involved a temporary detour ACROW bridge, phased construction of the proposed bridge, and temporary critical walls. Reid was responsible for the design of the temporary detour ACROW bridge geometry and substructure, the proposed bridge substructure, temporary critical sheet pile wall designs, and plans production. Mr. Kirkpatrick was also in charge of coordinating with Roadway for their TCP and the Geotechnical Engineer.

**US 27 from Barry Road to US 192, Lake County, FL – FDOT District 5** – This project consisted of a 450' Cast-In-Place Retaining Wall designed for pedestrian loading. Reid was an Engineering Intern responsible for structural design of the cast-in-place (CIP) retaining wall and plan preparations.

**EE Williamson Bridge Replacement over SR 400 (I-4), Seminole County, FL – FDOT District 5** – This project includes the replacement of the existing EE Williamson Road Bridge over SR 400 (I-4) (MP 5.135), from Sunshine Tree Blvd. to 200' East of Penelope Drive. EE Williamson Road typical section will be a 3-lane curb and gutter section with a 6' sidewalk along the south and 10' trail on the north. Horizon is responsible for the roadway design, bridge design, drainage and permitting, and utility coordination. This project required coordination with the future Beyond I-4 Ultimate project. Reid was an Engineering Intern responsible for the geometric layout and design of temporary critical walls (soldier pile & sheet pile) to accommodate the phased construction and the MOT associated with it. In addition to that, Reid was responsible for the design of bridge components which included vertical geometry, Finish Grade Elevations, MVC, beam build-ups, pedestal elevations, substructure geometry, substructure design QC, deck design QC, and plans production QC.

**US 92 (SR 600) Pedestrian HAWK Signal – Pedestrian Hybrid Beacon at Highland Drive, Volusia County, FL – FDOT District 5** – This project is a Task Work Order within a District 5 Continuing Services Contract and consisted of installing a midblock crosswalk supplemented with a High Intensity Activated Crosswalk (HAWK) signal, construction of pedestrian curb ramps as well as pedestrian lighting with associated roadway, drainage, utility coordination, and signing and pavement marking. Reid was the Structural Engineer of Record and responsible for the QC of the Mast Arm calculations, calculation packages, and plans production.

**US 92 (SR 600) Pedestrian Signal at Hilton and Falcon Way, Volusia County, FL – FDOT District 5** – This project is a Task Work Order within a District 5 Continuing Services Contract and consisted of installing a midblock crosswalk supplemented with a High Intensity Activated Crosswalk (HAWK) signal, construction of pedestrian curb ramps as well as pedestrian lighting with associated roadway, drainage, utility coordination, and signing and pavement marking. Reid was the Structural Engineer of Record and responsible for the design of the light pole spread footing and associated calculation package. Reid was also responsible for the QC of the Mast Arm calculations, Mast Arm calculation packages, and plans production for the spread footing and Mast Arms.

## EDUCATION

- B.S. Civil Engineering, University of Central FL, 2014

## CERTIFICATION

- PE FL, No. 87838, 2019
- PE NC, No. 048843, 2019

## MEMBERSHIPS

- American Society of Civil Engineers

## YEARS OF EXPERIENCE: 6

**SR 528 from E. of SR 524 (Industry) to E. of SR 3, Brevard County, FL – FDOT District 5** – This project includes widening and reconstruction of SR 528 (SR A1A/Martin Andersen Beachline Expressway/Astronaut Boulevard) from 4 to 6 lanes from east of SR 524 to east of SR 3. The project includes replacement of the bridges over US 1, SR 3, the Indian River Relief Channel, and the westbound bridge over the Indian River. A shared-use trail is also included on the north side of SR 528. Reid is an Engineer responsible for plans production QC for the bridges over CR 515 and the Indian River Relief Channel.

**SR 40 from End of 4-Lanes to East of CR 314, Marion County, FL – FDOT District 5** – SR 40 involves the reconstruction of 4.5 miles of a 2-lane rural section to a 4-lane high speed rural divided facility, including roadway design, drainage design, utility coordination, MSE walls, two separate 2-lane 2,250' bridge structures over the Ocklawaha River, 100' bridges over Half Mile Creek, two separate 50' wildlife crossing bridges, and permitting. Reid was an Engineering Intern responsible for the plans update for the Pedestrian bridge over Half Mile Creek. This included design calculation updates for current standards and follow through changes to the plans.

**I-4 Ultimate, P3-Public Private Partnership (Design Build), Seminole County, FL – FDOT District 5** – This P3 project involves reconstruction of 22.11 miles of I-4 to accommodate 2 managed lanes, 3 general use lanes, and auxiliary lanes in each direction. Horizon is responsible for area 4D which involved the last 2.6 miles of the project. Efforts included roadway design, drainage design, temporary traffic control plans, and bridge designs which includes the SR 434 interchange. Reid was an Engineering Intern responsible for the design calculations for the pile change revision from concrete prestressed piles to steel pipe piles at the SR 434 Bridge as well as plans preparation. Reid was also responsible for design calculations and the written response as part as a Field Change Request for beam and bearing pad as-built geometry. Reid was the Engineer of Record for a Request for Modification of Pier reinforcing couplers.

**SR 482 Widening Turkey Lake Rd. to Universal, Orange County, FL – FDOT District 5** – This project consisted of Five Steel Sheet Pile Walls with concrete facing of varying lengths from 106' to 448'. Reid was an Engineering Intern responsible for steel sheet pile wall elevations and assisting in plan preparation for the wall sheets.

**Jork Road Bridge over Little Pottsburg Creek, Duval County, FL – City of Jacksonville, FL** – This project consisted of 36' Single Span FL Slab Beam Bridge utilizing steel H Piles along with wrap-around steel sheet pile walls. Reid was an Engineering Intern responsible for structural design of bridge components, including substructure, beam design, deck design, bearing pad design, expansion joints, and steel sheet pile wall design. Also assisted in plan preparation.

**Riverfront Park Bulkhead Replacement, Duval County, FL – FDOT District 2** – This project consisted of a 690' Steel Sheet Pile Wall with Concrete Bulkhead on the bank of Saint Johns River to replace an existing failing bulkhead. Reid was an Engineering Intern responsible for structural design of steel sheet pile wall options.

**I-95 from North of NW 29th Street to South of NW 131st Street, Miami-Dade County, FL – FDOT District 4** – This project consisted of Pavement Rehabilitation for fourteen bridges with five of them requiring barrier replacements and load rating analysis performed. Reid was an Engineering Intern responsible for the load rating analysis of three of the five barrier replacement bridges as well as assisting in plan preparation for northbound approach slab sheets.

**I-95 Widening from North of SR 44 to North of US 92, Volusia County, FL – FDOT District 5** – This project consisted of eighteen Concrete Superstructure Bridges consisting of both widenings and bridge replacements utilizing prestressed concrete piles. Reid was an Engineering Intern responsible for the concrete deck designs for five of the bridges and assisting in plan preparations for those items. He also reviewed shop drawings for stay-in-place forms, end bent backwall straps, dynamic message signs (DMS) and overhead sign structures.

**SR 482 Widening Plans Update Universal to John Young Parkway, Orange County, FL – FDOT District 5** – This project consisted of four prestressed concrete beam widenings with bridge lengths varying from 178' to 254' and one prestressed concrete beam bridge replacement with bridge length of 300'. He was an Engineering Intern responsible for structural design of all bridge substructures utilizing steel H piles or prestressed concrete piles, all widening bridge superstructures which includes concrete deck, beam designs, bearing pad, expansion joint, and beam stability design. Reid also assisted in shop drawings of end bent backwall straps and plan preparation for all bridges, including reviewing and implementing owner comments.

