CITY OF POMPANO BEACH,
FLORIDA

PROFESSIONAL CONSULTING AGREEMENT

with

KIMLEY-HORN AND ASSOCIATES, INC.

CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY PROJECTS E-20-20

CONTRACT FOR
PROFESSIONAL CONSULTING SERVICES

This Contract is made on _____, by and between the CITY OF POMPANO BEACH, a municipal corporation of the State of Florida, hereinafter referred to as "City," and Kimley-Horn and Associates, Inc. a North Carolina corporation authorized to do business in the State of Florida hereinafter referred to as the "Consultant".

WHEREAS, the Consultant is able and prepared to provide such services as City requires under the terms and conditions set forth herein; and

WHEREAS, the City Commission has approved the recommendation that Consultant be employed by the City and authorized the negotiation of contractual terms.

NOW, THEREFORE, in consideration of the mutual promises herein, the City and the Consultant agree as follows:

ARTICLE 1 – SERVICES/CONSULTANT AND CITY REPRESENTATIVES

The Consultant's responsibility under this Contract is to provide professional consulting services as more specifically set forth in RLI No. E-20-20 attached hereto as Exhibit A and incorporated herein in its entirety.

The Consultant's representative shall be Marwan Mufleh, P.E.

The City's representative shall be City Engineer or designee,

ARTICLE 2 – TERM

The Consultant shall adhere to the schedule given in each work authorization after receiving the "Notice to Proceed."

Reports and other items shall be delivered or completed in accordance with the detailed schedule set forth in individual Work Authorizations as negotiated.

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

ARTICLE 3 – PAYMENTS TO CONSULTANT

A. City agrees to pay Consultant in consideration for its services described herein. It is the intention of the parties hereby to ensure that unless otherwise directed by the City in writing, Consultant will continue to provide services as specified in Exhibit A for the term of this Contract.

B. Price Formula. City agrees to pay Consultant as negotiated on a Work Authorization basis. Each work authorization shall specifically identify the scope of the work to be performed and the fees for said services. As set forth in RLI No. E-20-20, professional services under this contract will be restricted to those required for any project for which construction costs will not exceed four million dollars ($4,000,000.00), and for any study activity fees shall not exceed five hundred thousand dollars ($500,000.00).

C. Fee Determination. Each individual Work Authorization may be negotiated for fees to be earned by Time and Materials with a Not to Exceed Amount, Lump Sum, or a combination of both methods for subtasks contained therein. The total amount to be paid by the City under a Work Authorization shall not exceed specified amounts for all services and materials including "out of pocket" expenses as specified in Paragraph E below and also including any approved subcontracts unless otherwise agreed in writing by both parties. The Consultant shall notify the City's Representative in writing when 90% of the "not to exceed amount" for the total Work Authorization has been reached. The Consultant will bill the City on a monthly basis, or as otherwise provided. Time and Materials billing will be made at the amounts set forth in Exhibit B for services rendered toward the completion of the Scope of Work. Where incremental billings for partially completed items are permitted, the total billings shall not exceed the estimated percentage of completion as of the billing date. It is acknowledged and agreed to by the Consultant that the dollar limitation set forth in this section is a limitation upon and describes the maximum extent of City's obligation to pay Consultant, but does not include a limitation upon Consultant's duty to perform all services set forth in Exhibit A for the total compensation in the amount or less than the guaranteed maximum stated above.

D. Invoices received by the City from the Consultant pursuant to this Contract will be reviewed and approved in writing by the City's Representative, indicating that services have been rendered in conformity with the Contract, and then will be sent to the City's Finance Department for payment. All invoices shall contain a detailed breakdown of the services provided for which payment is being requested. In addition to detailed invoices, upon request of the City's representative, Consultant shall provide City with detailed periodic Status Reports on the project. All invoice payments by City shall be made after the Work has been verified and completed. Unless disputed by City as provided herein, upon City's receipt of a Proper Invoice as defined in §218.72, Florida Statutes, as amended, City shall forward Consultant payment for work performed within forty five (45) days for all goods and services provided.

City may temporarily remove for review any disputed amount, by line item, from an invoice and shall timely provide Consultant written notification of any such disputed charge. Consultant shall provide clarification and a satisfactory explanation to City, along with revised copies of all such documents if inaccuracies or errors are discovered, within ten (10) days of receipt of City's notice of the disputed amount

In the event City has a claim against Consultant for Work performed hereunder which has not been timely remedied in accordance with the provisions of this Article 3, City may withhold payment for the contested amount, in whole or in part, to protect itself from loss on account of defective Work, claims filed or reasonable evidence indicating probable filing of claims by other parties against Consultant, and/or Consultant's failure to make proper payments to subcontractors or vendors for material or labor. When the reason(s) for withholding payment are removed or resolved in a manner satisfactory to City, payment shall be made.

E. "Out-of-pocket" expenses shall be reimbursed up to an amount not to exceed amounts included in each Work Authorization. All requests for payment of "out-of-pocket" expenses eligible for reimbursement under the terms of this Contract shall include copies of paid receipts, invoices, or other documentation acceptable to the City's Representative and to the Finance Department. Such documentation shall be sufficient to establish that the expense was actually incurred and necessary in the performance of the Scope of Work described in a Work Authorization and this Contract. All out-of- pocket, reimbursables and expenses shall be billed at actual amount paid by Consultant, with no markup.

F. Final Invoice. In order for both parties herein to close their books and records, the Consultant will clearly state "Final Invoice" on the Consultant's final/last billing to the City. This final invoice shall also certify that all services provided by Consultant have been properly performed and all charges and costs have been invoiced to the City. Because this account will thereupon be closed, any and other further charges not properly included on this final invoice are waived by the Consultant.

ARTICLE 4 – TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Contract by the Consultant shall also act as the execution of a truth in negotiation certificate, certifying that the wage rates, overhead charges, and other costs used to determine the compensation provided for this Contract are accurate, complete and current as of the date of the Contract and no higher than those charged the Consultant's most favored customer for the same or substantially similar service. Should the City determine that said rates and costs were significantly increased due to incomplete, non-current or inaccurate representation, then said rates shall be adjusted accordingly.

ARTICLE 5 – TERMINATION

City shall have the right to terminate this Contract, in whole or in part, for convenience, cause, default or negligence on Consultant's part, upon ten (10) business days advance written notice to Consultant. Such Notice of Termination may include City's proposed Transition Plan and timeline for terminating the Work, requests for certain Work product documents and materials, and other provisions regarding winding down concerns and activities.

If there is any material breach or default in Consultant's performance of any covenant or obligation hereunder which has not been remedied within ten (10) business days after City's

written Notice of Termination, City, in its sole discretion, may terminate this Contract immediately and Consultant shall not be entitled to receive further payment for services rendered from the effective date of the Notice of Termination.

In the event of termination, City shall compensate Consultant for all authorized Work satisfactorily performed through the termination date under the payment terms set forth in Article 3 above and all Work product documents and materials shall be delivered to City within ten (10) business days from the Notice of Termination. If any Work hereunder is in progress but not completed as of the date of the termination, then upon City's written approval, this Contract may be extended until said Work is completed and accepted by City.

This Contract may be cancelled by the Consultant, upon thirty (30) days prior written notice to the City's Representative, in the event of substantial failure by the City to perform in accordance with the terms of this Contract through no fault of the Consultant.

ARTICLE 6 – PERSONNEL

The Consultant is, and shall be, in the performance of all work services and activities under this Contract, an independent Contractor, and not an employee, agent or servant of the City. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the Consultant's sole direction, supervision, and control and shall not in any manner be deemed to be employees of the City. The Consultant shall exercise control over the means and manner in which it and its employees perform the work. This contract does not create a partnership or joint venture between the parties.

The Consultant represents that it has, or will secure at its own expense, all necessary personnel required to perform the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the City, nor shall such personnel be subject to any withholding for tax, Social Security or other purposes by the City, nor be entitled to any benefits of the City including, but not limited to, sick leave, pension benefits, vacation, medical benefits, life insurance, workers or unemployment compensation benefits, or the like from the City.

All of the services required hereunder shall be performed by the Consultant or under its supervision, and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under state and local law to perform such services.

Any changes or substitutions in the Consultant's key personnel, as may be listed in Article 1, must be made known to the City's Representative at the time substitution becomes effective.

The Consultant warrants that all services shall be performed by skilled and competent personnel to the degree exercised by consultants performing the same or similar services in the same location at the time the services are provided.

ARTICLE 7 – SUBCONTRACTING

Consultant may subcontract any services or work to be provided to City with the prior written approval of the City's Representative. The City reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make determination as to the capability of the subcontractor to perform properly under this Contract. The City's acceptance of a subcontractor shall not be unreasonably withheld. The Consultant is encouraged to seek small business enterprises and to utilize businesses that are physically located in the City of Pompano Beach with a current Business Tax Receipt for participation in its subcontracting opportunities.

ARTICLE 8 – FEDERAL AND STATE TAX

The City is exempt from payment of Florida State Sales and Use Taxes. The City will provide the Consultant with the current state issued exemption certificate. The Consultant shall not be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the City, nor is the Consultant authorized to use the City's Tax Exemption Number in securing such materials.

The Consultant shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes and benefits with respect to this Contract

ARTICLE 9 – AVAILABILITY OF FUNDS

The City's performance and obligation to pay under this contract is contingent upon appropriation for various projects, tasks and other professional services by the City Commission.

ARTICLE 10 - INSURANCE REQUIREMENTS

The Consultant shall not commence work under this Contract until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the City, nor shall the Consultant allow any Subcontractor to commence work on its sub-contract until the aforementioned approval is obtained.

CERTIFICATE OF INSURANCE, reflecting evidence of the required insurance, shall be filed with the Risk Manager prior to the commencement of the work. The Certificate shall contain a provision that coverage afforded under these policies will not be cancelled, will not expire and will not be materially modified until at least thirty (30) days prior written notice has been given to the City. Policies shall be issued by companies authorized to conduct business under the laws of the State of Florida and shall have adequate Policyholders and Financial ratings in the latest ratings of A. M. Best and be part of the **Florida Insurance Guarantee Association Act**.

Insurance shall be in force until all work required to be performed under the terms of the Contract is satisfactorily completed as evidenced by the formal acceptance by the City. In the event the Insurance Certificate provided indicates that the insurance shall terminate and lapse during the period of this Contract, the Consultant shall furnish, at least ten (10) days prior to the

expiration of the date of such insurance, a renewed Certificate of Insurance as proof that equal and like coverage for the balance of the period of the Contract and extension thereunder is in effect. The Consultant shall not continue to work pursuant to this Contract unless all required insurance remains in full force and effect.

Limits of Liability for required insurance are shown in Exhibit C.

The City of Pompano Beach must be named as an additional insured for the Automobile and Commercial General Liability Coverage.

For Professional Liability, if coverage is provided on a claims made basis, then coverage must be continued for the duration of this Contract and for not less than one (1) year thereafter, or in lieu of continuation, provide an "extended reporting clause" for one (1) year.

Consultant shall notify the City Risk Manager in writing within thirty (30) days of any claims filed or made against the Professional Liability Insurance Policy.

For Workers' Compensation Insurance, coverage shall be maintained during the life of this Contract to comply with statutory limits for all employees, and in the case of any work sublet, the Consultant shall require any Subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the Consultant. The Consultant and his Subcontractors shall maintain during the life of this Contract Employer Liability Insurance.

ARTICLE 11 – INDEMNIFICATION

A. Consultant shall at all times indemnify, hold harmless the City, its officials, employees, volunteers and other authorized agents from and against any and all claims, demands, suit, damages, attorneys' fees, fines, losses, penalties, defense costs or liabilities suffered by the City to the extent caused by any negligent act, omission, breach, recklessness or misconduct of Consultant and/or any of its agents, officers, or employees hereunder , including any inaccuracy in or breach of any of the representations, warranties or covenants made by the Consultant, its agents, officers and/or employees, in the performance of services of this contract. To the extent considered necessary by City, any sums due Consultant hereunder may be retained by City until all of City's claims for indemnification hereunder have been settled or otherwise resolved, and any amount withheld shall not be subject to payment or interest by City.

B. Consultant acknowledges and agrees that City would not enter into this Contract without this indemnification of City by Consultant. The parties agree that one percent (1%) of the total compensation paid to Consultant hereunder shall constitute specific consideration to Consultant for the indemnification provided under this Article and these provisions shall survive expiration or early termination of this Contract.

C. Nothing in this Agreement shall constitute a waiver by the City of its sovereign immunity limits as set forth in section 768.28, Florida Statutes. Nothing herein shall be construed as consent from either party to be sued by third parties.

ARTICLE 12 – SUCCESSORS AND ASSIGNS

The City and the Consultant each binds itself and its partners, successors, executors, administrators and assigns to the other party of this Contract and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the City nor the Consultant shall assign, sublet, encumber, convey or transfer its interest in this Contract without prior written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the City, which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the City and the Consultant.

ARTICLE 13 – REMEDIES

The laws of the State of Florida shall govern this Contract. Any and all legal action between the parties arising out of the Contract will be held in Broward County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power or remedy hereunder shall preclude any other or further exercise thereof.

ARTICLE 14 – CONFLICT OF INTEREST

The Consultant represents that it has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder, as provided for in the Code of Ethics for Public Officers and Employees (Chapter 112, Part III, Florida Statutes). The Consultant further represents that no person having any interest shall be employed for said performance.

The Consultant shall promptly notify the City's representative, in writing, by certified mail, of a potential conflict(s) of interest for any prospective business association, interest or other circumstance, which may influence or appear to influence the Consultant's judgment or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the Consultant may undertake and request an opinion of the City as to whether the association, interest or circumstance would, in the opinion of the City, constitute a conflict of interest if entered into by the Consultant. The City agrees to notify the Consultant of its opinion by certified mail within thirty (30) days of receipt of notice by the Consultant. If, in the opinion of the City, the prospective business association, interest, or circumstance would not constitute a conflict of interest by the Consultant, the City shall so state in the notice and the Consultant shall at its option, enter into said association, interest or circumstance and it shall be deemed not a conflict of interest with respect to services provided to the City by the Consultant under the terms of this Contract.

ARTICLE 15 – EXCUSABLE DELAYS

The Consultant shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the control of the Consultant or its subcontractors and without their fault or negligence. Such causes include, but are not limited to, acts of God; natural or public health emergencies ; freight embargoes; and abnormally severe and unusual weather conditions.

Upon the Consultant's request, the City shall consider the facts and extent of any failure to perform the work and, if the Consultant's failure to perform was without it, or its subcontractors fault or negligence, the Contract Schedule and/or any other affected provision of this Contract shall be revised accordingly; subject to the City's rights to change, terminate, or stop any or all of the work at any time.

ARTICLE 16 – DEBT

The Consultant shall not pledge the City's credit or attempt to make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness. The Consultant further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

ARTICLE 17 – DISCLOSURE AND OWNERSHIP OF DOCUMENTS

The Consultant shall deliver to the City's representatives for approval and acceptance, and before being eligible for final payment of any amounts due, all documents and materials prepared by and for the City under this Contract.

All written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the City or at its expense will be kept confidential by the Consultant and will not be disclosed to any other party, directly or indirectly, without the City's prior written consent unless required by a lawful order. All drawings, maps, sketches, programs, data base, reports and other data developed, or purchased, under this Contract for or at the City's expense shall be and remain the City's property and may be reproduced and reused at the discretion of the City.

A. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Consultant shall comply with Florida's Public Records Law, as amended. Specifically, the Consultant shall:

1. Keep and maintain public records required by the City in order to perform the service.

2. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Consultant does not transfer the records to the City.

4. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Consultant, or keep and maintain public records required by the City to perform the service. If the Consultant transfers all public records to the City upon completion of the contract, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the contract, the Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

B. Failure of the Consultant to provide the above described public records to the City within a reasonable time may subject Consultant to penalties under 119.10, Florida Statutes, as amended.

PUBLIC RECORDS CUSTODIAN

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

CITY CLERK
100 W. Atlantic Blvd., Suite 253
Pompano Beach, Florida 33060
(954) 786-4611
RecordsCustodian@copbfl.com

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated thereby.

ARTICLE 18 – CONTINGENT FEES

The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Contract. Violation of this Article shall constitute a forfeiture of this Contract by Consultant.

ARTICLE 19 – ACCESS AND AUDITS

The Consultant shall maintain adequate records to justify all charges, expenses, and cost incurred in estimating and performing the work for at least three (3) years after completion of this Contract. The City shall have access to such books, records and documents as required in this section for the purpose of inspection or audit during normal business hours, at the Consultant's place of business.

ARTICLE 20 – NONDISCRIMINATION

The Consultant warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status and sexual orientation.

ARTICLE 21 – INTERPRETATION

The language of this Contract has been agreed to by both parties to express their mutual intent and no rule of strict construction shall be applied to either party hereto. The headings are for reference purposes only and shall not affect in any way the meaning or interpretation of this Contract. All personal pronouns used in this Contract shall include the other gender, and the singular, the plural, and vice versa, unless the context otherwise requires.

ARTICLE 22 – AUTHORITY TO PRACTICE

The Consultant hereby represents and warrants that it has and will continue to maintain all licenses and approvals required conducting its business, and that it will at all times conduct its business activities in a reputable manner. Proof of such licenses and approvals shall be submitted to the City's representative upon request.

ARTICLE 23 – SEVERABILITY

If any term or provision of this Contract, or the application thereof to any person or circumstances shall, to any extent be held invalid or unenforceable, to remainder of this Contract, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Contract shall be deemed valid and enforceable to the extent permitted by law.

ARTICLE 24 – ENTIRETY OF CONTRACTUAL AGREEMENT

The City and the Consultant agree that this Contract, together with the Exhibits hereto, sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. It is further agreed that no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and off equal dignity herewith. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 25 – Modification of Work. In the event of any conflict or inconsistency between this Contract and the provisions in the incorporated Exhibits, the terms of this Contract shall supersede and prevail over the terms in the Exhibits.

ARTICLE 25 – MODIFICATION OF SCOPE OF WORK

The City reserves the right to make changes in the Scope of Work, including alterations, reductions therein or additions thereto. Upon receipt by the Consultant of the City's notification of a contemplated change, the Consultant shall, in writing: (1) provide a detailed estimate for the increase or decrease in cost due to the contemplated change; (2) notify the City of any estimated change in the completion date; and (3) advise the City if the contemplated change shall affect the Consultant's ability to meet the completion dates or schedules of this Contract.

If the City so instructs in writing, the Consultant shall suspend work on that portion of the Scope of Work affected by a contemplated change, pending the City's decision to proceed with the change.

If the City elects to make the change, the City shall initiate a Work Authorization Amendment and the Consultant shall not commence work on any such change until such written amendment is signed by the Consultant and the City Manager, and if such amendment is in excess of $75,000, it must also first be approved by the City Commission and signed by the appropriate City Official authorized by the City Commission

The City shall not be liable for payment of any additional or modified work, which is not authorized in the manner provided for by this Article.

ARTICLE 26 – NOTICE

All notices required in this Contract shall be sent by certified mail, return receipt requested, to the following:

FOR CITY:

City Manager
City of Pompano Beach
Post Office Drawer 1300
Pompano Beach, Florida 33061

FOR CONSULTANT:

Marwan Mufleh, P.E.
Kimley-Horn and Associates, Inc.
1920 Wekiva Way, Suite 200
West Palm Beach, FL 33411

ARTICLE 27 – OWNERSHIP OF DOCUMENTS

All finished or unfinished documents, data, reports, studies, surveys, drawings, maps, models and photographs prepared or provided by the Consultant in connection with this Contract shall become property of the City, whether the project for which they are made is completed or not, and shall be delivered by Consultant to City within ten (10) days of notice of termination. If applicable, City may withhold any payments then due to Consultant until Consultant complies with the provisions of this section.

ARTICLE 28 – PROMOTING PROJECT OBJECTIVES

Consultant, its employees, subcontractors, and agents shall refrain from acting adverse to the City's interest in promoting the goals and objectives of the projects. Consultant shall take all reasonable measures necessary to effectuate these assurances. In the event Consultant determines it is unable to meet or promote the goals and objectives of the projects, it shall immediately notify the City and the City, may then in its discretion, terminate this Contract.

ARTICLE 29 – PUBLIC ENTITY CRIMES ACT

As of the full execution of this Contract, Consultant certifies that in accordance with §287.133, Florida Statutes, it is not on the Convicted Vendors List maintained by the State of Florida, Department of General Services. If Consultant is subsequently listed on the Convicted Vendors List during the term of this Contract, Consultant agrees it shall immediately provide City written notice of such designation in accordance with Article 26 above.

ARTICLE 30 – GOVERNING LAW

This Contract must be interpreted and construed in accordance with and governed by the laws of the State of Florida. The exclusive venue for any lawsuit arising from, related to, or in connection with this Agreement will be in the state courts of the Seventeenth Judicial Circuit in and for Broward County, Florida. If any claim arising from, related to, or in connection with this Agreement must be litigated in federal court, the exclusive venue for any such lawsuit will be in the United States District Court or United States Bankruptcy Court for the Southern District of Florida. BY ENTERING INTO THIS AGREEMENT, THE PARTIES HEREBY EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT.

ARTICLE 31 - BINDING EFFECT

The benefits and obligations imposed pursuant to this Contract shall be binding and enforceable by and against the parties hereto.

“CITY”

Attest:

CITY OF POMPANO BEACH

_____
ASCELETA HAMMOND, CITY CLERK

By:_____
REX HARDIN, MAYOR

(SEAL)

By:_____
GREGORY P. HARRISON, CITY MANAGER

APPROVED AS TO DEPARTMENT HEAD:

By:_____

"**CONSULTANT**"

Kimley-Horn and Associates, Inc.

Witnesses:

Signature

By: _____
Marwan Mufleh, Senior Vice President

GIN NG
Name Typed, Printed or Stamped

Signature

Michael F. Schwartz
Name Type, Printed or Stamped

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me, by means of ☑ physical presence or ☐ online notarization, this 13 day of January, 2021, by Marwan Mufleh, as Senior Vice President of Kimley-Horn and Associates, Inc. Consultant, a North Carolina corporation authorized to do business in Florida, on behalf of the corporation. He is personally known to me or who has produced _____ (type of identification) as identification.

NOTARY'S SEAL:

LORI D'AMICO
MY COMMISSION # GG 957251
EXPIRES: March 16, 2024
Bonded Thru Notary Public Underwriters

Lori D'Amico
NOTARY PUBLIC, STATE OF FLORIDA

Lori D'Amico
(Name of Acknowledger Typed, Printed or Stamped)

GG 957251
Commission Number

Florida's Warmest Welcome

CITY OF POMPANO BEACH
REQUEST FOR LETTERS OF INTEREST
E-20-20

CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY PROJECTS

RLI OPENING: July 30, 2020 2:00 P.M.
VIRTUAL ZOOM MEETING

June 30, 2020

CITY OF POMPANO BEACH, FLORIDA

REQUEST FOR LETTERS OF INTEREST
E-20-20

CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY PROJECTS

Pursuant to Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act" the City of Pompano Beach and the Pompano Beach Community Redevelopment Association (CRA) invite professional firms to submit qualifications and experience for consideration to provide construction engineering inspection (CEI) services to the City and the CRA on a continuing as-needed basis.

The City will receive sealed proposals until **2:00 p.m. (local), July 30, 2020.** Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: https://pompanobeachfl.ionwave.net. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

Introduction

The City of Pompano Beach is seeking qualified civil engineering firms to work on various projects for City and the CRA. The projects range in magnitude from small-scale to large or specialized designs.

The types of projects to be undertaken may include, but are not limited to:

- The City's approved Capital Improvement Plan (CIP) maybe found here: Adopted Capital Improvement Plan FY 2020-2024
- Roadway, Streetscape or Parking Lot projects.
- Water or Reuse Main projects.
- Gravity Sewer Main projects.
- Force Main projects.
- Lift station/pump station rehabilitation projects.
- Parks and Recreational Facilities.
- Seawall and dock construction and repair.
- Storm Water/Drainage Improvement projects
- Consultation for Emergency Water/Wastewater/Stormwater Repairs.
- Inspection Services for Emergency Water/Wastewater/Stormwater Repairs.
- Canal and lake dredging.

- Grant reimbursement, FAA and FDOT support and compliance.
- SRF support and Davis Bacon Wage Reporting requirements
- Support Services for Remediation
- Demolition Projects

A. Scope of Services

The City intends to issue multiple contracts to civil engineering firms to provide continuing professional services to the City and the CRA for various projects as-needed. Professional services under this contract will be restricted to those required for any project for which construction costs will not exceed $4 million, and for any study activity for which fees will not exceed $500,000.00.

The scope of services may include, but is not limited to, the following:

- Prepare preliminary design reports and/or design alternative recommendations. This may include various types of utility modeling, surveying, and field data analysis.
- Prepare all required bidding/construction documents for projects. This may include the preparation of surveys, design plans and construction documents, technical specifications, and cost estimates. Attendance at required pre-design, design, bidding and bid award meeting may also be required.
- Attend pre-bid conference, prepare possible bid addenda for contract document revisions. Assist in making bid award recommendations for contracting/construction services.
- Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City).
- Provide construction engineering/management/administration services for projects. Services during construction may include shop drawing/contractor submittal reviews and approvals, inspection and approval of project improvements, certification of projects for various permitting entities, possible field revisions, and review and approval of contractor pay applications.
- Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies.

Firms must have previous municipal experience and must be licensed to practice **Civil Engineering services** in the State of Florida, Florida State Statute 481, by the Board of Professional Regulation.

B. Task/Deliverables

Tasks and deliverables will be determined per project. Each project shall require a signed Work Authorization (WA) form from the awarded firm to be provided to the City or the CRA. Forms shall be completed in its entirety and include the agreed upon scope, tasks, schedule, cost, and deliverables for the project Consultant will be required to provide all applicable insurance requirements.

C. Term of Contract

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

D. Project Web Requirements:

1. This project will utilize e-Builder Enterprise™, a web-based project management tool. This web-based application is a collaboration tool, which will allow all project team members continuous access through the Internet to important project data as well as up to the minute decision and approval status information.

   e-Builder Enterprise™ is a comprehensive Project and Program Management system that the City will use to manage all project documents, communications and costs between the Lead Consultant, Sub-Consultants, Design Consultants, Contractor and Owner. e-Builder Enterprise™ includes extensive reporting capabilities to facilitate detailed project reporting in a web-based environment that is accessible to all parties and easy to use. Training will be provided for all consultants selected to provide services for the City of Pompano Beach.

2. Lead and Sub-Consultants shall conduct project controls outlined by the Owner, Project Manager, and/or Construction Manager, utilizing e-Builder Enterprise™. **The designated web-based application license(s) shall be provided by the City to the Prime Consultant and Sub-Consultants.** No additional software will be required.

   Lead Consultant and Sub-Consultants shall have the responsibility for logging in to the project web site on a daily basis, and as necessary to be kept fully apprised of project developments and required action items. , These may include but are not limited to: Contracts, Contract Exhibits, Contract Amendments, Drawing Issuances, Addenda, Bulletins, Permits, Insurance & Bonds, Safety Program Procedures, Safety Notices, Accident Reports, Personnel Injury Reports, Schedules, Site Logistics, Progress Reports, Correspondence, Daily Logs, Non-Conformance Notices, Quality Control Notices, Punch Lists, Meeting Minutes, Requests for Information, Submittal Packages, Substitution Requests, Monthly Payment Request Applications, Supplemental Instructions, Owner Change Directives, Potential Change Orders, Change Order Requests, Change Orders and the like. All supporting data including but not limited to shop drawings, product data sheets, manufacturer data sheets and instructions, method statements, safety SDS sheets, Substitution Requests and the like will be submitted in digital format via e-Builder Enterprise™.

E. Local Business Program

On March 13, 2018, the City Commission approved Ordinance 2018-46, establishing a Local Business Program, a policy to increase the participation of City of Pompano Beach businesses in the City's procurement process.

For purposes of this solicitation, “Local Business” will be defined as follows:

1. **TIER 1 LOCAL VENDOR.** POMPANO BEACH BUSINESS EMPLOYING POMPANO BEACH RESIDENTS. A business entity which has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least ten percent who are residents of the City of Pompano Beach or includes

subcontracting commitments to Local Vendors Subcontractors for at least ten percent of the contract value. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

2. **TIER 2 LOCAL VENDOR.** BROWARD COUNTY BUSINESS EMPLOYING POMPANO BEACH RESIDENTS OR UTILIZING LOCAL VENDOR SUBCONTRACTORS. A business entity which has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value. The permanent place of business may not be a post office box. The business must be located in a non- residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the respective Broward County municipality for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

3. **LOCAL VENDOR SUBCONTRACTOR.** POMPANO BEACH BUSINESS. A business entity which has maintained a permanent place of business within the city limits of the City of Pompano Beach. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

You can view the list of City businesses that have a current Business Tax Receipt on the City's website, and locate local firms that are available to perform the work required by the bid specifications. The business information, sorted by business use classification, is posted on the webpage for the Business Tax Receipt Division: www.pompanobeachfl.gov by selecting the Pompano Beach Business Directory in the Shop Pompano! section.

The City of Pompano Beach is **strongly committed** to insuring the participation of City of Pompano Beach Businesses as contractors and subcontractors for the procurement of goods and services, including labor, materials and equipment. Proposers are required to participate in the City of Pompano Beach's Local Business Program by including, as part of their package, the Local Business Participation Form (Exhibit A,) listing the local businesses that will be used on the contract, and the Letter of Intent Form (Exhibit B) from each local business that will participate in the contract.

Please note that, while no goals have been established for this solicitation, the City encourages Local Business participation in *all* of its procurements.

If a Prime Contractor/Vendor is not able to achieve the level of goal attainment of the contract, the Prime Vendor will be requested to demonstrate and document that good faith efforts were made to achieve the goal by providing the Local Business Unavailability Form (Exhibit C), listing firms that were contacted but not available, and the Good Faith Effort Report (Exhibit D), describing the efforts made to include local business participation in the contract. This documentation shall be provided to the City Commission for acceptance.

The awarded proposer will be required to submit "Local Business Subcontractor Utilization Reports" during projects and after projects have been completed. The reports will be submitted to the assigned City project manager of the project. The Local Business Subcontractor Utilization Report template and instructions have been included in the bid document.

Failure to meet Local Vendor Goal commitments will result in "unsatisfactory" compliance rating. Unsatisfactory ratings may impact award of future projects if a sanction is imposed by the City Commission.

The city shall award a Local Vendor preference based upon vendors, contractors, or subcontractors who are local with a preferences follows:

1. For evaluation purposes, the Tier 1 and Tier 2 businesses shall be a criterion for award in this Solicitation. No business may qualify for more than one tier level.

2. For evaluation purposes, local vendors shall receive the following preferences:

   a. Tier 1 business as defined by this subsection shall be granted a preference in the amount of five percent of total score.

   b. Tier 2 business as defined by this subsection shall be granted a preference in the amount of two and one-half percent of total score.

3. It is the responsibility of the awarded vendor/contractor to comply with all Tier 1 and Tier 2 guidelines. The awarded vendor/contractor must ensure that all requirements are met before execution of a contract.

F. Required Proposal Submittal

Sealed proposals shall be submitted electronically through the eBid System on or before the due date/time stated above. Proposer shall upload response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB the response must be split and uploaded as two (2) separate files.

Information to be included in the proposal: In order to maintain comparability and expedite the review process, it is required that proposals be organized in the manner specified below, with the sections clearly labeled:

Title page:
Show the project name and number, the name of the Proposer's firm, address, telephone number, name of contact person and the date.

Table of Contents:
Include a clear identification of the material by section and by page.

Letter of Transmittal:
Briefly state the Proposer's understanding of the project and express a positive commitment to provide the services described herein. State the name(s) of the person(s) who will be authorized to make representations for the Proposer, their title(s), office and E-mail addresses and telephone numbers. Please limit this section to two pages.

Technical Approach:
Firms or teams shall submit their technical approach to the tasks described in the scope, including details of how each phase of the project would be completed, and how their firm proposes to maintain time schedules and cost controls.

Schedule:
Proposer shall provide a timeline that highlights proposed tasks that will meet all applicable deadlines.

References:
References for past projects in the tri-county area (Broward, Palm Beach, and Miami-Dade.) Describe the scope of each project in physical terms and by cost, describe the respondent's responsibilities, and provide the contact information (name, email, telephone number) of an individual in a position of responsibility who can attest to respondent's activities in relation to the project.

List any prior projects performed for the City of Pompano Beach.

Project Team Form:
Submit a completed "Project Team" form. The purpose of this form is to identify the key members of your team, including any specialty subconsultants.

Organizational Chart:
Specifically identify the management plan (if needed) and provide an organizational chart for the team. The proposer must describe at a minimum, the basic approach to these projects, to include reporting hierarchy of staff and sub-consultants, clarify the individual(s) responsible for the co-ordination of separate components of the scope of services.

Statement of Skills and Experience of Project Team:
Describe the experience of the entire project team as it relates to the types of projects described in the Scope section of this solicitation. Include the experience of the prime consultants as well as other members of the project team; i.e., additional personnel, sub-consultants, branch office, team members, and other resources anticipated to be utilized for this project. Name specific projects (successfully completed within the past five years) where the team members have performed similar projects previously.

Resumes of Key Personnel
Include resumes for key personnel for prime and subconsultants.

Office Locations:
Identify the location of the office from which services will be rendered, and the number of professional and administrative staff at the prime office location. Also identify the location

of office(s) of the prime and/or sub consultants that may be utilized to support any or all of the professional services listed above and the number of professional and administrative staff at the prime office location.

If firms are situated outside the local area, (Broward, Palm Beach, and Miami-Dade counties) include a brief statement as to whether or not the firm will arrange for a local office during the term of the contract, if necessary.

Local Businesses:
Completed Local Business program forms, Exhibits A-D.
NOTE: Form B must be signed by a representative of the subcontractor, NOT of the Prime.

Litigation:
Disclose any litigation within the past five (5) years arising out your firm's performance, including status/outcome.

City Forms:
The Proposer Information Page Form and any other required forms must be completed and submitted electronically through the City's eBid System. The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

Reviewed and Audited Financial Statements:

Proposers shall be financially solvent and appropriately capitalized to be able to service the City for the duration of the contract. Proposers shall provide a complete financial statement of the firm's most recent audited financial statements, indicating organization's financial condition. Must be uploaded to the Response Attachments tab in the eBid System as a separate file titled "Financial Statements" and marked "CONFIDENTIAL."

Financial statements provided shall not be older than twelve 12) months prior to the date of filing this solicitation response. The financial statements are to be reviewed and submitted with any accompanying notes and supplemental information. The City of Pompano Beach reserve the right to reject financial statements in which the financial condition shown is of a date twelve (12) months or more prior to the date of submittals.

The City is a public agency subject to Chapter 119, Florida's Public Records Law and is required to provide the public with access to public records, however, financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure.

The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

A combination of two (2) or more of the following may substitute for audited financial statements:

1) Bank letters/statements for the past 3 months
2) Balance sheet, profit and loss statement, cash flow report
3) IRS returns for the last 2 years
4) Letter from CPA showing profits and loss statements (certified)

G. Insurance

CONTRACTOR shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the CITY's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to CITY staff responsible for oversight of the subject project/contract.

CONTRACTOR is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONTRACTOR, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONTRACTOR under this Agreement.

Throughout the term of this Agreement, CONTRACTOR and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONTRACTOR further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

2. Liability Insurance.

(a) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONTRACTOR's negligent acts or omissions in connection with Contractor's performance under this Agreement.

(b) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

Type of Insurance		Limits of Liability		
GENERAL LIABILITY:		Minimum $1,000,000 Per Occurrence and $2,000,000 Per Aggregate		
* Policy to be written on a claims incurred basis				
XX	comprehensive form	bodily injury and property damage		
XX	**premises - operations**	**bodily injury and property damage**		
__	**explosion & collapse hazard**			
__	underground hazard			
XX	products/completed operations hazard	bodily injury and property damage combined		
XX	contractual insurance	bodily injury and property damage combined		
XX	broad form property damage	bodily injury and property damage combined		
XX	independent contractors	personal injury		
XX	personal injury			
__	sexual abuse/molestation	Minimum $1,000,000 Per Occurrence and Aggregate		
__	liquor legal liability	Minimum $1,000,000 Per Occurrence and Aggregate		
AUTOMOBILE LIABILITY:		Minimum $1,000,000 Per Occurrence and Aggregate. Bodily injury (each person) bodily injury (each accident), Property damage, bodily injury and property damage combined.		
XX	comprehensive form			
XX	owned			
XX	hired			
XX	non-owned			
REAL & PERSONAL PROPERTY				
__	comprehensive form	Agent must show proof they have this coverage.		
EXCESS LIABILITY			Per Occurrence	Aggregate
__	other than umbrella	bodily injury and property damage combined	$1,000,000	$1,000,000
PROFESSIONAL LIABILITY			Per Occurrence	Aggregate
XX	* Policy to be written on a claims made basis		$1,000,000	$1,000,000

(c) If Professional Liability insurance is required, Contractor agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the

termination or expiration of the Agreement for a period of four (4) years unless terminated sooner by the applicable statute of limitations.

CYBER LIABILITY	Per Occurrence	Aggregate
__ * Policy to be written on a claims made basis	$1,000,000	$1,000,000

__ Network Security / Privacy Liability
__ Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)
__ Technology Products E&O - $1,000,000 (only applicable for vendors supplying technology related services and or products)
__ Coverage shall be maintained in effect during the period of the Agreement and for not less than four (4) years after termination/ completion of the Agreement.

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3. Employer's Liability. If required by law, CONTRACTOR and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars ($100,000.00) per employee, Five Hundred Thousand Dollars ($500,000) per aggregate.

4. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONTRACTOR, the CONTRACTOR shall promptly provide the following:

(a) Certificates of Insurance evidencing the required coverage;

(b) Names and addresses of companies providing coverage;

(c) Effective and expiration dates of policies; and

(d) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

5. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

6. Waiver of Subrogation. CONTRACTOR hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONTRACTOR shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONTRACTOR enter into such an agreement on a pre-loss basis.

H. Selection/Evaluation Process

A Selection/Evaluation Committee will be appointed to select the most qualified firm(s). The Selection/Evaluation Committee will present their findings to the City Commission.

Proposals will be evaluated using the following criteria.