Mrs. Olivera holds a Master's degree in Biological Systems Engineering and has experience in water resources engineering and Project Management. She is currently the manager for Horizon's Drainage Department. Her experience includes large-scale drainage studies and hydraulic, hydrologic and scour analysis studies to support transportation design projects and related work. She is well versed in several stormwater modeling programs, including ASAD, ICPR, CHAN, WSPRO, HEC-RAS, HEC-1 and HEC-2, and she is also proficient in GEOPAK Drainage and MicroStation. Transportation projects include limited access facilities, major reconstruction and widenings in rural and urban areas, multi-use trails, and RRR (milling and resurfacing).



#### EDUCATION

- B.S. Agricultural Engineering, Virginia Tech, 1994
- M.S. Biological Systems Engineering, Virginia Tech, 1997

#### CERTIFICATION

- PE Florida, No.56056, 2000
- FDOT Certification - Specification Package Preparation

**YEARS OF EXPERIENCE: 24**

### REPRESENTATIVE PROJECT EXPERIENCE

**South Sumter Connector Trail PD&E, Sumter County, FL - FDOT District 5 -** The South Sumter Connector Trail PD&E Study is being conducted to evaluate a multi-use trail that will close the 22-mile gap between the Good Neighbor Trail in Hernando County and the Van Fleet Trail in Sumter County. The South Sumter Connector Trail is part of the larger Coast to Coast Trail, which extends approximately 275 miles across the peninsula of Florida from the Gulf of Mexico in St. Petersburg to the Atlantic Ocean in the vicinity of the Canaveral National Seashore. Responsible for calculations and analysis associated with potential drainage and permitting impacts associated with alternative trail alignments.

**Spring to Spring Trail from French Avenue to Lake Beresford Park, Volusia County, FL - Design of 3.4 miles of 12 foot wide Multi-Use Trail.**

This project included close coordination with Florida Department of Environmental Protection since a portion of the alignment was on land owned by them. The permitting efforts included St. Johns River Water Management District, Volusia County Environmental Department and Florida Fish and Wildlife Conservation Commission. A meandering alignment was designed for the trail in order to closely follow the natural topography of the land, avoid the existing substantial trees and minimize the impact to the existing wetlands. In addition, the Engineers Estimate proved to be in the middle range of the bids received from the contractors at the bid opening. Technical specifications and informational signage were provided for the project as well. Horizon Engineering Group was responsible for overall project management, trail design, drainage design and permitting for the project. This included preparation of the Construction Plans, technical specifications, bid items preparation of construction costs estimates. Responsible for drainage design and permitting coordination with SJRWMD and ACOE. Served as the Drainage Engineer of Record.

**East Central Regional Rail Trail, from Providence Boulevard to State Road 415, Volusia County, FL - Design of 5.7 miles of 12 foot wide Multi-Use Trail.** The trail follows the alignment of the abandoned railroad line and is part of a proposed 50 mile trail corridor. The design includes trail design, drainage design, public involvement, mitigation plans and permitting efforts through St. Johns River Water Management District, Florida Fish and Wildlife Conservation Commission. Public involvement included working with property owners that used the trail corridor for access to their homes. Preparation of technical specifications and construction cost estimates were included. This project was a Local Agency Program project that went through full reviews by the FDOT. Responsible for all drainage and permitting coordination efforts with the SJRWMD and the ACOE. Served as the Drainage Engineer of Record.

**Seminole Wekiva Trail (Pedestrian Underpass) Markham Woods Road and SR 434, Seminole County, FL - Design of a 220 feet Pedestrian Underpass and 0.25 miles of a 14 foot wide Multi-Use Trail** to provide a grade separated crossing of State Road 434. Project included a preliminary engineering phase to analyze various alignment and crossings. The design included a four phase maintenance of traffic plan to allow open cut and sequential construction of the underpass. The design also included trail design, roadway design, maintenance of traffic, signing and pavement markings, drainage design and permitting through Saint Johns River Water Management District. Public involvement meetings were held to gain public input and support. Served as Lead Drainage Engineer responsible for storm sewer, pond design and permit acquisition.

**Lake Roberts Drainage Study, Orange County, FL -** This project examined a 7.5 square mile area in western Orange county for flooding problems and presented several alternative solutions. Responsibilities included field assessment of existing drainage structures, hydrologic modeling and preparation of final report.

**Districtwide Drainage Contracts - FDOT District 5** - Two separate contracts, Duties under one contract included the preparation of a Bridge Hydraulics Report for SR 415 in Volusia County including all hydrologic, hydraulic and scour calculations. Second contract was primarily drainage plans review and project role consisted of Horizon Engineering Group's Project Manager as well as lead reviewer responsible for both checking all plans and calculations to ensure sound design in compliance with all FDOT standards and criteria as well as distributing assignments among drainage staff.

**Charlotte County Storm Water Master Plan, Charlotte County, FL** - Assisted in storm water master plan development including delineation of drainage basins and hydrologic calculations for approximately 800 square miles of county.

**SR 415 Seminole County line to Reed Ellis Road, Volusia County, FL - FDOT District 5** - The Reconstruction of 2.3 miles of a 2-lane rural section to a 4-lane rural divided facility. Design included new construction of a recreational trail along the entire corridor, a new 2,250 foot 2-lane bridge over the St. Johns River, replacing 476 feet of the existing 2-lane bridge over the St. Johns River, constructing a new 121 foot 2-lane relief bridge at St. Johns River Relief Channel, and a new trail bridge at the St. Johns River Relief Channel. 80 percent of the project was located within the St. Johns River floodplain and included exfiltration design for the stormwater facility. A new Proto-type wildlife fence was designed adjacent to the right of way that included a low voltage charge to inhibit wildlife from entering the roadway. The design included roadway design, trail design, maintenance of traffic, mitigation plans, right-of-way acquisition and mapping, signing and pavement markings and permitting efforts through SJRWMD and Army Corp of Engineers. Responsibilities included design of all ditches, ponds and exfiltration trenches as well as all hydraulic modeling and scour analysis at both bridges for the Bridge Hydraulics Report, and acquiring the necessary permits. Served as the Drainage Engineer of Record.

**SR 19 from CR 48 to CR 561 RFP development for Bridge Replacement Over Little Lake Harris, Lake County, FL - FDOT District 5** - This project consists of replacing Bridge over little Lake Harris and upgrading 4.7 miles of an existing 2-lane rural facility to a 4-lane divided urban and suburban roadway. The project includes a roundabout at the SR 19 and CR 48 intersection. The design includes 4 stormwater ponds, noise walls, and a 10 foot multi-use trail for a portion of the project and three signalized intersections. Served as the Drainage Engineer of Record.

**SR 15/600 (US17/92) - Seminole County / FDOT District 5** - A Local Funding Reimbursement Agreement project between Seminole County and the Florida Department of Transportation, this project included upgrading one mile of the existing roadway to a six-lane urban-divided facility with bike lanes and meandering sidewalks in a highly developed area, including street lighting and landscaping to enhance the visual aesthetics of the roadway. Due to existing site constraints, trench drain and exfiltration trench were utilized. Responsibilities included aiding in the design of the storm sewer, special ditches, trench drain and exfiltration trench, as well as securing the required permits.

**SR 574 (MLK Boulevard) from E of Parsons Ave to E of Kingsway Rd, Hillsborough County, FL - FDOT District 7** - This reconstruction project in Hillsborough County converted a 2-lane rural section to a 4-lane divided urban section with bike lanes and sidewalks for approximately 0.7 miles. Served as Horizon Engineering Group's Project Manager as well as drainage Engineer of Record responsible for Pond Siting Report and all drainage design and permitting.

**SR 15 from Lee Vista Boulevard to Conway Road, Orange County, FL - FDOT District 5** - This project consisted of the reconstruction of 4.5 miles of a 2-lane rural section to a 4-lane divided urban facility project with bike lanes and sidewalks. This project, which traversed a highly urbanized area, had little vertical relief and high groundwater levels. Right of way takes were minimized by conveying one of the offsite drainage systems over five thousand feet in an underground box culvert. Responsibilities included design of both onsite and offsite storm sewer systems, ponds, and box culverts as well as coordination with permitting agencies. Served as the Drainage Engineer of Record.

**SR 44 from N. Lopp Point to East of S. Highview Avenue - FDOT District 7** - This project consisted of milling and resurfacing of 6.0 miles of a four lane divided roadway including the addition of sidewalk along the length of the project. Design efforts included the preparation of an Existing Conditions Drainage Assessment Report as well as all drainage and permitting associated with the sidewalk addition. Served as the Drainage Engineer of Record.

Mrs. Medeiros holds a Bachelor's degree in Civil Engineering and her experience includes site design, stormwater design, utility design, permitting, construction plan preparation and construction administration. She has served as Project Manager and Project Engineer for numerous projects including educational facilities, hospitals, medical office buildings, commercial sites and recreational trails. Transportation project experience includes limited access facilities, major reconstruction and widenings in rural and urban areas, RRR, and milling and resurfacing. She is well versed in the stormwater modeling programs ICPR, PONDS, ASAD, and Hydraflow, and she is also an adept user of AutoCAD and MicroStation.



#### EDUCATION

- B.S. Civil Engineering, Florida Institute of Technology, 2002

#### CERTIFICATION

- PE Florida, No. 66495, 2007

#### YEARS OF EXPERIENCE: 19

### REPRESENTATIVE PROJECT EXPERIENCE

**Lake Wekiva Trail, Segment 2 from SR 46 to Hojin Street, Lake County, FL - Lake County Public Works** - This project involves the design of an asphalt trail from SR 46 in Sorrento to Hojin Street in Mt. Plymouth, Lake County. The proposed trail is approximately 3.0 miles. The 12-ft wide trail is proposed to utilize a uniform cross slope to drain to one side, providing two (2) foot sodded shoulders and 1:2 max side slopes tying into existing ground. The proposed trail alignment is to connect to East Lake Park. Multiple mid-block crossings, crossings at intersections, and driveway crossing should be properly signed and marked with emphasis on pedestrian safety. Responsibilities included trail design, drainage design and construction plans.

**Wirz Trail, Section 2 - Seminole County, FL** - This project included the design of 2.9 miles of a 12 foot wide Multi-Use Trail adjacent to local City / County streets, including 1000 lf of boardwalk through wetland areas and coordination with other FDOT projects. This trail provides a critical link from Kewannee Trail to Wirz Park. Project included R/W negotiations with a power company and a local property owner which concluded with two easements being donated. Public involvement including working with multiple homeowners association to ensure their privacy and safety. Responsibilities included drainage design and permitting.

**Dinky Line Trail - Phase 2, Orange County, FL - City of Orlando, FL** - This project included the design and permitting of approximately 1000' of multi-use recreational trail. Project included a 450' boardwalk over Lake Formosa and connections to local neighborhoods and sidewalks. Challenges included restricted right-of-way, poor soil conditions and crossing environmentally sensitive lands. Permitting effort included SJRWMD permit and preparation of an on-site mitigation area. Project will provide a vital link to the downtown area and will be part of the Lake Formosa Loop. Responsibilities included plans preparation, water service layout and coordination with water service provider.

**SR 40 from End of 4-Lanes to East of CR 314, Marion County, FL - FDOT District 5** - This project consists of the reconstruction of 4.5 miles of a 2-lane rural section to a 4-lane high speed rural divided facility, including two 2,250 foot bridge structures over the Ocklawaha River, two 100 foot bridges over Half Mile Creek and 2 separate 50 foot wildlife crossing bridges. The project went through the Ocala National Forest and required extensive coordination with Regulatory and Environmental agencies. It includes a 12 foot multi-use trail along the entire corridor and 10 culvert crossings (5 box culverts and 5 pipe culverts) for wildlife crossings. The drainage includes an innovative design referred to as Black and Bold. In lieu of stormwater treatment ponds, this membrane is located outside of the shoulder and treats runoff from the pavement. Responsibilities included preparation of the Pond Siting Report, assisted in drainage design and permitting.

**SR 434 & Florida Central Pkwy Intersection Improvements, Seminole County, FL** - This project included 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 drainage design, spread calculations, drainage report preparation and assisted in plans preparation.

**SR 574 (Martin Luther King Blvd) From 42nd Street to East of I-4 / SR 400 RRR, Hillsborough County, FL - FDOT District 7** - Project included the milling & resurfacing of 1.8 miles of a two-lane and three-lane rural roadway. Design included 1.0 mile of new sidewalk along one side of SR 574, existing drainage improvements, coordination with the local transit authority, driveway reconstruction to meet ADA criteria, utility coordination, and obtaining a permit from SWFWMD. Extra-wide driveways were reconstructed to meet current criteria and driveway & R/W encroachment letters were mailed to affected property owners. Responsibilities included drainage design, plans preparation, permitting, driveway letters and right-of-way encroachment letters.

**SR 44 RRR from N. Lopp Pt. to E. of S. Highview Ave, Citrus County, FL - FDOT District 7** - Project included the Milling and resurfacing an existing 4 lane divided roadway. Limits are from N. Lopp Pt.(MP 4.711) to East of S. Highview Ave (MP 10.722). Total length of project is 6.011 miles. Includes adding 5' sidewalks on both sides of SR44 from MP 4.711 to MP 6.486 and 7.888 to MP 10.722. Total length of sidewalk added on each side is 4.62 miles. A new Mast Arm signal will be installed at W. Homosassa Trail (CR 490). Responsibilities included preparation of the Existing Conditions Drainage Assessment report, construction plans, and drainage design.

**US 19/US 98/SR 55/S. Suncoast Blvd, from Hernando County Line to W. Green Acres St., Hernando County, FL - FDOT District 7** - Project included the milling & resurfacing of an existing 6-lane rural roadway (Urban Other Principle Arterial) (FIHS / SIS facility). Limits are from South of Toucan Trail (MP 3.707) to Cortex Boulevard (MP 7.135). Total length of project is 3.428 miles. Sidewalk will be added on the west side from beginning of the project (match existing sidewalk ) to the end of the project (tie into existing sidewalk at Cortez Blvd intersection). Addition of the sidewalk along the east side of the roadway will be evaluated utilizing the Sidewalk Matrix to determine cost feasible limits. Responsible for completing design calculations to ensure ditches, which were impacted by the new sidewalk, could adequately provide the required treatment, attenuation, and floodplain storage.

**EE Williamson Bridge Replacement over SR 400 (I-4), Seminole County, FL - FDOT District 5** - The project included replacement of the existing EE Williamson Rd. Bridge over SR 400 (I-4) (MP 5.135), from Sunshine Tree Blvd. to 200 ft East of Penelope Drive. EE Williamson road typical is a 3-lane curb and gutter section with a 6' sidewalk along the south and 10' trail on the north. Horizon was responsible for the roadway design, bridge design, drainage and permitting, and utility coordination. This project required coordination with the future Beyond I-4 Ultimate project. Assisted with drainage design.