Line	Criteria	Point Range
1	Prior experience of the firm with projects of similar size and complexity: a. Number of similar projects b. Complexity of similar projects c. References from past projects performed by the firm d. Previous projects performed for the City (provide description) e. Litigation within the past 5 years arising out of firm's performance (list, describe outcome)	0-15
2	Qualifications of personnel including sub consultants: a. Organizational chart for project b. Number of technical staff c. Qualifications of technical staff: (1) Number of licensed staff (2) Education of staff (3) Experience of staff on similar projects	0-15
3	Proximity of the nearest office to the project location: a. Location b. Number of staff at the nearest office	0-15
4	Current and Projected Workload Rating is to reflect the workload (both current and projected) of the firm, staff assigned, and the percentage availability of the staff member assigned. Respondents which fail to note both existing and projected workload conditions and percentage of availability of staff assigned shall receive zero (0) points	0-15
5	Demonstrated Prior Ability to Complete Project on Time Respondents will be evaluated on information provided regarding the firm's experience in the successful completion and steadfast conformance to similar project schedules. Provide an example of successful approaches utilized to achieve a timely project completion. Respondents who demonstrate the ability to complete projects on time shall receive more points.	0-15
6	Demonstrated Prior Ability to Complete Project on Budget	0-15

	Proposers will be evaluated on their ability to adhere to initial design budgets. Examples provided should show a comparison between initial negotiated task costs and final completion costs. Respondents should explain in detail any budgetary overruns due to scope modifications. Respondents which fail to provide schedule and budget information as requested will receive zero (0) points.	
7	Is the firm a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985? (Certification of any sub-contractors should also be included with the response.)	0-10

Additional 0-5% for Tier1/Tier2 Local Business will be calculated on combined scoring totals of each company.

NOTE:
Financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure; however, financial statements submitted to prequalify for a solicitation, and are not required by the City, may be subject to public disclosure.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

The Committee has the option to use the above criteria for the initial ranking to short-list Proposers and to use an ordinal ranking system to score short-listed Proposers following presentations (if deemed necessary) with a score of “1” assigned to the short-listed Proposer deemed most qualified by the Committee.

Each firm should submit documentation that evidences the firm’s capability to provide the services required for the Committee’s review for short listing purposes. After an initial review of the Proposals, the City may invite Proposers for an interview to discuss the proposal and meet firm representatives, particularly key personnel who would be assigned to the project. Should interviews be deemed necessary, it is understood that the City shall incur no costs as a result of this interview, nor bear any obligation in further consideration of the submittal.

When more than three responses are received, the committee shall furnish the City Commission (for their approval) a listing, in ranked order, of no fewer than three firms deemed to be the most highly qualified to perform the service. If three or less firms respond to the Solicitation, the list will contain the ranking of all responses.

The City Commission has the authority to (including, but not limited to); approve the recommendation; reject the recommendation and direct staff to re-advertise the solicitation; or, review the responses themselves and/or request oral presentations and determine a ranking order that may be the same or different from what was originally presented to the City Commission.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

I. Hold Harmless and Indemnification

Proposer covenants and agrees that it will indemnify and hold harmless the City and all of its officers, agents, and employees from any claim, loss, damage, cost, charge or expense arising out of any act, action, neglect or omission by the Proposer, whether direct or indirect, or whether to any person or property to which the City or said parties may be subject, except that neither the Proposer nor any of its subcontractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused by or resulting from the sole negligence of the City or any of its officers, agents or employees.

J. Right to Audit

Contractor's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, subcontract files (including proposals of successful and unsuccessful bidders), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the contractor or any of his payees pursuant to the execution of the contract. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this contract.

For the purpose of such audits, inspections, examinations and evaluations, the Owner's agent or authorized representative shall have access to said records from the effective date of this contract, for the duration of the Work, and until 5 years after the date of final payment by Owner to Consultant pursuant to this contract.

Owner's agent or its authorized representative shall have access to the Contractor's facilities, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with this article. Owner's agent or its authorized representative shall give auditees reasonable advance notice of intended audits.

Contractor shall require all subcontractors, insurance agents, and material suppliers (payees) to comply with the provisions of this article by insertion of the requirements hereof in any written contract agreement. Failure to obtain such written contracts which include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the Contractor pursuant to this contract.

K. Retention of Records and Right to Access

The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service;

2. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;

3. Ensure that public records that are exempt or that are confidential and exempt from public record requirements are not disclosed except as authorized by law;

4. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and

5. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

L. Communications

No negotiations, decisions, or actions shall be initiated or executed by the firm as a result of any discussions with any City employee. Only those communications, which are in writing from the City, may be considered as a duly authorized expression on behalf of the City. In addition, only communications from firms that are signed and in writing will be recognized by the City as duly authorized expressions on behalf of firms.

M. No Discrimination

There shall be no discrimination as to race, sex, color, age, religion, or national origin in the operations conducted under any contract with the City.

N. Independent Contractor

The selected firm will conduct business as an independent contractor under the terms of this contract. Personnel services provided by the firm shall be by employees of the firm and subject to supervision by the firm, and not as officers, employees, or agents of the City. Personnel policies, tax responsibilities, social security and health insurance,

employee benefits, purchasing policies and other similar administrative procedures applicable to services rendered under this agreement shall be those of the firm.

O. Staff Assignment

The City of Pompano Beach reserves the right to approve or reject, for any reasons, Proposer's staff assigned to this project at any time. Background checks may be required.

P. Contract Terms

The contract resulting from this Solicitation shall include, but not be limited to the following terms:

The contract shall include as a minimum, the entirety of this Solicitation document, together with the successful Proposer's proposal. Contract shall be prepared by the City of Pompano Beach City Attorney.

If the City of Pompano Beach defends any claim, demand, cause of action, or lawsuit arising out of any act, action, negligent acts or negligent omissions, or willful misconduct of the contractor, its employees, agents or servants during the performance of the contract, whether directly or indirectly, contractor agrees to reimburse the City of Pompano Beach for all expenses, attorney's fees, and court costs incurred in defending such claim, cause of action or lawsuit.

Q. Waiver

It is agreed that no waiver or modification of the contract resulting from this Solicitation, or of any covenant, condition or limitation contained in it shall be valid unless it is in writing and duly executed by the party to be charged with it, and that no evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the parties arising out of or affecting this contract, or the right or obligations of any party under it, unless such waiver or modification is in writing, duly executed as above. The parties agree that the provisions of this paragraph may not be waived except by a duly executed writing.

R. Survivorship Rights

This contract resulting from this Solicitation shall be binding on and inure to the benefit of the respective parties and their executors, administrators, heirs, personal representative, successors and assigns.

S. Termination

The contract resulting from this Solicitation may be terminated by the City of Pompano Beach without cause upon providing contractor with at least sixty (60) days prior written notice.

Should either party fail to perform any of its obligations under the contract resulting from this Solicitation for a period of thirty (30) days after receipt of written notice of such failure, the non-defaulting part will have the right to terminate the contract immediately upon delivery of written notice to the defaulting part of its election to do so. The foregoing rights of termination are in addition to any other rights and remedies that such party may have.

T. Manner of Performance

Proposer agrees to perform its duties and obligations under the contract resulting from this Solicitation in a professional manner and in accordance with all applicable local, federal and state laws, rules and regulations.

Proposer agrees that the services provided under the contract resulting from this Solicitation shall be provided by employees that are educated, trained and experienced, certified and licensed in all areas encompassed within their designated duties. Proposer agrees to furnish the City of Pompano Beach with all documentation, certification, authorization, license, permit, or registration currently required by applicable laws or rules and regulations. Proposer further certifies that it and its employees are now in and will maintain good standing with such governmental agencies and that it and its employees will keep all license, permits, registration, authorization or certification required by applicable laws or regulations in full force and effect during the term of this contract. Failure of Proposer to comply with this paragraph shall constitute a material breach of contract.

U. Acceptance Period

Proposals submitted in response to this Solicitation must be valid for a period no less than ninety (90) days from the closing date of this solicitation.

V. Conditions and Provisions

The completed proposal (together with all required attachments) must be submitted electronically to City on or before the time and date stated herein. All Proposers, by electronic submission of a proposal, shall agree to comply with all of the conditions, requirements and instructions of this solicitation as stated or implied herein. All proposals and supporting materials submitted will become the property of the City.

Proposer's response shall not contain any alteration to the document posted other than entering data in spaces provided or including attachments as necessary. By submission of a response, Proposer affirms that a complete set of bid documents was obtained from the eBid System or from the Purchasing Division only and no alteration of any kind has been made to the solicitation. Exceptions or deviations to this proposal may not be added after the submittal date.

All Proposers are required to provide all information requested in this solicitation. Failure to do so may result in disqualification of the proposal.

The City reserves the right to postpone or cancel this solicitation, or reject all proposals, if in its sole discretion it deems it to be in the best interest of the City to do so.

The City reserves the right to waive any technical or formal errors or omissions and to reject all proposals, or to award contract for the items herein, in part or whole, if it is determined to be in the best interests of the City to do so.

The City shall not be liable for any costs incurred by the Proposer in the preparation of proposals or for any work performed in connection therein.

W. Standard Provisions

1. Governing Law

Any agreement resulting from this Solicitation shall be governed by the laws of the State of Florida, and the venue for any legal action relating to such agreement will be in Broward County, Florida.

2. Licenses

In order to perform public work, the successful Proposer shall:
Be licensed to do business in Florida, if an entity, and hold or obtain such Contractor' and Business Licenses if required by State Statutes or local ordinances.

3. Conflict Of Interest

For purposes of determining any possible conflict of interest, each Proposer must disclose if any Elected Official, Appointed Official, or City Employee is also an owner, corporate officer, or an employee of the firm. If any Elected Official, Appointed Official, or City Employee is an owner, corporate officer, or an employee, the Proposer must file a statement with the Broward County Supervisor of Elections pursuant to §112.313, Florida Statutes.

4. Drug Free Workplace

The selected firm(s) will be required to verify they will operate a "Drug Free Workplace" as set forth in Florida Statute, 287.087.

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction for public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute, Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

If the selected Proposer requires or desires to use any design, trademark, device, material or process covered by letters of patent or copyright, the selected Proposer and his surety shall indemnify and hold harmless the City from any and all claims for infringement by reason of the use of any such patented design, device, trademark, copyright, material or process in connection with the work agreed to be performed and shall indemnify the City from any cost, expense, royalty or damage

which the City may be obligated to pay by reason of any infringement at any time during or after completion of the work.

7. Permits

The selected Proposer shall be responsible for obtaining all permits, licenses, certifications, etc., required by federal, state, county, and municipal laws, regulations, codes, and ordinances for the performance of the work required in these specifications and to conform to the requirements of said legislation.

8. Familiarity With Laws

It is assumed the selected firm(s) will be familiar with all federal, state and local laws, ordinances, rules and regulations that may affect its services pursuant to this Solicitation. Ignorance on the part of the firm will in no way relieve the firm from responsibility.

9. Withdrawal Of Proposals

A firm may withdraw its proposal without prejudice no later than the advertised deadline for submission of proposals by written communication to the General Services Department, 1190 N.E. 3rd Avenue, Building C, Pompano Beach, Florida 33060.

10. Composition Of Project Team

Firms are required to commit that the principals and personnel named in the proposal will perform the services throughout the contractual term unless otherwise provided for by way of a negotiated contract or written amendment to same executed by both parties. No diversion or substitution of principals or personnel will be allowed unless a written request that sets forth the qualifications and experience of the proposed replacement(s) is submitted to and approved by the City in writing.

11. Invoicing/Payment

All invoices should be sent to City of Pompano Beach, Accounts Payable, P.O. Drawer 1300, Pompano Beach, Florida, 33061. In accordance with Florida Statutes, Chapter 218, payment will be made within 45 days after receipt of a proper invoice.

12. Public Records

a. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:

   i. Keep and maintain public records required by the City in order to perform the service;

ii. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;

iii. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and

iv. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

b. Failure of the Contractor to provide the above described public records to the City within a reasonable time may subject Contractor to penalties under 119.10, Florida Statutes, as amended.

PUBLIC RECORDS CUSTODIAN

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

CITY CLERK
100 W. Atlantic Blvd., Suite 253
Pompano Beach, Florida 33060
(954) 786-4611
RecordsCustodian@copbfl.com

X. Questions and Communication

All questions regarding the Solicitation are to be submitted using the Questions feature in the eBid System. Questions must be received at least seven (7) calendar days before the scheduled solicitation opening. Oral and other interpretations or clarifications will be without legal effect. Addenda will be posted to the solicitation in the eBid System, and it

is the Proposer's responsibility to obtain all addenda before submitting a response to the solicitation.

Y. Addenda

The issuance of a written addendum or posting of an answer in response to a question submitted using the Questions feature in the eBid System are the only official methods whereby interpretation, clarification, or additional information can be given. If any addenda are issued to this solicitation the addendum will be issued via the eBid System. It shall be the responsibility of each Proposer, prior to submitting their response, to contact the City Purchasing Office at (954) 786-4098 to determine if addenda were issued and to make such addenda a part of their proposal. Addenda will be posted to the solicitation in the eBid System.

Z. Contractor Performance Report

The City will utilize the Contractor Performance Report to monitor and record the successful proposer’s performance for the work specified by the contract. The Contractor Performance Report has been included as an exhibit to this solicitation.

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRITY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

_____, _____
(number) (Title)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the solicitation. I have read the solicitation and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) _____ Title _____

Company (Legal Registered) _____

Federal Tax Identification Number _____

Address _____

City/State/Zip _____

Telephone No. _____ Fax No. _____

Email Address _____

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

PROJECT TEAM

SOLICITATION NUMBER _____

Federal I.D.#_____

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge			
Project Manager			
Asst. Project Manager			
Other Key Member			
Other Key Member			

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying		
Landscaping		
Engineering		
Other Key Member		
Other Key Member		
Other Key Member		

(use attachments if necessary)

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRITY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

Respondent Vendor Name: _____

Vendor FEIN: _____

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over $1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify

Exhibit – Contractor Performance Report

City of Pompano Beach, Purchasing Division
1190 N.E. 3rd Avenue, Building C
Pompano Beach, Florida, 33060

CITY OF POMPANO BEACH
CONTRACTOR PERFORMANCE REPORT

1. Report Period: from _____ to _____

2. Contract Period: from _____ to _____

3. Bid# & or P.O.#: _____

4. Contractor Name: _____

5. City Department: _____

6. Project Manager: _____

7. Scope of Work (Service Deliverables): _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Exhibit – Contractor Performance Report

CATEGORY	RATING	COMMENTS
1. Quality Assurance/Quality Control - Product/Services of high quality - Proper oversight - Communication	Poor =1 Satisfactory =2 Excellent =3	
2. Record Keeping -Accurate record keeping -Proper invoicing -Testing results complete	Poor =1 Satisfactory =2 Excellent =3	
3. Close-Out Activities - Restoration/Cleanup - Deliverables met - Punch list items addressed	Poor =1 Satisfactory =2 Excellent =3	
4. Customer Service - City Personnel and Residents - Response time - Communication	Poor =1 Satisfactory =2 Excellent =3	
5. Cost Control - Monitoring subcontractors - Change-orders - Meeting budget	Poor =1 Satisfactory =2 Excellent =3	
6. Construction Schedule - Adherence to schedule - Time-extensions - Efficient use of resources	Poor =1 Satisfactory =2 Excellent =3	
SCORE	_____	**ADD ABOVE RATINGS/DIVIDE TOTAL BY NUMBER OF CATEGORIES BEING RATED**

RATINGS

Poor Performance (1.0 – 1.59)*: Marginally responsive, effective and/or efficient; delays require significant adjustments to programs; key employees marginally capable; customers somewhat satisfied.*

Satisfactory Performance (1.6 – 2.59)*: Generally responsive, effective and/or efficient; delays are excusable and/or results in minor program adjustments; employees are capable and satisfactorily providing service without intervention; customers indicate satisfaction.*

Excellent Performance (2.6 – 3.0): *Immediately responsive; highly efficient and/or effective; no delays; key employees are experts and require minimal direction; customers expectations are exceeded.*

Would you select/recommend this contractor again? _____ Yes _____ No

Please attach any supporting documents to this report to substantiate the ratings that have been provided.

_____	_____	_____
Ratings completed by (print name)	Ratings completed by signature	Date
_____	_____	_____
Department Head (print name)	Department Head Signature	Date
_____	_____	_____
Vendor Representative (print name)	Contractor Representative Signature	Date

Comments, corrective actions etc., use additional page if necessary:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

City of Pompano Beach Florida

Local Business Subcontractor Utilization Report

Project Name (1)		Contract Number and Work Order Number (if applicable) (2)	
Report Number (3)	Reporting Period (4) to	Local Business Contract Goal (5)	Estimated Contract Completion Date (6)
Contractor Name (7)		Contractor Telephone Number (8) ( ) -	Contractor Email Address (9)
Contractor Street Address (10)	Project Manager Name (11)	Project Manager Telephone Number (12) ( ) -	Project Manager Email Address (13)

Local Business Payment Report

Federal Identification Number (14)	**Local Subcontractor Business Name** (15)	**Description of Work** (16)	**Project Amount** (17)	**Amount Paid this Reporting Period** (18)	**Invoice Number** (19)	**Total Paid to Date** (20)
				Total Paid to Date for All Local Business Subcontractors (21) **$**		0.00

I certify that the above information is true to the best of my knowledge.

Contractor Name – Authorized Personnel (print) (22)	Contractor Name – Authorized Personnel (sign) (23)	Title (24)	Date (25)

Local Business Subcontractor Utilization Report Instructions

Box (1) **Project Name –** Enter the entire name of the project.

Box (2) **Contract Number (work order) –** Enter the contract number and the work order number, if applicable (i.e., 4600001234, and if work order contract include work order number – 4600000568 WO 01).

Box (3) **Report Number -** Enter the Local Business Subcontractor Utilization Report number. Reports must be in a numerical series (i.e., 1, 2, 3).

Box (4) **Reporting Period -** Enter the beginning and end dates this report covers (i.e., 10/01/2016 – 11/01/2016).

Box (5) **Local Contract Goal -** Enter the Local Contract Goal percentage on entire contract.

Box (6) **Contract Completion Date -** Enter the expiration date of the contract, (not work the order).

Box (7) **Contractor Name -** Enter the complete legal business name of the Prime Contractor.

Box (8) **Contractor Telephone Number -** Enter the telephone number of the Prime Contractor.

Box (9) **Contractor Email Address -** Enter the email address of the Prime Contractor.

Box (10) **Contractor Street Address –** Enter the mailing address of the Prime Contractor.

Box (11) **Project Manager Name -** Enter the name of the Project Manager for the Prime Contractor on the project.

Box (12) **Project Manager Telephone Number –** Enter the direct telephone number of the Prime Contractor's Project Manager.

Box (13) **Project Manager Email Address –** Enter the email address of the Prime Contractor's Project Manager.

Box (14) **Federal Identification Number –** Enter the federal identification number of the Local Subcontractor(s).

Box (15) **Local Subcontractor Business Name** – Enter the complete legal business name of the Local Subcontractor(s).

Box (16) **Description of Work –** Enter the type of work being performed by the Local Subcontractor(s) (i.e., electrical services).

Box (17) **Project Amount –** Enter the dollar amount allocated to the Local Subcontractor(s) for the entire project (i.e., amount in the subcontract agreement).

Box (18) **Amount Paid this Reporting Period** – Enter the total amount paid to the Local Subcontractor(s) during the reporting period.

Box (19) **Invoice Number** – Enter the Local Subcontractor's invoice number related to the payment reported this period.

Box (20) **Total Paid to Date** – Enter the total amount paid to the Local Subcontractor(s) to date.

Box (21) **Total Paid to Date for All Local Subcontractor(s)** – Enter the total dollar amount paid to date to all Local Subcontractors listed on the report.

Box (22) **Contractor Name Authorized Personnel (print)** – Print the name of the employee that is authorized to execute the Local Subcontractor Utilization Report.

Box (23) **Contractor Name Authorized Personnel (sign)** – Signature of authorized employee to execute the Local Subcontractor Utilization Report.

Box (24) **Title –** Enter the title of authorized employee completing the Local Subcontractor Utilization Report.

Box (25) **Date –** Enter the date of submission of the Local Subcontractor Utilization Report to the City.

REQUESTED INFORMATION BELOW IS ON LOCAL BUSINESS PROGRAM FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

Solicitation # & Title: _____ Prime Contractor's Name: _____

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Materials to be Purchased	Contract Amount

LOCAL BUSINESS EXHIBIT "A

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number_____

TO: _____
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual _____ a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

_____

_____

_____

_____

at the following price: _____

_____ _____
(Date) (Print Name of Local Business Contractor)

_____
(Street Address)

_____
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "C"
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation #_____

I,_____
(Name and Title)

of_____, certify that on the _____day of

_____, _____, I invited the following LOCAL BUSINESS(s) to bid work
(Month) (Year)

items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)

Said Local Businesses:

___ Did not bid in response to the invitation

___ Submitted a bid which was not the low responsible bid

___ Other:_____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

LOCAL BUSINESS EXHIBIT “D”
GOOD FAITH EFFORT REPORT LOCAL BUSINESS PARTICIPATION

Solicitation #_____

1. What portions of the contract have you identified as Local Business opportunities?

_____

_____

_____

_____

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

_____

_____

_____

3. Did you send written notices to Local Businesses?

____ Yes ____ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

____ Yes ____ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

_____

_____

7. List the Local Businesses you will utilize and subcontract amount.

_____ $_____

_____ $_____

_____ $_____

8. Other comments: _____

_____

_____

_____

_____

LOCAL BUSINESS EXHIBIT “D”

pompano beach
Florida's Warmest Welcome

CONTINUING CONTRACT FOR Civil Engineering Services

FOR VARIOUS CITY PROJECTS

(E-20-20)

Kimley»Horn
Expect More. Experience Better.

GMOC30036.2020

CONTINUING CONTRACT FOR

Civil Engineering Services

FOR VARIOUS CITY PROJECTS

(E-20-20)

Kimley-Horn and Associates, Inc.

600 North Pine Island Road

Suite 450

Plantation, FL 33324

Phone: 561.840.0850

Fax: 561.863.8175

Contact: Marwan Mufleh, P.E.

Marwan.Mufleh@kimley-horn.com

July 30, 2020

Subject: Request for Letters of Interest E-20-20

Continuing Contract for Civil Engineering Services for Various City Projects

pompano beach
Florida's Warmest Welcome

CONTINUING CONTRACT FOR
Civil Engineering Services
FOR VARIOUS CITY PROJECTS
(E-20-20)

TABLE OF CONTENTS

1. LETTER OF TRANSMITTAL

Kimley»Horn

July 29, 2020

City of Pompano Beach
Purchasing Office 1190 N.E. 3rd Avenue Building C
Pompano Beach, FL 33060

Re: Request for Letters of Interest – E-20-20: Continuing Contract for Civil Engineering Services for Various City Projects

Dear Selection Committee Members:

Kimley-Horn and Associates, Inc. has enjoyed a successful working relationship with the City of Pompano Beach, and we welcome the opportunity to continue providing quality, cost-effective solutions and effective management on this Continuing Contract for Civil Engineering Services for Various City projects. We have assembled a versatile team of professionals with substantial local expertise to meet your goals. The subconsultant team members we have included—

Keith & Associates (MBE/SBE/Local Business), ***H2R (SBE/Local Business)***, ***Dickey Consulting Services, Inc. (MBE/SBE)***, ***Electrical Design Associates, Inc. (MBE)***, ***HSQ Group, Inc. (CBE/MBE)***, ***Lakdas/Yohalem Egnineering, Inc. (CBE/DBE/MBE)***, and ***Cummins Cederberg, Inc. (CBE)*** — have worked with the City of Pompano Beach and its community Redevelopment Agency (CRA) in the past.

Kimley-Horn understands that the City faces a number of challenges and opportunities related to planned growth and redevelopment that will inevitably lead to necessary improvements and expanding existing resources. County Surtax funding, GO Bond projects, the proposed Innovation District, all provide new opportunities for the City. We specialize in helping municipalities manage growth and enhance their communities and navigate funding, permitting and coordination issues with County, State and Federal agencies through our extensive experience working for and with these agencies. Our goal with this plan is to maintain the safety and effectiveness of our staff and systems so that we can provide uninterrupted client service and it has proven to be a great success.

Our submittal outlines how we can serve the City for various civil engineering categories including civil engineering, roadway, streetscape, utilities, parks and recreation facilities, traffic engineering, seawall construction/repair, structural engineering, stormwater/drainage improvements, and consultation for emergency utility repairs, and inspection services. We are a leader in providing services for Complete Streets, multi- use path, bicycle and Greenway projects, resiliency and sea level rise studies and design mitigation, overhead utility conversion to underground, electric charging stations, County, State and Federally (LAP) funded projects, ADA transition plans, and pavement management.

We are a multi-disciplinary firm with extensive depth of local resources that will be readily available to assist the City on any issue or project that may arise. We offer the service types that have been identified in the RLI all in-house and more. We have been providing on-call services to many municipalities and CRAs on a range of project sizes from the very small one day task to the very large. When we say we offer a service it means we have an established practice with redundancy that allows us to become experts in the field. For example, our utility engineers have been serving utility owners for a number of decades in Broward, Palm Beach and Dade Counties with a wide range of services including treatment plants and line work. Our stormwater engineers have been working for and with major Florida water management districts and with recognized state stormwater experts. Another example is our streetscape and landscape architecture practice where our staff includes 42 landscape architects in Florida ready to serve the City with extensive experience in the planning, final design and preparation of high quality artistic renderings that capture your vision. The following represents some of the disciplines and services we offer the City and states the related section in this proposal for ease of reference.

Discipline	Section/ Page	Discipline	Section/ Page
Roadway, Streetscape, and Complete Streets	7-7	Bridge	7-46
Water or Reuse Main Projects	7-20	CRA Experience	7-3
Gravity Sewer, Force Main, Lift Station, and Pump Station Projects	7-23	LAP Experience	7-4
Parks and Recreational Facilities	7-27	Public Involvement	7-4

Our local team members maintain regular contact with regulatory agencies in this region and throughout the state. We have long-term, professional relationships with staff at the FDOT, Broward County, MPO, SFRTA, South Florida Water Management District (SFWMD), Florida Department of Environmental Protection, Department of Environmental Resource Management, and the U.S. Army Corps of Engineers. Since many of our local projects require permits through these agencies, we maintain regular contact with their staff. Two of our senior stormwater engineers are former SFWMD engineers. This rich network of relationships enables us to provide expeditious services relative to agency reviews and approvals.

PROMPT AND PROACTIVE RESPONSE. For more than 50 years, Kimley-Horn has successfully designed and implemented efficient and cost-effective solutions to municipal clients throughout South Florida. We can provide you with unmatched service, personal responsiveness, and local knowledge. Our office in Broward County and two offices in Palm Beach County bring staff with decades of local experience and the firm offers the resources of a national, award-winning team. Our office location will allow us to be readily available to your community, and we are committing these resources to you.

COMMITMENT TO QUALITY. A firm is no greater than its reputation, and ours is built on consistency and quality. As an established firm, we place significant emphasis on quality control and quality assurance.

BUDGETS STRETCHED TO WORK OVERTIME. We are a responsive, readily available team that will examine ways to reduce costs as we work with you to define specific needs and implement sound engineering solutions. The key to our success in this area is managing the right resources at the right time and actively seeking out potential cost-saving opportunities through value engineering.

EXTENSIVE MUNICIPAL EXPERIENCE. As your project manager, I have served municipalities throughout my career. Our team has extensive experience that is critical for this type of continuing services contract. Kimley-Horn prides itself on being a successful municipal consultant. In fact, one of our largest practice areas is within the municipal arena. We have conscientiously served municipal clients for many years. We are currently serving as consultant to numerous municipalities and over 17 Community Redevelopment Agencies (CRAs) in Florida, such as:

- Pompano
- Fort Lauderdale
- Miramar
- Hollywood
- Boca Raton
- West Palm Beach
- Delray Beach
- Boynton Beach
- Jupiter
- Miami Lakes
- Palmetto Bay
- Cutler Bay
- North Bay Village
- North Miami
- Doral
- Miami
- and more

Many of our staff members are former municipal engineers and planners. Our extensive planning, design, administration, and construction oversight experience gives us the specific understanding of how to work with the City staff and elected officials to effectively achieve your objectives.

YOUR PARTNER IN SERVING THE COMMUNITY. We have previously enjoyed working with the City of Pompano Beach under this contract. Kimley-Horn is dedicated to developing and improving our relationship to meet the needs of the City. We sincerely appreciate the opportunity to present our qualifications to you, and look forward to serving as your consultant.

Sincerely,
Kimley-Horn

Marwan Mufleh, P.E., *Senior Vice President*
Kimley-Horn FEIN #56-0885615

2. TECHNICAL APPROACH

Proposed Approach and Methodology

Continuing services contracts require a different approach from typical project-specific contracts. Each task assigned under an on-call contract will need an individualized approach that includes the various disciplines necessary to complete the assignment. We recognize that each project under the continuing services contract has its own expectations that need to be understood, and then exceeded. We are also familiar with the City's two CRAs and the expectations of the two communities and will work with our local public engagement subconsultant, Dickey Consulting Services, to meet stakeholder expectations. At Kimley-Horn, the overall approach for a task begins with an initial scoping meeting, development of the fee proposal, and a clear understanding of the task expectations and deliverables.

Upon receiving an assignment, we will begin with an on-site kick-off meeting (as needed) with the City's or CRA's project manager and necessary staff to develop the scope, discuss constraints and opportunities, determine what information is currently available relative to the project, and begin formulating the schedule with selected, agreed-upon milestones. We will select the appropriate Kimley-Horn team members for each assignment based upon the specific goals of the project and match them with the individual team member experience and expertise. We will work closely with City staff throughout each assignment.

Our team has served as on-call consultants for many municipalities, CRAs, Counties, and institutions over the years and has developed a general approach and methodology to making every opportunity a successful one. Listed below is an overview of key characteristics of our approach to handling continuing services contracts.

- **Be Flexible.** We understand schedules change (accelerated or delayed), projects change, and we must be prepared to adjust with these changes. We also realize that some tasks will have small budgets and require an especially cost-effective approach. Our team is available at all times for any size task.
- **Think and Act as an Extension of the City's Staff.** Our team will approach projects as though we are part of your staff. We will understand your responsibilities to the City's residents and what your priorities are.
- **Think Big Picture.** We will look beyond the individual project: How does a specific assignment fit into the ultimate goal of the City's plan? Who are the true stakeholders? What are the potential risks when executing this project? How can we add value to you?
- **Be Innovative.** We will look for creative solutions and present them to you throughout the contract. We will help the City identify and procure outside funding whenever possible given our grant experience.
- **Team with Other Consultants.** Kimley-Horn has teamed with a number of local firms on a variety of projects in the past number of years. We are committed to utilizing local subconsultants when the opportunity arises. We are also committed to hiring DBE and MBE businesses as teaming partners.
- **Provide Community Support.** Outreach to the community can be as important as the design of a project. With our community outreach subconsultant, Dickey Consulting, we are ready to assist you as needed with preparation of all exhibits/media, facilitating neighborhood meetings, presenting to the community, or simply providing support for City staff with their outreach activities.

Project Strategy

Through our experience on various other continuing services contracts, we have developed a strategy for approaching each task assignment. Our strategy for a successful project includes the following key steps:

- Clearly define the project scope, City / CRA budget, determine opportunities and constraint, and set objectives and expectations through a multi-disciplined collaborative approach
- Identify and anticipate potential project and process risks including those affecting budget, schedule and stakeholders and formulate mitigation measures
- Discuss with the City the most cost-effective way to complete the desired deliverables that will meet project goals and City expectations
- In addition to the required basic services, identify potential tasks as optional services to avoid the need for future contract supplements
- Evaluate the situation and develop a feasible solution
- Prepare construction cost estimates and compare to project budget
- Conduct field reviews, value engineering reviews and practical constructability reviews
- Prepare the project deliverables
- Build the project

Clearly Define the Challenges and Set Objectives

The Kimley-Horn approach involves open discussions with your staff to identify the issues that need to be addressed so we can work together to develop a clear plan of resolution. With many years of experience and unique local knowledge, our staff has the resources necessary to help you define the challenges, determine your objectives, and—most importantly—accomplish the project's goals. This includes identification of stakeholder's positions and objectives working with groups such as residential communities, advisory boards, the local business community, and local and state agencies. With our multidiscipline in-house expertise, we will provide insight to the different aspects of the project, be it engineering, planning, landscape design, or environmental issues to ensure that our understanding completely meets your expectations. We will encourage communication with the various City departments and CRAs to ensure the scope addresses not only the construction of a project but also sustainable operation, maintenance, and all other expectations.

Evaluate the Situation and Develop a Feasible Solution

Project feasibility is determined by analyzing the various parameters specific to each project. The analysis will allow a design team to predict the impact of different improvement alternatives. The results are then compared to the established priorities and objectives to determine which alternative solution will be most effective in addressing the problem while minimizing cost. We will provide innovative ideas and alternatives along with early and regular cost estimates to provide you with choices throughout the different project phases. We will work to determine if there are funding or grant opportunities, developing bid alternates which may be exercised only if sufficient funds are available. Sometimes the solution may involve a phased approach where individual but functional portions of the project are constructed as funds are available. We strive to plan so that utility service extensions or underground sleeves for future work are installed in advance to avoid costly reconstruction when additional project phases are implemented. A feasible project must consider not only the initial cost but project resiliency along with long term operation and maintenance costs. Kimley-Horn is sensitive to the pivotal role of meaningful public involvement programs that enable area stakeholders to establish their priorities. The design must address the needs of the community including those with special needs. We know that the City is dedicated to their residents and that Community involvement is an important component in determining the overall design program, funding strategies, and implementation priorities.

Prepare the Project Deliverables

Once the project solution is determined the typical deliverable for an infrastructure project will be plans, specifications, cost estimates and bid documents. On other assignments the City may need assistance with evaluation of the level of service at an intersection or a site assessment or to assess safety conditions. These assignments would have a deliverable in the form of a report and/or presentation to the City Commission. On a design project, plans and specifications are usually prepared in 30%, 60%, 90%, and final bid document milestones. However, smaller projects may require less phase submittals. At each phase of design, we will provide the City with data, reports, supporting calculations, plans, specifications, and opinions of probable project costs. A key component of these phases of work are regular progress meetings with City staff to verify that the project will meet the established goals and is within budget. Some projects may require presentations to the City Commission for guidance and input.

Build the Project

Building the selected project in an efficient and timely matter, consistent with expectations, is the last stage of successful project implementation. Complete final design plans, accurate bid documents, constructability and quality reviews by our professionals, and management of construction are important components in this stage. We also have the experience in preparing bid documents for alternative construction delivery methods, such as design-build or construction manager at risk. Consistent and efficient project performance is based on sustainable design. Projects must be designed with end users in mind. We know that our ability to plan for things such as maintenance of traffic, continuity of utility services, and coordination with other City departments such as planning, police, and emergency services during the construction of a facility is an important consideration to you and your staff along with delivering a product that provides for efficient operation and maintenance after completion. Most of all we want the Community you support to be proud of the services and facilities you provide to them and we take that responsibility seriously.

Approach to Assignments

Initial Project Request from the City. Each project task will be initiated by a request from the City. This request may be verbal, in writing, or by electronic means such as email. For purposes of our preliminary scope and personnel assignments, this initial project request should include enough detail about the project, schedule, and budget to provide us with adequate information for our internal discussions and determinations. Immediately upon receipt of your project request, a scope meeting and, if useful, a field review will be scheduled.

Identify Role of Specialty Subconsultant. Should a specific subconsultant expertise be required for an assignment it is important that Kimley-Horn contact that local specialty subconsultant early in the project development process to ensure the project will fit their current workload. Although Kimley-Horn can offer many of these services such as hydrologic/hydraulic studies, survey/mapping, and environmental assessments we enjoy teaming with local subconsultants whom we know can add value to the project. Once a subconsultant is selected we will schedule a pre-scope meeting to review any existing data and assess their approach to the project. This coordination starts early and continues through the life of the project. Kimley-Horn utilizes subconsultants who have performed well for us in the past, and have a track record of delivering on their commitments. This is why Kimley-Horn carefully selects the team members we work with—only those who are technically qualified and who meet our high standards. These partners can in turn be depended upon by the entire team.

Preliminary Personnel Assignment. Based on information provided by your staff, Kimley-Horn will determine the best-suited personnel to assign to the project. For example, in the case of a traffic study project, John McWilliams, P.E. who served your traffic engineering needs on important projects including the transit oriented community overlay zoning, will take the lead as Project Engineer and coordinate his work with the City's Project Manager. Marwan Mufleh. P.E. will always be available as a primary point of contact as needed. Project success is dependent on having the right people involved in order to take advantage of their particular expertise and familiarity with the technical and regulatory processes involved with the specific task at hand. Our organization chart identifies the primary professional that will lead the efforts in each specific work category.

Project Status and Plans Review Meetings. As the project progresses, and as appropriate to the specifics of the work involved, we will schedule a project kick-off meeting with City staff and conduct regular project status and plans review meetings with your representatives to evaluate progress and make adjustments as needed. These meetings can include discussion of both project progress, scope status as related to work completion, design features and alternatives, project issues, etc. Face-to-face meetings provide a cooperative forum for discussion and resolution of any previously unforeseen occurrences or design challenges that may have arisen. We have found that continuous and regular meetings such as these provide a solid basis for project success and give all project participants the opportunity to be fully informed as to project issues, resolutions, and intermediate successes. To ensure this success we prepare regular meeting minutes and a list of action items to document decisions and to track items to a successful conclusion. This method had served our clients well and enabled them to easily answer questions on decisions that had been made early in the project or perhaps by previous staff members. It also helped them to track issues on their end and often welcomed our documented reminders to keep issues on their radar screen and avoid delays to the project.

Communication. Regular meetings are very important but not our only means of communication. Email, telephone, and web-based communication are a foundation of our corporate culture, and thus are a foundational part of our project management strategy. We will tailor our communication to the method that works best for individual City or CRA Project Manager. Some people respond better to meetings, others to email. We regularly track lists of outstanding items for each project and use the list to remind each responsible party of their task and deadlines.

Project Schedule and Budget Control

We understand that meeting project schedules is critical to ensure project funding is not jeopardized. Common causes of schedule delays include developing or changing priorities, dealing with external agency processes, and inadequate staffing. We address these issues by developing a clearly-defined scope with the City and stakeholder input, if required. External stakeholders' time requirements are identified and built into the schedule as critical path items. These include coordination with utility owners and development of utility work schedules, securing resolutions for MMOA's, and review and processing permit packages. We currently work with multiple groups within the City of Pompano including the CRA, City Engineering and Utility Departments. This insight will ensure that all priorities are captured and changes during task completion are minimized. We understand that assignments could come from different City Departments. Our team will use an assignment tracking list that includes City representative, start, and end dates. We use Microsoft OneNote for this as it can be shared and updated within the entire team in real time. Kimley-Horn has used this system on all our current City contracts with great success to minimize the administrative burden on the City.