**SR A1A Urbanization / Roundabout from S of International Drive to N of Long Point Road, Brevard County, FL - FDOT District 5** - This project converted a rural section of State SR A1A (Astronaut Boulevard) to an urban section with access management modifications from Carver Drive to Long Point Road. The reconstruction included adding buffered bicycle lanes and up to 8-foot wide sidewalks. The project also included the realignment of International Drive to tie to Atlantic Avenue and the construction of a new 2-lane roundabout at this intersection. Responsibilities include drainage design.

**SR 519 (S. Fiske Blvd.) at I-95 Improvements, from S. of Prosperity Place to N. of Barnes Blvd, Brevard County, FL - FDOT District 5** - Project included northbound and southbound exit/entrance ramp widening improvements for SR 519 at the I-95 Interchange. Improvements also included widening along SR 519 to include; dual left turn lanes for NB SR 519 to NB I-95 and SB SR 519 to SB I-95, safety modifications accommodate sidewalk and bicycle between the two signalized intersections along SR 519 with I-95's exit/entrance ramps. The existing SR 519 over I-95 structures was modified to provide concrete barrier separation between travel lanes and sidewalks including the addition of retaining walls to accommodate the minor widening to the structure approaches. Assisted with drainage design.



Mr. Thompson brings his 14 years of experience in underground utility location and conflict resolution serving clients both public and private on projects to the utility coordination of transportation projects. He also attends the triannual Fucc meetings.

## REPRESENTATIVE PROJECT EXPERIENCE

**CR 437 from CR 437 South to CR 437 North, Lake County, FL – Lake County –** This project includes the design of a new alignment of CR 437 that connect CR 437 south to Hunter Avenue and then turns north to connect to Sorrento Avenue (SR 46) and CR 437 North. There are three (3) roundabouts at CR 437 South, at Mary St and at Hunter Avenue. The typical section includes 12 ft travel lanes, 4 ft bike lanes, 5 ft sidewalk and 12 ft multi-use trail. The project improvements also include roadway, signing and pavement marking plans, drainage, driveways, sidewalk and other safety improvements. Providing utility coordination support on this contract.

**SR 500 (US 192/New Haven Avenue) at McClain Drive, Brevard County, FL - FDOT District 5** - The purpose of the project is to remove the existing diagonal strain pole signal and reconstruct the signal utilizing mast arms. The project limits improvements to the adjacent sidewalks, curb ramps, updated crosswalks, pedestrian signals and lighting. Providing utility coordination support on this contract.

**SR 500 (US 441) Resurfacing from SR 429 Connector Rd to Jones Ave, Orange County, FL - FDOT District 5** - The purpose of the project is to resurfacing, drainage improvements, driveways, sidewalk, and other safety improvements. Providing utility coordination support on this contract.

**I-4 (SR 400) Resurfacing from the Osceola/Polk County line south of US 192, Osceola County, FL - FDOT District 5** - The purpose of the project is to resurface the asphalt pavement to extend the service life of the existing roadway, including necessary roadside improvements. Other improvements include re-striping the new pavement and replacing the signs along I-4. This project will tie into the interchange reconstruction project (FPN 444187-1) at C.R. 532 (Champions Gate) and I-4 that will convert the existing diamond interchange to a diverging diamond interchange, which is proposed by Osceola County Transportation and Transit. Providing utility coordination support on this contract.

**SR 50 from Pine Hills Road and Tampa Avenue, Orange County, FL - FDOT District 5** - The purpose of the project is to enhance safety and operations along State Road (S.R.) 50 between Pine Hills Road and Tampa Avenue by implementing access management improvements. The proposed design calls for closing some of the existing median openings, converting others to directional openings, and modifying some turn lanes along the corridor. The project also will include reconstruction of pedestrian features at signalized intersections, including curb ramps, crosswalks and signals, elimination of abandoned or obsolete driveways, milling and resurfacing of affected pavement, and necessary drainage modifications. Providing utility coordination support on this contract.

**SR 500 (US 192) from Osceola County Line to Brandywine Road/Columbia Lane, Brevard County, FL - FDOT District 5** - The purpose of this project is to mill and resurface US 192 from the Osceola County line to Brandywine Road/Columbia Lane. Other improvements include converting the full median opening located approximately 1,000 feet west of Brandywine Lane into a westbound left/U-turn only and performing minor drainage work along the project limits. Providing utility coordination support on this contract.

**US 441 from CR-437A/Central Avenue to Bradshaw Road, Orange County, FL** - The purpose of the project is to resurface Orange Blossom Trail (U.S. 441) from Central Avenue to north of Bradshaw Road. Improvements also include the addition of bicycle lanes, curb reconstruction and drainage repair. Providing utility coordination support on this contract.

**SR 520 from Yates Road to the Brevard County Line, Orange County, FL - FDOT District 5** - The purpose of this project is to mill and resurface SR 520 from Yates Road to the Brevard County line. Improvements also include shoulder widening and some guard rail replacement. Providing utility coordination support on this contract.

**SR 568 (Veteran's Spur) from Mile Post 0 to Mile Post 3, Hillsborough County, FL - FDOT Turnpike** - The purpose of this project is to develop an Existing Roadway Condition Assessment Report (ERCAR) to address existing traffic



## EDUCATION

- B.S. Education, Jacksonville State University, 2010

**YEARS OF EXPERIENCE: 14**

conditions and current travel time reliability assessed for safety improvements along the corridor. For the utility coordination efforts, contact was made to each of the UAOs to determine the location, type and size of their facilities and report our findings. Additionally, the recommend improvements in the report are reviewed for impacts to utilities and, through further coordination with the UAOs, documented impacts to the utilities are noted in the report, which are addressed in the design phase of the project. Providing utility coordination support on this contract.

**SR 500/US 441 from N of Holden Avenue to 34th Street, Orange County - FDOT District 5** - The project includes the construction of three (3) additional mid-block crossings along SR 500/US 441 in an urban utility corridor with new mast arms in the center median, pedestrian signals, pedestrian refuge islands, raised crosswalks (at the 3 new signals and existing 3 signals), signing, pedestrian channel barrier in median and other safety improvements. Providing utility coordination support on this contract.

phase reviews of construction plans, attendance at project development meetings on projects developed by the District in-house staff, provide project management oversight on a variety of assignments as directed by District 5 Utility Office. Responsible for performing utility coordination services for the contract with FDOT District 5. 24 task work order assignments have been assigned to date. Providing utility coordination support on this contract.

**Continuing Services Contract for Roadway Design #24 - FDOT District 5** - This contract includes miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: SR 50 and SR 40. Providing utility coordination support on this contract.

**Continuing Services Contract for Roadway Design #20 - FDOT District 5** - This contract includes miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: SR 500. Providing utility coordination support on this contract.

**Continuing Services Contract for Roadway Design #019 - FDOT District 5** - This contract includes miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: SR 50. Providing utility coordination support on this contract.

**Continuing Services Contract for Roadway Design #017 - FDOT District 5** - This contract includes miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: SR 500, US 192, SR 5, SR 44 & SR 19. Providing utility coordination support on this contract.

**Continuing Services Contract for Roadway Design #011 - FDOT District 5** - This contract includes miscellaneous design assignment issued on a Task Work Order (TWO) basis. TWO's can include designs services for any discipline related to roadways. Assignments have included: I-4 RRR and I-4 at SR 429. Providing utility coordination support on this contract.

**Polk Parkway Widening (Design Build), Polk County, FL - FDOT FTE** - This project features to the widening and resurfacing of Polk Parkway from CSX Railroad to I-4. This project consists of widening from 2 lanes to 4 lanes for approx. 4 miles and construction of a new diamond interchange at Braddock Road with roundabouts at the ramp terminals, a new mainline bridge over CR 546, and reconstruction of Braddock Rd from 2 lanes to 4 lanes. Three new All Electronic Tolling (AET) sites will be added (1 mainline and 2 ramp). Other improvements include the milling and resurfacing and safety upgrades for 3 additional miles. Mr. Thompson is currently providing utility coordination support services to the Utility Coordination Manager.

**I-4 and SR 429 auxiliary lanes, from CR 532 to SR 429 along I-4 and from I-4 to north of Sinclair Road, Osceola County, FL - FDOT District 5** - This project includes adding an additional lane in each direction on I-4 from the CR 532 interchange to the SR 429 interchange and northbound along SR 429 to just past the Sinclair Road northbound off-ramp. The I-4 westbound off-ramp and eastbound on-ramp at CR 532 will be widened to two lanes. The I-4 eastbound off-ramp and westbound on-ramp at SR 429 will also be widened to two lanes. SR 429 northbound will be resurfaced from Sinclair Road to 1,500-ft north of Sinclair Road. Providing utility coordination support on this contract.

Pam has extensive Utility Coordination experience extending from roadway improvements to high-speed rail design. She is experienced at recognizing utility conflicts in the design of a variety of projects and making recommendations for corrective action. Pam has been a field engineer for numerous utility design projects and has been responsible for field inspection, attending meetings with designers, Utility Agency Owners and Project Clients for the development of design drawings. Pam has an excellent understanding of design drawings, and her communication and organizational skills are of great benefit when meeting and coordinating with the numerous utility owners.

Pam's utility design experience includes a wide variety of private, transportation and public works projects to include: drainage, utilities relocating design (UWHC), roadway design, sanitary sewer design, force main/lift station design, storm water hydraulic and hydrologic analysis, water and reuse water transmission and distribution systems as well as electric utilities master planning.

Pam has worked as a Utility Coordinator on numerous Florida Department of Transportation (FDOT), Turnpike Enterprise, Expressway Authorities, private developers and Municipal projects. She has been diversified in her approach to Utility Coordination process and guidelines for each client.

## REPRESENTATIVE PROJECT EXPERIENCE

**Lake Wekiva Trail-Segment 2 from SR 46 to Hojin Street, Lake Mary, Lake County, FL – Lake County** – This project corridor consists of Multi-use trail along the old railroad easement, coming out to CR 437, heads north to Wallick Road. From this corner there is an exception area where the existing sidewalk will remain as is until east of the existing park where the trail will jog through some small housing communities and will tie-in, east of Red Tail entrance, with proposed Wekiva section 6 project. Ms. Young was the Sr. Utility Coordinator negotiating with 9 utilities within this corridor. She cleared the utilities easily with minimal impact to the facilities. There are two utility challenges on this project. First being the FGT Global Settlement Agreement effecting the schedule of this project. Making sure they are given their 90 day review period for the encroachment impact. The other concerns are the documents needed to determine if Duke Energy Transmission are in their own easement within the project. We had agreed to work with their guidelines where reasonable. The designer and Utility worked together to make changes to avoid a relocation of the Transmission Poles.

**SR 436/SR 434 Feasibility Study, Altamonte Springs, Seminole County, FL – Seminole County** - This contract is for miscellaneous engineering services for their trail projects. Ms. Young is responsible for the conflict analysis and determining costs associated with the potential relocations of the utility conflicts within in this project corridor. She will be the Utility Coordination Manager completing the utility assessment report for this project.

**EE Williamson Bridge Replacement over SR 400 (I-4), Longwood, Seminole County, FL - FDOT District 5** - The project includes replacement of the existing EE Williamson Rd. Bridge over SR 400 (I-4) (MP 5.135), from Sunshine Tree Blvd. to 200 ft East of Penelope Drive. EE Williamson road typical will be a 3-lane curb and gutter section with a 6' sidewalk along the south and 10' trail on the north. This project required coordination with the future Beyond I-4 Ultimate project. Ms. Young was assigned as the Sr. Utility Coordinator responsible for certification and close-out of 13 existing Utilities and 3 new Utilities. This project was challenge was the condensed project schedule that included a Utility Work by Highway Contract Agreement, Utility Reimbursements, three permits for Directional Bores and the coordination of adjacent project activities.

**SR 429 (Wekiva Parkway) Segment 6 (Design Build) Lake County, FL - FDOT District 5** - This project is to design 5.5 miles of [new alignment of limited access toll road](#) largely along the existing State Road 46 corridor from west of Old MacDonald Road to east of Wekiva Park Road. The project will include designing a non-tolled, service road for local travel, a new bridge over the Wekiva River, as well as several wildlife bridges to allow animals to pass safely between the Seminole State Forest and Rock Springs Run State Reserve. A multi-use trail will be included along this section. Work will include designing bridges, connector roads between remaining sections of CR 46A and SR 46, roadway widening, medians and



## EDUCATION

- B.A. Computer Programming - The Sawyer School, 1983

## MEMBERSHIPS

- American Society of Civil Engineers
- Design Build Institute of America
- Florida Utilities Coordinating Committee
- Jacksonville Regional Utility Coordination Group
- Central Florida Utilities Group
- A.P.W.A.

## YEARS OF EXPERIENCE: 36

turn lanes, drainage, lighting, sign and pavement markings, utilities and other roadway features. Pam coordinated with 8 utilities to negotiate all utility relocations of their conflicting facilities. Close communication with FGT has made their parallel work transition more smoothly. We have had success coordinating the design of the 4200' wildlife crossing bridge where the utilities could manage their relocations.

**SR 500 (US 441 Orange Blossom Trail) Pedestrian Lighting Bundle, from south of I-4 to W. Oak Ridge Road, Various Locations, Orange County, FL – FDOT District 5** – This project performed a study on 85 light pole locations, identifying all the locations requiring a retro-fit replacement of the lamp head or the replacement or addition of a new pole. Test holes were ordered at the new pole locations. Pam has worked with 19 Utility owners to clear the locations that were identified as not clear from the test holes performed. She was challenged with an unidentified utility at one location that was identified through the collection of the utility green line marked plans.

**US 17-92 Pedestrian Overpass Stairwells, Sanford, Seminole County, FL – Seminole County** - This contract is for miscellaneous engineering services for their trail projects. Ms. Young is responsible for the analysis and negotiations of the utility conflicts within in this project corridor. She will be the Utility Coordination Manager completing utility coordination process for this project.

**SR 40 at US 41 from From SW 59th to SW 83rd Place Rd, PD&E Study, Ocala, FL** - As a Utility Coordinator, Pam was responsible for producing a Utility Impact Report and Cost Analysis for this project. She requested, obtained and compiled the documentation provided from each UAO and addressed the potential conflicts and recommended mitigation efforts.

**US 41 at SR 40, From SW 59th to SW 83rd Place Road PD&E Study, Marion County, FL - FDOT District 5** - As Utility Coordinator, Pam was responsible for producing a Utility Impact Report and Cost Analysis for this project. She requested, obtained and compiled the documentation provided from each UAO and addressed the potential conflicts and recommended mitigation efforts.