Budget. Budget control spans the entire life of an assignment from scoping to construction. During scoping, we will communicate with the City to ensure that all project goals are identified to avoid supplemental agreements and ensure future phases of the project are considered. Design budgets will be managed by properly identifying work requirements and using appropriately skilled staff. Due to the integrated nature of our internal practices, we often have multiple sources of existing utility, survey, and development information to supplement City sources, which can reduce design costs. Kimley-Horn strives to develop accurate construction cost estimates to ensure appropriate funds are available for future phases or to allow funds to be reallocated elsewhere, if possible. Our team has successfully done this by reviewing current construction bid prices against historic costs and using our long-term contractor and vendor relationships to obtain real-time costs. We also routinely perform constructability reviews with CEI input to minimize delays, cost overruns, and potential claims during construction.

Quality Control Review. Kimley-Horn understands that providing a quality deliverable reduces project delays and cost. Our approach to achieving superior service focuses on following the quality control plan, engaging anticipated review staff during task scoping, keeping them informed about the project, and following submittal checklists and City guidelines. The benefit of this approach is expedited review periods, consistency with agency goals and objectives, and the elimination of avoidable comments.Kimley-Horn will identify a project-specific file transfer method to facilitate the QA/QC process and simplify sharing of information between the project team and the City. Our quality control process extends beyond ensuring plans and reports are grammatically correct and previous comments have been incorporated. Methods our team will use to improve quality of deliverables includes engaging Project stakeholders during the scoping process or prior to initial plan submittals, reviewing bid questions and answers to identify common trends, and including staff on our team to assist with constructability reviews. Specific staff have been identified to act as quality reviewers for each discipline to ensure that each deliverable meets your expectations.

Quick Turnaround of Assignments. Our team's approach to timely completing tasks focuses on empowering our staff to make decisions with appropriate oversight. Our internal "milestone" worksheets clearly list action items for each staff assigned to the task creating a sense of ownership and accountability. A common file structure is used on all projects, so team members can quickly find the information they need to stay productive. Our team members are well-rounded with overlapping skill sets. This ensures subject-matter experts are always available on short notice. Our task managers encourage frequent, dynamic communication between all team members through the use of brief, daily task updates either in person or via videoconferencing. Using these simple communication techniques, we have learned how to minimize false-starts, reduce duplication of work, and keep staff focused on the end goal.

Value Engineering. Kimley-Horn strives to provide continuous value engineering by focusing on better decisions, better information, better analysis, cost reductions, increased productivity, and accurate deliverables throughout all phases of the project. Value engineering is a key factor for developing successful projects that transition from study to design, and from design to construction. Our experience in all facets of municipal work can be applied to any existing project with positive results and added value to the City and CRA. The common goal of the Kimley-Horn team is to provide the City with the most value throughout every aspect of each project assignment.

Cast-Aheads. At Kimley-Horn, production meetings are held weekly to enable staff, task managers, and project managers to stay up-to-date regarding current and projected workloads. Weekly regional production meetings are also held to assess the availability and distribution of resources among Florida's 15 offices. We know the importance of meeting our clients' deadlines, and we take the necessary steps that enable us to confidently commit to meeting yours. With our depth of staff and ability to activate resources from other offices, we can ensure your projects are completed on time. Updated monthly by the project managers, the cast-ahead system is used to define specific staffing needs for the month and for the next six months. The objective is to balance the workload in a manner that maximizes the utilization of production staff, while ensuring that all project requirements and client deadlines are met.

GIS and Asset Management

At Kimley-Horn, we use Environmental Systems Research Institute's (Esri) GIS platform for integration and management of spatial data. As an Esri Partner, all divisions of Kimley-Horn routinely apply GIS tools and techniques to standardize an efficient work flow and provide a defensible analysis on our projects. Our services include standardization of the spatial data to ArcGIS geodatabase and/or published feature services, as well as user training and installation of the GIS at a client facility. Our design of a project GIS includes conversion and synchronization of all data to an Esri compatible platform and documentation of sources and methods used in data development. GIS integrates many diverse areas of information into a single, cohesive decision support system. We use GIS to establish and maintain background databases, perform automated analysis for alternative corridor locations, quantify environmental impacts, assess historical change, provide advanced support into the preliminary design process and help clients with asset management.

Broward County MPO Transportation Surtax Services – Municipal Project Prioritization Process (MP3)

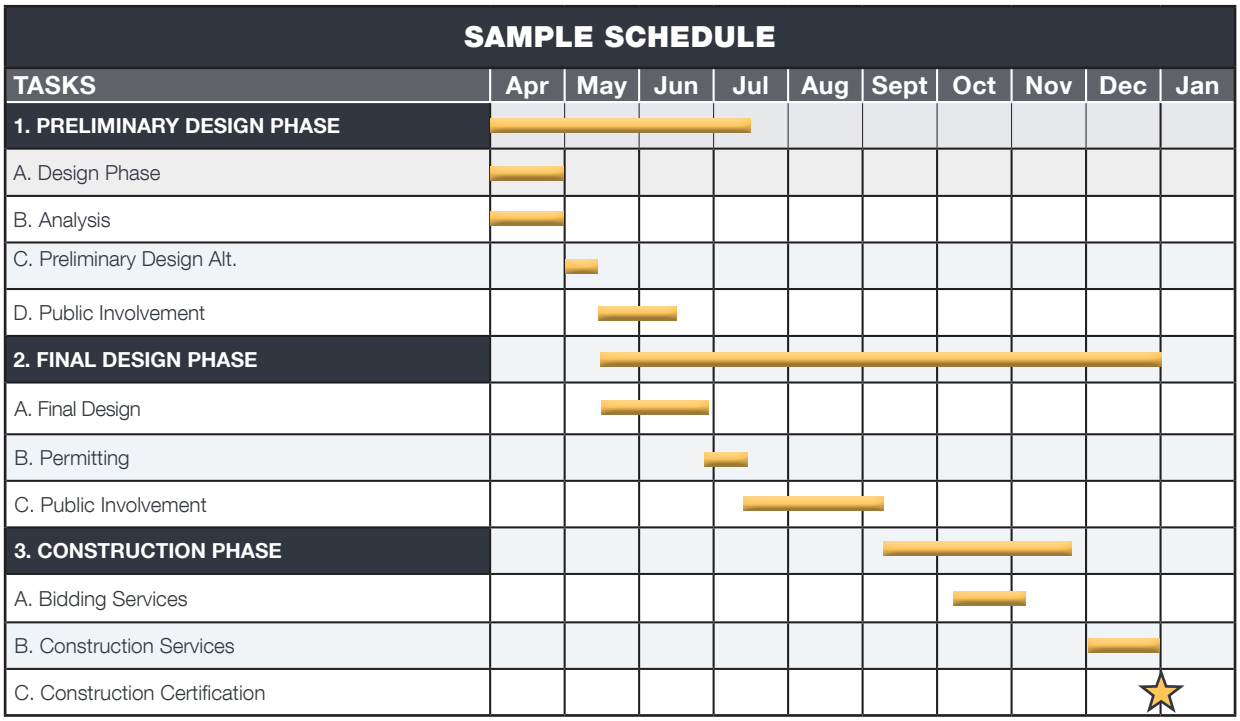
Kimley-Horn was selected by the Broward Metropolitan Planning Organization (BMPO) to provide municipal surtax support services related to the Transportation Surtax in Broward County. Support included the development of the original Municipal Project Prioritization Process (MP3) GIS based ranking tool that used a combination of ArcGIS Enterprise functionality and Python coding to evaluate and rank, annually the proposed municipal capital surtax projects. The project also included in-house professional engineering services lead by Stefano Viola, P.E. involving one-on-one meetings and coordination with all municipalities within Broward County to assess project readiness for funding. *Our intimate knowledge of the Surtax project prioritization, funding process and established relationships will allow us to help the City to better position their projects and increase their chances of winning.* Our project team has a deep history of providing innovative solutions to transportation improvement projects. We have developed solutions to reduce overall construction cost, avoid constructability issues, or help build consensus between project stakeholders. The value of this experience is

our ability to deliver a project that is well-received by the community and meets the City's long-term goals. Examples of innovative concepts we have used include:

- Shared-use drainage ponds between municipal and private owners to minimize right of way needs
- Collection of roadway lighting levels via car-mounted sensors to minimize field time and improve accuracy
- Use of drones to collect existing information, observe construction activities, and increase safety of field staff
- Design of spread footer foundations for overhead signs, mast arms, and light poles to avoid utility conflicts
- Use of ground penetrating radar to map underground utilities mitigating conflicts
- Designed Flashing Yellow Arrow traffic signals to improve traffic level of service without replacing mast arm
- Incorporated way finding signs for pedestrians into landscape and hardscape design to avoid sign pollution
- Hosted Virtual Public Meetings to increase attendance and keep transportation projects on schedule during COVID 19 pandemic
- Designed in-road flashing beacons to increase pedestrian visibility and safety in crosswalks
- Designed urban tree pits to avoid right of way needs and provide shade encouraging walkability
- Due to the integrated nature of our internal practices, we often have multiple sources of existing utility, survey, and development information to supplement City sources, which can reduce design costs.
- Use of smart boards during public meeting increasing attendee participation and understanding
- Use of 3D rendering to clearly communicate design element to permitting agencies reducing overall review time

3. SCHEDULE

We can begin work immediately and we will work with the City to develop a schedule based on the requirements of the individual task and will be able to begin work upon signed authorization.



Current Workload

The members of our project team were selected using two criteria: (1) their experience with similar projects and (2) their availability to assume major technical responsibilities within your project schedule. Kimley-Horn's proactive management system, known as "cast-aheads," is used to detail every project's personnel needs and also to determine each staff person's availability. By continuously matching project needs with staff availability, our cast-aheads system is an accurate tool for keeping our projects on schedule.

Kimley-Horn's vast resources will allow us to assign the appropriate engineering, technical, and support staff to complete your projects on schedule and within budget. The percentages shown here represent our availability commitment of key staff chosen to work with the City on these important projects.

Based on a review of our cast-aheads, we can assure you that the staff members selected for this team are available immediately to serve you and are in an excellent position to handle the workload of any assignment you wish to give us.

4. REFERENCES

Kimley-Horn is proud of the relationships we have developed with our clients, and much of our success over the last five decades is directly related to our efforts to perform high quality, timely services for all or our clients. The client references provided below are for projects similar to the City of Pompano Beach Continuing Contract for Civil Engineering Services for Various City Projects. We invite you to contact our references; these individuals will tell you that we listened to their needs, met their schedules, accomplished their missions, and delivered results.

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Atlantic Boulevard Bridge

Pompano Beach, FL

Cost: $202,250

Responsibilities: The team for this design build project includes Kimley-Horn and Keith & Associates, Inc. The team is provided engineering services.

Contact Information: Horacio Danovich, R.M.A
Director of Engineering Services for Pompano Beach Community Redevelopment Agency (CRA)
Horacio.Danovich@copbfl.com
954.786.7834

Seacrest Blvd. Lane Reduction

Boynton Beach, FL

Cost: $1118,200

Responsibilities: Kimley-Horn provided planning, roadway design, permitting, landscape architecture, reclaimed water, decorative pavement, signal modification, utility plans, and construction phase services. Coordinated local agency program stimulus-funded project with FDOT. Kimley-Horn assisted the CRA in applying for local agency program stimulus funds for construction of this project.

Contact Information: Andrew Mack, P.E.
Building Official
City of Boynton Beach
MackA@bbfl.us
561.742.6200

Pompano Beach Airpark Continuing Services

Pompano Beach, FL

Cost: $7,000,000

Responsibilities: Since 2005, Kimley-Horn has provided general aviation consulting services for the City's Airpark. To date we have accomplished several tasks including: Taxiway Kilo Relocation, Pavement Maintenance Program, Taxiway Fillet Widening, and Master Plan Update.

Contact Information: Mr. Steve Rocco
Director
Pompano Beach Airpark
Steve.Rocco@copbfl.com
954.786.4135

SW 157th Avenue Roadway Widening from SW 42nd St to SW 26th St

Miami-Dade County Department of Transportation and Public Works

Cost: $450,000

Responsibilities: Kimley-Horn is providing professional engineering design services for the preparation of completed construction plans to include master planning, traffic study, and public involvement for widening SW 157 Avenue from SW 42 Street to SW 26 Street from two to four lanes. The project length is approximately 1.3 miles. This project includes new raised landscape medians, bike lanes, sidewalks, curb and gutters, storm drainage system, pavement markings and signage, intersection and signalization improvements, and roadway lighting. We are providing the County with permitting, environmental assessments, construction administration services, geotechnical services, and utility coordination.

Contact Information: Alejandro Sauleda
Project Manager
Alejandro.Sauleda@miamidade.gov
305.375.4866

Aventura Charter High School School Zone Signal Design

City of Aventura

Cost: $39,750

Responsibilities: Design, permitting, and construction phase services for the installation of a school zone on NE 213th Street between NE 31st Avenue and NE 34th Avenue for the Aventura Charter High School. The project included signalization, pavement marking & signage, and underground electric line modifications.

Contact Information: Tony Tomei
Capital Projects Manager
tomeit@cityofaventura.com
305.466.8923

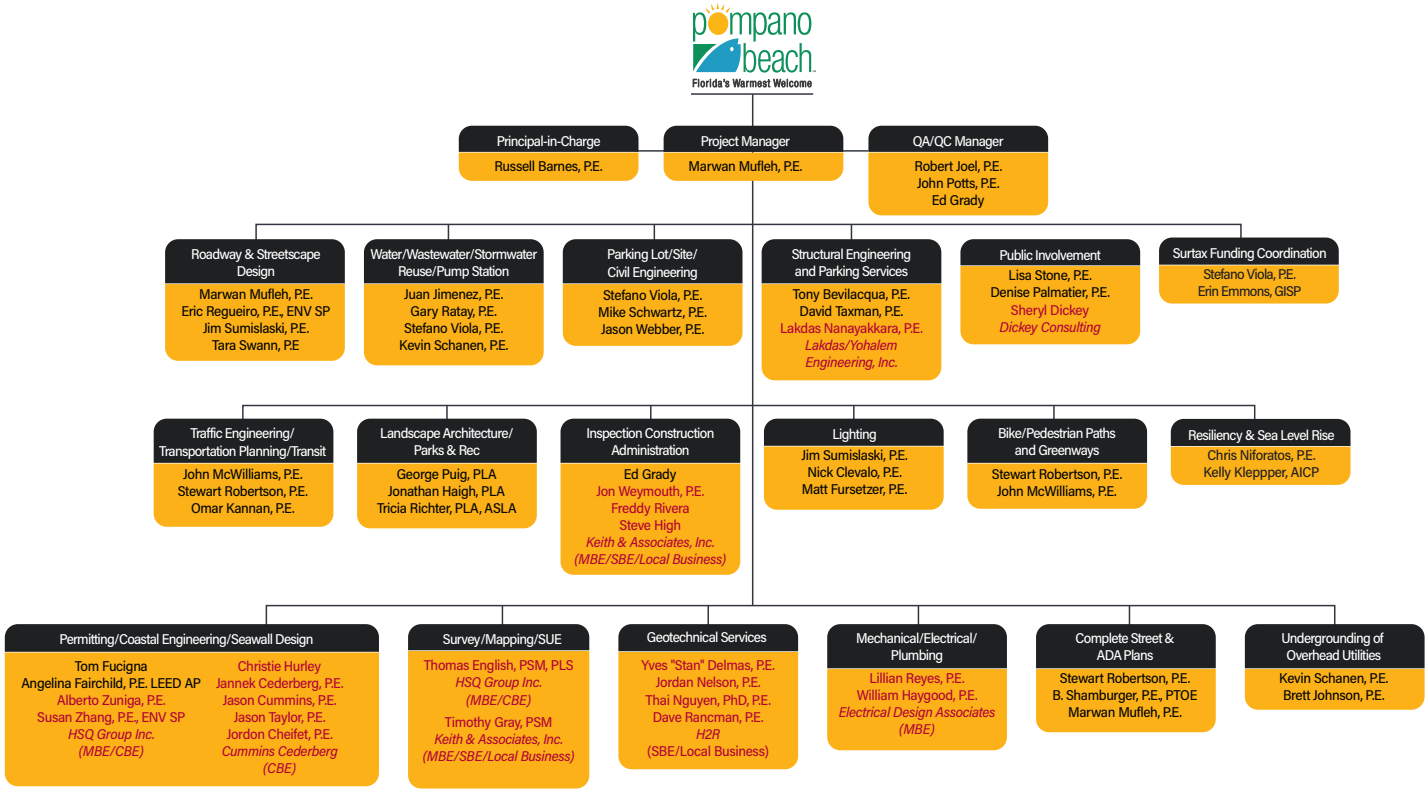
Prior Projects Performed for the City of Pompano Beach

- Atlantic Boulevard Bridge Improvements and Streetscape
- Continuing Contract for Transportation Engineering Services for Various City Projects
- WA #7 NW 2nd St Feasibility
- WA #6 Airport Access Road
- WA #8 SE 11th Bridge Plans
- WA #5 N Riverside Drive
- WA #4 Taxiway Delta
- McNab Road Design Support
- McNab Streetscape Improvements
- NE 33rd Streetscape Improvements
- NW 2nd Street and 31st Avenue
- PB Planning WA# 4 Pompano Station
- PB WA #4 Oceanside Lt
- PB Planning WA #5 Harborside at Hidden Harbour
- Continuing Engineering and Consulting for Municipal Air Park, including:
    - Relocation of Taxiway Kilo and Construction Phase Services
    - Runway 15-33 Rehabilitation, Expansion, and Construction Phase Services
    - Air Park Wildlife Assessment Study
    - Standby Diesel Engine Drive for High-Service Pump #6
    - PMP Taxiway D Reconstruction
    - PMP Airpark Obstruct Perimeter
    - Airport Zoning and Airspace
    - PMP Taxiway D CPS
    - PMP ALP Update
    - PMP TV G Grant Assistance
    - Airspace Study Checklist
    - Air Park Maintenance Storage
    - Pavement Phase 2
    - Airspace Study Checklist
    - Airspace Study Dog Park
    - Pompano Taxiway Fillet
    - Helicopter Landing Area
    - PMP Aquatic Airspace Study
    - Runway 15 Obstruction Survey
    - Pompano Airpark Main
    - Taxiway Pavement
    - Pompano Air Park Business Plan
    - Pompano Air Park Runway
    - PMP Driving Range Airspace
- East Transit Oriented Corridor (ETOC) Transportation Analysis
- Lyons Park Sanitary Sewer Rehabilitation
- Complete Streets
- Downtown and Martin Luther King Blvd.
- 19355 Dixie Highway Improvements
- Lane Elimination
- North East Force Main Installation
- Pompano Beach Lane Elimination
- 11th Avenue Bridge Report
- Fairfield Reservoir
- Atlantic One
- Pompano CRA
- Knox Farms PH 2
- Survey Golf Course Update
- Survey Support Services
- Gopher Tortoise Relocation
- Magnetic Heading Verification
- RNAV Checklist
- Water Treatment Improvements
- Employee Parking Lot Expansion
- Diesel Engineering
- Northeast Force Main Install
- Hidden Harbour Marina

5. PROJECT TEAM FORM

The Project Team Form is uploaded as a separate attachment.

6. ORGANIZATIONAL CHART



7. STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

Firm Overview

Kimley-Horn is a full-service, multidisciplinary consulting firm offering a broad range of engineering, planning, and environmental services to clients in both the public and private sectors. Kimley-Horn was founded in 1967 and has provided civil engineering design services for dozens of municipalities in Florida.

Our team's experience with civil engineering projects for municipalities and cities gives us a thorough understanding of the process. This understanding reduces delay and will help expedite all phases of whatever projects may be assigned.

At Kimley-Horn, we focus on delivering successful projects by developing accurate bid documents, securing regulatory agency permits, and managing project risk elements. Projects must be designed with the community in mind. Our ability to focus on providing and maintaining access to City residents during construction is an important consideration.

The following section outlines our team's skill and experience on similar engineering disciplines and projects that may be required by the City of Pompano Beach's Continuing Contract for Civil Engineering Services for Various City Projects.

Subconsultants

Kimley-Horn's emphasis on dynamic teamwork and quality performance serves as the foundation from which we select our subconsultants for each distinct project effort. We work diligently to pursue firms who are revered and accomplished in their respective fields and demonstrate enthusiasm to be a part of our team. When looking for teaming partners, we focus on three key areas:

Qualifications. First and foremost, Kimley-Horn focuses on team members who are experts in their respective fields. A firm who is superiorly qualified and whom has performed the activities that will be requested on multiple occasions.

Location. A key ingredient in responsive service is proximity to our client and overall team. Kimley-Horn focuses on firms in the local area who can respond quickly.

Pompano Experience. Kimley-Horn also looks for firms whom we have worked with before but who have also worked for the City or immediate local area.

We have a responsibility to provide the best possible customer service to the City of Pompano Beach and expect the same level of commitment from each of our subconsultants. These team members operate as a seamless addition to our staff, providing superior technical skills with a balanced focus on client needs, goals, and concerns. We are proud to recognize the following outstanding subconsultant firms as partners on this endeavor:

KEITH & ASSOCIATES, INC. consulting engineers

Keith and Associates, Inc.

Keith and Associates, Inc. was incorporated as a Florida corporation in 1998. As a mid-size closely-knit firm, they provide civil engineering, construction management, comprehensive planning, landscape architecture, surveying and mapping and subsurface utility engineering services. The firm was founded on the principal of achieving success by combining the latest technology with client-oriented business practices, and a staff of experienced and talented professionals.

The firm's civil engineering, CEI, surveying, planning, landscape architecture and construction management team of experts has extensive past and ongoing experience with both large-scale private and public sector projects. Their staff combines the technical work experience of over 80 professionals, each with an extensive working knowledge of local and regional projects. This convergence of experience has resulted in the development of a tremendous database of knowledge and information concerning local, past and ongoing projects, which is an invaluable asset to any company.

Keith and Associates, Inc. understands the importance of community involvement and the necessity of working with local, state, and federal agencies in a hands-on cooperative manner to build consensus and receive subsequent approval of highly sensitive projects. This approach represents an underlying philosophy of the firm which results in a quality product, with emphasis on scheduling and cost effectiveness through team-oriented management and quality control.

As one of the veteran consulting, civil engineering firms in the community, Keith and Associates has worked with the City of Pompano Beach as well as the Pompano Beach CRA for over twelve years as the City's General Civil Engineering Consultant. Their depth of resources includes not only a host of successfully completed projects for the City but also their staff of professionals experienced in surveying, subsurface utility engineering (SUE) for municipal projects. Their extensive knowledge of the local community and their subject area expertise combined with their specific relevant project experience provide an unparalleled project team for this contract.

Lakdas/Yohalem Engineering, Inc.

Since 1987, Lakdas / Yohalem Engineering Inc. has provided outstanding services to the civil and structural engineering industry, focusing on bridges, marine structures, port structures, water & wastewater treatment plants, water control structures, commercial buildings and high-rises. The firm is committed to providing the highest quality of engineering and project management work. They perform structural engineering services in a timely manner and in good standard of engineering practice within an established budget

Cummins Cederberg

Cummins Cederberg has developed a reputation for quality and client satisfaction, built upon an expertise in the coastal and marine environments. The firm has thrived with an exclusive focus in these environments without diluting knowledge or resources amongst other disciplines. They have successfully grown and established themselves as the leading engineering firm for complex coastal and marine engineering projects in Florida, Latin America, and the Caribbean, with offices in Miami, Fort Lauderdale, Jupiter, and Tallahassee.

Their team of engineers and marine scientists have extensive experience in coastal and marine related projects, including numerous $100M+ waterfront and infrastructure projects with private and public clients. Their team has unique comprehensive knowledge ranging from initial field investigations, such as bathymetric surveying, tide/current/wave measurements, underwater structural inspections, environmental assessments, and soil borings, to detailed analyses utilizing complex computer models and the engineering design and permitting of coastal dredge and fill projects, marine structures, seawalls, piers, marinas and ports.

Dickey Consulting Services

Dickey Consulting Services (DCS) provides consulting service expertise in project management, public/government relations, business to consumer marketing, economic development and strategic planning.

Their clients are private and public sector enterprises across Broward, Miami-Dade and Palm Beach counties as well as across the country. Partnering with businesses leaders, construction companies, developers, policymakers, administrators and elected officials, they develop and execute projects that leverage public sector vision and private sector expertise to enhance the tri-county region and elsewhere.

Their staffs' expertise is in document management, community liaison services, transportation and construction projects, water and sewer infrastructure, airport expansion and noise mitigation, compliance monitoring, economic development, strategic planning, and business continuity services.

Electrical Design Associates

Electrical Design Associates, Inc., (EDA) formed in 1998, is a Certified Minority/ Women Business Enterprise with offices in Palm Beach, Hillsborough and Orange Counties. They specialize in providing electrical,

instrumentation and SCADA system design to the public and private sectors with preferential services for municipal and governmental clients.

Their staff's electrical experience includes electrical and instrumentation system designs for industrial plants, specifically Water and Wastewater Treatment Facilities located throughout the state of Florida. Their electrical distribution system experience covers the full range up to 4,160 volt distribution systems as well as standby generator systems. Their instrumentation systems design experience includes SCADA and PC based systems, as well as numerous traditional plant monitoring and control panel designs. Their design experience encompasses computer/PLC controlled systems utilizing SCADA based systems for interfacing to remote locations, as well as hard wired relay controlled custom solutions.

EDA's staff's electrical experience also includes multiple roadway lighting, sportfield/park, and pedestrian/landscape lighting design improvements throughout the State of Florida for several municipalities including but not limited to the Town of Lantana, Lake Mary, North Miami Beach, Daytona Beach, Palm Beach County, the City of Miramar, Fort Lauderdale, the Town of Davie, Village of Wellington, Miami Beach, FDOT, Florida Atlantic University as well as the City of Pompano Beach.

Electrical Design Associates, Inc. is staffed to provide electrical and instrumentation engineering services from inception through design, bid and construction completion.

H2R

H2R proudly provides a wide range of geotechnical engineering and construction services to a diverse portfolio of public and private clients. Their passion drives their focus to provide a superior client experience through exceptional quality, speed of delivery, communication, responsiveness, resourcefulness and integrity. They develop and maintain strong, personal relationships, and they understand their clients' needs and serve as their advocates.

HSQ Group, Inc.

Since its inception, HSQ has been providing engineering services to public clients in Florida including several Municipalities, Counties, and FDOT, in addition to numerous large private developers throughout the State. Their services include transportation/roadway, land development planning, drainage, water and sewer, surveying, construction management, and inspection services. They have working relationships with top experts in the industry, and a track record for innovative problem solving to meet any project needs regardless of its size.

HSQ understands the importance of completing a project on time and within budget. That is where their project management experience and approach allow them to handle any size project. Their team members are recognized achievers in every aspect of the professional services that they provide with a track record for innovative problem solving.

CRA Experience

Marwan has 33 years of highway design experience in South Florida. His principal areas of practice include project management, roadway design, drainage design, pavement marking, maintenance of traffic, and construction administration. Marwan has worked extensively on CRA projects throughout South Florida including improvements to 24th and 25th Streets in West Palm Beach with the City and the CRA; streetscapes for 6th Avenue North and 10th Avenue South with the Lake Worth CRA; US1 in Delray Beach with the City and CRA; and Seacrest Boulevard improvements with the Boynton Beach CRA. Additionally he has directed numerous projects for Broward County, Palm Beach County, the Florida Department of Transportation (FDOT) District Four, and numerous South Florida municipalities. Currently Marwan served as the Florida Redevelopment Association's regional representative for South Florida. He is a liaison between the association and CRAs in Broward, Miami-Dade, and Monroe counties and is at the forefront of changes and issues affecting Florida CRAs.

LAP Experience

FDOT Local Agency Program (LAP) Experience

Kimley-Horn has assisted many clients with obtaining LAP certification and approval. Kimley-Horn has extensive experience administering LAP-qualified projects, including checklists and other FDOT/FHWA requirements. We understand the extent of coordination necessary to successfully deliver these types of assignments and satisfy the associated funding requirements. Kimley-Horn's experience includes numerous LAP projects for cities and counties, such as sidewalk improvements, landscape enhancements, hardscape enhancements, and roadway reconstruction. Below is a sampling of our FDOT LAP project experience:

1. 15th Street Streetscape, West Palm Beach, FL
2. 19th Street Greenway; Lauderhill, FL
3. 24th and 25th Street Improvements and Sidewalk Improvements; City of West Palm Beach, FL
4. 39th Street Canal Greenway, Oakland Park
5. Black Creek Trail Segment A, Miami-Dade County Parks, Recreation and Open Spaces Department
6. Bus Tram Stops, Programmatic Categorical Exclusion; Plantation, FL
7. C-12 Linear Park, Type 1 Categorical Exclusion, Plantation, FL

Public involvement

Kimley-Horn is known for developing innovative approaches to projects that involve neighborhood participation. We understand that some projects require community involvement and acceptance, and we have developed effective methods of bringing the community into the process. Kimley-Horn is strongly committed to conducting public participation programs that educate, inform, and build consensus for a project. Each project is different in terms of the stakeholders and the critical issues involved; thus each public involvement program must be tailored to specifically address the project's needs.

We anticipate public involvement activities related to coordination with ongoing projects in the area, traffic control activities and ADA accommodations. Public involvement strategies our team has successfully on similar City of Pompano Beach projects includes creating fact sheets or presentations for County Commission, using community meeting to build consensus with the public, and providing project updates for posting on the City's or County's website. Our team includes staff and resources to communicate with any local stakeholders with limited English proficiency ensuring an inclusive public involvement process.

Our team has provided public outreach for transportation projects of all sizes. Given the current COVID 19 distancing requirements, keeping stakeholders involved and informed may require Virtual Public Involvement. Lisa Stone has recent experience hosting virtual public meetings in South Florida and will lead all public activities. Important considerations for hosting virtual public meetings include

- Using GoTo meeting platform as this provides a larger call in capacity than Microsoft Teams
- Accepting questions through the meeting chat function to avoid attendees talking over each other
- Providing a call in phone number for those without internet access
- Providing a website so attendees can download any content after meeting

Our project team hosted a successful Virtual Public Meeting for Century Village Deerfield Beach in July 2020 with several hundred attendees. Our ability to host Virtual Public Meetings will ensure that critical transportation improvement projects can move forward on schedule.

Innovative Concepts

Our project team has a deep history of providing innovative solutions to transportation improvement projects. We have developed solutions to reduce overall construction cost, avoid constructability issues, or help build consensus between project stakeholders. The value of this experience is our ability to deliver a project that is well-received by the community and meets the City's long-term goals. Examples of innovative concepts we have used include:

- Shared-use drainage ponds between municipal and private owners to minimize right of way needs Collection of roadway lighting levels via car-mounted sensors to minimize field time and improve accuracy
- Use of drones to collect existing information, observe construction activities, and increase safety of field staff
- Design of spread footer foundations for overhead signs, mast arms, and light poles to avoid utility conflicts
- Use of ground penetrating radar to map underground utilities mitigating conflicts
- Designed Flashing Yellow Arrow traffic signals to improve traffic level of service without replacing mast arm
- Incorporated way finding signs for pedestrians into landscape and hardscape design to avoid sign pollution
- Hosted Virtual Public Meetings to increase attendance and keep transportation projects on schedule during COVID 19 pandemic
- Designed in-road flashing beacons to increase pedestrian visibility and safety in crosswalks
- Designed urban tree pits to avoid right of way needs and provide shade encouraging walkability
- Due to the integrated nature of our internal practices, we often have multiple sources of existing utility, survey, and development information to supplement City sources, which can reduce design costs.
- Use of smart boards during public meeting increasing attendee participation and understanding.
- Use of 3D rendering to clearly communicate design element to permitting agencies reducing overall review time.

Resiliency and Sea Level Rise

Community resilience and sustainability is a vital initiative at Kimley-Horn. Resilience emphasizes the reduction of impacts on the environment and creates a stronger community in many areas, including transportation, energy and water use, land use, and our built environment. We have completed community-wide energy efficiency and conservation strategies, vulnerability assessments, comprehensive resiliency plans, sea level rise analyses, rainfall and surge analyses and evaluation of effects on critical infrastructure, and more for a variety of communities throughout Florida.

Our team offers individual expertise in areas as diverse as public finance, greenhouse gas and emissions inventories, land use, public infrastructure, storm events, flooding, sea level rise, and climate adaptation. More recently we have been helping cities in Florida mitigate sea level rise impacts with various solutions including building up their sea walls and installing large stormwater pump systems.

Traffic Safety Studies

Kimley-Horn has conducted over 40 safety studies under our recent contract with the Florida Department of Transportation focusing on intersections, arterials, freeways, and interchanges. Our engineers are experienced in developing countermeasures consistent with the applicable standards such as Traffic Engineering Manual, FDOT Design Manual (FDM), and MUTCD, and safety best practice resources such as FHWA's Proven Countermeasures and Crash Modification Factor Clearinghouse. Our traffic engineers work with roadway engineers to evaluate constructability and develop realistic cost estimates.

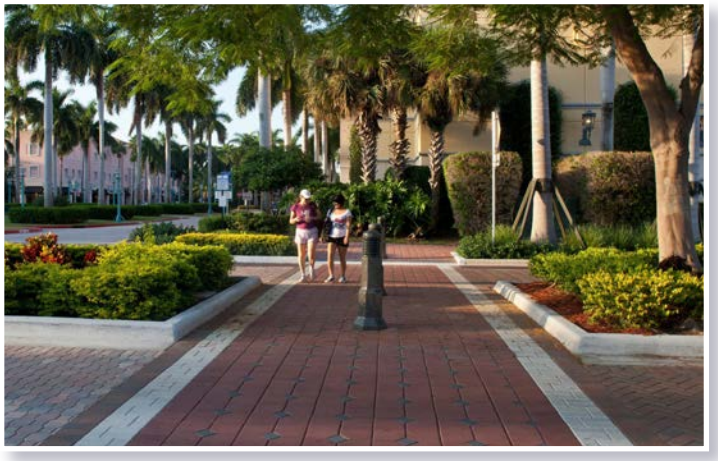
Roadway, Streetscape, and Complete Streets

Roadway, Streetscape, and Complete Streets

Kimley-Horn offers complete transportation planning, roadway design, and traffic engineering services in-house. Our transportation planning and engineering services include traffic impact assessment; development of master plans; layout of roadways, access, and interchanges; development of circulation and parking plans; and design of both surface and structural parking facilities. We have completed thousands of traffic engineering projects, ranging from major area-wide systems involving hundreds of intersections to single intersection designs and analysis. Our traffic engineering staff includes experts in traffic engineering general consultation; signal system design; intersection design; signing and marking studies and plans; speed zoning studies; safety and operations studies and plans; accident analysis and testimony; pedestrian safety programs; innovative parking, access, and circulation studies; impact fee/concurrency analysis.

We are recognized nationally for our Complete Streets planning and engineering services. Kimley-Horn is a silver member of the Complete Streets Coalition and we have contributed through research and the development of best practices. We are one of the primary authors of ITE's recommended practices: Designing Walkable Urban Thoroughfares. Our award-winning work in Hendersonville, TN, is referenced as a case study in the American Planning Association's PAS Report on Complete Streets. Since the authorship of these reports, Kimley-Horn has remained active in the development of Complete Streets policies for cities and communities of all sizes. **Including the Complete Streets Design Guidelines for Broward, Palm Beach, Miami-Dade counties.**

Kimley-Horn also has extensive experience in downtown redevelopment and streetscape projects. Our award winning projects include local projects such as Palmetto Park Rd Downtown Boca Raton Promenade. As metropolitan urban areas continue to grow, urban design, streetscape design, and landscape architecture have become integral components of roadway and transportation system designs and infrastructure improvements in general. Revitalizing commercial districts, controlling traffic flows, and providing recreational areas and pedestrian and bicycle facilities in increasingly congested areas are some of the solutions designed by our landscape architects and planners. Kimley-Horn has extensive experience in downtown redevelopment and streetscape projects and a well-earned reputation for combining creative ideas, technical excellence, and client collaboration, resulting in dynamic projects that blend into their environments and become a part of the area they inhabit. An important aspect of competent streetscape design is meeting the requirements of the Americans with Disabilities Act (ADA) and Crime Prevention Through Environmental Design (CPTED). Kimley-Horn is on the forefront of finding creative design solutions to regulatory restrictions. We strive to provide a safe and accessible streetscape that provides a pleasant experience for all individuals. In addition, we support the active participation of your staff, special interest groups, and the general public in finding an optimum design solution. We recognize the importance of a comprehensive public involvement program for these types of projects—it serves to heighten local awareness of each project and often ensures its success by accurately defining the needs of each user group.



Wiles Road Design from Rock Island Road to US 441 (SR 7), Broward County

Kimley-Horn was selected by the Broward County Highway Construction and Engineering Division to prepare complete contract plans for the reconstruction and widening of Wiles Road to a 6-lane divided urban arterial from Rock Island Road to US 441 (SR 7) Broward County and FDOT are sharing in the cost of improvements which include roadway design, Complete Streets design, drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, public outreach and detailed traffic plans. We incorporated Broward Complete Streets guidelines on this project (prepared by Kimley-Horn) which were endorsed by Broward MPO.