**Districtwide Community Traffic Safety Program #12, Various Counties - FDOT District 5** - This contract includes miscellaneous engineering services required to conduct safety studies and/or to design and prepare a set of safety contract plans which included roadway, signing and pavement markings, signalization, lighting, sidewalk and/or bicycle ways. The identified projects may be on state highways, county and/or any city streets within the nine counties of FDOT District 5. The contract services include roadway design, survey, environmental assessments and permitting, drainage, signing and pavement marking, utility coordination, and traffic control plans. Serving as the Utility Coordination Manager, Pam was responsible for completing all necessary, project specific utility coordination for various project task work orders.

**Districtwide Utilities Contract for Miscellaneous Design #C9S00, Various Counties, FL – FDOT District 5** - This project is the master contract for a task work order driven contract. The contract includes utility coordination services, utility certifications, phase reviews of construction plans, attendance project development meetings on projects developed by the District in-house staff, project management oversight assignments and other assignments as directed by District 5 Utility Office. Pam acted as Utility Coordination Manager for several TWO's in this contract.

**Utility Coordination Services to Support Districtwide SUE Designation and Location Contract C-6302, Various Counties, FL - FDOT District 5** - As Utility Coordinator, Pam was responsible for performing utility coordination services. Contracted to assist District Five with the identification of existing and proposed utility facilities, determination of eligibility of compensable interests and resolution of conflicts between utility facilities and proposed construction. Assisted with the documentation of utility company activities for the project's special provisions, plans and notes as well as with securing executed legal agreements to clear a project for letting as stipulated by State and federal guidelines for miscellaneous projects.

**Districtwide Contract. A SUE/Utility Coordination Contract, Various Counties, FL - FDOT District 1** - Pam held a temporary placement of the on-prem assignment until permanent assignment was filled. She was tasked to perform utility coordination for in-house assignments. This included but not limited to utility contact at phase I, II and III; holding and organizing utility meetings and prepare minutes; conflict analysis; review plans, agreements and Utility Work Schedules; the encumbrance of funds and report utility status at internal production meetings (Hot List) for various miscellaneous projects.

# MICHAEL J. BAIR, ASP

Chief Scientist



## Summary of Capabilities

Environmental Consulting  
Scope Development & Review  
FDOT Level I & II CSERs, PD&E, Design-Build  
ASTM Phase I & II ESAs  
Contamination Assessment & Reporting  
Source Removal & Remediation  
Program/Project Management  
UST/AST Compliance, Assessment, and Closure  
Soil/Groundwater Sampling  
Dewatering & NPDES Permitting  
Waste Characterization & Disposal Options  
Contractor/Subcontractor Oversight & Performance  
Evaluation  
Regulatory Liaison – FDEP, FDOT, Water Mgmt.  
Districts  
Quality Assurance/Quality Control

## Years of Experience

With Tierra: 5 Years  
With Other Firms: 19 Years

## Education

BA, Biology, University of Miami, 1994

## Professional Certifications/Licenses

Associate Safety Professional #A15807 (2011)  
Environmental Professional per 40 CFR 312.10  
40-Hour HAZWOPER Certified (OSHA 1910.120)  
8 Hour HAZWOPER Refresher Certified (OSHA

Mr. Bair has 25 years of experience in the laboratory, environmental consulting, due diligence, remediation, safety, and transportation fields. His progressive experience has included all phases of a typical project from the laboratory to the field work to all of the required office tasks. His responsibilities have included serving as a Principal Consultant working with a staff of 20 professionals. His duties included mentoring junior level staff in company policy, scientific protocol, proposal/report preparation, client/regulatory interactions, scoping projects, field work, business development, safety, ethics, and quality. Mr. Bair also reviewed work products for compliance with quality assurance/quality control objectives. His Program Management experience includes the Florida Department of Environmental Protection (Preapproval, PRP, LSSI), Florida Department of Transportation, several large private clients, and multiple municipal contracts. Currently, Mr. Bair is responsible for the day-to-day operations of the environmental department at Tierra. This involves work assignments for Level I and II CSERs, PD&E studies, kick-off meetings, review of work products, budgeting, resource allocation, scheduling of field work, report preparation, and QA/QC reviews. Mr. Bair has been providing environmental assessments and reporting for FDOT project throughout the State of Florida for more than 10 years. His knowledge of the Chapter 20 PD&E

Manual and the various District Contamination Impact Coordinator (DCIC) requirements contribute to seamless reporting capabilities for the Prime Engineering firms in the PD&E and design phases.

## SIMILAR PROJECT EXPERIENCE

Palmetto Trails Network PD&E, Manatee County  
Tampa Bypass Canal Trail from North 34<sup>th</sup> Street to CR 581 PD&E, Hillsborough County  
Fort Fraser Trail Extension from SR 540 (Winter Lake Road) to Combee Road PD&E, Polk County  
Coastal Anclote Trail, Pasco County  
Old Dixie Trail from Auburndale to Haines City PD&E, Polk County

## FDOT PROJECT EXPERIENCE

### District V

Poinciana Parkway from CR 54 to I-4 PD&E, Osceola and Polk Counties  
SR 50 from Old Cheney Highway to Chuluota Road, Orange County  
SR 46 from Lake Mary Boulevard to Proctor Court, Seminole County  
US 301 (SR 35) from C-470 West to SR 44, Sumter County  
SR 40 from SR 15/US 17 to SR 11, Volusia County  
I-75 (SR 93) from Hernando County Line to South of CR 470, Sumter County

## **Florida's Turnpike Enterprise**

Turnpike Widening from Orange/Lake County Line to Minneola Interchange, Lake County  
HEFT Interchange at NW 170<sup>th</sup> Street PD&E, Miami-Dade County  
Suncoast Parkway 2, Section 1, Hernando and Citrus Counties  
Suncoast Parkway 2, Section 2, Citrus County  
Turnpike Widening from Osceola Parkway to Beachline, Osceola and Orange Counties  
Turnpike Widening from SR 50 to Orange/Lake County Line, Orange County

## **District VII**

SR 60 from Dover Road to SR 39, Hillsborough County  
SR 60 from Valrico to Dover Road, Hillsborough County  
US 41 (SR 45) from Hillsborough/Manatee County Line to 12<sup>th</sup> Street NE, Hillsborough County  
US 19 (SR 55) from 70<sup>th</sup> Avenue to 118<sup>th</sup> Avenue North PD&E, Pinellas County  
US 301 (SR 43) from SR 56 to SR 39 PD&E, Pasco County  
US 19 (SR 55) from Main Street to Northside Drive, Pinellas County  
US 19 (SR 55) from Northside Drive to CR 95, Pinellas County  
US 19 (SR 55) from Nebraska Avenue to Timberlane Road, Pinellas County  
SR 56 from Meadow Pointe Boulevard to US 301 (Design-Build), Pasco County  
SR 52 from Suncoast Parkway to US 41, Pasco County

## **District I**

I-75 at SR 951, Collier County  
SR 951 from Manatee to Tower Road, Collier County  
SR 82 from Gator Slough Lane to SR 29, Collier County  
Central Polk Parkway PD&E, Polk County  
US 98 (SR 700) Ft. Meade Bridge PD&E, Polk County  
US 27 PD&E from Highlands County Line to SR 60, Polk County  
SR 542 from Buckeye Loop Road to US 27, Polk County  
Kentucky Avenue Overpass, Polk County  
New York Avenue Underpass, Polk County  
SR 60 Grade Separation Over CSX Railroad, Polk County  
Recker Highway (SR 655) Grade Separation Over CSX Railroad, Polk County  
SR 82 from Alabama to Homestead, Lee County  
US 41 at Main Street Roundabout PD&E, Sarasota County  
US 41 at Gulfstream Roundabout PD&E, Sarasota County  
I-75 at Bee Ridge Road, Sarasota County  
SR 64 (Manatee Avenue) from SR 789 to Perico Bay Boulevard, Manatee County  
SR 80 from Dalton Lane to Indian Hills Drive, Hendry County  
I-75 from Jones Loop Road to US 17, Charlotte County  
I-75 Rest Areas, Charlotte County  
15<sup>th</sup> Street/US 301 Boulevard from Tallevast Road to US 41, Manatee County  
SR 29 from Collier County Line to CR 832 (Keri Road), Hendry County  
SR 29 from CR 832 (Keri Road) to "F" Road, Hendry County  
SR 29 from Spencer Lane to Cowboy Way, Hendry County  
SR 29 from Cowboy Way to Whidden Road, Hendry County

## **District II**

SR 200 (US 301) Improvements North of Crawford Road, Nassau County

## **District III**

US 98 (SR 30) Navy Boulevard from SR 295 New Warrington to Chico Bayou Bridge PD&E, Escambia County



*Michael J. Bair, ASP  
Chief Scientist*

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US 98 (SR 30) over Santa Rosa Sound Bridge Replacement PD&E, Okaloosa County  
North Quincy Loop PD&E, Gadsden County

**District IV**

Midway Road/CR 712 from Glades Cutoff Road to Selvitz Road PD&E, St. Lucie County



*Michael J. Bair, ASP  
Chief Scientist  
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**Mark Efird, PSM**  
**Sr. Project Manager**

Contract Role: Chief Surveyor

Years' Experience: 40

**Education**

General Studies Professional  
Development / 1988  
Daytona Beach Community  
College

**Professional Registrations**

Florida Professional Surveyor &  
Mapper – LS 5454

**Professional Affiliations**

- Florida Surveying & Mapping  
Society

**Summary of Experience**

Mr. Efird is a Florida licensed Surveyor and Mapper with over 40 years of survey, mapping and subsurface utility engineering (SUE) experience. He is responsible as Sr. Project Manager for oversight, production and quality of assigned survey and SUE projects. His experience encompasses public and private projects, having started his career in the field and growing steadily over the years.

Mr. Efird will serve as Chief Surveyor on this contract and assist the team with the oversight and production of survey design file and SUE deliverables and any R/W mapping task, including Specific Purpose Surveys for alignment retracements, Control Surveys and R/W mapping.

**Significant Projects**

**SR 19 Resurfacing from CR 452 to Golden Gem Drive (441135-1) Lake County, FDOT District 5:** Mr. Efird supported this project as Sr. Surveyor for the utility survey effort, providing utility designating, locating and surveying for this design project, which consisted of rehabilitation of the pavement and necessary roadside improvements.

**SR 527 (Orange Ave.) Reconstruction and Resurfacing from Prince St. to Mandalay Rd. (435733-1), Orange County, FDOT District 5:** Mr. Efird led the SUE survey effort for this project, consisting of modification to the existing section from Prince St. to Hoffner Ave. with lane width reductions, bicycle lane provisions, enhanced pedestrian features, curbed on-street parking, and aesthetics, in addition to milling and resurfacing with ADA improvements. rehabilitating the asphalt pavement to extend the longevity of the roadway.

**SR 429 Widening from Stoneybrook West Pkwy to Florida's Turnpike (Project No. 429-154), Orange County, Central Florida Expressway Authority (CFX):** Mr. Efird currently serves as Sr. Surveyor for ECHO's scope of work under this contract. Scope consists of SUE/utility survey, drainage survey and bridge scanning.

**SR 417 Widening from Boggy Creek Rd. to Narcoossee Rd. (Project No. 417-151), Orange County, Central Florida Expressway Authority (CFX):** Mr. Efird currently serves as Sr. Surveyor on this project where ECHO is the Lead Survey Firm.

**I-4 Ultimate Improvement Project, from west of Kirkman Road in Orange County to east of State Road 434 in Seminole County, FL, FDOT District 5:** An Interstate reconstruction project where Mr. Efird acted as Sr. Surveyor for specific subsurface utility engineering (SUE) and survey tasks on behalf of the HDR/Jacobs/Skanska/Granite/Lane design-build team. The improvements included local collector distributor lanes and express lanes that make up the 12-14 lane facility. The project is the largest ever undertaken by the FDOT at a cost of \$2.3 billion.

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***SR 15 (US 441) in the Vicinity of SW 21<sup>st</sup> Street, Multiple Counties, FL:*** As part of this district wide drainage support project, Mr. Efirm acted as Sr. Surveyor for subsurface utility engineering, design survey and utility coordination services on this project. ECHO's services were requested by the Balmoral group which headed the project.



**Mikel Travisano, MS**  
**Architectural Historian and Principal Investigator**

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

**EDUCATION**

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

**RESEARCH SPECIALIZATIONS**

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

**PROFESSIONAL EXPERIENCE**

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

**VOLUNTEER POSITIONS**

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

**PROFESSIONAL CERTIFICATIONS AND AWARDS**

The Florida Trust for Historic Preservation: Honorable Mention in the Field of Restoration and Rehabilitation for the Main Street Bridge Project  
The Florida Trust for Historic Preservation: Outstanding Performance in the Field of Preservation Education & Media for the St. Petersburg's Design Guidelines for Historic Preservation  
National Preservation Institute, Recent Past: Strategies for Evaluation Workshop  
National Preservation Institute, Section 106 Workshop



## SELECT PROJECT EXPERIENCE

### 2020

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

### 2019

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

### 2018

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

### 2017

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



for FDOT to pursue a de minimis finding under Section 4(f). FDOT, under federal authority delegated by FHWA, approved the de minimis finding in July 2018. Conducted for HDR, Inc. and the FDOT, District 5.

**Principal Investigator,** Cultural Resource Assessment Survey (CRAS) in Support of the Boynton Beach Boulevard and Gateway Boulevard Interchange Improvements, Palm Beach County, Florida. A historic architectural and archaeological survey in support of interchange improvements. The total length of the surveyed project corridors is approximately 3 miles. Following the CRAS, SEARCH prepared a memorandum to address project-related effects, as the vegetative buffer between one eligible resource and the interstate highway would be removed. SEARCH worked with the project engineers and concluded there would be no perceptible increase in noise and that sufficient vegetation would remain to visually buffer the resource from the highway. The SHPO concurred with the no adverse effect determination. As a result, FDOT was able to pursue a de minimis finding under Section 4(f). Conducted for the FDOT, District 4.

**Principal Investigator/Architectural Historian,** *Cultural Resource Assessment Survey of Hollywood Beach Gardens Sidewalk Improvements, Broward County Florida.* A historic architectural survey in support of proposed sidewalk improvements to the Hollywood Beach Gardens subdivision within the City of Hollywood. The architectural survey was unique in that the APE was defined to include the entire Hollywood Beach Gardens subdivision. The methodology was developed in coordination with the FDOT, District 4 and the Florida Division of Historical Resources (FDHR). SEARCH evaluated the subdivision, which had an unusual street plan based upon historic precursors including Indianapolis and Washington, D.C. The report presented the findings and determined the eligibility for listing the historic resource on the NRHP. Conducted for FDOT, District 4.