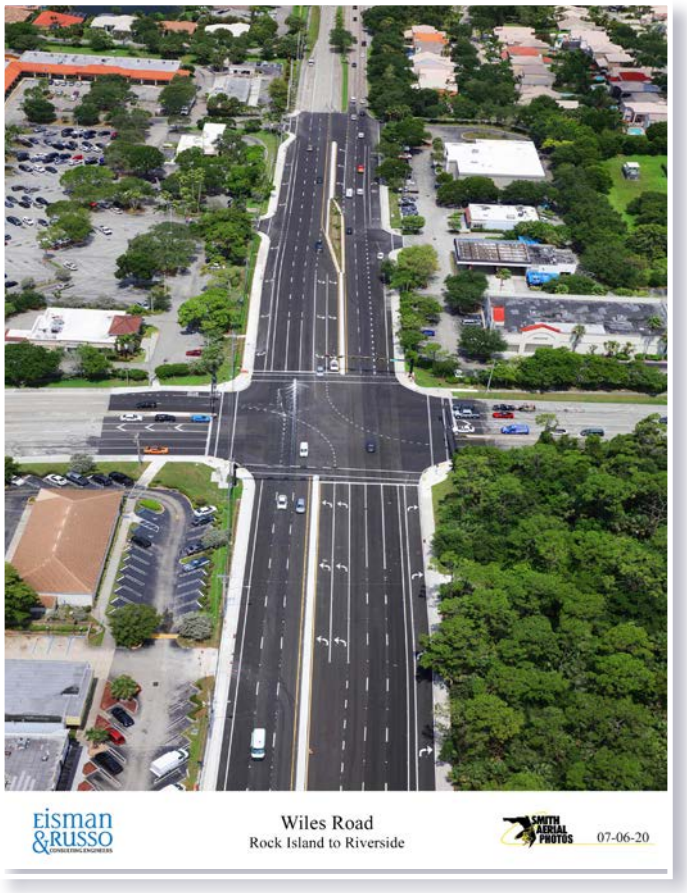
Key elements of the project included a successful public involvement program that included input from area HOA's, public schools, and the City of Coral Springs regarding noise, congestion, decorative streetlamps and the design of a City entrance monument. **Permitting with FDOT for the improvements at SR 7 was required. Extensive landscape plans were developed and tree mitigation permit services and involved coordination with both the County and City forester.** Utility impacts were minimized with innovative drainage design techniques that involved filling in an existing ditch/canal that encroached into existing right-of-way. Kimley-Horn's engineers designed a dry detention area for stormwater attenuation and coordinated with the U.S. Army Corps of Engineers, Pine Tree Water Control District, and SFWMD to develop drainage solutions that avoided the need to acquire additional right-of-way. Our team also provided utility relocation design services for the City of Coral Springs regarding the repositioning of their water and sewer lines and coordinated the relocation of FPL Transmission poles. We also provided design coordination for landscaping and new decorative streetlamp lighting between the County and City of Coral Springs for a new entrance monument and lighting for the City. The road widening will take into consideration not just the needs of vehicular traffic but also of bikers and pedestrians. Among the different components of the project are a new lane on both sides, wider sidewalks, street lighting, landscaping, a three-foot buffer and four-foot bike lanes. The existing traffic signals were replaced with mast arm signals. Kimley-Horn provided responsive post-design services during construction. The County has been very pleased with Kimley-Horn's ability to expedite the project to meet FDOT grant deadlines, quality of the design and constructability of the project.

Wiles Road Design from Riverside Drive to Rock Island Road

Kimley-Horn created complete contract plans for the widening of Wiles Road to a 6-lane divided urban arterial from Riverside Drive to Rock Island Road. One of the major accomplishments of this segment's design was to work with all stakeholders to avoid issues related to private property impacts given the narrow corridor and proximity of private features. Another major accomplishment was an innovative drainage solution that added new outfalls through City owned property to an existing undersized drainage system to avoid reconstructing the entire Wiles Road system. We coordinated closely with the County to tackle issues related to the narrow areas of the corridor, including a balance between traffic lane, sidewalk and bike lane widths. **This segment had grant funding from FDOT and the improvements included roadway design, Complete Streets design, drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, permitting coordination with the City of Coral Springs and detailed traffic control plans.** The project required extensive landscape plans and coordination to resolve issues related to private landscape encroachments into County right of way. Our team provided tree mitigation permit services and coordinated with both County and City forester. We incorporated the Broward Complete Streets guidelines on this project (also prepared by Kimley-Horn), which were endorsed by the Broward MPO.

Key elements of the project included a successful public involvement program that included input from area HOA's and the City of Coral Springs regarding especially related to the proximity of the roadway to adjacent houses. Extensive drainage design and permitting was required due to Wiles Road and Riverside Drive being drainage divides between multiple drainage districts including, Pine Tree Water Control District, Sunshine Water Control District, North Springs Improvement District and SFWMD. Our team also provided utility relocation design services for the City of Coral Springs regarding the repositioning of their water lines.

The road widening takes into consideration not just the needs of vehicular traffic but also of bikers and pedestrians. Among the different components of the project are a new lane on both sides, sidewalks, street lighting and landscaping and irrigation. The existing traffic signals were replaced with mast arm signals.



West Atlantic Avenue at Florida's Turnpike Intersection Improvements, Delray Beach

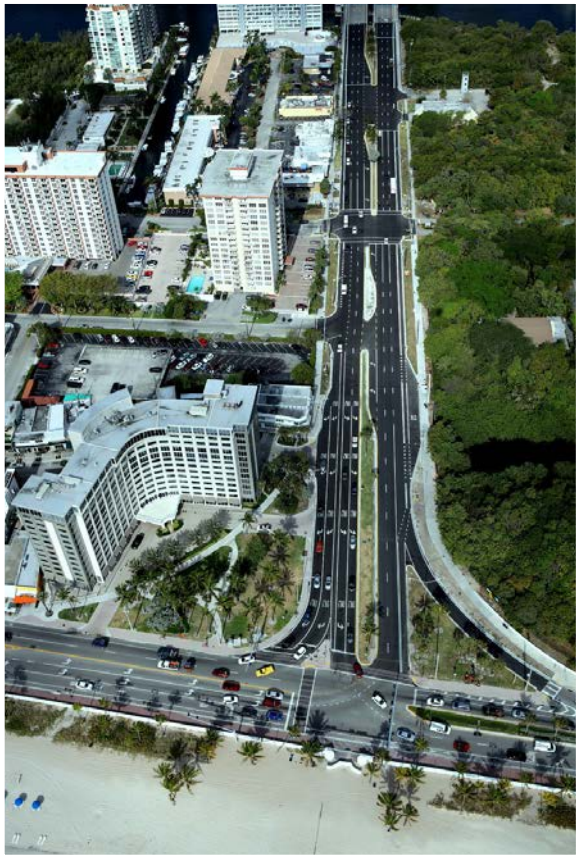
Kimley-Horn was retained by Palm Beach County to study improvements to Atlantic Avenue and Turnpike entrance intersections. Proposed improvements include the addition of a dedicated westbound to northbound right-turn lane on SR 806/Atlantic Avenue at the northbound entrance to Florida's Turnpike. The turn lane will start east of the existing bridge over LWDD E-2-E Canal. The existing bridge will be widened to accommodate the new turn lane. A third westbound lane is provided in addition to the right-turn lanes. For the structural component, Kimley-Horn reviewed the existing bridge conditions and bridge crossing requirements of the LWDD E-2-E Canal and impacts of existing utility crossing attachments to the bridge. The project included relocation of the 42" water main aerial crossing from the existing bridge to a separate canal aerial crossing. Our team coordinated with LWDD, owner of the canal; FDOT District Four Structural Office; and Florida's Turnpike Enterprise. Additionally, our team provided the design of the bridge widening.

Federal Highway US 1 Interim and Final Enhancements, Delray Beach

Award-winning Complete Streets project. This multi-phased project was a pioneer project in the South Florida area which is being studied by various agencies. It was a road diet / lane elimination project on a state roadway on behalf of the City and the Delray Beach Community Redevelopment Agency. It included a study and conceptual design, temporary implementation of the design for a trial period (to convince the few opposing stakeholders of the effectiveness of the proposed solution), and final design and construction of the permanent improvements for two miles of the US 1 one-way pair in each direction. Kimley-Horn's design reduced north- and south-bound US 1 to two lanes each way and provided on-street parking and bike lanes on both avenues. The improvements encourage slower speeds and a safer, more pedestrian-friendly environment. The project included landscaping beautification and decorative, environmentally sensitive street lighting; irrigation design; bicycle lanes; and a new sense of continuity with Downtown area with pavers and decorative crosswalks. Kimley-Horn provided post-design

SR A1A RRR Design from East of Mercedes River Small Bridge to Sunrise Boulevard, FDOT District Four

Kimley-Horn provided for the milling and resurfacing of A1A from the bridge over the Mercedes River to Sunrise Boulevard. This portion of A1A is a designated Florida Scenic Highway. In addition, this segment is nationally and internationally renowned as the Fort Lauderdale Beach Strip. This project included four different typical sections for SR A1A. Several deficiencies were identified during field review, including unsafe pedestrian movements, cracked sidewalks, substandard bridge pedestrian aluminum rails, and abandoned, blocked-off driveway cuts. Kimley-Horn used a holistic approach to ensure connectivity of the different modes of transportation including bicycle storage facilities and special signing to achieve a successful design within FDOT guidelines. Our work included drainage repair, sidewalk modifications to meet ADA criteria, design variations/exceptions (as necessary), traffic control plans, lighting evaluation, and local agency coordination.



SW 157th Avenue Roadway Widening from SW 42nd St to SW 26th St, Miami-Dade County

Kimley-Horn is providing professional engineering design services for the preparation of completed construction plans to include master planning, traffic study, and public involvement for widening SW 157 Avenue from SW 42 Street to SW 26 Street from two to four lanes. The project length is approximately 1.3 miles. This project includes new raised landscape medians, bike lanes, sidewalks, curb and gutters, storm drainage system, pavement markings and signage, intersection and signalization improvements, and roadway lighting. We are providing the County with permitting, environmental assessments, construction administration services, geotechnical services, and utility coordination.

Reconstruction of Krome Avenue from South of SW 296th Street to South of SW 232nd Street, FDOT District Six

This project is part of the Krome Avenue South Corridor and has several environmentally sensitive areas. This segment of Krome Avenue handles part of the main freight activity in south and west Miami-Dade County, with a daily truck percentage of 15%. The project included reconstructing and widening Krome Avenue from a two-lane roadway to a four-lane roadway divided by a grassed median; replacing the C-103 Canal/Mowry Bridge; installing a drainage system; installing lighting; installing guardrail in the median; repaving and restriping the roadway; and modifying access to entrances to enhance safety along the corridor.

The roadway and structural design services included the replacement of the existing bridge over the Mowry Canal. The new bridge includes two parallel two-lane short-span concrete structures (northbound and southbound), with an auxiliary lane, bike lane, and shared-use path on the southbound structure.

Okeechobee Road (SR 25) from East of NW 87 Ave to NW 79 Ave, FDOT District Six

Kimley-Horn is providing final design services for the reconstruction of a one-mile section of Okeechobee Road in Miami-Dade County. Services include widening the existing road to 4 lanes in each direction; widening the NW 79th Avenue Bridge over the Miami (C-6) Canal; intersection modifications at NW 95th Street and Frontage Road; relocation of an existing BJs Wholesale Club entrance and addition of a new free-flow right-turn lane; and new access from the Frontage Road to westbound Okeechobee Road. The project includes structural design, drainage design, signing and marking, signalization, lighting design, ITS system design, and landscaping along the corridor.

Okeechobee Road is a Strategic Intermodal System (SIS) facility that serves as an important local and regional freight corridor carrying over 15% trucks daily. Okeechobee Road is bordered by the Town of Medley to the south and the City of Hialeah Gardens to the north and is classified as a divided, urban principal arterial with three lanes in each direction and a two-lane frontage road to the north. The Miami Canal (C-6) borders the facility to the south and NW South River Drive runs parallel to Okeechobee Road south of the Miami Canal. Because there are bridges that provide access from NW South River Drive to Okeechobee Road, NW South River Drive functions as an additional frontage road. NW South River Drive also serves as a major collector for the industrial areas south of the project corridor and is the most important, highly utilized corridor within the Town of Medley, which owns and maintains the road.

Okeechobee Road serves as a restrictive highway due to the lack of access points and the presence of a frontage road. The surrounding commercial retailers and heavily industrialized areas create large volumes of traffic (especially trucks) that queue and back up into intersections and cause failing levels of service, operational deficiencies, and high crash volumes. The improvements along Okeechobee Road are required due to substandard traffic operations, the need to optimize the road's effectiveness as a major freight corridor and link to other major facilities, and its importance as an access route for nearby commercial, industrial, and residential properties.

Las Olas Boulevard Corridor Safety Improvements & Colee Hammock Neighborhood Traffic Calming, Fort Lauderdale

The City of Fort Lauderdale looked at Kimley-Horn's successful design of the Federal Highway road diet project for Delray Beach and asked us to help them with a road diet for a segment of Las Olas Boulevard. The City was interested in providing buffered bike lanes, opportunities for landscaping and emphasize pedestrian and bike mobility. As we started the data collection and public involvement phase it became apparent the need for providing a traffic calming study for the adjacent neighborhood to prevent cut through traffic and to direct traffic to a designated local street. Our traffic engineers collaborated with our Complete Streets design experts, our roadway design engineers, and City staff to investigate several alternatives including designation of some streets as one-way pair to discourage cut through traffic throughout the neighborhood. This option was discounted in favor of more traffic calming measures. The project involved an extensive public outreach program and many meetings to develop consensus between homeowner association representatives. It resulted in design of traffic calming measures throughout the neighborhood including raised intersections, textured pavement, enhanced unsignalized pedestrian crosswalks with LED edge lighted crosswalk signs, special intersection colored pavement, sidewalk connectivity, coordination with the County Engineering and Traffic Divisions, drainage improvements, utility relocation and lighting upgrades, and addition of turn lanes at the major signalized intersections.

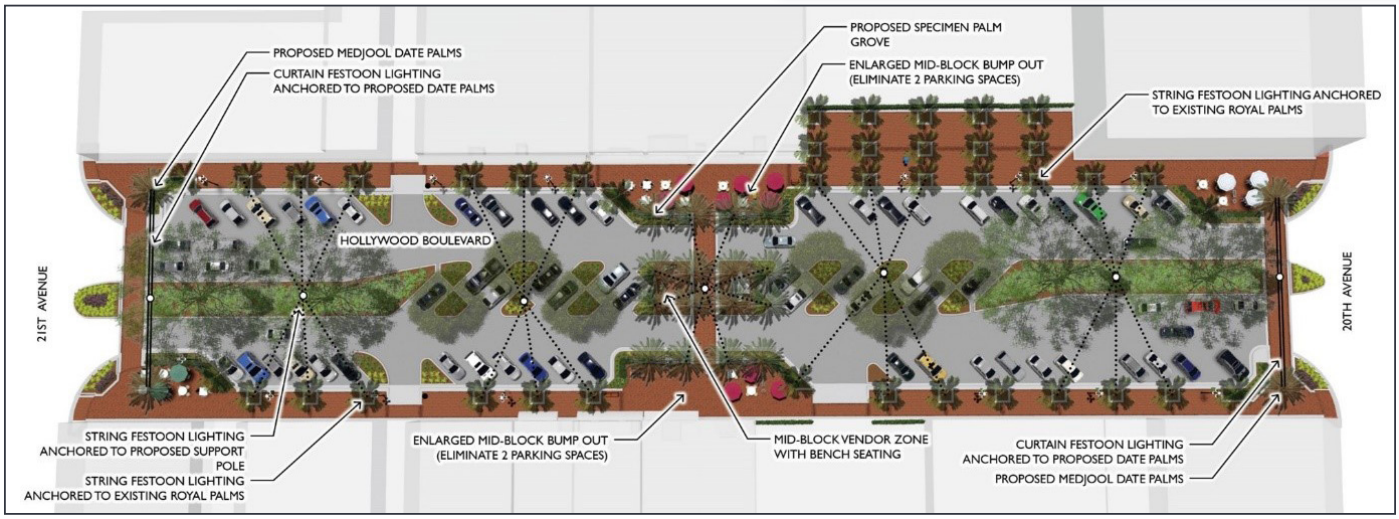
Las Olas Boulevard Corridor Improvements and Parking Garage, Fort Lauderdale

Kimley-Horn's serves as lead engineering consultant for site civil design, roadway design, permitting coordination, stormwater, utility, and franchise utility coordination services for this multi-use project for the City of Fort Lauderdale Community Redevelopment Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage, active park and plaza areas, and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a Complete Streets design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of the road. Oceanside Plaza is being designed so that it can be used for festivals, concerts, and children's play areas and includes a porte cocher drop-off.

Dixie Highway/21st Avenue Corridor Redesign Concept and Mobility Study, Hollywood

Through contracts with the City of Hollywood and the Hollywood CRA, Kimley-Horn prepared a Redesign Concept Study for the Dixie Highway and 21st Avenue corridor throughout Hollywood between Pembroke Road and Sheridan Street. The goal is to create a "transit-ready corridor" along the FEC Railroad by implementing Complete Streets solutions in anticipation of re-establishing passenger rail service through seamless integration of an anticipated Tri-Rail Coastal Link station.

Implementing Complete Streets solutions along Dixie Highway/21st Avenue is important to achieve the vision for improved multimodal mobility and livability along this important north-south corridor. The Complete Streets approach recommended in this study included a "road diet" lane reduction to repurpose excess automobile capacity for bicyclist, pedestrian, and transit improvements. In addition, the Complete Streets approach will establish a transit-ready corridor for seamless integration of an anticipated Tri-Rail Coastal Link station along the Florida East Coast (FEC) Railroad.



Districtwide Minor Projects Design Consultant, FDOT District Four

Kimley-Horn was selected for this on-call type of contract where we act as an extension of FDOT District Four staff. We provide a variety of services on a work authorization basis ranging from design and construction plan preparation to providing staff to serve at FDOT offices in any of their different departments on an as needed basis. The projects vary from state to federally funded and include intersection improvements, signal operational improvements, safety improvements, Resurfacing, Restoration, and Rehabilitation (RRR), scoping of projects, cost estimation, environmental, structural and utility services. It also includes information technology, ITS, architecture and other services that may include developing concept reports, 3D modeling, and request for proposals (RFP) on design-build projects. Our team provided services for several projects including Sheridan Street and SR A1A intersection and signal improvements, Broward Mobility pedestrian and bicycle improvements, Atlantic Avenue and FL Turnpike ramp intersection and signal safety improvements. SR 807 and 10th Ave N. intersection and lighting improvements, preparation of design-build criteria package for interim design improvements for several I-95 interchange ramp intersections.

SR A1A Complete Streets Design, Hollywood

Kimley-Horn led a feasibility study to incorporate Complete Streets elements within the corridor between Hollywood Boulevard and Sheridan Street. The traffic study considered alternatives including lane elimination and roadway reconfiguration. Because SR A1A is a state road, our team coordinated extensively with FDOT District Four for design approvals. The roadway plans include a reduction of speed, improving safety for vehicles, pedestrians, and bicyclists; wider sidewalks, improved street furniture, landscaping, and signage. The team also provided traffic signal analyses, driveway access reviews, emergency vehicle access reviews, meetings and coordination, and permitting services. Our team designed real world mockups of selected alternatives for sidewalk pavers and decorative streetlights for the public's input before final design.

Complete Streets Design Experience

Kimley-Horn is a national leader in corridor planning and design and complete streets. In fact, the term "complete streets" evolved from the national ground-breaking document that Kimley-Horn led titled: Designing Walkable Urban Thoroughfares: A Context Sensitive Approach, Institute of Transportation Engineers, 2010. Since the completion of this guidance by ITE, state regional and local governments have adopted complete streets policies and plans. For example, Kimley-Horn is currently leading the efforts in the City of St. Petersburg, Florida, to complete their innovative Complete Streets Implementation Plan. Kimley-Horn was also recognized by USDOT with the Safer People Safer Streets Complete Streets Award for our work in completing the Miami-Dade Safer People Safer Streets Local Action Plan.

Complete Streets are designed at a human scale. Complete Streets make accommodations for people to travel comfortably via a wide variety of modes, including access to public transportation, on foot, by bicycle, or in a car. Themes that were incorporated into the guidelines include public health, smart growth, transportation equity, sustainability, placemaking, safety, and age-in-place. The resulting guidelines present standards and design guidance for planners, engineers, and maintenance officials to achieve a vision of implementing complete streets principles, which aim to design streets for people of all ages and physical abilities and accommodate all travel modes.

Kimley-Horn prepared the ***Broward Complete Streets Guidelines*** for a partnership, including the Broward Regional Health Planning Council (BRHPC) and the Broward Metropolitan Planning Organization (MPO). Kimley-Horn was tasked with developing guidelines that were customized for local Broward jurisdictions and reflected local conditions, Florida State Statutes, and Florida design criteria. The guidelines were made possible through a Centers for Disease Control and Prevention (CDC) grant, the Transforming Our Community's Health (TOUCH) initiative, administered by BRHPC.

The ***Broward Complete Streets Guidelines*** are divided into 15 chapters, covering topics such as Travel Way Design, Intersection Design, Pedestrian Crossings, Bikeway Design, Transit Accommodations, Traffic Calming, Streetscape Ecosystem, Designing Land Use Along Complete Streets, and Retrofitting Suburbia. A Technical Advisory Committee (TAC) was established to guide the development of the manual and provide input from stakeholder agencies including the Florida Department of Transportation (FDOT), Broward County Public Works, Broward County Transit, Broward MPO, Smart Growth Partnership, Bicycle Pedestrian Advisory Committee (BPAC), and several local municipalities. Kimley-Horn staff presented monthly updates to the TAC and assisted Urban Health

Additionally, the projects highlighted in this section incorporate Complete Streets design principles. These include all three phases of Wiles Road, US 1 in Delray Beach, Las Olas Boulevard in Fort Lauderdale, to name a few. Some of the Complete Streets projects that clearly distinguish Kimley-Horn from others are those that set the standards for Complete Streets as indicated below:

Palm Beach TPA Complete Streets

Kimley-Horn is assisting the Palm Beach TPA previously the Metropolitan MPO implement its Complete Streets program, capitalizing on our diverse staff expertise in urban mobility, transportation planning, traffic engineering, and roadway design. Our services have included assistance with development of the Palm Beach MPO Complete Streets Policy, meeting facilitation services for the Complete Streets Working Group, and developing the Palm Beach MPO Complete Streets Design Guidelines.

Kimley-Horn advised the MPO on the Complete Streets Policy and facilitated intergovernmental coordination and presentations. Our approach included incorporating a Vision Zero complement into the Policy, establishing baseline performance measures, and developing an attractive aesthetic element to the Policy documentation.

Kimley-Horn is currently preparing Complete Streets Design Guidelines for the MPO. Our approach to the Design Guidelines institutes the new paradigm of "proactive" design that is crucial to integrate Complete Streets into transportation projects. This "proactive" design recognizes that the way we design our streets can change behavior of street users; guide users through physical and environmental cues; manage vehicle speeds; encourage walking, bicycling, and public transit use; and embrace the unique place characteristics that surround the street (often referred to as context-sensitive design). Street planning and design engages stakeholders to better understand broader community goals and needs, rather than simply designing the street as a conduit for moving cars. The Complete Streets Design Guidelines are intended for use by practitioners in local governments who are performing transportation planning and/or design work for projects in urban areas of Palm Beach County.

Miami-Dade Complete Streets Design Guidelines

Kimley-Horn prepared the Miami-Dade Complete Streets Design Guidelines to provide the unifying design document for local governments in Miami-Dade County to be able to identify and incorporate Complete Streets elements into road projects. The Design Guidelines are targeted toward engineers, planners, and developers. The Design Guidelines were made possible through a Centers for Disease Control and Prevention (CDC) grant administered by the Florida Department of Health (FDOH) in Miami-Dade.

Kimley-Horn collaborated with local government staff to identify and incorporate key principles into the documentation—Safety, Health, Modal Equality, Context Sensitivity, and Sustainability. A unique street typology was developed specific to Miami-Dade streets and land use types to structure design guidance and criteria. Additional guidance is provided on a range of topics including bus stops, access to transit, landscaping type and spacing, bike parking, traffic calming, goods movement and deliveries, accommodating transportation network entities (TNEs), and preparing for autonomous vehicles (AVs). The resulting Design Guidelines present standards and design guidance for local officials to achieve a vision of implementing Complete Streets principles, which aim to design streets for people of all ages and physical abilities and safely accommodate all travel modes. Working together with Urban Health Solutions (UHS), a public engagement strategy was developed and executed to inform local government officials, key decision-makers, and the public while also gathering ideas and input toward the development of the Design Guidelines.

Clematis Streetscape Improvements, Phases I and II

Kimley-Horn is providing landscape architecture and civil engineering services and leading the team designing improvements to Clematis Street, West Palm Beach's iconic 'main' street. In collaboration with Dover-Kohl, Kimley-Horn has designed for a transformative change that features a paver-covered, curbless street with narrowed travel lanes, widened premium paver sidewalks, permeable paver parking spaces, custom-designed seating areas, and a landscape featuring large Live Oaks to provide significant shade for pedestrians. The design also implements the City's first suspended pavement systems to provide a significant uncompacted root zone space for the Live Oaks to thrive. Kimley-Horn provided utility engineering services for the relocation of water mains and gravity sewer lines to accommodate the larger trees. The design also addresses drainage conditions that are unique to curbless streets. The first two phases of the project was designed under accelerated schedules that required to the project to be constructed before November 2018 and 2019, with a third, and final, phase scheduled to be open by November 2020.

Parking Lots

Parking for vehicles serves as the beginning and end to all travel throughout a community, and thus appropriate parking solutions are necessary for all buildings and facilities. Kimley-Horn's professionals support the development of parking lots from conceptual design to implementation. Our team regularly supports our clients in the planning of parking lots from large to small and also helps with improving existing parking lots through ADA modifications and pavement management. Kimley-Horn understands the needs required for different uses within a parking lot and will work with you to develop an implementable plan. Our team can also support the civil engineering design, landscape architecture, site lighting, and pavement design for any parking lot development.

Indian River Drive Parking and Sidewalk Project, Jensen Beach, FL

Kimley-Horn was retained to develop construction plans to construct sidewalk improvements along Indian River Drive approximately between N.E. Dixie Highway and Riverside Park. In addition to the pedestrian improvements, Kimley-Horn designed on-street parking and drainage improvements to increase access to an existing marina land use located along the corridor. Kimley-Horn also designed traffic calming elements to aid in improving mid-block pedestrian crossings of Indian River Drive. The firm also provided local agency program (LAP) permitting coordination with the Florida Department of Transportation associated with this project, as this was a source of project funding.

Florida Atlantic University (FU) Parking Lot 2, Boca Raton, FL

Kimley-Horn provided professional consulting services for the reconstruction of the existing Parking Lot 2, north of N.W. 20th Street between the Charles E. Schmidt Biomedical Science Building (Building 71) and the Engineering & Computer Science Building (Building 96). The parking lot was reconfigured to maximize the number of parking spaces. Improvements consisted of pavement and sidewalk improvements, drainage modifications, landscape and irrigation design, signing and pavement marking and construction phase services. Kimley-Horn was responsible for performance and oversight of field work and construction phase services. In addition, Kimley-Horn provided regulatory agency permitting assistance with South Florida Water Management District (SFWMD) and Lake Worth Drainage District (LWDD).

Sistrunk Boulevard Surface Parking Lots, Fort Lauderdale, FL

Kimley-Horn provided professional engineering and landscape architecture services associated with the development of design plans for four public surface parking lots in various locations within the City of Fort Lauderdale. The design included designated accessible parking spaces per current ADA code and designated motorcycle parking spaces per City code requirements. A solar reflective coating was utilized as the lot surface treatment per the City's request.

Water or Reuse Main Projects

Water or Reuse Main Projects

Many clients operate reuse systems that provide treated wastewater for irrigation purposes to a number of customers. Reuse in the form of treated wastewater for irrigation is not only becoming popular in Florida, but many utility professionals consider it necessary to conserve our precious resource of freshwater. It is truly a case of one man's trash is another man's treasure. Humans may not want to drink treated wastewater but, in many respects, it is beneficial for vegetation. Kimley-Horn has experience throughout the reuse discipline, from treating wastewater to public access reuse standards and then storing/pumping/distributing that resource to customers of the system.

Water Main Replacement Project 11-5110-Hollywood Boulevard to Pembroke Road, from I-95 to S. 26th Avenue, Hollywood, FL

Kimley-Horn provided professional services for this section of the City of Hollywood's Water Main Replacement Program. The project included the replacement of over 38,000 LF of existing aging and undersized water mains, and construction of new replacement and upsized water mains in order to increase flow capacity within a mostly residential area of the City of Hollywood, FL. The project also included replacement of all existing fire hydrants and water service connections, and addition of new hydrants and services w here there was a need to provide additional fire protection. The installations occurred within three major roadway jurisdictions; the City of Hollywood, Broward County, and FDOT District 4.

The scope also included the removal/abandonment of existing water mains located within rear-lot easements, which w ere previously inaccessible for maintenance and repair. This required the relocation and rerouting of domestic water service lines and meters currently located inside private properties to the front property lines for approximately 370(±) water customers in order to reconnect them to new mains within abutting roads. Kimley-Horn's services included design and preparation of construction documents, regulatory assistance, assistance with bid and award of the construction contract, and construction administration services.

North Springs Improvement District Water Main Relocation, Coral Springs, FL

Broward County implemented road improvements for the widening of Wiles Road to a 6-lane divided urban arterial from NW 95th Avenue to Cypress Drive. As part of the roadway improvements the North Springs Improvement District (NSID) was required to relocate approximately 2,000 LF of 6", 8", 10", and 12" watermain throughout the corridor. NSID selected Kimley-Horn to prepare the utility relocation plans. Kimley-Horn prepared construction documents, permitted, and is providing post design services for this project while working closely with the City, NSID, County, and County's roadway design firm to ensure that little to no interruptions of the end users' services occurred. The design of this project was completed in 2019 and construction is currently ongoing and scheduled to be completed at the end of 2020.

Palm Lakes Water Main Replacement, Palm Beach County, FL

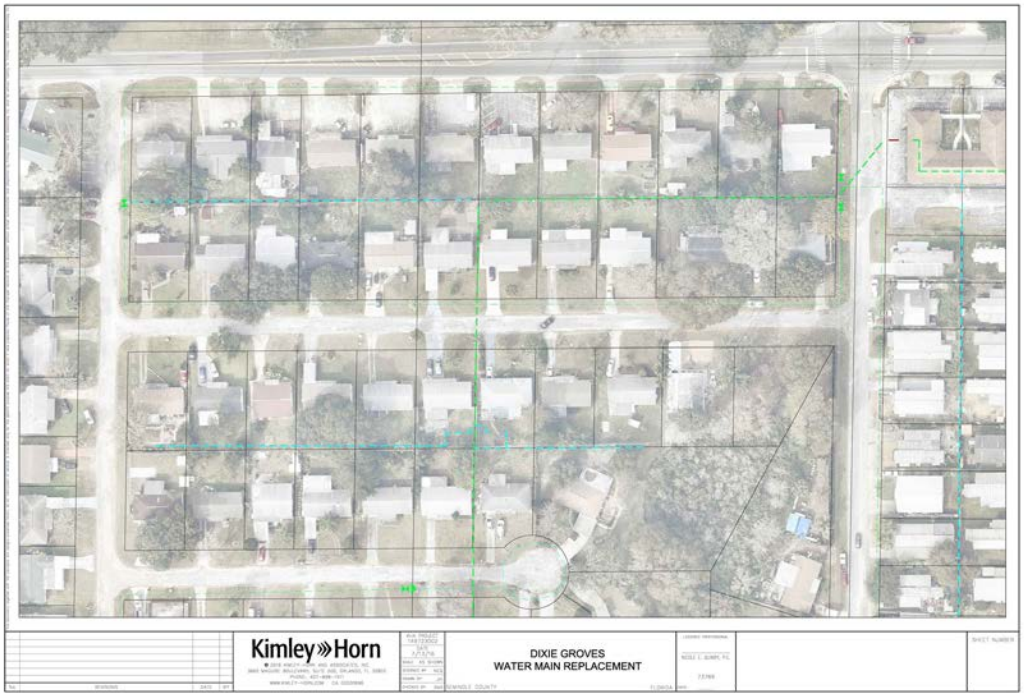
Kimley-Horn provided engineering consulting services related to the improvements necessary to replace the water mains located throughout the Palm Lakes system located in North Palm Beach, Florida. The infrastructure was installed in the late 1960s and has reached the end of its useful life. The existing water mains are mainly asbestos concrete and lo w-pressure class PVC mains. These materials typically have a life cycle of 40-60 years. Rather than wait for failure to occur, it was recommended to replace the pipelines now with the current standard of C900 PVC throughout the service area, which has a longer estimated service life. The service area has approximately 30,000 feet of pipeline and is primarily divided into two areas north and south of Blue Heron Blvd.

Kimley-Horn provided data collection/analysis to properly design the water main replacements for the north and south systems. The north and south systems were hydraulically modeled to accurately design the pipeline replacement and provide fire flows throughout the service area consistent with local standards. Kimley-Horn produced construction documents including drawings and specifications. Kimley-Horn also prepared Florida Department of Environmental Protection permits for the north and south systems.

Dixie Groves Water Main Replacement, Florida Governmental utility Authority

Kimley-Horn designed the water main replacement project within the Dixie Groves subdivision in Holiday, Florida for the Florida Governmental Utility Authority (FGUA). The project consisted of the replacement of 14,750 linear feet of 2-inch and 4-inch galvanized, asbestos cement and old PVC water main. The replaced pipe included all 4-inch and 6-inch water mains within the residential community, including the service laterals and meter assemblies. The existing infrastructure was primarily located in the rear of the residential properties and required relocation to the right-of-way next to the road side of each property. Each residential connection was re-established at the front of the property once the new water mains were completed, tested, and certified. The source supply was reconnected at both nearby water treatment facilities to provide water service to more than 350 residential customers.

The replaced water mains were permitted through FDEP, and the County's right-of-way program. Each of these permits were prepared and submitted to the respective agencies with minimal comments in response. Preliminary permitting coordination with each entity ensured the project intent and understanding was received by the respective reviewers. As anticipated, the permits were obtained within the first application or through an appended response to comments.



Cargo Road Water Main, Orlando, FL

Kimley-Horn is providing design, permitting, and construction inspections for an extension to the Orlando Utility Commission's (OUC's) potable water main north along Canal Road to serve a fire hydrant that will be located within 300 feet of the Middlesex Corporation construction field office. The fire service consists of one 6-inch water main connection to the existing 12-inch OUC water main on the south side of Cargo Road, including a jack and bore under Cargo Road then open cut installation to the proposed hydrant location. The exact connection point to the existing 12-inch water main was determined based upon utility locates of all crossing utilities. Final design and permitting included preparing plan views and detail views in accordance with OUC standard details for water main connections and appurtenances.

Gravity Sewer, Force Main, Lift Station, and Pump Station Projects

Gravity Sewer, Force Main, Lift Station, and Pump Station Projects

Kimley-Horn has experience in all phases of project planning studies, design, and construction management of sewer and wastewater projects. We have a growing list of collection system condition assessment projects including flow monitoring, infiltration and inflow assessments, smoke and dye testing, hydraulic modeling, rehabilitation/replacement recommendation, capital improvement planning, master planning, rate studies, pipe lining, pipe bursting, bypass pumping, trenchless construction, lift station improvements, and odor and corrosion inspection and control.

North Central Septic to Sewer Conversion, Hollywood, FL

This project involves expanding the City of Hollywood's existing sanitary sewage collection system to serve many residential and commercial properties still on private septic systems. The project will be divided into two sanitary sewer basins—W-09 and W-25. The W-09 Basin will convey sewage flows to existing City of Hollywood Sewage Lift Station W-09. The W-25 Basin will convey sewage flows to a new proposed City of Hollywood Sewage Lift Station (W-25), which will pump flows east via a new force main and connect with an existing 30-inch force main that runs north-south along N. 24th Avenue.

Design and permitting of the project will be performed in two phases. The initial phase will consist of the new gravity mains, manholes, and laterals along Johnson Street from N. 30th Road east to N. 22nd Avenue. The initial phase will be designed and permitted in coordination with roadway improvements proposed by FDOT to be completed by FDOT before construction begins on the remainder of the sanitary sewer system. The second phase will include the remainder of the project. The project will be designed, permitted, bid, and constructed in conjunction with a municipal water main replacement project within the same project limits, so phasing must also account for coordination with the water main construction.

NE 131st Street/NW 2nd Avenue Force Main Rehabilitation, North Miami, FL

Kimley-Horn, in connection with the City of North Miami's Professional Architectural and Engineering Services Civil/ Engineering RFQ #38-09-10, provided professional engineering services associated with upgrading force main transmission piping along NE 123st Street from NE 12th Avenue to NE 8th Avenue and along NW 2nd Avenue between NW 135th Street and NW 131st Street. The project consisted of providing engineering design, permitting, contract documents, bidding assistance, and construction phase services for the installation of 3,000 feet of 16-inch force main, 1,500 feet of 10-inch force main, abandonment of the existing force main, roadway resurfacing, and complete site restoration.

Septic to Sewer Master Planning Study (STSPS), Belleview, FL

The purpose of the Belleview Septic to Sewer Program was to identify projects that will eliminate onsite sewage treatment and disposal systems, commonly known as septic tanks. Kimley-Horn completed the initial study phase of the program, which resulted in a multi-year phased septic to sewer program. Phases are implemented based on funding cycles. Kimley-Horn has completed Phase 1 of the Belleview Septic to Sewer Program which included the installation of gravity sewer and the elimination of 120 residential septic tanks. The anticipated timeframe to perform design services was 4-5 months; however, when funding was delayed, Kimley-Horn expedited services to keep project on schedule and delivered the project design in two months. Kimley-Horn will continue to provide design services for subsequent phases which will occur annually and coincide with funding cycles.

Jupiter Inlet Colony Neighborhood Rehabilitation

Kimley-Horn provided construction management and engineer of record services for the Jupiter Inlet Colony Neighborhood Rehabilitation. Jupiter Inlet Colony converted its existing 241 septic tank systems to a central gravity sanitary sewer system that will be operated by the Loxahatchee River District. This elimination of individual septic tank systems leads to significant reductions in nutrient loadings entering groundwater and surface water bodies, providing for a 100% reduction in total nitrogen and total phosphorus. This conversion results in a 100 percent reduction in nitrogen and phosphorus loads from the septic tank systems. Kimley-Horn designed all the new systems, reviewed the bid proposals

for the Loxahatchee River District, and supervised the implementation of the construction, which finished 68 days ahead of schedule and almost $500,000 below budget. Kimley-Horn also obtained two grants from FDEP and SFWMD totaling $82,500, which will assist in offsetting the total assessment amount paid by the residents for these improvements. As a result, Jupiter Inlet Colony is releasing 83% less "dirty" water to the surrounding water bodies. Assisted the Town with obtaining $1.4 million in grants.

Force Main 15D Rehabilitation, Manatee County, FL

Manatee County had one of their primary 20-inch diameter force mains fail at the intersection of 59th Avenue and Manatee Avenue. The failure occurred at the location where the existing cast iron force main meets the manhole. The concrete and cast iron pipe had corroded to the point where the force main had begun to leak into the surrounding soil, causing a pot hole to open up and an automobile crash to occur. Kimley-Horn was contracted to provide design, permitting, and construction observation services associated with the rehabilitation of Force Main 15D.