**Angela Matusik, MA**  
**Principal Investigator, Health & Safety Officer, and GIS Specialist**  
**Orlando, Florida Office**

**Angela Matusik, MA**, has 24 years of professional experience in the cultural resource management and the environmental, health, and safety fields. Ms. Matusik joined SEARCH in 2013, and her archaeological experience includes both academic and cultural resource management projects throughout Florida, the Western United States, Mexico, Central America, and South America. She is currently in SEARCH’s Transportation Division where she has contributed to numerous FDOT, CFX, and private development projects. She is also one of SEARCH’s Safety Officers, providing all levels of assistance to the Health and Safety Manager. She received her master’s degree in Planning from the University of California, Los Angeles in 1997 and her bachelor’s in Anthropology from Eckerd College in 1991; she also earned her GIS certificate from the University of West Florida in 2012. Ms. Matusik is a former Program Analyst for the Naval Undersea Warfare Center Detachment Atlantic Undersea Testing and Evaluation Center (NUWC DET AUTECH), Environmental, Safety, and Health Department, Andros Island, Bahamas; she obtained Secret clearance, supported mishap and near-miss reduction programs, provided training, workshops, and tours, and managed several departmental databases. She served in the US Peace Corps as a Regional Community Development Coordinator in Kosiv, Ivano-Frankivsk, Ukraine.

**EDUCATION**

BA	2015	Maritime Studies, University of West Florida
Certificate	2012	Geographic Information Systems, University of West Florida
MA	1997	Planning, University of California, Los Angeles
BA	1991	Anthropology, Eckerd College

**RESEARCH SPECIALIZATIONS**

- Cultural Resource Management
- Survey and Cartography

**PROFESSIONAL EXPERIENCE**

2016-present	Principal Investigator, Health & Safety Officer, GIS Specialist, SEARCH
2013-2016	Project Archaeologist, Health & Safety Officer, GIS Specialist, SEARCH
2009-2013	Environmental, Safety, and Health Program Analyst, Atlantic Undersea Testing and Evaluation Center (AUTECH), Bahamas
2004-2009	Information Technology Field Service Representative, Helpdesk, Atlantic Undersea Testing and Evaluation Center (AUTECH), Bahamas
2003	Project Archaeologist/Instructor, Pambamarca Archaeology Project, Ecuador
2001-2003	Regional Community Development Coordinator, US Peace Corp, Ukraine
2000	Project Archaeologist/Instructor, Minanha Regional Survey, Belize
1998-2000	Project Manager, RW3 Technologies, Austin, Texas
1991-1995	Senior Field Technician, Surveyor, Cartographer, and Laboratory Technician in Florida, Belize, California, and Peru

**PROFESSIONAL REGISTRATIONS AND ASSOCIATIONS**

- Society for American Archaeology
- Florida URISA (Urban and Regional Information Systems Association)



## SELECT PROJECT EXPERIENCE

### 2019

**Principal Investigator**, Ongoing Cultural Resource Desktop Reviews and Field Assessments for FDOT, District 5, under the March 14, 2016 Section 106 Programmatic Agreement between FHWA, the ACHP, the FDHR, the SHPO, and the FDOT. To date, over 300 project evaluations have been completed. FDOT, District 5 includes Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia counties.

**Principal Investigator**, Cultural Resource Assessment Survey for the Lake/Orange County Connector PD&E Study, Lake and Orange Counties, Florida. Conducted for Metric Engineering and the Central Florida Expressway Authority (CFX).

**Principal Investigator**, Cultural Resource Assessment Survey for the Osceola Parkway PD&E Study, Orange and Osceola Counties, Florida. Conducted for Reynolds, Smith & Hills, Inc. (RS&H) and the Central Florida Expressway Authority (CFX).

**Principal Investigator**, Cultural Resource Assessment Survey for the St. Johns River to Sea (SJR2C) Loop Trail Gap PD&E Study in DeLand, Volusia County, Florida. Conducted for Inwood Consulting Engineers, Inc. and FDOT, District 5.

**Principal Investigator**, Cultural Resource Assessment Survey for SR 504 (Colonial Parkway) from Woodbury to SR 520, Orange County, Florida. Conducted for HNTB, Jacobs Engineering Group, and Florida's Turnpike Enterprise.

### 2018

**Principal Investigator**, Cultural Resource Assessment Survey of SR 528 from East of SR 524 (Industry Road) to East of SR 3, Brevard County, Florida. Conducted for Kisinger Campo & Associates (KCA) and FDOT, District 5.

**Principal Investigator**, Cultural Resource Assessment Survey for the St. Johns River to Sea Loop PD&E Study from US 1/Kennedy Parkway to Dale Avenue, Volusia County, Florida. Conducted for Inwood Consulting Engineers, Inc. and FDOT, District 5.

**Principal Investigator**, Cultural Resource Assessment Survey for the I-95/SR 9 from Northbound Rest Area to Southbound Rest Area, Brevard County, Florida. Cultural Resource Assessment Survey for the I-75/SR 93 Northbound and Southbound Rest Area Improvements, Sumter County, Florida. Both projects conducted for Bently Architects & Engineers, Inc. and FDOT, District 5.

**Principal Investigator**, Cultural Resource Assessment Survey for the SR5/US 1 Outfall Rehabilitation Project, Brevard County. Conducted for Infrastructure Engineers, Inc. and FDOT, District 5.

## ARCHAEOLOGICAL PAPER

Austin, Robert J., and Angela Matusik

2014 *Galena Distribution in Florida: Implications for Prehistoric Trade*. Paper presented at the 66th annual meeting of the Florida Anthropological Society, Punta Gorda.

## NATURAL RESOURCES

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-09-00068F
- 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.

**SR 40 PD&E Study from West of SR 326 to US 17, Marion County (FDOT District Five)** – Senior Scientist responsible for wildlife crossing and habitat connectivity design, agency and stakeholder coordination, mitigation planning, and conducting tree surveys via GPS. Inwood completed the SR 40 PD&E Study from one mile west of State Road 326 in Marion County to US 17 in Volusia County, a distance of approximately 40 miles. This project will result in the widening of approximately 13 miles of SR 40 from two to four lanes in the western portion of the study area from Silver Springs to Levy Hammock Road—a portion of which will traverse through the Ocala National Forest. Beginning in 1988, three previous PD&E studies were initiated for the project; however, because of the controversial nature of the project due to potential impacts to the Ocala National Forest, none of the three past PD&E study attempts were successfully completed. In order to build consensus among the stakeholders, Inwood formulated and facilitated the SR 40 Wildlife Crossing Committee. This committee consisted of representatives from FDOT, U.S. Forest Service, U.S. Fish and Wildlife Service, Florida Fish and Wildlife Conservation Commission, The Nature Conservancy, and Audubon of Florida. Using collaborative techniques, Inwood facilitated the committee meetings over a two-year period. This process resulted in the committee reaching a 100 percent consensus agreement on a wildlife crossing plan for the project. Because of this agreement, the Environmental Assessment for the project was approved.

**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.



## ATTACHMENT 4

LOCATION PERCENTAGE OF  
WORK TO BE COMPLETED

22-901

<b>Address of Prime Consultant's designated office where the majority of work will be performed</b>	
Street	4350 West Cypress Street
Street 2	Suite 800
City	Tampa
State	Florida

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)	34%
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<b>Address of Prime Consultant's other offices where work will be performed (if applicable)</b>	
Street	5011 Gate Parkway Building 100
Street 2	Suite 120
City	Jacksonville
State	Florida

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)	34%
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Percentage of total overall fees projected to be performed by firms located within Lake County including the Prime Consultant and Subconsultants.	0%
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