Osprey Avenue Phase II and Phase IV 200inch Force Main and 12-inch Water Main Replacements, Sarasota, FL

Utility and roadway design services on a half-mile downtown corridor, including replacement of two aged asbestos cement (AC) pipelines (10-inch and 18-inch) with a new 16- inch water main and a new 24-inch force main.

Manatee County Force Main Projects, Manatee, FL

Kimley-Horn was selected in 2012 to provide general engineering services to Manatee County for various public works projects. Recent projects have included the design, permitting, and construction services associated with the rehabilitation of the following force mains.

Force Main 1M Rehabilitation. Replacement of Force Main 1M and Lift Station 1M discharge piping improvements consisting of the following pipeline construction: 17,350 LF of 18-inch to 30-inch PVC force main installed via open/cut; 1,320 LF of 30-inch HDPE installed via horizontal directional drill; and 350 LF of 36-inch jack-and-bore.

Force Main 5 Rehabilitation. Design, permitting, bidding, and construction phase services for the construction of approximately: 2,400 LF of 24-inch, 11,020 LF of 18-inch, and 2,250 LF of 6-inch force mains; 1,450LF of 16-inch and 5,000 LF of 6-inch water mains; and Master Lift Station 5 improvements.

Lift Station #8 Force Main Replacement, Sarasota, FL

This project included the replacement of an existing 12-inch diameter AC force main along Cocoanut Avenue from just north of 10th Street, approximately 2,700 LF north, to 17th Street within the City of Sarasota. The project included the preparation of a basis of design report (BODR) that evaluated up to four alternate routes for the realignment of the 12-inch force main. The BODR consisted of research of existing utility infrastructure along the alternative routes, coordination with permitting agencies, environmental analysis, property requirement research, and opinions of construction costs and projected future wastewater flows for the service area. Kimley-Horn developed a hydraulic model of the existing City of Sarasota system to determine the impacts of the alignment to the existing force main.

Kimley-Horn provided design plans and permitting for the force main once the route was selected. Design plans consisted of a combination of hydraulic directional drill (HDD) and open cut of the 12-inch force main. Asphalt repair and replacement, maintenance of traffic (MOT), and extensive public involvement were also required for this design.

Force Main #3 Evaluation and Design, St. Pete Beach, FL

Kimley-Horn was hired by the City of St. Pete Beach to provide general engineering services for the evaluation, locating, and designation of Force Main #3 (FM3). Following the force main evaluation, a proposed route was established based on the preliminary findings. Kimley-Horn proceeded with the design and permitting of approximately 2,700 linear feet of 10-inch PVC, 12-inch PVC, and 12-inch HDPE force main via open/cut construction and horizontal directional drill. Technical specifications, bidding assistance, and construction phase services were provided as well. The project's construction documents prepared for removal of the existing structures and installation of new pump station components for the City of St. Pete Beach and included reviews at 60% and 90% design level prior to providing final documents. Construction sequencing was important and strategic planning was involved to ensure minimal disruption to the public. Portions of the

force main were located through residential neighborhoods, requiring extensive communication and coordination with the public.

The rehabilitation of FM3 required the development of an extensive bypass pumping plan. During construction, it was determined that the main gravity sewer pipe feeding the pump station was failing and in need of replacement. To maintain the construction schedule, Kimley-Horn was able to modify the bypass pumping plans to pump from the termination manhole, and developed a design to replace the existing gravity sewer.

Parks and Recreational Facilities

Parks and Recreational Facilities

Kimley-Horn has extensive experience with parks, greenways, shared-use trails, and irrigation projects involving planning, design, final plans, specifications, and estimates. We have designed both passive parks and recreational parks, ranging in size from a 20,000+ acre park masterplan to neighborhood amenity pocket parks. Our landscape architecture team offers expertise in open space design, recreational planning and design, feasibility studies, master planning, streetscape design, multi- and shared-use paths, hardscape design, and site planning. We emphasize the development of a functional, pleasing visual environment, meaningful themes, and strong connection to environment while being sensitive to budget and long-term maintenance. Our parks and recreation planning and design services include master planning and site design; landscape architecture; civil engineering; athletic field design; tennis facility design; roadway, utility and drainage design; greenway, bicycle, and pedestrian facility design; environmental engineering and permitting; parking layout and design; stormwater management; public participation programs; construction documentation, bid evaluation, and observation.

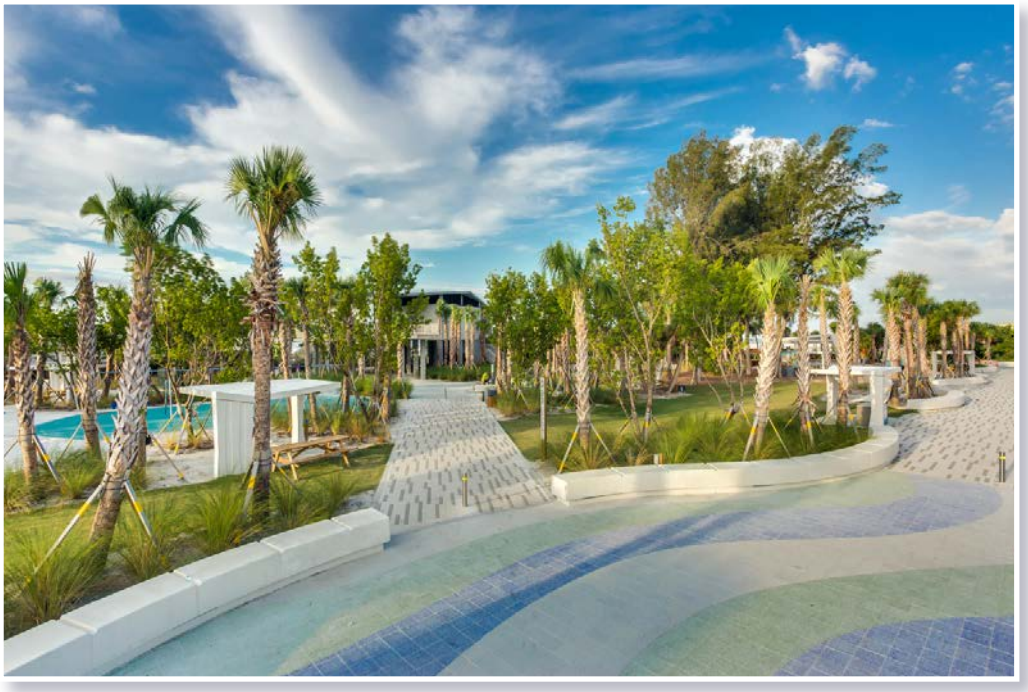
Siesta Beach Park, Siesta Key, FL

Kimley-Horn worked with Sarasota County for the implementation of this $21-million project. Construction started in fall 2013 and opened February 2016. Construction was carefully sequenced to minimize interruption during peak tourist season. Services included programming, park design, landscape architecture, civil engineering, construction documents, and permitting for this high-profile park project. Design components included “site design” enhancements; a beachfront esplanade to connect key park components; improved traffic circulation and parking; high-quality, indigenous architecture; beautification consistent with a “world class” beach park; phasing and effective implementation while keeping the park open; wayfinding signage; environmental permitting; sustainable design to respect the environment and wildlife; and LID/LEED design solutions.

Key park features include:

- Beachfront esplanade
- New concession/restroom facility
- Renovated historical restroom
- Playground with dedicated play areas for 2 to 5 and 5 to 12 year olds
- Picnic area
- Florida-friendly landscaping
- Pervious concrete parking lots

2017 FICE Engineering Excellence Award Winner for Water and Stormwater



OB Johnson Park, Hallandale Beach, FL

This 6.4-acre park in Hallandale Beach Park was part of the City-wide park master plan that set forth a program to enhance 13 of the City's parks and recreation areas in support of community-wide goals and neighborhood needs. As part of the development, the park included a 42,000 square foot multigenerational facility that included a teen center, indoor basketball courts, after school and senior programming, exercise room, administrative offices, and other accessory uses for computer and dance classes, food distribution, and other programming for all ages. The exterior park amenities included a walking trail, playground, tennis courts, a field house, and a football/soccer field. Additionally, the park improvements included a centrally located surface parking lot, site infrastructure, and landscaping.

*This is a LEED Gold certified project**

Kimley-Horn provided master planning, landscape architecture, engineering design and permitting services, as well as construction observation and administration.

Welleby Park Expansion, Sunrise, FL

The City of Sunrise retained Kimley-Horn for improvements to Welleby Park located at NW 44th Street and Hiatus Road within the City of Sunrise. As part of the project the City will incorporate a former FPL owned property located northwest of the developed park property. The existing building and outdoor storage yard will be demolished, and the site will be improved with park amenities as identified by a park masterplan prepared by another consultant. The City has identified a park program comprised of the following: additional parking, grading and drainage improvements, dog park facilities, a stand-alone restroom building, completing an off-street loop for the park trail system, playground area improvements, relocating a sand volleyball court, a new 'safety town' play feature, an 800-SF addition to the existing park community building as well as a reconfigured patio space, and a boardwalk at the lake edge to replace portions of existing chain link fence. Attendance at one public information meeting will be required of the design team, as well as limited construction phase services. Kimley-Horn will provide conceptual design for two options for the park redevelopment to be presented at a public presentation meeting. Our team will refine the concept design and prepare design plans, including paving and drainage plans, utility plans, and signing and marking plans. The City has indicated a construction budget of approximately $2,700,000 for the proposed improvements.

Coastal Resiliency Plan and Comprehensive Plan Updates, Sebastian, FL

Kimley-Horn was selected to prepare the City's Coastal Resiliency-Resilience Plan Development and corresponding Comprehensive Plan amendments to address state mandates regarding sea level rise (peril of flood) assessment. The Plan was developed using information and an in-depth analysis of sea level rise, rainfall and surge data, public infrastructure locations, land use, and societal exposures. The plan culminated in the vulnerability summary and an adaptation action plan. Following the Resiliency Plan, the Kimley-Horn team prepared comprehensive plan amendments to the Goals, Objectives and Policies (GOPs) and Data, Inventory and Analysis (DIA) for the Future Land Use, Public Facilities, and the Coastal and Conservation Elements of the City's Comprehensive Plan. These changes were important to better reflect the threats of flooding and sea level rise and the importance of resiliency measures while also improving the organization and flow of the Comprehensive Plan. The reorganization of the Conservation and Coastal Management Elements into one element was completed to address similar topics/subjects in a more succinct manner and reduce redundancies in policies.

Seawall and Dock Construction and Repair

Seawall and Dock Construction and Repair

Kimley-Horn offers expertise in seawall, breakwater, bulkhead, revetment, pier, and jetty design and permitting; marina planning, design, and permitting; beach nourishment and erosion control projects; dredging; hydraulic modeling; and general marine and coastal construction. Our bulkhead and seawall design and inspection includes several projects in Palm Beach, including the repair of 900 feet of ocean seawall, toe wall construction and bulkhead improvements, refurbishing an existing ocean bulkhead, and constructing 770 feet of new ocean bulkhead. We also evaluated the structural condition and repair requirements of 3,600 feet of aged ocean seawall in Palm Beach and recommended some immediate repairs and long-range inspection procedures. The firm has also designed intracoastal and Oceanside residential seawalls. We have provided coastal engineering services to the Breakers Hotel in Palm Beach on an as-needed basis for almost 35 years.

The Bristol, West Palm Beach, FL

The design of this project consists of a post-and- panel cantilevered concrete sheetpile wall to replace a similar tie-backed system. Total length of the wall is approximately 750 linear feet, with a maximum exposed height of 8 feet. Design challenges include connection to adjacent seawalls, the presence of an existing outfall that must be maintained, scour considerations, and permitting by both SFWMD and USACE.

9 Island Avenue Seawall, Miami Beach, FL

Kimley-Horn performed an above and below water condition assessment of the 623-LF concrete post and panel seawall on the east side of the 9 Island Avenue. Our team also performed a timber marina assessment following Hurricane Irma - which was severely damaged during the storm rendering it inoperable and unsafe.

Services provided included a visual and tactile level 2 seawall inspection in accordance with the guidelines of ASCE Practice No. 130; timber marina damage assessment; repair plans, specifications, and opinion of probable cost for repairs to the seawall and total replacement of the timber marina.

Permit assistance and construction phase services were also provided. They included meetings with the City of Miami and DERM, routine site visits to observe construction progress and review conformance with construction documents as well as produce field reports, review payment applications from the contractor, respond to RFI's and review change orders.

Miami Beach Convention Center Seawall, Miami Beach, FL

The planning/ design process of renovating and expanding the Miami Beach Convention Center is currently underway. The site work involved the evaluation of alternatives along the Collins Canal to provide shoreline stabilization and flood protection from future floods after the construction is complete. Based upon the project objectives, it was agreed that the existing seawall along the canal would remain in place and that a new seawall/floodwall would be constructed further landward from the canal to provide the required protection. The project is ongoing and is moving from the design development phase to the construction document phase which will be implemented by the design/build contractor.

Storm Water/Drainage Improvement Projects

Storm Water/Drainage Improvement Projects

Our stormwater management expertise includes hydrological and hydraulic analyses as well as surveying, planning, permitting, and the designing of all water control structures ranging from pipes and culverts to major control structures on canals and waterways. We can address both stormwater quantity and quality issues. Our staff is familiar with all of the accepted state-of-the-art computer programs used in stormwater management engineering and also have key relationships with the relevant permitting agencies. We have worked closely with the U.S. Army Corps of Engineers Regulatory Branch in the permitting and design of stormwater facilities, and with the Federal Emergency Management Agency (FEMA) when coordinating floodplain revisions to FEMA's Flood Insurance Rate Maps.

Miami Lakes Stormwater Master Plan, Miami Lakes, FL

Kimley-Horn is currently providing all aspects of engineering assistance to the Town of Miami Lakes. When Miami Lakes incorporated in 2000, they obtained the responsibility and ownership of the roadway and drainage infrastructure within the Town limits. To develop Miami Lakes' own stormwater utility, Kimley-Horn prepared a stormwater master plan that outlined the deficiencies of their current stormwater system. The recommendations from this assessment included a prioritization of the improvements along with a five-year capital improvement program (CIP). Additionally, we developed the stormwater utility fee methodology and established the range of rates for the utility to implement improvements. A critical part of the planning efforts was to assist the Town in joining the National Flood Insurance Program (NFIP). Joining the NFIP is required for the community to obtain federally funded flood insurance and be part of the Community Rating System (CRS) to help reduce insurance rates for the community. Kimley-Horn was successful in helping the Town obtain an unprecedented CRS rating of 6 for a newly incorporated municipality. Kimley-Horn has completed three updates to the Town's original stormwater master plan. The Stormwater Master Plan Updates provide the Town with a comprehensive look at completed stormwater improvements throughout the Town and provides an update to the CIP and a reprioritization of remaining stormwater work. Since incorporation, Kimley-Horn has also provided support to assess the condition of roads, sidewalks, signing, and striping throughout the Town limits. The recommendations from this assessment also included a prioritization of the improvements along with a five-year CIP. To facilitate implementing all identified Town improvements, Kimley-Horn provided construction documents, assisted in obtained bids from contractors to implement the projects, and provided limited construction phase services.

NW 21st Street Roadway Improvements and LAP Assistance, Lauderdale Lakes, FL

Kimley-Horn designed a drainage system on NW 21st Street from SR 7 to Willie Webb Park. The City added bicycle and pedestrian facilities on this roadway segment and a profile correction is also intended for this segment. The new drainage system is needed to accommodate these new facilities. This new system drains into the City's canal system. This LAP project increased the overall safety and functionality of this segment of roadway within the City of Lauderdale Lakes.

SW 89th Avenue Roadway and Drainage Improvement Project, Palmetto Bay, FL

Kimley-Horn assisted with developing a roadway restoration/resurfacing and drainage improvements project in a residential area, including design, hydraulic modeling, contract documents, and permitting. Our team located proposed drainage infrastructure and provided cost-effective drainage improvements to meet stormwater management and environmental permitting requirements, as well as minimize impacts to adjacent properties. In addition to the roadway and drainage improvements, the project included signing and pavement markings, swale restoration, sidewalk improvements, and site restoration.

Kimley-Horn provided construction phase services to expedite the project and to confirm the project was built in accordance with the design plans. Close coordination with residential property owners was required for this successful project.

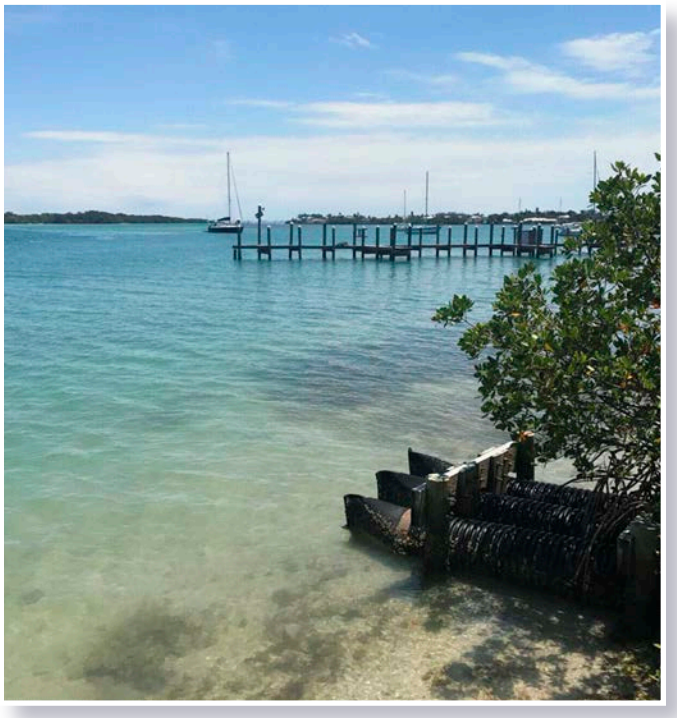
Stormwater Master Plan and Five-Year Update, Palmetto Bay, FL

The Village of Palmetto Bay has looked to Kimley-Horn to develop a stormwater master plan and associated stormwater management plan to implement a stormwater utility and obtain ownership of the infrastructure. Kimley-Horn prepared a stormwater master plan that included an evaluation of the existing drainage system, drainage basin map, hydraulic/hydrologic analysis, proposed drainage improvement projects, proposed operation and maintenance plan, and associated capital improvement plan. The Village also asked Kimley-Horn to develop a comprehensive plan as a foundation and framework for the new municipality. The stormwater master plan required extensive research of the community's roadways, utilities, and drainage patterns to understand the condition of the infrastructure and stormwater management needs.

As part of the stormwater master plan, Kimley-Horn has assisted the Village with developing a capital improvement program to prioritize improvements based on flood management needs and associated costs. As part of the stormwater management plan, Kimley-Horn has helped the Village evaluate properties throughout the Village and develop associated utility rates to generate a dedicated revenue stream for the Village improvements. A critical part of the planning efforts had also been to assist the Village in joining the National Flood Insurance Program (NFIP). Joining the NFIP is required for the community to obtain federally funded flood insurance and be part of the Community Rating System to help reduce insurance rates for the community. The Village has also looked to Kimley-Horn for specific civil and traffic engineering expertise to help them implement their new community vision.

Stormwater Master Plan Peer Review, Longboat Key, FL

Kimley-Horn conducted a peer review of the Longboat Village Stormwater Master Plan (Town of Longboat Key). The goal of the peer review was to evaluate the reasonableness of the modeling that was conducted, as well as an objective assessment of the proposed assets (pump stations and tide water valves) that were recommended to protect critical infrastructure (i.e. roads) from coastal flooding. Components included ICPR numerical model, boundary condition assumptions used and how they relate to future sea level rise, pump station sizes and costs, and an evaluation of alternative tide water valves including their functionality, costs and performance in regulating backwater prevention.



Stormwater Master Plan Update #3, Miami Lakes, FL

To develop Miami Lakes' own stormwater utility, Kimley-Horn prepared a stormwater master plan that outlined the deficiencies of their current stormwater system. The recommendations from this assessment included a prioritization of the improvements along with a five-year capital improvement program (CIP). Additionally, we developed the stormwater utility fee methodology and established the range of rates for the utility to implement improvements. A critical part of the planning efforts was to assist the Town in joining the National Flood Insurance Program (NFIP). Joining the NFIP is required for the community to obtain federally funded flood insurance and be part of the Community Rating System (CRS) to help reduce insurance rates for the community. Kimley-Horn was successful in helping the Town obtain an unprecedented CRS rating of 6 for a newly incorporated municipality. Kimley-Horn has completed three updates to the Town's original stormwater master plan.

SW 88th Avenue Paving and Drainage Improvements, Palmetto Bay, FL

Kimley-Horn assisted the Village with addressing flooding issues throughout Drainage Basin 10 as defined in the Village's Stormwater Master Plan. The project consisted of analyzing the contributing drainage area associated with the following roadways:

- SW 87th Avenue, SW 88th Court
- SW 87th Court
- SW 89th Avenue
- SW 152nd Street,
- SW 153rd Terrace
- SW 154th Terrace
- SW 155th Terrace
- SW 156th Terrace
- SW 154th Street

Kimley-Horn assisted in developing a roadway restoration/resurfacing and drainage improvements project in the residential area including permitting, signing and pavement markings, and site restoration. The drainage system in this basin is a closed system with catch basins connected to exfiltration trench located in the swales along the sides of the roadway. Our team located proposed drainage infrastructure and provided cost effective drainage improvements to meet stormwater management and environmental permitting requirements as well as minimize impacts to adjacent properties. Tasks included data collection, preparation of design development plans, drainage design and permitting (including hydraulic analysis), and preparation of final construction plans and contract documents. Kimley-Horn provided construction phase services to expedite the project and to confirm the project was built in accordance with the design plans. Close coordination with residential property owners was required for the successful project.

Grant Reimbursement, FAA and FDOT Support and Compliance

Grant Reimbursement, FAA and FDOT Support and Compliance

Punta Gorda Airport, Rehabilitation and Extension of Runway 15/33

Kimley-Horn is providing design, bidding, and construction administration services to rehabilitate and extend Runway 15/33. Within the early phases of design, Kimley-Horn performed an extensive pavement condition analysis including a pavement coring program to fully understand the most economical approach for the rehabilitation. The rehabilitation of consists of a nominal 1" profile milling and a 2" overlay of P-401 asphalt. The extension component of the project occurs at the Runway 33 end, which is being 593 feet for the full width of 150 feet. During design, Kimley-Horn coordinated regularly with airport staff. Engagement with stakeholders, such as ATCT Chief, FAA, Airlines, and Airport Operations, was necessary when preparing the construction safety and phasing plan. With a very stringent schedule to meet the deadline for FAA grant application, Kimley-Horn successfully prepared the contract documents on-time and fully coordinated with PGD staff exceeding their expectations for quality and service.

FDOT Aviation and Spaceport Office Statewide Airfield Pavement Management Program - System Update

The State of Florida has more than 100 public airports that are vital to the Florida Economy, as well as the economy of the United States. These public airports range from small general aviation airports to large international hub airports. In 1992, FDOT implemented a Statewide Airfield Pavement Management Program (SAPMP) program to improve the knowledge of pavement conditions at public airports in the State System, identify maintenance's needs at individual airports, automate information management, and establish standards to address future needs. Kimley-Horn performed the 2010-2011 and 2013-2015, 2016-2018 updates to the SAPMP and was recently selected again to prepare the 2019-2021 update. Kimley-Horn updated and migrated the original mapping developed for the program to a GIS platform to allow use of GPS equipment in the field and for interface with other databases. The program is based upon procedures outlined in FAA Advisory Circular 150/5380-6C Guidelines and Procedures for Maintenance of Airport Pavements and ASTM D 5340 Standard Test Method for Airport Pavement Condition Surveys. Kimley-Horn utilized the United States Army Corps of Engineers (USACE) MicroPAVER to perform condition analysis, evaluate future pavement performance, develop performance curves, and determine ten year maintenance and rehabilitation programs for each airport which included projected costs based on unit costs researched and developed as part of the program. Individual reports were prepared for each airport, with summary reports being provided for each FDOT district and an overall statewide report for the FDOT Central Office.

DAB (Daytona Beach International Airport) Airspace Protection and Land Use Compatibility Zoning Code Refinement

Kimley-Horn is updating a section of the City of Daytona Beach Zoning Code to bring it up to date with both state and FAA regulations and guidance. The effort involves the review and refinement of the draft language concerning airspace protection and land use compatibility at the airport and how it affects the Daytona Speedway, participate in meetings, prepare appropriate mapping displaying certain zones requiring the submission of materials for a formal FAA review, and provide a record of meetings and discussions.

FDOT Central Office, Florida Statewide Aviation Economic Impact Study

Kimley-Horn led the AEIS update to quantify the economic impacts of Florida's public-use airports with support from EDR Group. As part of this effort, our team developed various survey instruments that are being administered at all 128 public-use airports and additional military aviation installations across the state. To augment the survey data, interviews were conducted with airport representatives to secure additional information for the study. In addition, tenant data and visitor spending at both commercial and GA airports was being collected through survey efforts. To evaluate the impacts from aviation-reliant businesses, Kimley-Horn captured where businesses own or lease aircraft, or where they are generally reliant on airports or aviation.

The survey and interview data was used to model the impacts using IMPLAN. Both a statewide report and individual airport profiles were developed as part of a communications toolkit. Our team also took the extra step to better tell the story of aviation through some creative case studies. These case studies include Miami International Airport's role in being the logistics gateway for the flower industry to the U.S. and beyond. Other case study examples include flight training, military, air cargo, aviation-related educational institutions, and emergency services such as fire, medical, and disaster response. This effort includes researching past statewide studies and individual airport studies.

One of the primary project goals for the Florida AEIS was to develop the findings by means of a conservative, defensible methodology, using the most current best practices for economic impact modeling and reporting. To accomplish this goal, Kimley-Horn completed a comprehensive data validation effort to ensure that employment numbers received during the survey effort were accurate, validating all employment figures through third party data sources. To remain consistent with the most current economic impact methodologies, Kimley-Horn updated the terminology used to report on the impact findings, helping make the report more user friendly and usable by the general public.

SRF Support and Davis Bacon Wage Reporting Requirements

SRF Support and Davis Bacon Wage Reporting Requirements

The Kimley-Horn team assigned to this project has substantial recent experience with FDEP SRF loan administration on several projects. Our expertise with SRF loan administration services includes assistance with Davis-Bacon Act compliance monitoring and reporting, SRF loan disbursement requests, project change order coordination, final disbursement request coordination, and FDEP audit assistance. Kimley-Horn is on a first name basis with the FDEP SRF program staff and are recognized as one of the State's most experienced firms with the SFR program.

The Kimley-Horn team understands the Davis-Bacon Act, which applies to federal contracts in excess of $2,000 for the construction, alteration, or repair of public buildings or public works. Over the years, our professionals have secured funding and provided consulting services for projects that required compliance with the Davis-Bacon Act and other federal requirements. On previously completed projects for which the Kimley-Horn team provided grant/funding administration and construction phase services, some of our responsibilities have included collecting and reviewing certified payrolls and completing interviews.

Plantation Bay Wastewater Treatment Facility (WWTF) Phase 1, Flagler County, FL

Kimley-Horn provided process design, construction administration services, and SRF loan administration assistance for the Class 1 reliability improvements and capacity expansion of the 0.475-MGD DAVCO-style Plantation Bay Wastewater Treatment Facility (WWTF). The project includes expansion to the existing biological treatment process, new tertiary filtration system, chlorine contact tank modifications, new reject storage tank, and headworks improvements. The project also includes construction of a new MCC building and associated electrical equipment. The WWTF process design will include the following enhancements: internal recycle pumps, piping, and flow meter; DO or ORP process control; separate positive displacement blower and controls for the digester; anoxic zone mixers; catwalk between the existing WWTF and the proposed WWTF; and second filtration unit and associated piping. Project services include data collection, construction plans and specifications preparation, bid administration, and SRF construction loan administration assistance. Kimley-Horn assisted the County with securing a $5.7-million SRF loan to fund construction of the WWTF expansion project. Additionally, Kimley-Horn was able to secure another $500,000 St. Johns River Water Management District REDI grant for this project.

CR 209 12-inch Force Main and Lift Station Construction, Wildwood, FL

This project included the conversion of the City's existing 40-HP, duplex CR 209 lift station to a new 80-HP triplex master lift station; new SCADA control panel; SCADA integration; new flow meter; new pressure transducer/transmitter; various electrical and control improvements; constructing a pretreatment screening structure; and constructing 16,500 feet of 12-inch force main and 9,300 feet of 16-force main from the CR 209 lift station to the City's WWTF. The new force main reduced the flows through an existing 6-inch force main, reduced pump operating times, and increased the long-term capacity and reliability of the wastewater collection system. The City financed a portion of this project through the FDEP Clean Water State Revolving Fund (SRF) loan program.

Dade City Lift Station 1B Rehabilitation, Dade City, FL

The project involved providing professional consulting services for the City's lift station rehabilitation project. The project consisted of rehabilitation and modifications to 24 existing sanitary sewer lift stations. Kimley-Horn's scope of services involved providing construction phase services and certifications, including: site inspections for all 24 lift stations; review of construction plans and specifications; coordination with the FDEP State Revolving Fund (SRF) Department; water monitoring and reporting in compliance with the Davis-Bacon Act compliance monitoring requirements; visits to the site and construction observation; review of record drawings and final documentation; and submission of FDEP permits. Owner direct purchasing saved Dade City $43,000 in taxes.

Davenport Water Main Replacement and Construction Services (Design-Bid-Build Method), Davenport, FL

The City of Davenport operates and maintains a water distribution system generally centered around the intersection of 17-92 and Davenport Boulevard. Many portions of the downtown distribution system are up to 100 years old and have reached the end of their usable life. Moreover, the pipes have shown significant tuberculation inside the pipe sections being repaired and their resulting flow path is significantly restricted. Several pipe repairs in the downtown area indicated this condition as portions of the pipe were cut out for repair.

This project involved the replacement of 80,000 linear feet of existing 2-inch to 12-inch water main east of West Boulevard, west of East Boulevard, north of South Boulevard, and south of North Boulevard. The new water main is being installed side by side with the existing water main via open trench methods, along with directional drilling at key road crossings and jack-and-bore across two railroad crossings. The existing residential and commercial service lines are being connected to the newly installed pipe with minimal disruption to the customer's service.

Through the design team's efforts, Kimley-Horn was able to reduce the overall pipe needed to just over 65,000 linear feet, which is a substantial reduction in the capital expense for the City. In addition, the new mains will support major transmission through downtown Davenport to support the current planned developments that will more than double the City's water demand over the coming decade. The design team was able to preserve large sections of the City's established oak trees and minimize restoration efforts using a careful, stepwise approach to the construction efforts while designing the pipeline replacement.

After completing the water main replacement design, Kimley-Horn was contracted to provide construction services for the project. These efforts are currently ongoing. The project also involved Florida Department of Environmental Protection (FDEP) State Revolving Fund (SRF) and requirements of Davis-Bacon and American Iron and Steel.

Ak-Chin Indian Community, Peters and Nall Road Improvements, Pinal County, AZ

Kimley-Horn provided final design and full construction management services for this project that reconstructed three miles of Peters and Nall Road from SR 347 to White and Parker Road. Kimley-Horn was responsible for assisting the Community with all aspects of federal funding reporting including compliance with Davis-Bacon Wages, employee interviews, and coordination with the Bureau of Indian Affairs (BIA). The proposed improvements included substantial subgrade remediation, three miles of roadway paving, box culvert extension, private irrigation improvements, new retention basins, landscaping, new street and pedestrian lighting, substantial adjacent property owner improvements including decorative sign replacement, and signing/pavement marking.

Support Services for Remediation

Support Services for Remediation

Our staff is experienced, well-versed in RCRA and CERCLA regulations governing hazardous waste in all of the 48 contiguous United States, and OSHA-certified to perform investigation on sites with hazardous chemicals. Kimley-Horn routinely provides environmental consulting services related to:

- Site Contamination Assessments
  - Sample collection and analysis for surface water, groundwater, and soil
  - Field chemical screening
  - Installation of groundwater monitoring wells
  - Hydrogeologic computer modeling
  - Contamination assessment reports
- Soil Remediation Design and Remediation Oversight
  - Technology evaluation/feasibility studies
  - Development of remediation plans and specifications
  - Onsite supervision of remediation activities
  - Remediation closure reports
- Groundwater Remediation Design
  - Technology evaluations/feasibility studies
  - Development of remediation plans and specifications
  - Onsite supervision of remediation
  - Remediation closure reports
- Regulatory Assistance
  - Permitting assistance
  - Evaluation of soil and groundwater cleanup levels
  - Assistance with public relations
- Asbestos Building Inspections
- Landfill Closure Designs and Reports

Resorts World Miami, Miami, FL

Kimley-Horn is providing site civil engineering, environmental, and traffic engineering services for the 14-acre Bayfront site that previously housed the Miami Herald newspaper at 1 Herald Plaza in Miami. The former Herald building was located along Biscayne Bay in downtown Miami and operated from the 1950s to 2010s. The site is in the State of Florida Brownfield Program and has bene subject to Voluntary Clean Tax Credits (VCTCs) since 2012. Kimley-Horn conducted extensive evaluation of soil and groundwater conditions as part of a Site Assessment Report (SAR). The work was conducted using both sonic drilling techniques and Direct Push Technology (DPT). Contaminants of concern include ammonia, arsenic, manganese, chlorinated solvents, petroleum hydrocarbons, and ammonia. Kimley-Horn provided observation

and reporting services during demolition of the Herald building and waste characterization and reporting of printing and building-related hazardous materials. This also included observation and reporting of closure of three petroleum tanks, one waste oil tank, and 10 ink tanks during demolition. Kimley-Horn prepared a Soil Management Plan (SMP) that was used during site demolition and closure activities. An additional SMP was prepared for the construction of three large concrete slabs as part of the Art Miami event and also for a temporary bus terminal to be constructed on the site. The site is currently under a groundwater monitoring program. Soil conditions will be closed subject to an engineering control. Currently, Kimley-Horn is working with DERM to identify a closure mechanism for groundwater that will include a groundwater use restriction.

South Florida Regional Transportation Authority, SFRTA Parcels 104-105, Miami-Dade, FL

The South Florida Regional Transportation Authority (SFRTA) requested Kimley-Horn to evaluate a chlorinated solvent plume on one of its parcels totaling over 1 acre in size in Miami, Florida. Contaminants of concern included tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride. The parameter concentrations ranged from below laboratory method detection limits (MDLs) to 32,900 ug/L and were confirmed at depths ranging from approximately 15 to 60 feet below land surface (bls). Kimley-Horn conducted site assessment using membrane interface probe (MIP), monitoring wells, and screening devices to define the extent of contamination. a

A Remedial Action Plan (RAP) was prepared, which utilized enhanced in-situ bioremediation to treat the source area groundwater. This strategy involved using emulsified zero-valent iron (eZVI) technology to address DNAPL, in concert with enhanced anaerobic bioremediation to address dissolved phase contaminants. The basic technical approach is summarized in the approved RAP, dated August 6, 2015. The RAP was prepared in accordance with Chapter 62-780.700, FAC. The design objective of the RAP was to reduce contaminant concentrations in the affected groundwater present at the site to below the NADCs set forth in Chapter 62-777, FAC to allow for conditional closure allowable under Chapter 62-780.680, F.A.C.

In April 2016, injection of remedial substrate was conducted using Renegade's Badger Injection Technology in four injection points (IP-1 – IP 4). For each injection point, a substrate solution was batch mixed in a 1,500-gallon polyethylene holding tank and injected using Renegade's patented injection technique. In accordance with the RAP, the substrate mixture at all injection points consisted of EDS-ER (Electron Donor Solution – Extended Release), Nutrimens bio-fermentation product, and KB-1 bioaugmentation culture. The mixture for IP-2 also included EZVI to address DNAPL contaminants. Substrate injection occurred from the bottom up, at three injection interval locations within each borehole. The injection intervals proposed in the RAP were 28 to 30 ft., 43 to 45 ft., and 58 to 60 ft. bls. Following injection completion, each borehole was grouted to the surface.

Post Active Remediation Monitoring (PARM) was initiated August 2016 and will continue for two more quarters into 2018. A reduction of contaminant mass of approximately 98 percent was obtained as a result of the remedial approach. At the conclusion of the last two rounds of PARM, Kimley-Horn intends to request conditional closure for the site.

Belle Glade State Municipal Airport, Environmental Contamination Assessment and Mediation Planning

The western section of the airfield is heavily contaminated with several organochlorine pesticides (OCPs), including toxaphene and dichloro–diphenyl–trichloroethane (DDT). Kimley-Horn helped secure funding from the Florida Department of Transportation (FDOT) to allow for completion of additional site assessment, soil pilot study, feasibility study, and remediation design at the facility. Kimley-Horn is currently in the process of completing a feasibility study evaluating several options for remediation of soil. The feasibility study includes evaluation of future use plans for the facility and integration of site future development with cleanup. Work is ongoing for this task.

Water Treatment Plant Emerging Contaminants (PFAS's) Treatment and Implementation, Stuart, FL

Kimley-Horn provided professional engineering services related to the implementation of a water treatment system for the removal of emerging contaminants, including perfluorinated chemicals (PFAS's), PFOA (Perfluorooctanoic Acid), and PFOS (Perfluorooctane Sulfonate) sampled and measured in the raw water supply for the City's drinking water wells. Contamination from a nearby public works facility that used and stored firefighting foams (AFFF) was determined to be the

source of the groundwater contamination, forcing the City to construct an advanced treatment system to remove these contaminants. The new water treatment system, which is designed to treat all of the City's raw water supply, has the distinction of being the first ion exchange project of its kind in Florida and the largest (up to 8.0 MGD treatment capacity) in the U.S. at the time of completion, removing PFASs to less than 10 parts per trillion (non-detect).

Dania Pointe Mixed-Use Development, Dania Beach, FL

With 1,600 linear feet of I-95 frontage, the 102-acre Dania Pointe site is one of South Florida's most visible destinations. At completion, the over $800-million center is expected to contain more than one million square feet of retail and restaurant space as well as one million square feet of Class A offices, 400 hotel rooms, 1,400 luxury apartments, and public event space. Ground was broken on the massive redevelopment project in early 2016. The initial portions of Dania Pointe will be constructed in two phases. Phase I will consist of a typical regional shopping center, while Phase II will be a mix of residential apartments, office, hotel, high-end retail tenants, and restaurants in a lifestyle setting. The first two phases of the project will also include two parking decks.

Kimley-Horn is providing a wide variety of consulting services for this project, including site planning; zoning and planning assistance, including creation of development guidelines for the102 acres; assistance with site and offsite approvals and entitlements; design and permitting of Florida's largest underground storm drainage system, including deep water injection wells and over five miles of underground exfiltration trench; design and permitting for relocation of 2,000 lineal feet of 72-inch culvert draining I-95; floodplain modeling and FEMA flood map revisions; preparation of onsite and offsite construction documents, including offsite roadway; design and permitting of an additional northbound lane to I-95 at the Stirling Road off ramp; filling operations for a four-acre lake; preparation of Opinions of Probable Costs (OPC); environmental services and remediation, including brownfield development; traffic modeling and simulation; FAA proximity and height permitting; landscape and hardscape architecture; deep dynamic compaction coordination; and construction phase services.

Ocala Water Resources Master Plan, Volume I and III Specification Revisions, Ocala, FL

Kimley-Horn assisted the City of Ocala in revising Volumes I and III of their current standard construction contract specifications. Volume I was comprised of the general conditions for construction while Volume III was comprised of the water, sewer, and reuse specifications. The revision associated with this project consisted of a review of the existing specifications within Volumes I and III, reformatting of the specifications to the SpecText format, and addition of requested sections to the specifications. Specifically, the City of Ocala has stated that Volume III did not adequately address paving, earthwork, rock removal, backfill, concrete work, and sink hole remediation that would typically be associated with utility construction projects, so Kimley-Horn included specifications for these sections in the SpecText format.

St. Johns Village Environmental Services

Kimley-Horn was retained to provide professional engineering and environmental services for the proposed redevelopment of this former commercial and residential development along the St Johns River. The team's scope included the following environmental services: Phase I and II Environmental Site Assessment (ESA) reports, Site assessment and completion of Site Assessment Report (SAR), Remediation design and completion of a Remedial Action Plan (RAP), Preparation of a Soil Management Plan used during construction on the property and preparation of a dewatering discharge permit with Jacksonville Electric Authority (JEA) to allow for discharge of contaminated groundwater into the sanitary sewer, Environmental testing and observation during construction, Assistance with Brownfield Area designation and negotiation of Brownfield Site Rehabilitation Agreement (BSRA) with the Florida Department of Environmental Protection (FDEP), Public outreach, and Hazardous building material survey.

Bridge

Bridge

McNab Road Over Cypress Creek (C-14) Bridge Replacement and Terra Mar Drive, Pompano Beach, FL

Kimley-Horn is currently serving the City of Pompano Beach to provide design and consulting services for two separate bridge projects within the City as part of the current G.O. Bond. The project at McNab Road includes the full replacement of the existing bridge and relocation of existing utilities. The proposed bridge will incorporate aesthetic features appropriate to the surrounding areas. Kimley- Horn is leading permitting of this project, including USCG, SFWMD, and Broward County. Improvements at Terra Mar Drive include repairs to the existing bridge and seawalls to address deterioration. The design at this location also includes upsizing the existing water main along Terra Mar Drive and incorporating aesthetic features. Our project team is providing structural, architectural, roadway, permitting, utility adjustment, and geotechnical services for both projects.

Atlantic Boulevard Bascule Bridge Improvements including Decorative Sails and Lighting, Pompano Beach, FL

Kimley-Horn served the City of Pompano Beach with CSA Architects and Burkhardt Construction to incorporate safety and aesthetic improvements to this 400-foot bascule bridge over the Intracoastal Waterway. Kimley-Horn designed a replacement traffic railing to improve safety and aesthetics, as well as an under-bridge walkway to improve pedestrian access to the water. The project involved the design and construction of enhancements to the bridge façade, tender house, traffic railings, lighting, large tensioned sails at each end of the bridge (four total) and computerized uplighting, artwork on bridge façades, land-based lighting, and a pedestrian esplanade under the bridge connecting restaurants and buildings from the south to the north. The design-build team was responsible for complete design, permitting, and coordination with FDOT. Kimley-Horn obtained all permits for the project through coordination with FDOT, USACE, USCG, FDEP, the City, and SFWMD. The project created a signature gateway within the City's Beach district.

SR 992/SW 152nd St. (Coral Reef Dr.) over the C-100 Canal, FDOT District Six

Kimley-Horn was responsible for the rehabilitation and retrofit of an existing 3-span, PC/PS concrete slab unit bridge crossing the C-100 Canal. The existing bridge utilized non-composite slab units placed side-by-side with an asphalt topping. Over the years, through milling and resurfacing operations, the asphalt thickness had increased 2-3 times the original maximum design thickness in several locations. In addition, differential movement between adjacent slab units resulted in full-depth longitudinal cracks in the asphalt along the length of the bridge causing distress in the asphalt and allowing rainwater and debris to seep through the bridge in multiple locations, increasing the frequency and cost of long-term maintenance. As part of the project, the bridge was converted to a composite bridge by removing the asphalt overlay and replacing it with a cast-in-place reinforced concrete topping slab. Reinforcing dowels were installed into the top of the existing slab units to ensure composite action. In addition, expansion joints were replaced at all supports, concrete traffic railings were reconstructed to the latest FDOT Standards, and new ADA compliant sidewalks with aluminum pedestrian railings were reconstructed along each side of the bridge.

CR 475 Bridge over Jumper Creek, Sumter County, FL

Kimley-Horn designed a new three-span bridge utilizing PC/PS Florida Slab Beams (FSBs) to replace the existing five-span, cast-in-place flat slab bridge. Improvements include milling and resurfacing, structural design, permitting, and construction phase services. Since FSBs were recently developed by FDOT and only available as Developmental Design Standards, close coordination with FDOT Central Office was required to obtain standards and specifications for use on this project.

Midway Road Bridge over North Fork of the St. Lucie River, FDOT District Four, St. Lucie County, FL

Kimley-Horn designed a new 3-span bridge over the St. Lucie River. The project involved the widening of an existing undivided two-lane roadway to a divided four-lane urban roadway. The new bridge utilizes precast/prestressed Florida-I beams with span lengths set to accommodate the future typical section. The bridge typical section allows for travel lanes, buffered bicycle lanes, and sidewalks/shared use paths. Phased construction will be used to allow for the removal of the existing bridge while maintaining existing traffic.

Glades Road Exit Ramp over Lake Worth Drainage District Canal, Florida's Turnpike Enterprise, Boca Raton

As part of Kimley-Horn's design services for the Turnpike All-Electronic Tolling 5A conversion from I-595 to south of the Lantana Toll Plaza, we designed a new two-lane northbound exit ramp structure over the Lake Worth Drainage District Canal and added a right-turn lane onto Glades Road. The bridge is a three-span continuous cast-in-place concrete flat slab supported on concrete pile bents with 18-inch precast prestressed concrete piles. Design services also included a retaining wall.

Flagler Memorial Bascule Bridge Replacement Design-Build Criteria Package and Construction Phase Services, FDOT District Four, West Palm Beach

Kimley-Horn developed design-build criteria package for replacement of the existing four-lane bascule bridge across the Intracoastal Waterway and subsequently provided post-design services during construction. Our team designed the approach roadways, drainage systems, and construction phasing traffic control plans to 90% and included concept development of signing/marking, signalization, lighting, structures and landscape plans. The scope also included extensive public involvement, permitting, and utility coordination efforts. The new bridge is 1,800 feet long (made shorter by the use of retaining walls at one end) and touches down at a new signalized intersection with Flagler Drive. The new bridge includes special traffic barriers, decorative pedestrian railings and light poles, and customized architectural and landscape features.

US 1/Jupiter Bascule Bridge Replacement, FDOT District Four, Jupiter

Kimley-Horn was retained by FDOT District Four to conduct a PD&E study for bascule bridge no. 930005 in Jupiter. Our team evaluated the following alternatives: 1) Bridge rehabilitation; 2) high-, mid-, or low-level replacement, and various alignment alternatives that include consideration for temporary bridge, full bridge closure, and phased construction with temporary traffic using the existing bridge. Each alternative evaluated bringing the bridge up to FDOT standards and includes options to accommodate pedestrian and bicyclists. The study effort also included a complex public involvement component and public hearing. Subsequent to the selection of the preferred alternative of a higher, wider bascule bridge with bike lanes and sidewalks, Kimley-Horn was selected by design-build firm constructing the new bridge to provide roadway design, lighting, and public involvement support.

8. RESUMES OF KEY PERSONNEL

Kimley-Horn understands that when you select a consultant, you are really choosing people who offer you technical expertise, extensive hands-on experience with similar projects, and a demonstrated record of quality and responsiveness that will make your project a success.

The Kimley-Horn team is led by ***Marwan Mufleh, P.E.,*** who will serve as project manager. Marwan has 33 years of highway design experience in South Florida. His principal areas of practice include project management, streetscape design, Complete Streets design, roadway design, drainage design, pavement marking, maintenance of traffic, and construction administration. Marwan has worked extensively on projects throughout South Florida, and has directed numerous projects for Pompano Beach, Delray Beach, Palm Beach County, Broward County, the Florida Department of Transportation, District Four, and several municipalities and CRAs.

Kimley-Horn recognizes the importance of establishing a proven staffing plan at the onset of the project. Our plan is structured to offer the highest level of responsiveness and personal service to each client we serve. We recognize that each project is uniquely different and as such will require a different team composition to effectively complete the project. The depth of services we offer the City of Pompano Beach from our local offices will likely serve every need you may have under this continuing engineering contract. However, in the event additional needs arise we have a multitude of services and professionals that can meet your every need from across the nation.

As indicated by the resumes included in this section, Kimley-Horn understands the value of assembling a strong project team and has strategically selected a team of experts with the ability to address any of the anticipated tasks that may arise from the scope of services. The resumes provided in this section highlight the qualifications and experience of our staff.

We believe our project team will be your greatest asset. Our project team is as critical to the project's success as the design approach. *The skill and dedication of the team assembled for this project has unmatched experience working in the City of Pompano Beach and possess a thorough understanding of project elements, from the design and permitting to final construction.*

Marwan Mufleh, P.E.

Project Manager; Roadway & Streetscape Design; Complete Street & ADA Plans

Relevant Experience

Pompano Beach Continuing Contract for Transportation Engineering Services for Various City Projects, Pompano Beach, FL — Project manager. The City of Pompano Beach CRA selected Kimley-Horn to provide transportation support services for the City of Pompano Beach and the Community Redevelopment Agency (CRA). Initial traffic engineering/transportation planning assignments include traffic engineering analysis support for a City-initiated land use plan amendment along the Atlantic Boulevard corridor to allow for residential/mixed-use density and improved walkability/connectivity. Duties included corridor operations analysis, transportation systems management/ geometric improvements, neighborhood protection and enhancement plans, and community outreach/workshops solely focused on transportation issues.

Dixie Highway GO Bond Project, Pompano Beach, FL — Project manager. Kimley-Horn was selected by the City of Pompano Beach to provide professional engineering services to assist with the final design and construction documents for the beautification Gateway elements of Atlantic Boulevard and Dixie Highway to revitalize the downtown area of Pompano. The Dixie Highway project limits are from McNab Road to Sample Road and Atlantic Boulevard from NW 6th Avenue to Cypress Road. This project is part of the City of Pompano Beach GO Bond program and includes beautification of the roadway to include paving, drainage improvements, sidewalks, lighting, parking, multiuse trails, landscaping, irrigation, and curbing. The City will use a Construction Manager at Risk (CMAR) as the delivery method for this project.

MLK Jr. Boulevard Improvements, Pompano Beach, FL — Kimley-Horn was a subconsultant to Keith and Associates Inc. to provide professional engineering design and related services to the City of Pompano Beach and the Pompano Beach CRA for roadway improvements along Martin Luther King Jr. Boulevard (a.k.a. Hammondville Road) between NW 31st Avenue (Turnpike Ramp) and Powerline Rd. (S.R. 845) in accordance with the Phase II "Educational Corridor" improvements. Marwan supervised a group of professionals to provide traffic analysis studies, signal modification design, maintenance of traffic plans, irrigation plans and provided assistance during the construction phase.

Wiles Road Design from Riverside Drive to Rock Island Road, Broward County, FL — Project manager for complete contract plans for the widening of Wiles Road to a 6-lane divided urban arterial from Riverside Drive to Rock Island Road. One of the major accomplishments of this segment's design was to work with all stakeholders to avoid issues related to private property impacts given the narrow corridor and proximity of private features. Another major accomplishment was an innovative drainage solution that added new outfalls through City owned property to an existing undersized drainage system to avoid reconstructing the entire Wiles Road system. We coordinated closely with the County to tackle issues related to the narrow areas of the corridor, including a balance between traffic lane, sidewalk and bike lane widths.

Wiles Road Design from Rock Island Road to US 441 (SR 7), Coral Springs, FL Project manager for the Kimley-Horn team selected by the Broward County Engineering Division to prepare complete contract plans for the reconstruction and widening of Wiles Road as a six-lane divided urban arterial from Rock Island Road to US 441 (SR 7). Broward County and FDOT are sharing in the cost of improvements which include drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, and detailed traffic control plans.

Las Olas Boulevard Corridor Improvements, Fort Lauderdale, FL — Project engineer. Kimley-Horn provided final design, evaluation, and due diligence services for this mixed-use project for the City of Fort Lauderdale Community Redevelopment

Special Qualifications

- Has 33 years of civil engineering experience
- Principal areas of practice include project management from the design concept stage through the construction administration phase, roadway design, streetscape, Complete Streets, roadway lane re-purposing, traffic calming, neighborhood revitalization, drainage design, innovative pavement design, pavement marking, and maintenance of traffic
- Served as project manager on numerous successful highway design and construction projects for Palm Beach, Broward County and various municipalities and CRAs
- Served as project manager on Delray Beach's largest roadway and streetscape project (Federal Highway Enhancements and lane elimination, $14 million construction cost)

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Texas, Arlington, 1986
- Professional Engineer in Florida, #45329, March 27, 1992
- American Society of Civil Engineers (ASCE)
- American Society of Highway Engineers (ASHE)
- Florida Engineering Society

Marwan Mufleh, P.E.

Relevant Experience (continued)

Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage; active park and plaza areas; and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a Complete Streets design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of Las Olas Boulevard. Kimley-Horn also provided the initial site civil engineering design, roadway design, permitting coordination, stormwater, utility, franchise utility coordination, and other services.

Las Olas Boulevard and Colee Hammock Neighborhood Traffic Calming, Fort Lauderdale, FL — Project manager. Kimley-Horn assisted the City with preliminary designs for the reconfiguration of Las Olas Boulevard, which resulted in the City implementing a pilot project for temporary lane elimination and buffered bike lanes. Our services also addressed traffic circulation, safety, multimodal mobility, and quality-of-life issues along the Las Olas Boulevard corridor (from just west of the Himmarshee Canal to the Intracoastal Waterway Bridge). The project also included a traffic calming study for the Colee Hammock neighborhood. Improvements included enhanced crosswalks, raised intersection, and warning lights for improved safety. For Colee Hammock, our team provided plans for roadway design, signing and pavement markings, lighting improvements, and permitting application preparation. Kimley-Horn also provided post-design construction services.

SR A1A Complete Streets Design, Hollywood, FL — Project manager for a feasibility study to incorporate Complete Streets elements within the corridor between Hollywood Boulevard and Sheridan Street. The traffic study considered alternatives including lane elimination and roadway reconfiguration. Because SR A1A is a state road, our team coordinated extensively with FDOT District Four for design approvals. The roadway plans include a reduction of speed, improving safety for vehicles, pedestrians, and bicyclists; wider sidewalks, improved street furniture, landscaping, and signage. The team also provided traffic signal analyses, driveway access reviews, emergency vehicle access reviews, meetings and coordination, and permitting services. Our team designed real world mock ups of selected alternatives for sidewalk pavers and decorative street lights for the public's input before final design.

Delray Beach CRA Federal Highway (US 1) Interim and Final Enhancements, Delray Beach, FL — Project manager. This multi-phased project included a study and conceptual design, temporary implementation of the design for a trial period and final design of the permanent improvements. Intersections were redesigned to reduce pavement crossing width, minimize turn lanes, emphasize pedestrian crossings and modify signal timing to improve the pedestrian and downtown environment. Special emphasis was placed on providing an inviting pedestrian experience along retail businesses and providing on-street parking. Improvements include brick paved intersections, introduction of curbless streets along NE 1st Avenue, reconstruction of Boca Raton Road with an inverted crown roadway with wider sidewalks and on-street parking.

Lowson Boulevard Roadway Improvements, Delray, FL — Project manager. Kimley-Horn was selected by the City of Delray Beach to provide professional engineering services to assist with the initial design and final design of the roadway improvements to Lowson Boulevard between Dover Road and S.E. 5th Avenue. The project included shared-use paths for pedestrians and cyclists and other improvements for a 2.5-mile segment of the roadway. The project was partially funded through the FDOT LAP program. In addition, the project included intensive public involvement, coordination with TPA and FDOT, shared-use paths, paving and drainage improvements, curbing, signing and pavement marking, two railroad at-grade crossings, signal modifications, and lighting improvements.

5th Avenue South Bikeway and Pedestrian Trail, Lake Worth, FL — Project manager. Kimley-Horn provided services to improve pedestrian and bicycle access for a multiuse path on 5th Avenue South and striping bike lanes on B and E streets between Lake Avenue South and 6th Avenue South. Our scope included final engineering design for paving, grading, landscape, hardscape, irrigation, signage, and striping for the project. The project was LAP funded by FDOT and followed LAP guidelines.

Dixie Highway/21st Avenue Corridor Redesign Concept and Mobility Study, Hollywood, FL — Project engineer for the Kimley-Horn team that prepared a Redesign Concept Study for the Dixie Highway and 21st Avenue corridor throughout Hollywood between Pembroke Road and Sheridan Street. A vision for a "transit-ready corridor" along the FEC Railroad was created by designing Complete Streets solutions in anticipation of re-establishing passenger rail service through seamless integration of an anticipated Tri-Rail Coastal Link station. The Complete Streets approach recommended in this study includes a "road diet" lane reduction to repurpose excess automobile capacity for bicyclist, pedestrian, and transit improvements. In addition, the Complete Streets approach will establish a transit-ready corridor for seamless integration of an anticipated Tri-Rail Coastal Link station along the Florida East Coast (FEC) Railroad.

Russell Barnes, P.E.

Principal-in-Charge

Relevant Experience

City of Lauderhill Miscellaneous General Civil Engineering Services, Lauderhill, FL — Principal-in-charge for Kimley-Horn's ongoing contract with the City of Lauderhill. One of the primary projects under this contract involves improvements to Inverrary Boulevard, which is a main spine through the City. Kimley-Horn recently provided master planning services for this section of roadway, including drainage improvements, design for the addition of bike lanes, striping, and meeting ADA compliance for sidewalks. Kimley-Horn team is producing design and construction plans for these improvements to Inverrary Boulevard.

Town Engineering Services, Miami Lakes, FL — Principal-in-charge who served the Town of Miami Lakes as their initial Town Engineer. Miami Lakes has contracted with our firm to provide all aspects of engineering associated with the Town. Kimley-Horn provided support in a wide range of areas to assess the conditions of the existing infrastructure. Provided Miami Lakes with an assessment of the conditions of the roads, sidewalks, signing, and striping within the Town limits. The recommendations from this assessment included a prioritization of the improvements, along with a five-year capital improvements program (CIP). To facilitate implementing these improvements, we provided construction documents and obtained bids from contractors to implement the projects. Other achievements include obtaining a grant from the Metropolitan Planning Organization to prepare a Transportation Master Plan. This master plan will provide Miami Lakes with recommendations to improve transportation circulation, as well as pedestrian mobility.

Palmetto Bay General Consulting Services, Palmetto Bay, FL — Principal-in-charge for the development of a Stormwater Master Plan for the Village of Palmetto Bay to address flood protection activities for its residents, as well as protecting the environmental quality of its many canals. Also developed a Stormwater Management Report to assist the Village in creating a stormwater utility. The project tasks primarily consisted of data compilation, development of a Stormwater Master Plan, development of a Stormwater Management Report, and assisting the Village in joining the National Flood Insurance Program (NFIP).

Lincoln Road District Improvements, Miami Beach, FL — Principal-in-charge. This is an ongoing project with City of Miami Beach for the redevelopment of Lincoln Road Pedestrian Mall. The mall is being redeveloped between Lenox avenue to Washington Avenue. The design included water features, streetscape, and infrastructure improvements. Kimley-Horn is currently providing civil engineering, permitting, traffic signal modifications, and civil engineering design services for this project. This project includes the replacement of 8-inch sewer main, 12-inch water main, 24-inch storm pipe, and 30-inch force main along Meridian Avenue.

Black Creek Trail Segment A Construction Documents, Miami-Dade County, FL Principal-in-charge. Kimley-Horn prepared construction documents for Black Creek Trail, Segment A, which is a 9.1-mile, multi-use greenway trail in southern Miami-Dade County. Our client was the Miami-Dade Park and Recreation Department (MDPR). Kimley-Horn was responsible for all phases of this project ranging from programming and schematic design through construction phase services. We assisted MDPR in identifying potential trail alignments, amenities, trailhead locations, and neighborhood connections. We coordinated with numerous stakeholder groups, including utilities, local governments, and permitting agencies. Our design incorporated a non-motorized trail and linear park design within the Black Creek Canal (C-1) right-of-way owned by the South Florida Water Management District (SFWMD).

Special Qualifications

- Has 32 years of civil engineering experience
- Municipal engineering experience includes the evaluation of sewer systems and in sewer rehabilitation design
- Civil engineering experience includes transportation, roadway design, sanitary sewer studies and design, corridor location studies, drainage, and intersection design
- Serves numerous South Florida municipalities, including the cities of Miami, Miami Beach, Miami Lakes, South Miami, and the Town of Bay Harbor Islands

Professional Credentials

- Bachelor of Science, Civil Engineering, North Carolina State University, 1989
- Professional Engineer in Florida, #48592, February 1, 1994
- American Society of Civil Engineers (ASCE)
- Institute of Transportation Engineers (ITE)

Russell Barnes, P.E.

Relevant Experience (continued)

Martin Luther King (MLK) Boulevard for Boynton Beach Community Redevelopment Agency (CRA), Boynton Beach, FL — Project manager. Kimley-Horn provided the initial planning and design services for MLK Boulevard between Seacrest Boulevard and US 1. This section of MLK Boulevard is currently a two-lane roadway with parallel parking along both sides. The roadway is somewhat limited as it relates to pedestrian features, such as wide sidewalks and hardscape elements. There are no shade trees along the corridor and very limited additional landscaping. The plans for this section of roadway include the reconstruction of the entire roadway with dedicated parking, landscaping, wider sidewalks, and more pedestrian features.

Miami Lakes Downtown Phase I and II, and Lake Patricia Roadway Drainage Improvement Projects, Miami Lakes, FL — Principal-in-charge. Kimley-Horn was involved with the design and permitting services to implement a large roadway and drainage improvement project located in Downtown Miami Lakes. The project area consisted of Bull Run Road from NW 67th Avenue south to Ludlum Road and Miami Lakeway North from NW 67th Avenue to Miami Lakes Drive. It also included Main Street and Meadow Walk from Bull Run to Miami Lakeway North. The capital project included approximately one mile of roadway restoration/resurfacing and drainage improvements in residential/business areas, curbing and sidewalk improvements, a new outfall pipe, swale restoration, signing and pavement markings, and site restoration. The drainage improvements consisted of approximately 3,000 linear feet of exfiltration trench, approximately 2,500 linear feet of HDPE piping, approximately 40 drainage structures and one outfall structure and headwall. Kimley-Horn also provided construction phase services to expedite the project, confirm the project was built in accordance with the design plans, and to minimize impacts to the community during construction.

OB Johnson Park, Hallandale Beach, FL — Principal for master planning, landscape architecture, engineering design and permitting services, as well as construction observation and administration for this 6.4-acre park. The park included a 42,000 SF multigenerational facility that included a teen center, indoor basketball courts, after school and senior programming, exercise room, administrative offices, and other accessory uses for computer and dance classes, food distribution, and other programming for all ages. The exterior park amenities included a walking trail, playground, tennis courts, a field house, and a football/soccer field. Additionally, the park improvements included a centrally located surface parking lot, site infrastructure and landscaping.

Optimist Park, Miami Lakes, FL — Principal-in-charge. The Town of Miami Lakes Optimist Park improvements consisted of grant funded improvements identified for Miami Lakes Park as part of the Florida Recreation Development Assistance Program (FRDAP) and land and water grants. The park improvements included the picnic facilities, including two picnic pavilions, a bike path with pathway lighting, a sailboat launch, a fishing pier, light poles, landscaping and irrigation, the renovation of the existing restrooms, resurfacing of the parking lot, a canoe put-in, a water access trail, and renovations to the baseball field, soccer field, and softball field.

Barton Boulevard Streetscape, Rockledge, FL — Project manager for this $4.2-million facelift for two miles of Barton Boulevard, from US 1 on the east to Fiske Boulevard on the west. Kimley-Horn provided design services to improve traffic flow, add new decorative lighting and landscaping, contain a landscape median, improve pedestrian movements with new sidewalks and bike paths, upgrade drainage and stormwater management, install new mast arm traffic lights, add new infrastructure, and beautify the heart of the Redevelopment district. Kimley-Horn also worked with a number of agencies, such as the Florida Department of Transportation (FDOT), St. Johns River Water Management District, and the FEC Railway. In addition, the major intersection of US 1 and Barton Boulevard was improved as part of a multi-million dollar FDOT road widening project. The City and CRA have contributed $1.5 million dollars for project enhancements which included pedway, landscaping, lighting, and wayside stations.

Boynton Beach Boulevard Extension and Promenade, Boynton Beach, FL — Project manager for the extension of Boynton Beach Boulevard to the Intracoastal Waterway and the creation of a boardwalk along the water. Involved in the planning, design, coordination, and plans production of this streetscape project funded by the City of Boynton Beach Community Redevelopment Agency. The project included extensive environmental permitting, utility coordination for future development, and traffic calming measures. The scope of services included the design of the roadway, utilities (including water, sewer, drainage, and electric), the layout and design of a 500-foot promenade/boardwalk, and 1,300 feet of riverwalk on the Intracoastal. The firm teamed with Burkhardt Construction, Inc., on this design/build project.

Robert Joel, P.E.

QA/QC Manager

Relevant Experience

Alachua County Engineering Services for Miscellaneous Transportation Itemized Projects >$2 Million, Alachua County, FL — Quality Control Manager. Kimley-Horn was retained to provide new roadway design and/or studies for roadway projects, preparation of engineering documents, and design procedures, repair, resurfacing, and rehabilitation projects, construction engineering inspection services (CEI), site design for County facilities as well as associated activities. Such activities may include new roadway design for arterial and collector roads, signalization, intersection improvements, the design of open and closed drainage systems, utility design, utility relocation plans, maintenance of traffic plans, bridge design, structural design, railroad crossings, FDOT permits, stormwater permits, environmental permits, traffic engineering applications, minor traffic operations improvements, and other appurtenances.

Lake Worth Neighborhood Road Program Year 1, Year 2, and Year 3, Lake Worth, FL — Quality control manager on the team that provided the City of Lake Worth with civil engineering services consisting of roadway design and drainage design. The effort focused mainly on pavement rehabilitation on roadways with the lowest pavement condition index. In addition to pavement rehabilitation, Kimley-Horn designed new catch basins, additional traffic calming measures, and ADA compliant sidewalk routes to provide continuity in the neighborhood. Tasks include data collection, utility coordination, development of construction documents, bidding assistance, and observation during construction. Lake Worth Neighborhood Road Program Year 3 is still in design.

Okeechobee Road (SR 25) from East of NW 87 Ave to NW 79 Ave, FDOT District Six — Quality control manager for final design services for the reconstruction of a ¾-mile section of Okeechobee Road in Miami-Dade County. Services include widening the existing road to 4 lanes in each direction; widening the NW 79th Avenue Bridge over the Miami (C-6) Canal; intersection modifications at NW 95th Street and Frontage Road; relocation of an existing BJs Wholesale Club entrance and addition of a new free-flow right-turn lane; and new access from the Frontage Road to westbound Okeechobee Road. Kimley-Horn is also responsible for all permitting; structural design; drainage design; signing and marking; signalization; lighting design; ITS system design; and landscaping along the corridor.

Lakewood Ranch Boulevard Extension and Water Main Extension, Sarasota, FL Quality assurance/quality control reviewer for design and construction of a new roadway corridor from the southern village boundary of the Lakewood Ranch Stewardship District to Fruitville Road. The four-lane divided closed drainage roadway includes 5-foot bicycle lanes, 6- to 8-foot sidewalks on both sides of the corridor, lighting, utility improvements, and water quality pond sites. Distinctive aspects of this project include the design of 2 two-lane roundabouts to improve circulation, a new future roadway connection to Richardson Road, landscaping enhancements, and decorative retaining wall system along the existing Main C channel. This project was fully modeled in 3D with FDOT SS4.

Modern Roundabout Improvement Design / PD&E for US 41 and Gulfstream, FDOT District One — Quality Control Manager. Kimley-Horn performed engineering services for the state's first State-Wide Acceleration and Transformation (SWAT) project for the multi-lane roundabout. Designated as a SWAT project, the PD&E and Design efforts overlap to reduce schedule and streamline efficiency. This project included full reconstruction of the intersection to a roundabout configuration, pedestrian signals, lighting, landscape, ADA and drainage improvements. This is the first partial 3 lane roundabout in the state and due to its complexity an emphasis has been placed on

Special Qualifications

- Has 40 years of roadway design and maintenance of traffic experience in Florida, North Carolina, South Carolina, New York, New Jersey, and Puerto Rico
- He has served as engineer of record and project manager for dozens of transportation improvements ranging from resurfacing, restoration, and rehabilitation (RRR) projects to large-scale interstate design and interchange replacements
- Experience also includes QC reviews for stormwater/drainage and safety projects, as well as field work
- Has worked extensively in FDOT Districts One, Two, Five, and Seven
- Certified in advanced traffic control, specifications, and long-range estimate preparation with FDOT

Professional Credentials

- Bachelor of Science, Civil Engineering Technology, Roger Williams University, 1979
- Professional Engineer in Florida #52479, February 13, 1998

Robert Joel, P.E.

Relevant Experience (continued)

public involvement for this project. Design improvements for this constrained urban intersection addressed multi-modal transportation, pedestrian connectivity/safety enhancements and balanced roundabout performance criteria such as fastest path analysis and design vehicle movements. Due to high pedestrian volumes FDOT is implementing the use of High Intensity Activated Crosswalks or Hawk signals.

Legacy Trail Extension Design, Sarasota County, FL — Quality Assurance/Quality Control Reviewer. Kimley-Horn is providing trail design and related engineering and landscape architectural services for the 8.9-mile Legacy Trail Extension project from Culverhouse Nature Park to Payne Park, as well as the 4.8-mile North Port Connector trail from the east end of pavement on Forbes Trail to Warm Mineral Springs park. For these two segments, Kimley-Horn is providing trail design and related civil engineering, structural/bridge engineering, bridge inspection, planning/landscape architecture, environmental assessment/permitting, stormwater management, utilities infrastructure, communication system, and community engagement services.

St. Petersburg Pier Approach Design, St. Petersburg, FL — Quality Control Manager. Kimley-Horn is currently providing professional services for the St. Petersburg Pier Approach project. This project consists of the redevelopment of the area between the new proposed Pier and the Downtown Core of Beach Drive. Professional services being provided include site civil engineering, stormwater design and permitting, utility design and permitting, transportation engineering, landscape architecture, parking study, structural engineering, and environmental services.

US 41/SR 45 Resurfacing from North of 15th Avenue South to South of Bullfrog Creek Bridge, FDOT District Seven Quality control manager for 8.5 miles of milling and resurfacing of a four-lane divided principal arterial roadway thorough the Gibsonton, Ruskin, and Apollo Beach industrial and residential communities. The design for this corridor includes upgrading the signalized intersection at Symmes Road, adding back plates for all signalized intersections, adding sidewalk and ADA compliant bus landing pads, and providing bike lanes throughout the corridor. Due to high truck traffic traveling to and from I-75 to TECO Big Bend power plant and Mosaic, the US 41 and Big Bend Road intersection will be reconstructed from asphalt to concrete pavement. A detailed Level II traffic control plan was developed for the Big Bend intersection reconstruction that takes into consideration the concrete joint layout and maintaining open travel lanes during all phases of construction. Other improvements include pavement cross slope correction at superelevated curves, correcting areas with limited sight distance, drainage improvements, environmental permitting, structural analysis, signing and pavement marking, incorporating ITS facilities, reviewing crash data for safety improvements related to access management, utility relocation, and coordination will Hillsborough County's Big Bend Road widening project.

CR 484 Widening, Ocala, FL — Project Engineer. Kimley-Horn is providing design, permitting and bidding assistance services for the widening of CR 484 in Marion County. This project will widen and reconstruct CR 484 from Marion Oaks Pass to Marion Oaks Course and include two new signalized intersections at Florida Crossroads Commerce Park Road and SW 49th Court Road. The primary objective of this project is to widen CR 484 from an existing two-lane undivided roadway to a 4-lane divided roadway to support future traffic and a future Industrial Park as part of a Future Job Growth Infrastructure Grant Agreement with the State of Florida Department of Economic Opportunity (DEO).

West Dearborn Street and South McCall Road Improvements, Englewood, FL — Project engineer. Kimley-Horn was retained by Sarasota County to complete the West Dearborn Street and South McCall Road improvements project. This project consists of the reconstruction of the downtown Englewood corridor along West Dearborn Street from Indiana Avenue to Old Englewood Road. This multi-faceted project included heavy public involvement and visioning which was aided by Kimley-Horn's fly through and graphics presentations outlining concepts and developing the visions based on public input. The project included the addition of more than 60 new parking spaces and the conversion of existing parking to pervious parking fields. In addition, landscape, hardscape, lighting, and wayfinding signing were included as part of the project. A gateway feature which spans the roadway was custom designed and included to establish the sense of place when users arrive along the corridor. Kimley-Horn also designed over a mile of retrofitted drainage improvements along South McCall Road. The South McCall Road area of Englewood routinely floods, threatening not only community mobility but existing homes along the corridor. Kimley-Horn modeled the improvements and cut them into the County's coastal fringe model. These improvements, once constructed, will significantly lower the peak flooding stages throughout the corridor, as much as a foot in some locations.

John Potts, P.E.

QA/QC Manager

Relevant Experience

12 MGD Lime Softening Water Treatment Plant, Deerfield Beach, FL — Project engineer for design of a 12-MGD lime softening water treatment plant in Deerfield Beach. This facility was designed to replace this City's existing water treatment plant and therefore included raw water supply, treatment, sludge handling, high service pumping, and ground storage.

42-Inch/48-Inch Force Main Emergency Response Plan (ERP), West Palm Beach, FL — Project engineer. The City of West Palm Beach identified a need to create a plan that would serve as a guide in the event the City needed to respond to a break of their system's largest force main. The force main currently transmits up to 29 MGD of wastewater from the Town of Palm Beach and the City of West Palm Beach to the East Central Regional Treatment Plant. The plan being developed identifies roles and responsibilities for City staff to provide a quick and efficient response to a variety of failure scenarios.

ABACOA Wellhead Construction, Jupiter, FL — Project manager for construction phase services for eight new wellheads in the ABACOA development. This project included supervisory control modifications, as well as implementing radio frequency telemetry.

Amil Gate Water Control Structure, Jupiter, FL — As a consultant to the Jupiter Water Department on the Salinity Barrier Project, Kimley-Horn designed a 450-cfs Amil Gate water control structure on Sims Creek. The structure featured a reinforced concrete foundation with steel sheetpile wingwalls, downstream erosion protection, and a floating trash barrier.

Brackish Water Reverse Osmosis Water Treatment Plant Design/Build, Town of Jupiter Island, FL — Project manager and project director for a program that involved preliminary planning, water withdrawal permitting, well construction, concentrate discharge permitting, water plant basis of design documents, construction of an ocean outfall for concentrate disposal, water plant construction, and water plant start-up. This program encompassed approximately 5 years and resulted in a reverse osmosis water treatment facility with a production capacity of 2.0 MGD and expandable to a production of capacity of 4.0 MGD. Two water supply wells were constructed, each approximately 1,500 feet deep and each capable of producing 1,750 gpm of brackish groundwater. This element of the program also included equipment and disposal of water produced during well drilling and development since the brackish wells were located within the existing surficial, fresh water aquifer wellfield. The concentrate discharge element of this program involved examination of a number of surface water discharge alternatives with the ultimate discharge location being approximately 1,500 feet offshore in the Atlantic Ocean. Following acquisition of a permit for concentrate discharge this program included constructing the outfall piping using horizontal drilling techniques. Basis of design documents were prepared for the water treatment plant and construction was procured using a design/build process. We served as the owner's representative throughout the construction and start-up phases.

Centrepark - West Palm Beach, Florida, West Palm Beach, FL — Project engineer for the Kimley-Horn team that was responsible for the preparation of the traffic and air quality portions of the application for development approval for Centrepark, a 40-acre mixed-use project near downtown West Palm Beach.

Special Qualifications

- More than 40 years of water treatment plant design and utility system design, operation, and start-up experience
- Recognized as one of the country's leading water experts, specifically in the field of advanced water treatment
- Served as project director of one of the largest operating brackish water reverse osmosis plants in the country
- Served for more than 17 years on board of directors for the American Membrane Technology Association; Chairman of the American Water Works Association Desalting Committee for three years; board member and founding member of the Southeast Desalting Association

Professional Credentials

- Bachelor of Science, Mechanical Engineering, University of South Alabama, 1972
- Professional Engineer in Florida, #22881, July 13, 1979
- Professional Engineer in Louisiana, #18625, January 1, 1980
- American Membrane Technology Association
- American Water Works Association (AWWA)
- Florida Engineering Society
- Southeast Desalting Association

John Potts, P.E.

Relevant Experience (continued)

City of Coconut Creek Continuing Engineering Services, Coconut Creek, FL — Project engineer. Kimley-Horn has been serving the City of Coconut Creek on various projects for more than 10 years. In 2008, we were selected for an on-call continuing engineering services contract. Projects under this professional services contract completed to date include:

- ***Sample Road Force Main Valve.*** Kimley-Horn evaluated the force main system north of Sample Road. The force main along Lyons Road had only one valve between Sample Road and Hillsboro Boulevard, which limited the City's ability in the event of an emergency to divert wastewater flows west through any of their four existing interconnects to their force main along SR 7 (US 441). The City needed greater operating flexibility within the force main system through the identification of the best locations to install isolation valves. Kimley-Horn also made repair and/or replacement and prioritization recommendations for inoperable isolation valves to provide the greatest outcome for the current system's operation.

Champagne Farm Water System Preliminary Design Report (PDR), Wildwood, FL — Project engineer. Under our continuing civil engineering services contract with the City of Wildwood, Kimley-Horn provided engineering design, analysis, and water system modeling for the City of Wildwood's water distribution system. The project included a development, calibration, and hydraulic analysis of the entire City's water distribution system (approximately 50 square miles) using WaterGEMS software. In addition, a preliminary engineering design report for the Champagne Farm water treatment facility (using a lower Floridan aquifer water source) was prepared. Preliminary design and construction cost estimates were prepared for recommended system improvements. The modeling software used included WaterCAD and Infowater.

Cooper City Sports Complex, Phase 2, Cooper City, FL — Project manager for the mitigation of extensive flooding to sports fields as well as principal-in-charge for the design of the master site plan for Phase 2 of this 23-acre recreational park. Services performed include the review of existing conditions, evaluation of the drainage canals, and determined that during rainfall events, the canals backed up, forcing the park to retain excessive amounts of stormwater. Modifications to an adjacent water control structure were recommended to resolve the flooding problem.

Countess De Hoernle Park Value Engineering (VE) Services, Boca Raton, FL — Project engineer. The Greater Boca Raton Beach and Park District selected Kimley-Horn and their professional estimator subconsultant to perform an independent cost evaluation of the project being designed by the City's consultant and to perform a VE analysis of the design performed to date. The VE study was based on of the review of the 60 percent plans and specifications for the proposed eight athletic fields and a two-building complex facility. The VE study identified that the project, as currently designed, was several million dollars over budget and that proposed VE alternatives totaled savings of up to $6 million (with changes ranging from site drainage to building consolidation) that would provide the needed facilities at a cost that meets the available budget. The project was redesigned to include many of the recommended changes.

Country Club Ranches Water and Reclaimed Water Main Feasibility Report, Miramar, FL — Project engineer. Kimley-Horn provide engineering services associated with evaluating the feasibility of implementing a new water and reclaimed water distribution system throughout the Country Club Ranches neighborhood located in the City of Miramar. Country Club Ranches is an existing residential community generally bounded by Miramar Parkway to the north, Flamingo Road to the east, Florida Turnpike/Homestead Extension and SW 48th Court to the south, and SW 148th Avenue to the west. The properties are primarily served by private wells for water supply and septic tanks for wastewater discharge. The intent of the project was to research the feasibility of providing the residential area with water and reclaimed water distribution systems connected to the City of Miramar's water and reclaimed water supplies. The feasibility report includes a preliminary water and reclaimed water schematic designs, opinions of probable construction cost, and estimated construction schedules. The residential area includes a network of canals and a mixture of paved and unpaved roadways that impacted the water and reclaimed water distribution system layout requiring extensive property ownership research for potential land acquisition and development of utility easements as well as permitting agency coordination.

Ed Grady

QA/QC Manager; Inspection Construction Administration

Relevant Experience

Auburn Park, Boynton Beach, FL — Construction observer for the Kimley-Horn team responsible for the provision of civil engineering design and site plan support services, regulatory agency permitting assistance, engineering inspection, and construction phase services for the development of 23 single-family residential sites in unincorporated Palm Beach County. Permitting approvals were required from the Palm Beach County Land Development Division for offsite roadway and drainage improvements; pedestrian walks within the Lawrence Road right-of-way; and the drainage connection from Lawrence Road to the site. On-site permitting included a land development permit for the construction of private streets, entrance road, drainage retention areas and infrastructure, and the amenity area. Kimley-Horn also submitted permit applications to Palm Beach County's Environmental Resource Management Department for lake excavation and the Water Utilities Department for potable water and sewer infrastructure.

Abbington, Palm Beach County, FL — Construction observer. Kimley-Horn provided civil design, permitting, and construction phase services for this development in unincorporated Palm Beach County. The single-family residential community contains 55, zero-lot-line home sites, a lake, pool, and cabana. Kimley-Horn's tasks included the provision of permitting assistance to obtain approvals from the Palm Beach County Land Development Division and other departments for offsite roadway and drainage improvements; a turn lane extension on Hypoluxo Road; pedestrian walks within the Hypoluxo Road right-of-way; and the installation of a guardrail adjacent to Lake Worth Drainage District (LWDD) E-3 canal. On-site permits included a land development permit for the construction of private streets, a divided entrance road, lake and drainage infrastructure, and an amenity area. Kimley-Horn submitted permit applications to Palm Beach County's Environmental Resource Management Department for the lake excavation and the Water Utilities Department for potable water and sewer infrastructure. Kimley-Horn also assisted with permitting through other agencies to include the LWDD for on-site drainage and connection to the E-3 canal, installation of a guardrail near the E-3 canal, improvements to the E-3 canal right-of-way, and the dedication of additional right-of-way for the E-3 canal, as well as the South Florida Water Management District (SFWMD) for Environmental Resource and Water Use permits.

Boynton Beach Gateway Enhancements and Welcome Signage, Boynton Beach, FL — Team member for the design and installation of gateway entrance signs on US 1 at key locations in Boynton Beach.

City of Fort Lauderdale, Las Olas Boulevard Corridor Improvements, Fort Lauderdale, FL — Construction observer. Kimley-Horn is providing preliminary design, evaluation, and due diligence services for this mixed-use project for the City of Fort Lauderdale Community Redevelopment Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage; active park and plaza areas; and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a "Complete Streets" design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of Las Olas Boulevard. The design of Oceanside Plaza includes space for special events such as festivals and concerts; play areas for children; and a convenient porte-cochere drop off. Kimley-Horn is providing the initial site civil engineering design, roadway design, permitting coordination, stormwater, utility, franchise utility coordination, and other services.

Special Qualifications

- Construction services manager with more than 36 years of experience in land development and roadway construction
- Expertise in the fields of transportation, water and sanitary sewer transmission lines, stormwater, concrete construction, roadway and site development
- Proven ability to manage multiple active construction projects
- Performs other engineering tasks such as cost estimates, quantity take-offs, specifications, constructability reviews, and construction administration

Professional Credentials

- Bachelor of Science, Civil Engineering Technology, Thomas Edison State College, 2012

Ed Grady

Relevant Experience (continued)

FAU Florida Atlantic Boulevard Northern Four Lane Design and Permitting, Boca Raton Campus, Boca Raton, FL — Team member for roadway design (including vertical alignment, cross sections, pavement design, grading), drainage design, reclaimed water main, utility relocation, and erosion and sedimentation control. Assisted the project manager with coordination with FAU, Palm Beach State College, the Research and Development Park at FAU, and the City of Boca Raton. Performed construction phase services for the project, including attending and participating in owner/contractor construction meetings, shop drawing review, responses to requests for information, issuing any necessary plan changes and construction change directions, field reviews for all stages of construction, substantial and final completion walkthroughs and punch lists, review of contractor change orders, and other services.

Peggy Adams Redevelopment, West Palm Beach, FL — Construction observer. Kimley-Horn is providing site development services for the construction of a new building for pet adoptions at the northwest corner of the project site. This project also includes improvements to adjacent on-site drive aisles, parking, pedestrian sidewalks and walking paths, and courtyard/ outdoor use areas. The scope includes civil engineering plans and calculations, permitting, traffic engineering, and construction phase services.

Vista Lago, West Palm Beach, FL — Construction observer. Kimley-Horn provided civil design, permitting, and construction phase services for this residential development located in unincorporated Palm Beach County. The Vista Lago community consists of 106 single-family homes, a resort-style swimming pool with a covered cabana and sun deck, gated entrance, and children's tot-lot. Kimley-Horn's tasks included the provision of permit support to obtain approvals from the Palm Beach County Land Development Division and other departments for offsite roadway and drainage improvements; a turn lane extension on Hypoluxo Road; pedestrian walks within the Hypoluxo Road right-of-way; installation of a guardrail adjacent to Lake Worth Drainage District (LWDD) L-18 canal; temporary detention areas to accommodate additional drainage from the Hypoluxo Road improvements; a permanent connection for the drainage from Hypoluxo Road into the on-site lake system; drainage provisions for the future extension of Haverhill Road; drainage improvements on Hypoluxo Farms Road; and drainage improvements on Clock Road. On-site permits included a land development permit for the construction of private streets, a divided entrance road, a box culvert /bridge over the LWDD L-18 canal, lake and drainage infrastructure, and connection to the L-18 canal. Kimley-Horn submitted permit applications to Palm Beach County's Environmental Resource Management Department for lake littoral areas and lake excavation and the Water Utilities Department for a potable water interconnect between Palm Beach County and the City of Boynton Beach. Kimley-Horn also assisted with permitting through other agencies to include the LWDD for an on-site drainage box and culvert bridge over the L-18 canal and an aerial crossing of the potable water main over the L-18 canal; the South Florida Water Management District (SFWMD) for Environmental Resource and Water Use Permits; and the City of Boynton Beach for water and sanitary sewer infrastructure.

Delray Medical Center Drainage, Delray Beach, FL — Construction observer. As the result of extensive site and building flooding that occurred in rainfall events during 2011, 2013, and 2014, Kimley-Horn was retained to study the cause of the flooding and make recommendations for remediation. We were subsequently retained to help implement the recommendations provided. Our design included the separation of roof drainage from courtyard drainage for 11 existing courtyards, providing an independent point of connection for each drainage system. Also included in our scope of work was the design of a new operable control structure and reconstruction of the main emergency department entrance road to raise the road above the 100-year storm event to meet AHCA requirements.

Delray Square Plaza Redevelopment, Delray Beach, FL — Construction observer. Kimley-Horn is providing a full array of consulting services for the existing Delray Square Plaza located at the corner of Atlantic Avenue and Military Trail in Delray Beach. The redevelopment of the 35-acre site consists of the relocation of the Publix grocery store, construction of new retail spaces and two new outparcels, and the reconfiguration of the existing parking areas. Kimley-Horn was responsible for developing the site layout, stormwater and drainage design (StormTech underground chambers), and utility and grading design. Juliana also aided the project manager with obtaining approvals from the South Florida Water Management District (SFWMD), City of Delray Beach, Lake Worth Drainage District (LWDD), Palm Beach County Health Department, and the Florida Department of Transportation (FDOT) for turn lane design and permitting. The project team was also responsible for site planning and site plan processing with the City of Delray Beach, and landscape architecture services, and is currently providing construction phase services.

Eric Regueiro, P.E., ENV SP

Roadway & Streetscape Design

Relevant Experience

Dixie Highway GO Bond Project, Pompano Beach, FL — Assistant project manager. Kimley-Horn was selected by the City of Pompano Beach to provide professional engineering services to assist with the final design and construction documents for the beautification Gateway elements of Atlantic Boulevard and Dixie Highway to revitalize the downtown area of Pompano. The Dixie Highway project limits are from McNab Road to Sample Road and Atlantic Boulevard from NW 6th Avenue to Cypress Road. This project is part of the City of Pompano Beach GO Bond program and includes beautification of the roadway to include paving, drainage improvements, sidewalks, lighting, parking, multiuse trails, landscaping, irrigation, and curbing. The City will use a Construction Manager at Risk (CMAR) as the delivery method for this project.

Lowson Boulevard Improvements Project, Delray Beach, FL — Project manager. Kimley Horn was selected by the City of Delray Beach to provide professional engineering services to assist with the initial design and final design of the roadway improvements to Lowson Boulevard between Dover Road and S.E. 5th Avenue. The project includes shared-use paths for pedestrians and cyclists and other improvements for a 2.5-mile segment of the roadway. The project is partially funded through the FDOT LAP program. In addition, the project included intensive public involvement, coordination with TPA and FDOT, shared-use paths, paving and drainage improvements, curbing, signing and pavement marking, two railroad at-grade crossings, signal modifications, and lighting improvements.

SE 1st Street 30% Plans, Boynton Beach, FL — Project manager. As part of the on-call general consulting engineering services contract with the City, Kimley-Horn provided the conceptual engineering design services for the SE 1st Street Sidewalk Improvements Project. The project used the information prepared during the Grant Application and Conceptual Engineering phase and the topographic field survey and right-of-way survey provided by the City to advance the design up to the 30% preliminary plans. Services included base mapping, typical section development, oversight of horizontal alignment analysis, redesign of intersection geometry at SE 12th Avenue and at-grade crossing modifications, review of vertical alignment and cross sections analysis, preliminary drainage review, utility coordination, and neighborhood traffic calming study.

Lake Worth Neighborhood Road Program Year 4, Lake Worth, FL — Project manager on the team that provided the City of Lake Worth with civil engineering services consisting of design and roadway construction drawings for year 4 projects assisting the City with its pavement rehabilitation program for 19 different streets totaling approximately 12,000 linear feet. The effort focused mainly on plans, specifications, and construction inspection services for pavement rehabilitation on roadways with the lowest pavement condition index. Tasks include data collection, utility coordination, development of construction documents, bidding assistance, and observation during construction.

Ocean Park Boulevard Complete Green Street Project, Santa Monica, CA
Project engineer. Kimley-Horn provided construction plans, specifications, and cost estimates to complete the design of the Ocean Park Boulevard Complete Green Street Project. The Kimley-Horn team designed improvements to the Ocean Park Boulevard corridor to provide connections between the neighborhoods on the north and south side of Ocean Park Boulevard and create an inviting environment for residents. In addition, Kimley-Horn designed watershed improvements to help reduce pollutants for urban runoff while also reducing the overall volume of stormwater runoff reaching Santa Monica Bay. Scope of work elements include the addition of three proposed crosswalks

Special Qualifications

- More than 15 years of experience in civil engineering for roadway and land development projects, with emphasis on street improvement design, pavement condition analysis, grading and drainage, stormwater management, and sewer and water system design
- Technical skills support a wide range of projects, from local roadway improvements to major interchange, grade separation, and regional transportation projects
- Proficient in both of the major design softwares, AutoCAD Civil 3D and MicroStation/InRoads, and is able to design and model roadway plans using the client's preferred CAD software

Professional Credentials

- Bachelor of Science, Civil Engineering, University of California, Irvine, 2005
- Professional Engineer in Florida #86211, December 26, 2018
- Envision Sustainability Professional
- American Society of Civil Engineers (ASCE), Associate Member

Eric Regueiro, P.E., ENV SP

Relevant Experience (continued)

and overhead beacons, green bike lane and bike boxes, landscaped medians throughout the length of the project, curb extensions and bio-retention areas strategically placed along Ocean Park Boulevard, permeable paving in areas not within public travelways, traffic calming measures such as landscaped medians, pork-chops and curb extensions, and pedestrian level lighting along the thoroughfare.

Alameda Corridor East Construction Authority, Phase II Grade Separations PS&E, Fullerton Road Grade Separation, City of Industry, CA — Project engineer. Kimley-Horn serves as the primary civil engineer encompassing all roadway design, railroad design/coordination, utility relocations, traffic studies, oversight of the stormwater pump station design, and other site civil related components. The project scope includes alternatives analysis to further develop the preferred alternative in coordination with the previously prepared environmental studies and final design PS&E. Primary project components include lowering two major arterials, an 80-foot-wide embankment to raise the UPRR tracks, two bridge structures (one for UPRR tracks and another to grade separate the adjacent frontage road); 60- and 72-inch storm drain relocations and stormwater pump station; and major utility relocations (54-inch sewer, 30-inch high pressure gas, 24-inch reclaimed water, electrical transmission lines, etc.).

I-10/Pennsylvania Avenue Interchange Improvements, Beaumont, CA — Kimley-Horn is providing plans, specifications, and an estimate of probable construction costs for the I-10/Pennsylvania Avenue Interchange Improvement project. Our team is providing engineering services required for Project Approval and Environmental Documents (PA&ED), as well as final design and right-of-way acquisition through the Caltrans Streamlined Oversight Process (SOP). The project expands the Pennsylvania interchange to include a new westbound on-ramp and eastbound off-ramp to complement the existing ramps and create a full interchange.

Pennsylvania Avenue Widening, Beaumont, CA — Project engineer. This project widens and adds two additional lanes to Pennsylvania Avenue between 1st Street and 6th Street in the City of Beaumont. The additional lanes will result in a four-lane major highway per the City's General Plan Circulation Element within these limits. This requires improvements to the existing Union Pacific Railroad (UPRR) at-grade crossing and freeway ramp terminals at the I-10 Freeway. A new tee intersection is provided along the east side of Pennsylvania Avenue for the future extension of 2nd Street. Pedestrian access is provided for the length of the project and impacted intersections will be brought up to current Americans with Disabilities Act (ADA)

Auto Center Drive Traffic Signal and Median Design, Buena Park, CA — Project engineer. Kimley-Horn designed a new traffic signal along Auto Center Drive at the Chevrolet Dealership service driveway. Modifications to the existing median were included to allow left-turn movements into the service driveway as well as allow for a pedestrian crossing across the south leg of the intersection. New ADA compliant ramps are proposed at each end of the pedestrian crossing. Coordination with Southern California Edison was included to determine a service point location for the new traffic signal. We were able to meet the City's schedule from developing design concepts to final signed mylar plans in two months.

Ramona Boulevard at Valley Boulevard Intersection Improvement Project, El Monte, CA — Project engineer. The City of El Monte intended to improve the arterial level of service and increase vehicular capacity at the Ramona Boulevard/ Valley Boulevard intersection by widening and reconfiguring the existing five-point intersection to four-point intersection. The proposed improvements required Right-of-Way acquisitions; geometrical design modifications at Valley Mall to allow for right-in and right-out traffic movement; various utility adjustments/relocations; traffic signal improvements; bus stop and bus shelter relocations; and parkway and sidewalk modifications. The project will result in a complete plan, specification, and cost estimate package for bidding and construction purposes. Project's scope of works includes Right-of-Way acquisition, intersection widening, traffic study and evaluation, traffic safety enhancement, traffic circulation, CEQA, Phase I site assessment, active transportation, community engagement and public outreach, drainage analysis, Water Quality Management Plan, landscape and street amenities.

On-Call Pavement Rehabilitation/Utility Design, Fontana, CA — Project engineer. Kimley-Horn has completed multiple task orders under an On-Call Engineering Services agreement with the City for pavement rehabilitation design along five streets (three separate bid packages). Improvements entail pavement replacement and/or overlays according to geotechnical recommendations; replacement of damaged curb and/or gutters; new curb and/or gutters where missing; replacement of damaged sidewalk; replacement of damaged and non-standard driveways; replacement of non-standard curb ramps if affected by adjacent improvements; new curb ramps where missing if affected by adjacent improvements.

Jim Sumislaski, P.E.

Roadway & Streetscape Design; Lighting

Relevant Experience

Boca Raton Continuing Traffic Engineering Services, Boca Raton, FL — Project engineer. Kimley-Horn has provided traffic engineering review services on an ongoing basis since 2001. Services include review of traffic concurrency studies, parking studies, and technical deviation requests. Kimley-Horn has reviewed traffic and parking studies for a large student housing complex proposed to serve Florida Atlantic University students, a redevelopment of the Glades Plaza Shopping Center, and the redevelopment of a convenience store along Glades Road. Also provides assistance to City staff, meets with applicants, and supports City staff at public hearings.

Design-Build Criteria Packages for I-95 Interchange Improvements at Donald Ross Road, Woolbright Road, 10th Avenue North, and Hypoluxo Road, FDOT District Four — Design engineer for the development of design-build criteria packages for four interchanges in Palm Beach County as a subconsultant to another firm. Services included roadway and structural contract plans, RFP development, and design variations/exceptions (as necessary) for horizontal and vertical clearances to the railroad tracks at each interchange. Kimley-Horn also provided shop drawing reviews of MSE walls, overhead signs, signal equipment, lighting equipment, and drainage facilities.

Dixie Highway Flyover Design-Build, FDOT District Four — Project manager for Kimley-Horn's services to design a new roadway and bridge to connect Dixie Highway from north of Hillsboro Road along west side of FEC RR, over the FEC RR and Hillsboro Canal, and connecting into existing Dixie Highway north of Hillsboro Canal east of the FEC RR tracks. Project is a design/build with only seven months to completely design project and release to construction. Project was completed in July of 2012.

HEFT Widening PD&E Study, Final Design, and Permitting, from Okeechobee Mainline Toll Plaza to I-75, Florida's Turnpike Enterprise, Miami-Dade County, FL — Assistant project manager for roadway plans for an eight-mile section. Design modifications to the Okeechobee Road interchange included new toll facilities. This project included coordination with the Turnpike's toll facilities consultant for the two new toll plazas.

Kings Highway (SR 713) from Okeechobee Road (SR 70) to US 1 (SR 5) PD&E Study, St. Lucie County, FDOT District Four — Project engineer. Kimley-Horn performed a PD&E study to widen an existing two-lane roadway to a four- or six-lane divided roadway. This 10-mile project included all environmental and engineering reports necessary to evaluate alternative corridors and alternative alignments within the selected corridor. The project also included public information meetings and public workshops with local residents and elected officials. Additional services included the preparation of a detailed concept plan, right-of-way maps, and a pond siting report to determine additional right-of-way needs.

Old Dixie Highway, Yamato Road to Linton Boulevard, Boca Raton, FL — Project engineer. As a subconsultant to another firm, Kimley-Horn provided structural design and signalization services for the construction of a new three-lane urban roadway section from Yamato Road to Linton Boulevard. The project scope included the design, permitting, and construction plans for 3.5 miles of Old Dixie Highway from north of Yamato Road to north of Linton Blvd. The structural component of the project included the bridge replacement over the C-15 Canal. Our team coordinated with Palm Beach County Utilities and South Florida Water Management District for relocation of existing utilities and ultimate design of the bridge replacement.

Special Qualifications

- Has 38 years of experience in design and preparation of construction plans, including roadway geometrics, specifications, signalization plans, lighting plans, signing and pavement marking plans, permitting, and traffic control plans
- Serves as senior project manager and Engineer of Record on a variety of roadway and lighting projects
- Experience includes complex traffic operational analysis and improvements at Toll plazas, Interchanges and intersections incorporating ITS technologies including ramp metering, signal optimization and managed lanes
- Versed in Microstation, Geopak, and AGI 32 lighting analysis computer design program
- Attended design specifications package seminar training under special invitation from FDOT staff

Professional Credentials

- Bachelor of Science, Civil Engineering, Merrimack College, 1982
- Professional Engineer in Florida, #38841, August 10, 1987
- Florida Engineering Society

Jim Sumislaski, P.E.

Relevant Experience (continued)

Palmetto Park Road Beautification, Boca Raton, FL — Senior project engineer for this three-mile improvement project completed ahead of schedule in just seven months. The project consisted of full corridor master planning, consensus building, landscape architectural design, and complete construction engineering and inspection services for this traditional retail district through the downtown area of the City of Boca Raton. It included new storm drainage; undergrounding of 0.5 miles of FPL overhead lines; new curb, gutter, and sidewalks; milling and resurfacing of the roadway; new water and sanitary mains; reuse water lines; and irrigation system and streetscape elements. Maintaining access to businesses during construction was a key concern.

NE/NW 48th Street, Broward County, FL — Project manager and CEI supervisor for this 2.5-mile urban roadway design in Broward County. Design responsibilities involved geometry, drainage design, permitting, signalization, and railroad coordination.

North J Street Design and Reconstruction, Lake Worth, FL — Project engineer. As part of the City's Neighborhood Bond Program, the Kimley-Horn team is providing design and roadway reconstruction drawings. Traffic calming and pavement rehabilitation measures will be strategically developed and implemented to improve the overall quality of this section of North J Street (from 3rd Avenue to 8th Avenue). The team is providing utility coordination, roadway and drainage design, signing and pavement marking, landscape architecture, and extensive public involvement services including preparing graphics and attending community events.

Districtwide Traffic Operations Safety Studies, FDOT District Four — Project engineer for a contract that is performing task work orders ranging from safety studies, safety reviews, fatal crash reviews, lighting assessments, minor designs, crosswalk warrant analysis, operational analysis, and qualitative assessments. Involves in all facets of the contract including field reviews, countermeasure development, economic analysis, documentation, stakeholder coordination, presentations, scope development, and subconsultant management

Lake Worth Neighborhood Road Program Year 1, Year 2, and Year 3, Lake Worth, FL — Project engineer on the team that provided the City of Lake Worth with civil engineering services consisting of roadway design and drainage design. The effort focused mainly on pavement rehabilitation on roadways with the lowest pavement condition index. In addition to pavement rehabilitation, Kimley-Horn designed new catch basins, additional traffic calming measures, and ADA compliant sidewalk routes to provide continuity in the neighborhood. Tasks include data collection, utility coordination, development of construction documents, bidding assistance, and observation during construction. Lake Worth Neighborhood Road Program Year 3 is still in design.

16th and 17th Street Improvements, Indian River County, FDOT District Four — Project manager for the improvements consisting of widening and resurfacing 16th and 17th Street, from US 1 (SR 5) in Vero Beach to west of 14th Avenue. This project consisted of many off-site flows and unique conditions that were considered in the stormwater system design.

All Electronic Tolling (AET) 5B, Sawgrass Expressway Design-Build, Florida's Turnpike Enterprise — Project manager. This project involves the AET conversion of 20 miles of the Sawgrass Expressway from I-595 to Florida's Turnpike in Broward County, including two mainline toll plazas and fifteen ramp plazas. The conversion included demolition, grading, paving, maintenance of traffic, signing and pavement markings, lighting modifications, drainage, permitting, ITS, utility coordination, tolling, architecture with MEP, and landscaping. Kimley-Horn's scope also included signing and pavement marking plans, including structural design, lighting plans, ITS plans, and landscaping plans.

All Electronic Tolling (AET) Phase 5C, Florida's Turnpike Enterprise — Project engineer for the design and preparation of final construction documents to convert existing toll plazas to all-electronic tolling from Sawgrass Expressway to south of the Lantana Mainline Toll Plaza. Existing toll plazas and gantries will be demolished and new AET tolling points will be constructed. Services also include specifications package preparation, signing and pavement marking analysis and plans, lighting design, ITS facility design, utility coordination, and landscaping plans.

Tara Swann

Roadway & Streetscape Design

Relevant Experience

Midway Road (CR 712) Design and Reconstruction, FDOT District Four — Project engineer and assisting with roadway plans. This project involves the reconstruction of Midway Road from a two-lane, rural roadway to a four-lane, divided urban roadway from west of South 25th Street to east of SR 5 (US 1), for a length of two miles. The project includes replacement of the existing bridge over the North Fork of the St. Lucie River and will also include retaining walls, drainage ponds, signing, lighting, signalization, landscape and irrigation and wetland mitigation. The corridor is within a historic area and our design will consider right-of-way impacts, impacts to parks and schools, concerns of White City residents, access management changes, flooding and environmental concerns, 4(f) properties, utilities, and possibly decorative lighting within the historic limits.

Wiles Road Design from Riverside Drive to Rock Island Road, Broward County, FL — Project engineer assisting with the development of drainange design plans for the widening of Wiles Road to a six-lane divided urban arterial from Riverside Drive to Rock Island Road. Our team's innovative drainage solution added new outfalls through City-owned property to an existing undersized drainage system to avoid reconstructing the entire Wiles Road system. We coordinated closely with the County to tackle issues related to the narrow areas of the corridor, including a balance between traffic lane, sidewalk and bike lane widths. This segment had grant funding from FDOT and the improvements also included roadway design, Complete Streets design, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, permitting coordination with the City of Coral Springs and detailed traffic control plans. The project required extensive landscape plans and coordination to resolve issues related to private landscape encroachments into County right of way. Our team provided tree mitigation permit services and coordinated with both County and City forester. We incorporated the Broward Complete Streets guidelines on this project (also prepared by Kimley-Horn), which were endorsed by the Broward MPO.

I-4 Widening from South of Kirkman Road to South of Orange Blossom Trail, Orlando, FL — Project engineer responsible for signing and pavement marking plans and roadway design. This project involves the reconstruction of approximately 5.3 miles of the existing six-lane expressway to six general use lanes, plus two special use lanes. In addition, existing structures, interchange ramps, and side roads will be modified to accommodate the proposed section. Services include 60% roadway plans, lighting design plans, BDRs, and traffic operations plans. The project also includes the design of two interchanges.

SW 10th Street PD&E Study (Sawgrass to I-95), FDOT District Four — Project analyst for Kimley-Horn's services as a subconsultant to another firm for this politically charged PD&E study in Broward County. The study's goal is to look at options to provide connectivity between Florida's Turnpike, Sawgrass Expressway, and I-95 — three major limited-access, SIS facilities in South Florida. Other goals include enhanced local access for businesses and communities; provisions for multimodal, bicycle and pedestrian facilities; provisions for future express bus service; and design services to increase capacity and eliminate existing operational and safety deficiencies along SW 10th Street.

FDOT, SR 614 (Indrio Road) Design, FDOT District Four — Project engineer assisting with drainage design and preparation of the SWPPP. This project involves extensive right-of-way acquisition and design for a two-mile segment of SR 614 (Indrio Road) from I-95 to SR 607 (Emerson Avenue).The Kimley-Horn team is using context-sensitive design features, including upgrades to culvert end treatments at major crossings

Special Qualifications

- Has seven years of experience in design and preparation of construction plans, including roadway geometrics, signing and pavement marking plans, and lighting plans
- Project management experience, including work planning, scheduling, and budgeting
- Has served on Florida Department of Transportation projects since 2013
- Proficient in MicroStation and GEOPAK programs
- Software experience also includes AutoCAD and GIS

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Florida, 2012
- Professional Engineer in Florida, #83378, June 28, 2017

Tara Swann

Relevant Experience (continued)

and designs to incorporate aesthetic features of the rural adjoining properties. Other services include value engineering; environmental permitting with the Fort Pierce Farms Water Control District, South Florida Water Management District, and U.S. Army Corps of Engineers; control and design surveys; geotechnical investigations; an access management plan update; community awareness plan; utility coordination and SUE; and long-range/cost estimates.

Reconstruction of Krome Avenue from South of SW 296 St to South of SW 232 St, FDOT District Six — Project analyst for the team providing roadway, signing and marking, signalization, lighting, structures and landscape design. The project consists of widening the existing 2-lane undivided road to a 4-lane divided road with a 10' wide shared use path. This project is part of the Krome Avenue South Corridor and has several environmentally sensitive areas. This segment of Krome Avenue handles part of the main freight activity in south and west Miami-Dade County, with a daily truck percentage of 15%.

I-4 Ultimate Project, FDOT District Five — Project engineer responsible for review of signing and pavement marking plans. Kimley-Horn is assisting FDOT as a subconsultant to another firm with all of the aspects associated with the procurement and production for the 21-mile reconstruction of I-4 between West of Kirkman Road and East of SR 434. This project entails the total reconstruction of the mainline, the addition of express lanes in the median, and reconstruction of most interchanges. This project also includes improvements along SR 408 (one mile on either side of I-4), Maitland Blvd and other main crossing roads. Kimley-Horn also assisted with the preparation of the RFP package, proposals review and will embark on the review of the document submittals.

I-75 Managed Lane Project (Segments A & B) Design-Build from NW 170th Street to South of Miramar Parkway, FDOT District Four — Project analyst for this design-build project from south of Miami Gardens Drive in Miami-Dade County to south of Miramar Parkway in Broward County, including the HEFT interchange, as a subconsultant to another firm. Kimley-Horn's responsibilities for this segment included signing and pavement marking plans, ITS plans development, and post-design and construction phase services. Other responsibilities included design and plans for three bridges, including one Category 1 bridge, two bridge widenings, retaining walls, and overhead sign and DMS structures.

All Electronic Tolling (AET) 5B, Sawgrass Expressway Design-Build, Florida's Turnpike Enterprise — Project engineer responsible for signing and pavement marking plans. This project involves the AET conversion of 20 miles of the Sawgrass Expressway from I-595 to Florida's Turnpike in Broward County, including two mainline toll plazas and fifteen ramp plazas. The conversion included demolition, grading, paving, maintenance of traffic, signing and pavement markings, lighting modifications, drainage, permitting, ITS, utility coordination, tolling, architecture with MEP, and landscaping. Kimley-Horn's scope also included signing and pavement marking plans, including structural design, lighting plans, ITS plans, and landscaping plans.

Florida's Turnpike Mainline Widening PD&E Study and Design, Boynton Beach to Lake Worth, Florida's Turnpike Enterprise, FL — Project analyst on this 7.2-mile reconstruction of existing four-lane to eight lane divided expressway that includes a new interchange and conversion of mainline barrier plaza into full 8-lane open road tolling (ORT) expressway complete with ramp manual tolling. The project encompasses roadway widening, bridge widening and replacements, 2,500-ft. of a major Lake Worth Drainage District Canal relocation, right-of-way acquisition, new toll plaza buildings, overhead signage, pavement markings, signalization, lighting, landscaping, ITS system relocation, utility adjustment, new sound barrier wall, and complex traffic control during construction.

Florida's Turnpike Widening from Glades Road to Atlantic Avenue, Florida's Turnpike Enterprise, Palm Beach County, FL — Project engineer assisting with drainage design for the widening design of the Turnpike mainline from 6 to 10 lanes, including express lanes. Design services also include stabilizing the Lake Worth Drainage District (LWDD) E-2W canal bank to support the project's widening, replacing the Yamato Road bridge over the Turnpike, widening the bridge over Clint Moore Road, replacing the bridge over L-38 Canal, designing noise barriers, roadway lighting, signing and pavement markings, and utility coordination.

Juan Jimenez, P.E.

Water/Wastewater/Reuse/Pump Station

Relevant Experience

City of Hollywood Continuing Services Contract for Utilities and Infrastructure, Hollywood, FL — Project manager. Kimley-Horn has been serving the City of Hollywood since 2011 on a variety of utility and infrastructure projects including: South Park Road 16-inch Force Main Upgrade; Water Main Replacement Program 11-5110 – Hollywood Blvd. to Pembroke Road, I-95 to S. 26th Avenue; Water Main Replacement Program 12-5114 – Hollywood Blvd. to Pembroke Road, S. 26th Avenue to S. Dixie Highway; and 6-inch to 16-inch Water Main Replacement Program 14-5122 – Hollywood Blvd. to Moffett Street, U.S.1 to Intracoastal Waterway (Phase III). Kimley-Horn's services include design and preparation of construction documents, regulatory assistance, assistance with bid and award of the construction contract, and construction administration services.

Hollywood General Engineering Consultant Services: Water, Sewer, Reuse, and Stormwater Infrastructure Projects (includes North Central Septic to Sewer Conversion project), Hollywood, FL — Project manager. Under the City of Hollywood's general engineering consultant contract, Kimley-Horn is providing services for water, sewer, reuse, and stormwater infrastructure projects. These services include projects for the potable water transmission and distribution system, wastewater collection system, reuse distribution system, and stormwater systems. Projects under this contract will include, but not be limited to, the following: evaluation, predesign, design, improvements, permitting, and upgrades for existing and/or proposed sewer lift stations, stormwater pump stations and structures, and pipelines associated with water, reuse, stormwater, and sewer networks. Services for these projects would include, but not be limited to: design, permitting, construction management and administration, and field services.

North Central Septic to Sewer Conversion, Hollywood, FL — Project manager. This project involves expanding the City of Hollywood's existing sanitary sewage collection system and will be divided into two sanitary sewer basins—W-09 Basin and W-25 Basin. Kimley-Horn's scope of services includes: basin delineation, sewage flow projections, pipe sizing and hydraulics, design, preparation of construction documents, regulatory assistance, assistance during the bid and award phase of the construction contract, and limited construction phase services.

North Bay Village 16-inch Force Main Route Evaluation Report, North Bay Village, FL — Project engineer for the Kimley-Horn team that developed a force main route evaluation report for the City's force main system. The City's existing sub-aqueous 12-inch force main system was old and deteriorating and required replacement. The proposed 16-inch force main from the City's main pump station was evaluated to determine the most beneficial route either to the east with a connection point located in the City of Miami Beach or to the west with a connection point in Miami-Dade County. The proposed force main route included both open-cut and horizontal direction drill (HDD) segments for either approach. The evaluation process included coordination with stakeholders and permitting agencies that had jurisdiction and/or influence over the project to identify requirements, concerns, and obtain feedback pertaining to issues that affect the permitting, design, construction, schedule, and cost of the proposed project. The final force main route evaluation report addressed stakeholders' issues, permit feasibility, project timeframes, preliminary opinions of probable cost, and a recommendation to proceed with the preferred route. The report also included proposed connection points, overall pipe lengths, construction methods, pipe material, and known or potential issues and constraints for each route including environmental issues.

Special Qualifications

- Has 25 years of diverse engineering and project management experience
- Areas of expertise include water supply and distribution, wastewater collection and transmission, stormwater management, roadway, general civil engineering, and land development
- Experienced in the preparation of permit documents, bid/contract documents and specifications, work schedules, and opinions of construction costs
- Experienced in the use of AutoCAD software, WaterCAD hydraulic modeling software, Microsoft Project scheduling software, and flood routing software published by the Florida Department of Transportation (FDOT) and the South Florida Water Management District (SFWMD)

Professional Credentials

- Bachelor of Science, Civil Engineering, Florida International University, 1993
- Professional Engineer in Florida, #56704, February 15, 2001
- American Society of Civil Engineers (ASCE)
- Florida Engineering Society
- National Society of Professional Engineers (NSPE)

Juan Jimenez, P.E.

Relevant Experience (continued)

Biscayne Boulevard Parallel 36-Inch Force Main, Miami, FL — Project engineer for the design and permitting of approximately 20,000 linear feet of 36-inch ductile iron force main in the cities of North Miami and North Miami Beach, Florida. This force main will serve as backup to the existing 30-inch and 20-inch force mains running along West Dixie Highway. Kimley-Horn's design provided for a redundant connection between Pump Station 423 (Discharge Point) and the existing 72-inch PCCP force main located near the intersection of NE 19th Place and NE 159th Street. Kimley-Horn also designed a subaqueous canal crossing across Snake Creek Canal as part of this project.

48-inch Force Main on Sunny Isles Boulevard, North Miami, FL — Project engineer for the design of a 48-inch force main along Sunny Isles Boulevard from P.S. 426, just west side of the Intracoastal Waterway, to the WASD North District WWTP. The project consists of installing approximately 7,600 linear feet of a 48-inch diameter D.I.P. (I.D.) force main along Sunny Isles Boulevard and 2,600 linear feet of twin 48-inch diameter H.D.P.E. (O.D.) force mains through the Oleta River State Recreation Area. The project required an aerial crossing of the Oleta River, and extensive coordination with Florida DEP for the mitigation of impacted natural resources.

Government Cut Force Main Phase I, Miami Beach, FL — Project manager on the Kimley-Horn team that prepared a feasibility study to evaluate the opportunities and constraints of installing a 54-inch force main under Government Cut. The study included a brief description of the project, including its purpose and need and agency jurisdictional control and coordination for permitting. It summarized the various construction methodologies and issues that would be involved in the design, permitting, and construction of these force mains and provided a ranking recommendation.

Miami-Dade 60-inch Force Main SL-3A-2 - SP-1 Transmission Force Main Extension, Phase 2, Miami, FL — Project engineer. Kimley-Horn is responsible for the design of SL-3A.2, the segment of SL-3A from SW 152 Street to SW 176 Street along SW 137th Avenue with an approximate length of 8,000 linear feet. Connection between SL-3A.1 and SL-3A.2 will take place south of the intersection of SW 137 Avenue and 152 Street. Work on the intersection will be by Wade Trim. Connection between SL-3A.2 and SL-2.1 will take place south of the intersection of SW 137 Avenue and 176 Street. Work on the intersection will be done by Kimley-Horn. No other connections to existing or proposed force mains are proposed since this force main will operate as transmission main.

Miami-Dade Water and Sewer Department, 72-inch Raw Water Main Design, Miami-Dade County, FL — Project manager. Kimley-Horn was responsible for the design of approximately 8,800 feet of 72-inch raw water pipeline through a heavily urbanized section of the City. The project included the implementation of a trenchless technology (micro-tunneling) for approximately 1,300 feet under two major canals and a major railroad switch yard.

Perrine/Cutler Ridge and NW 37 Avenue Water and Sewer Improvements "Group A", Miami-Dade County, FL
Project manager. This project is part of the Miami-Dade Water and Sewer Department's "Needs Assessment Program", and involved planning, design and construction-phase services for proposed water distribution and transmission improvements within a 2,000±-acre area located between NW 87th and NW 36th Streets, and between NW 37th and NW 32nd Avenues, in Miami-Dade County. Some of the services provided included assisting MDWASD in developing the most effective plan for upgrading the potable water supply and distribution systems in order to comply with fire protection requirements and encourage redevelopment and revitalization of the area. Even though the study area lies within the limits of Unincorporated Miami-Dade County, a large portion of it is being supplied water from water mains owned and operated by the adjacent City of Hialeah. Part of the scope involved the development of a plan to disconnect from the City's system and transfer services to the MDWASD system.

Lakeview District Water and Sewer Master Plan, Medley, FL — Project engineer. Kimley-Horn prepared a water and sewer master plan for the Lakeview Utility District, a special assessment district created to expand water and sewer distribution and collection facilities to a 600+ acre portion of the Town of Medley which is currently undeveloped. In addition, Kimley-Horn performed modeling of the existing water distribution system using WaterGEMS software to identify potential fire flow deficiencies within the existing distribution system and propose improvements to the system to address these deficiencies.

Gary Ratay, P.E.

Water/Wastewater/Reuse/Pump Station

Relevant Experience

North East Force Main Installation and Lift Station Rehabilitation, City of Pompano Beach, FL — Served as project engineer to provide construction documents for the installation of new force main piping in an area located north of Atlantic Boulevard, south of NE 24th Street, east of Federal Highway, and west of the Intracoastal Waterway. The design approach was to connect lift stations that presently cascade through the gravity sewer system directly into the existing force main system and thereby eliminate repumping. Station pressures and flows were evaluated so the Pump Station modifications could be determined. The project provided the City of Pompano Beach with a more efficient and cost effective wastewater pumping system in the area.

Stand-by Diesel Engine Drive for High Service Pump #6, City of Pompano Beach, FL — Project engineer for the design of an auxiliary diesel engine drive on an existing high service pump. The auxiliary diesel engine project provides an additional and independent level of automatic redundancy to the existing stand-by power system. The project design includes installation of the auxiliary diesel engine with fuel and exhaust systems, existing high service pump modifications, and modifications to the existing instrumentation and control system for automatic operation. System integration required special consideration based on existing space constraints. The project design provides a reliable, redundant, efficient stand-by power source to maintain water supply to the surrounding community during a power outage.

Lyons Park Sanitary Sewer Rehabilitation, Pompano Beach, FL — Project manager for the rehabilitation of an existing sewer system throughout a residential area called "Lyons Park" located in the City of Pompano Beach. The scope included field review of the existing site conditions, review of a prior pipe rehabilitation report completed by the City, an opinion of the probable construction costs, and preparation of construction documents for system rehabilitation. The project provided rehabilitation of sewer laterals and main line point repairs to address problems associated with groundwater infiltration. The project also included review of GIS information provided by the City and coordination with the existing utility companies.

Boggs Field Wastewater Pumping Station, City of Hollywood, FL — Project engineer for the design of a submersible wastewater pumping station, gravity sewer, and forcemain for a municipal park complex. The project included design and permitting services to connect an existing park facility and a new park complex to the existing forcemain. The station design included a new fiberglass wetwell, submersible pumping equipment, controls, electrical, associated piping, site restoration, and all other appurtenances necessary for complete submersible pumping station.

Stanley Goldman Field Wastewater Pumping Station, City of Hollywood, FL
Project engineer for the design of a submersible wastewater pumping station, gravity sewer, and forcemain for a municipal park complex. The project included design and permitting services to connect a new park complex to the existing forcemain. The station design included a new fiberglass wetwell, submersible pumping equipment, controls, electrical, associated piping, site restoration, and all other appurtenances necessary for complete submersible pumping station.

North Bay Village 16-inch Force Main Rehabilitation Design-Build Project, Construction Administration, North Bay Village, FL — Kimley-Horn was retained by the City of North Bay Village to develop a design criteria package and obtain environmental permits associated with the replacement of the City's wastewater force main system. A route evaluation study was conducted prior to development of the design criteria package in order to select not only the most cost-effective alternative to replace the force main, but also the most environmentally-sensitive alternative to replace

Special Qualifications

- Has 34 years of civil engineering experience, with particular expertise in general municipal engineering, stormwater management, project permitting, and construction phase services
- Principal areas of practice include water distribution, wastewater collection, force main and associated Pump Station design, water treatment plant design, well pump design and site piping, and feasibility and engineering reports
- Has State Revolving Fund (SRF) loan experience

Professional Credentials

- Bachelor of Science, Mechanical Engineering, University of Florida, 1985
- Professional Engineer in Florida, #46682, April 15, 1993
- Florida Engineering Society
- National Society of Professional Engineers (NSPE)

Gary Ratay, P.E.

Relevant Experience (continued)

the force main. The best alternative was determined to be a horizontal directional drill (HDD) from west of the Intracoastal Waterway (ICW) to the existing Pump Station on North Bay Village. This HDD required three separate water crossings, as well as open cut trenching in the uplands. Kimley-Horn conducted pre-construction seagrass surveys, as required by the U.S. Army Corps of Engineers as well as the Florida Department of Environmental Protection to secure the appropriate environmental permits. Kimley-Horn also coordinated with the Department of State Lands and the Coast Guard to provide the proper depth of the HDD underneath the Intracoastal Waterway. A mitigation and monitoring plan was developed to prevent the possibility of a frac-out and outline response actions if a frac-out were to occur during construction.

North Bay Village Main Wastewater Pump Station Rehabilitation, North Bay Village, FL — Project manager for development of design, permitting, and construction phase services for the rehabilitation of the City's main wastewater Pump Station. The project included analyzing the existing pumping and control equipment to evaluate present operating parameters and to develop a rehabilitation approach to increase system efficiency, reduce system maintenance, and provide a reliable, redundant Pump Station to better serve the City. Existing shaft driven wastewater pumps were converted to submersible pumps for use in a dry pit area and the complete control system was upgraded including a new Citywide SCADA system. The design approach required construction coordination and planning to keep the existing station in service during the rehabilitation and service upgrade process. Also assisted the City with collecting the ARRA funding and $1 million through a State Revolving Fund (SRF) Loan for the balance of the $4.5-million improvement.

North Miami Continuing Professional A&E Services, North Miami, FL — Project manager for the Kimley-Horn team that was selected in 2012 to provide professional services on a variety of municipal projects for the City of North Miami. The contract includes engineering services for civil/environmental, planning and urban design, traffic engineering, transportation consulting, and water resources/water supply. Our services to-date include the design of forcemain transmission piping and an Advanced Metering Infrastructure (AMI) Program.

Village of Palmetto Bay, Palmetto Bay General Consulting Services (includes Stormwater Master Plan, SW 88th St, SW 89th St, SW 146th and 148th St, SW 164th St Improvements), Palmetto Bay, FL — Project manager for the development of a stormwater master plan for the Village of Palmetto Bay to address flood protection activities for its residents, and to protect the environmental quality of its many canals. In addition to addressing stormwater management issues, Kimley-Horn developed a stormwater management report to assist the Village in creating a stormwater utility. A stormwater utility generates a dedicated stream of revenue to implement capital improvements and maintain an operation and maintenance program associated with the stormwater system. The project tasks primarily consisted of data compilation, development of a stormwater master plan, development of a stormwater management report, and assisting the Village in joining the National Flood Insurance Program (NFIP) so that federally funded flood insurance is available to the community.

24-Inch Water Main and 24-inch Force Main Subaqueous Intracoastal Crossings (Pipeline Installations) (Currie Park), West Palm Beach, FL — Project manager for the City of West Palm Beach to relocate an existing 24-inch water main that conflicted with the location of the proposed relocated Flagler Memorial Bridge. To implement the most beneficial location for the new water main, Kimley-Horn was retained to develop a route evaluation study. Four alternatives were evaluated to cross the Intracoastal Waterway. The report discussed community impacts, constructability, hydraulics, permit feasibility, and cost. Once the route was selected, Kimley-Horn provided design, permitting, bid, and construction phase services for the project. The design included a 3,700 crossing of the Lake Worth Lagoon and more than 1,000 linear feet of upland pipeline through downtown West Palm Beach and the Town of Palm Beach. One unique element of the project was the collaboration between the Town of Palm Beach and the City of West Palm Beach during this project. The Town was in need of replacing their aging force main crossing that is currently located at Currie Park. To take advantage of the cost savings that could be realized through a shared bidding and construction process, the Town entered into an Interlocal Agreement with the City to construct a 24-inch force main parallel to the water main. Kimley-Horn provided design, permitting, and construction phase services for both the water main and force main. Permits were obtained from the U.S. Army Corps of Engineers, the FDEP, and the FDOT. A detailed bid item list with an accompanying measurement and payment section was developed to separate the City funded versus the Town funded portions of the project. Additionally, much of the water main work was funded by FDOT as part of the relocation agreement. All of the bid items were clearly identified so project funding between the three entities involved (City, Town, and FDOT) could be easily understood and documented. Kimley-Horn provided construction phase services for the project which was completed in 2011 at a cost significantly under the project budget.

Stefano Viola, P.E.

Water/Wastewater/Reuse/Pump Station; Parking Lot/Site/Civil Engineering; Surtax Funding Coordination

Relevant Experience

McNab Road Over Cypress Creek (C-14) Bridge Replacement and Terra Mar Drive over Spanish River Bridge Rehabilitation Projects, Pompano Beach, FL — Project Engineer. Kimley-Horn is currently serving the City of Pompano Beach to provide design and consulting services for two separate bridge projects within the City as part of the current G.O. Bond. The project at McNab Road includes the full replacement of the existing bridge and relocation of existing utilities. The proposed bridge will incorporate aesthetic features appropriate to the surrounding areas. Kimley- Horn is leading permitting of this project, including USCG, SFWMD, and Broward County.

Pompano Beach Tri-Rail Station Improvements, South Florida Regional Transportation Planning Authority (SFRTA) — Served as project manager and project engineer. Responsible for overseeing and design of the construction documents for SRFTA's improvements to the existing Tri-Rail Station at Pompano Beach. The proposed improvements included widening the existing platforms to 25 feet and constructing a canopy to meet the South Florida Regional Transportation Authority's (SFRTA's) current station design guidelines; providing modifications to access ramps connecting to the new station platforms required for Americans with Disabilities Act (ADA) compliance; constructing a new pedestrian overpass; removal of existing and construction of new customer service kiosks and employee restroom; existing parking lot modifications to improve bus circulation, taxi staging areas, and kiss & drop-off areas; addition of benches, bike racks and lockers; landscaping; installation of energy efficient LED lighting, machine room-less elevators and solar panels for electric generation; and retrofitting and upgrading the existing drainage facilities. The project also included many green elements that were vital in obtaining Silver LEED® certification.

City of Hollywood Continuing Services Contract for Utilities and Infrastructure, Hollywood, FL — Project engineer. Kimley-Horn has been serving the City of Hollywood since 2011 on a variety of utility and infrastructure projects including: South Park Road 16-inch Force Main Upgrade; Water Main Replacement Program 11-5110 – Hollywood Blvd. to Pembroke Road, I-95 to S. 26th Avenue; Water Main Replacement Program 12-5114 – Hollywood Blvd. to Pembroke Road, S. 26th Avenue to S. Dixie Highway; and 6-inch to 16-inch Water Main Replacement Program 14-5122 – Hollywood Blvd. to Moffett Street, U.S.1 to Intracoastal Waterway (Phase III). Kimley-Horn's services include design and preparation of construction documents, regulatory assistance, assistance with bid and award of the construction contract, and construction administration services.

Fort Lauderdale General On-Call Traffic Engineering Services (2008), Fort Lauderdale, FL — Project analyst for general traffic engineering and transportation planning services as part of an on-call contract with the City. Kimley-Horn serves as an extension of the City of Fort Lauderdale staff reviewing traffic impact studies and parking analyses. Projects to date have included peer review of traffic impact and parking studies, site plan review, and representation at public hearings. Additional projects have included development of a corridor study to support lane reductions along SR A1A and development of a Greenways Plan to complement multimodal transportation options within the corridor.

Broward Center for the Performing Arts Renovation and Expansion, Fort Lauderdale, FL — Project engineer. Also provided utility coordination. The Broward Center of the Performing Arts is a public-private partnership which was originally constructed in 1989 and is located in the heart of the Fort Lauderdale Arts and Science District. Kimley-Horn provided the traffic access, circulation, and parking studies for the original facility. In 2012, Kimley-Horn provided traffic studies and site civil engineering for

Special Qualifications

- More than 13 years of engineering experience, including roadway restoration/resurfacing, drainage modeling, water/wastewater utility design, stormwater master planning, preparation of engineering drawings, permitting, and site/plan preparation and review
- Prior to joining Kimley-Horn, served as Sergeant in the United States Marine Corps for five years
- Experience with AutoCAD, WaterCAD, StormCAD, and Cascade

Professional Credentials

- Bachelor of Science, Civil Engineering, Florida International University, 2007
- Professional Engineer in Florida, #74655, June 8, 2012
- American Society of Civil Engineers (ASCE)
- Florida Engineering Society

Stefano Viola, P.E.

Relevant Experience (continued)

the expansion and renovation of the facility. The expansion included a production wing, an educational wing, and a pavilion along the river walk. The expansion construction started in 2013 and was completed in 2014. The six-acre site required extensive drainage modeling for an Environmental Resource Permit (ERP)/ Broward County Stormwater Permit modification.

City of Lauderhill Miscellaneous General Civil Engineering Services (includes Central Broward Regional Park), Lauderhill, FL — Project engineer. Also provided utility coordination. Kimley-Horn is serving the City of Lauderhill on various roadway/traffic and related storm drainage projects. We have worked with the City on a series of roadway and drainage improvements projects in key areas throughout the City. Specifically involved with the Inverrary Boulevard Resurfacing project; assisting with design and permitting with Broward County and the City of Lauderhill.

Margate City Center Stormwater Master Permit, Margate, FL — Project manager. The Margate CRA selected Kimley-Horn to prepare a conceptual stormwater master plan for their 43.7-acre downtown area. The project area included a complete stormwater system re-design to incorporate the proposed development, which will include garden style apartments, townhomes, mid-rise condominiums, civic uses, and commercial developments. The project also included the preparation of a master drainage model (created using the ICPR software), an evaluation of the existing drainage system within this area, the creation of drainage basin delineations and maps, a complete hydraulic/hydrologic analysis of the area, and the proposed master conceptual drainage improvement plans. Kimley-Horn was successful in obtaining a new conceptual permit through the Broward County Surface Water Management Section, as well as a new conceptual ERP permit through the South Florida Water Management District.

North Bay Village 16-inch Force Main Rehabilitation Design-Build Project, Construction Administration, North Bay Village, FL — Provided plans preparation for the implementation of the design-build criteria package Kimley-Horn developed for the replacement of the City's wastewater force main system.

North Bay Village 16-inch Force Main Route Evaluation Report, North Bay Village, FL — Project engineer for development of a force main route evaluation report for the City's force main system. Also provided utility coordination. The City's existing sub-aqueous 12-inch force main system was old and deteriorating and required replacement. The evaluation process included coordination with stakeholders and permitting agencies that had jurisdiction and/or influence over the project to identify requirements, concerns, and obtain feedback pertaining to issues that affect the permitting, design, construction, schedule, and cost of the proposed project. The final force main route evaluation report addressed stakeholders' issues, permit feasibility, project timeframes, preliminary opinions of probable cost, and a recommendation to proceed with the preferred route. The report also included proposed connection points, overall pipe lengths, construction methods, pipe material, and known or potential issues and constraints for each route including environmental issues.

North Bay Village Continuing Services Agreement for Planning, Utilities, Engineering, and Roadways, North Bay Village, FL — Project engineer. Kimley-Horn provides general engineering services for the City of North Bay Village on an ongoing basis. Services have included water and wastewater studies, planning, design, permitting, and construction phase services.

North Bay Village Force Main Rehabilitation Design Criteria Package, North Bay Village, FL — Project engineer. Based on an approved force main route evaluation report, Kimley-Horn developed a Design Criteria Package (DCP) for the City's force main rehabilitation program. The DCP was used to select a design-build team for construction of the City's new force main system. The DCP included schematic design drawings for the remaining open-cut force main route, hydraulic modeling of the main wastewater pump station and force main system, design plans for environmental permitting, design criteria for construct of the project, documents to address land ownership issues, design-build contracts or "front end" documents, and associated opinions of probable construction costs. The DCP also included field survey, environmental survey, geotechnical analysis, extensive utility data collection, stakeholder coordination, and governmental coordination, including a wastewater agreement with the Miami-Dade Water and Sewer Department. The DCP was submitted to the State of Florida and approved for both American Recovery and Reinvestment Act funding and State Revolving Loan dollars.

Kevin Schanen, P.E.

Water/Wastewater/Reuse/Pump Station; Undergrounding of Overhead Utilities

Relevant Experience

Jupiter Island Continuing Services, Jupiter Island, FL — Project engineer on the Kimley-Horn team retained by the Town of Jupiter to assist in its consideration of the purchase of two privately owned water and wastewater utilities. The firm's responsibilities included evaluation of the existing facilities, preparation of engineering reports to accompany municipal bond prospectus, identifying future capital improvements needed for integrating the two utilities, and providing advice relative to operation of the facilities to be purchased. The Town completed this purchase in September 1998 and formed a utility enterprise within the Town government, naming it South Martin Regional Utility (SMRU). The firm has remained the utility's engineering consultant responsible for all engineering functions of the utility.

Town of Jupiter Continuing Consulting Services (includes 24-inch water mains), Jupiter, FL — General Continuing Consulting Services for Utilities Department (includes 24-inch water mains), Jupiter, FL - Project manager/engineer. Kimley-Horn has served the Town of Jupiter Utilities Department on a variety of projects for many years. Our services have included pipeline projects, facility improvements, water treatment design and improvements, communication upgrades, facility demolition, repair and rehabilitation projects, structural engineering, construction administration, and a variety of other services both traditional and non-traditional. Our high level of service to the Town has allowed us to be a trusted advisor on many aspects of the Utilities' future growth and day-to-day operations.

North Bay Village 16-inch Force Main Route Evaluation Report, North Bay Village, FL — Project engineer for the Kimley-Horn team that developed a force main route evaluation report for the City's force main system. The City's existing sub-aqueous 12-inch force main system was old and deteriorating and required replacement. The proposed 16-inch force main from the City's main pump station was evaluated to determine the most beneficial route either to the east with a connection point located in the City of Miami Beach or to the west with a connection point in Miami-Dade County. The proposed force main route included both open-cut and horizontal direction drill (HDD) segments for either approach. The evaluation process included coordination with stakeholders and permitting agencies that had jurisdiction and/or influence over the project to identify requirements, concerns, and obtain feedback pertaining to issues that affect the permitting, design, construction, schedule, and cost of the proposed project. The final force main route evaluation report addressed stakeholders' issues, permit feasibility, project timeframes, preliminary opinions of probable cost, and a recommendation to proceed with the preferred route. The report also included proposed connection points, overall pipe lengths, construction methods, pipe material, and known or potential issues and constraints for each route including environmental issues.

NW 37 Avenue Water and Sewer Improvements, Miami-Dade County, FL — Project engineer. This project is part of the Miami-Dade Water and Sewer Department's (MDWASD) "Needs Assessment Program" (NAP). It consisted of the preparation of a technical memorandum to evaluate alternatives and recommend improvements within a 2,000-acre area of unincorporated Miami-Dade County that had little or no existing water and sewer infrastructure. The scope of services included data collection; site investigations; and researching utility billing records to identify properties currently without water and sewer service or being served by the City of Hialeah. Other tasks performed included environmental site assessments, researching right-of-way availability, coordination with regulatory agencies and stakeholders, future demand projections, hydraulic modeling to identify system deficiencies and the development of alternatives to meet current and future potable service and fire protection

Special Qualifications

- Has 22 years of diverse engineering and project management experience
- Experienced Project Manager with a wide variety of municipal projects, including water, wastewater, and stormwater utilities, structures, restoration and rehabilitation, community parks, streetscapes, and infrastructure improvements
- Software experience includes Ad-ICPR, WaterGEMS, STAAD, AutoCAD Civil3D, ASAD, and MathCAD
- Past recipient of the Engineer of the Year award from the Florida Engineering Society, Palm Beach County Chapter
- Past recipient of an Outstanding Young Alumnus Award from the University of Florida
- Graduate of the Florida Engineering Leadership Institute (FELI)
- Board Member – University of Florida Engineering School of Sustainable Infrastructure and the Environment External Advisory Board

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Florida, 1998
- Professional Engineer in Florida, #60251, June 23, 2003
- American Public Works Association (APWA)
- Florida Engineering Society
- Palm Beach County League of Cities (Associate Member)

Kevin Schanen, P.E.

Relevant Experience (continued)

demands. Kimley-Horn delivered a Technical Memorandum to MDWASD containing all findings and recommendations for implementation of improvements.

Palm Beach A-7 Inline Booster Pump Station (20-inch and 24-inch force mains), Palm Beach, FL — Project manager for design of this sanitary sewer inline booster station. The design included influent and effluent force main modifications, construction of three new VFD driven centrifugal wastewater pumps within the dry pit of an existing master lift station, wetwell rehabilitation, installation of a new emergency generator, control system and SCADA programming, and various other station mechanical and electrical improvements. The replacement of an existing piston style compressor system with a new rotary screw compressor system was also designed to provide pressurized air to a network of satellite ejector and Expelsor-style lift.

West Palm Beach Relocation of Existing 24-inch Water Main, West Palm Beach, FL — Project manager. This project involved the relocation and modification of an existing water main, construction of a new water main, sanitary sewer repair, relocation of gravity sewer, and agency coordination.

West Palm Beach Shared 30-inch Force Main Condition Assessment, West Palm Beach, FL — Project manager. The City of West Palm Beach asked Kimley-Horn to provide a condition assessment of an existing 30-inch ductile iron force main before they assumed the maintenance responsibility of this pipeline from a neighboring municipality. We performed a limited assessment which involved review of record drawings, historic maintenance records, historic repair and failure data, as well as physical inspection of the pipe. We entered several air release manholes and performed ultrasonic measurements of the pipe to determine wall thickness at these critical high points. We also tapped the pipe to review the interior condition and calibrate our ultrasonic meter. A previously scheduled point repair in the line allowed us the opportunity to visually inspect the condition of the interior at the high point of a past failure area. Based on the collected data, we prepared a report that described the conditions observed, calculated internal and external pressure limitations, and projected the remaining useful life of the pipeline so that the City could make an informed decision whether or not to assume responsibility for the force main.

Delray Beach CRA Federal Highway (US 1) Interim and Final Enhancements (Federal Highway (US 1) Utility Upgrades and Complete Streets Improvements), Delray Beach, FL — Federal Highway (US 1) Utility Upgrades and Complete Streets Improvements, Delray Beach, FL - Project engineer. The Kimley-Horn team provided roadway and utilities services for this multi-phased project. The utilities portion of this project included water main design services, relocation of piping for new drainage facilities, and design of water main crossings. This project included two miles of the US 1 one-way pair in each direction in Delray Beach. The City and CRA adopted the Downtown Delray Beach Master Plan, which has as one of its key elements a reconfiguration of the two one-way segments of US 1 from three lanes to two lanes. These road diet improvements encourage slower speeds and a safer, more pedestrian-friendly environment. The project included landscaping beautification and decorative, environmentally sensitive street lighting; irrigation design; bicycle lanes; and a new sense of continuity with Downtown area with pavers and decorative crosswalks.

North Jupiter Water Main and Drainage Improvements, Jupiter, FL — Project engineer. Kimley-Horn was selected to provide design, construction document preparation, permitting, bid and construction phase services for the North Jupiter water main Improvements project. The purpose of the project is to replace aging infrastructure, enhance system water pressure, increase service reliability, and enhance fire protection in the community. The scope of the project includes the replacement of all backyard asbestos concrete pipe (over 15,260 linear feet) with new water main (over 11,400 linear feet) located at the front of the homes and replacement of new water services and house connections for more than 190 homes. The project also includes point repair improvements for areas outside of the water main replacements for the addition of new fire hydrants and isolation valves.

Ocean Boulevard 20-Inch Force Main Replacement, Town of Palm Beach, FL — Project manager for the replacement of this 50-year-old forcemain within the right of way of Ocean Boulevard which is directly adjacent to the Atlantic Ocean and public beaches. Approximately 3,000 linear feet of pipe was replaced which included the crossing of two underground beach access tunnels.

Delray Beach Martin Luther King, Jr. (MLK) Drive Reclaimed Water Main Improvements (4 inches, 6 inches, and 10 inches), Delray Beach, FL — Project manager. Kimley-Horn provided design of the 4-, 6-, and 10-inch reclaimed water main pipelines in conjunction with a streetscape project in Delray Beach. Hydraulic modeling was performed using WaterGEMS software to size the water main, as well as project future demands throughout the mixed commercial and residential areas along the alignment. The design of a remote actuated control valve was also included so the line could be automatically isolated in the event of an emergency at the wastewater plant that provides the effluent.

Mike Schwartz, P.E.

Parking Lot/Site/Civil Engineering

Relevant Experience

Bahia Mar Planned Unit Development, Fort Lauderdale, FL — Project engineer for the Kimley-Horn team that prepared comprehensive traffic impact and parking studies as well as civil engineering services for construction of a 300-room luxury resort hotel, 19,650 square feet of quality restaurant, 37,822 square feet of office use, 30,260 square feet of retail space, 180 high rise co-op units, 19,875 square feet of high-turnover (sit-down) restaurant space, and a 9,775-square-foot spa on property currently owned by the City of Fort Lauderdale, but leased to LXR Luxury Resorts for 99 years.

Boca Raton Regional Hospital (BRRH) Parking Garage, Boca Raton, FL — Project manager. Kimley-Horn is providing professional engineering services for the construction of a new 700-space parking garage within the existing parking lot east of the Marcus Neuroscience Institute (MNI). Services include schematic site planning, preparation of final site plan, site plan processing assistance, traffic engineering, landscape architecture and irrigation design, regulatory agency permitting, and construction phase services.

City of Fort Lauderdale, Las Olas Boulevard Corridor Improvements, Fort Lauderdale, FL — Project engineer. Kimley-Horn is providing preliminary design, evaluation, and due diligence services for this mixed-use project for the City of Fort Lauderdale Community Redevelopment Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage; active park and plaza areas; and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a “Complete Streets” design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of Las Olas Boulevard. The design of Oceanside Plaza includes space for special events such as festivals and concerts; play areas for children; and a convenient porte-cochere drop off. Kimley-Horn is providing the initial site civil engineering design, roadway design, permitting coordination, stormwater, utility, franchise utility coordination, and other services.

Florida Atlantic University (FAU) Parking Garage III, Boca Raton, FL — Principal-in-charge. Kimley-Horn provided civil engineering and regulatory permitting for this FAU Boca Raton campus parking garage. This parking garage is located on the north side of the campus and provides parking for the FAU Stadium and heavily utilized student areas such as the Student Recreation and Fitness Center. Civil engineering services included providing site engineering for Parking Garage III including site layout, grading and drainage design, utility relocation, new traffic signal design, and high voltage electrical duct bank design. The team obtained all outside agency permits (SFWMD, LWDD, City of Boca Raton, and the Palm Beach County Health Department) in one month.

Jackson North Medical Center Planning and Parking Study, Miami, FL — Project manager. As a subconsultant, Kimley-Horn is providing engineering services for the planning and parking study at Jackson North Medical Center. For the planning study, Kimley-Horn has obtained and is reviewing as-builts and design plans. This project requires meeting with the City of North Miami Beach, Miami Dade Water and Sewer Authority, and Miami Dade County DERM to discuss various improvements to the site. Kimley-Horn is also coordinating a drainage well assessment and an assessment of existing pavement and drainage systems. For the parking study, Kimley-Horn is comparing the observed parking demand to the patient census and to the overall building area to develop parking ratios for the facility. Based upon the data observed and collected, Kimley-Horn is preparing an initial summary report defining the parking

Special Qualifications

- Has 24 years of design and regulatory agency permitting experience in South Florida
- Significant experience in preliminary planning, master planning, infrastructure planning, design, and regulatory agency permitting for educational and healthcare campuses (expansions and new facilities) in Florida
- Experience in construction contract administration, including preparation of certification packages; preparation of bond release packages; coordination with clients, contractors, and local agencies; review of as-built and shop drawings; and on-site inspection
- Computer software experience includes RC4, SDOT, Hydroflow, Autocad Versions 13 and 14, and Softdesk

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Florida, 1996
- Professional Engineer in Florida, #56200, July 25, 2000
- American Society of Civil Engineers (ASCE)
- Florida Engineering Society, Member

Mike Schwartz, P.E.

Relevant Experience (continued)

ratio that is determined to adequately accommodate actual demand for the facility comparing the results to the local code-required parking and industry recommended parking standards.

JFK Medical Center Bed Tower and Parking Garage Additions, Atlantis, FL — Project manager. Kimley-Horn has been selected to provide professional civil engineering services for the addition of a new bed tower and the development of a parking garage that will serve the JFK Medical Center in Atlantis, FL. Part of this project involves a significant addition to the existing emergency department, requiring the relocation of the ambulance drive, 18 intensive care beds, and 54 acute care beds. This project also involves the construction of a new eight-floor, 940-space parking garage.

New City Hall and Municipal Campus Improvements, Sunrise, FL — Project manager. Kimley-Horn serves as lead engineering consultant for site civil design, landscape and irrigation design, hardscape design, traffic and parking studies; garage design, water park design, permitting, and construction phase services. This project consists of a new 100,000-squarefoot City Hall building, a 600-space parking garage, an interactive water park, covered pedestrian connections, and improvements and expansion of existing facilities including an amphitheater. This project is currently in design, with an anticipated completion of spring 2019.

JFK Medical Center Expansion and Parking Garage, Atlantis, FL — Project manager responsible for site planning, design, permitting, and construction phase services for site improvements related to the 175,000-square-foot hospital addition and 523-space parking garage in Atlantis.

St. Lucie Medical Center On-Site Parking/Development of Regional Impact (DRI) Analysis, Port St. Lucie, FL
Project manager. This project was an on-site parking study and DRI due diligence investigation for St. Lucie Medical Center. Assessed the current parking supply and demand placed upon the existing facility. In addition, we considered the near term and long-term expansion plans and resulting affect upon the parking requirements.

24th and 25th Street Improvements, West Palm Beach, FL — Project engineer. Kimley-Horn was retained by the City of West Palm Beach to provide streetscape improvements in the Northwood neighborhood area. This project was a joint effort between the City of West Palm Beach and the West Palm Beach Community Redevelopment Agency (CRA) to reconstruct each of the two-lane roadways with on-street parallel parking on both sides, thus creating a main street through the District. The project was envisioned as an impetus to spur redevelopment of that District. As such, it required an intensive public involvement program, which included residents, merchants, the CRA Advisory Board, and the CRA Board which is the City Commission. The project included extensive landscape and hardscape plans, renderings, decorative street lights, drainage, signing and marking, and traffic control plans. 24th and 25th Streets were also designated as SR 5 and were owned and maintained by FDOT. Therefore, permitting and close coordination with FDOT were necessary. Due to a Local Agency Program (LAP), funding was provided by state and federal governments.

Aventura Medical Center Bed Tower, Aventura, FL — Project manager. Kimley-Horn is providing professional engineering services for a new 95,000-square-foot bed tower addition at Aventura Medical Center. Specific responsibilities include on-site design development and construction observation services. Additionally, Kimley-Horn is providing traffic engineering, campus master plan preparation, site planning/entitlements, helipad evaluation, and utility corridor design.

Barry University Campus-wide Septic Sewer Project, Miami Shores, FL — Project engineer. This project consists of approximately 2,100 lineal feet of proposed gravity sanitary sewer collection system to service six existing buildings (Baseball and Soccer Field restrooms, Lavoie Hall, Farrell Hall, Kelley House, Cor Jesu Chapel, and Shepard & Ruth K. Broad Center for the Performing Arts) that are currently connected to septic tank systems. Kimley-Horn's scope of services includes utility investigation, sanitary sewer design and permitting, as well as construction phase services.

Barry University Master Plan, Miami Shores, FL — Project manager. As a subconsultant to another firm, Kimley-Horn provided utility and traffic and transportation planning services at Barry University's Miami Shores campus. For utility services, the Kimley-Horn team provided a compilation of the utility information collected from Barry University staff via meeting and existing plans; conducted an overall assessment of condition of the respective utility based on the best information available; conducted an overall assessment of condition and life expectancy of the respective utility based on information received from the University; conducted an assessment of existing utilities (water, sanitary sewer, and drainage) to determine demands and required improvements based on the 5-year and 20-year buildout of the campuses; assisted in phasing and scheduling of utility improvements; and reviewed and made recommendations of LEED® design characteristics for drainage services. Traffic and transportation planning services included the review of vehicular, pedestrian, golf cart and bicycle circulation, and a review of parking requirements for the campus.

Jason Webber, P.E.

Parking Lot/Site/Civil Engineering

Relevant Experience

Florida Atlantic University (FAU) Parking Lot 2, Boca Raton, FL — Project manager for the reconstruction of the existing Parking Lot 2, north of N.W. 20th Street between the Charles E. Schmidt Biomedical Science Building (Building 71) and the Engineering & Computer Science Building (Building 96). The parking lot was reconfigured to maximize the number of parking spaces. Improvements consisted of pavement and sidewalk improvements, drainage modifications, landscape and irrigation design, signing and pavement marking and construction phase services. Kimley-Horn was responsible for performance and oversight of field work and construction phase services. In addition, Kimley-Horn provided regulatory agency permitting assistance with South Florida Water Management District (SFWMD) and Lake Worth Drainage District (LWDD).

SR A1A Streetscape Improvements, Fort Lauderdale, FL — Project engineer. Kimley-Horn is providing full civil engineering services for the redevelopment of the existing streetscape of State Road A1A Northbound from the South Beach Parking to Alhambra Street along Fort Lauderdale Beach. The project consists of improving the sidewalk on both sides of the street outside of the curbing in order to provide modern and cohesive look, a definitive delineation between the pedestrian zone and the outdoor restaurant café zone, and improve pedestrian experience while walking along the beach and to its businesses. The trees and light poles are being consolidated near the back of curb to open up the pedestrian zone and provide a clear walking path. Kimley-Horn is the prime consultant on the project, with a team of local subconsultants, and is responsible for providing the civil engineering, permitting, coordination, and other services for the complete project.

City of Fort Lauderdale, Las Olas Boulevard Corridor Improvements, Fort Lauderdale, FL — Project manager. Kimley-Horn is providing preliminary design, evaluation, and due diligence services for this mixed-use project for the City of Fort Lauderdale Community Redevelopment Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage; active park and plaza areas; and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a “Complete Streets” design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of Las Olas Boulevard. The design of Oceanside Plaza includes space for special events such as festivals and concerts; play areas for children; and a convenient porte-cochere drop off. Kimley-Horn is providing the initial site civil engineering design, roadway design, permitting coordination, stormwater, utility, franchise utility coordination, and other services.

Engineering Services for the Max Planck Institute, Jupiter, FL — Design analyst for the Kimley-Horn civil team that, as a subconsultant to another firm, provided site engineering for the Max Planck Institute Building at the Jupiter campus. This is a state-of-the-art research and development facility for the world renowned German-based Max Planck Institute and is the first location in the United States. Directly responsible for site layout, stormwater and drainage design, utility design, utility connections to existing systems, and grading design. Permitted through the South Florida Water Management District (SFWMD), Town of Jupiter Utilities, Loxahatchee River Environmental Control District, Northern Palm Beach County Improvement District (stormwater utility), Palm Beach County Health Department, Palm Beach County Land Development, and the FDEP National Pollution Discharge Elimination System. The stormwater design was consistent with the Master Conceptual system for the Florida Atlantic University John D. MacArthur campus and the overall system was modified accordingly. The system

Special Qualifications

- More than 12 years of experience in civil engineering plus six years of part-time experience in land surveying.
- Experienced with many aspects of site civil design services, including site design, stormwater management, erosion and sedimentation control design and inspection, ADA accessibility, utility systems, agency permitting throughout the State of Florida, and construction phase services.
- Experience with all types of land development/site civil services for sports facilities, single- and multifamily residential, small and large commercial, university/college campuses, and hospital projects.
- Extensive experience over six years working in Palm Beach County and permitting through the South Florida Water Management District, Palm Beach County, City of West Palm Beach, Lake Worth Drainage District, Palm Beach County Health Department, and various other agencies and municipalities.

Professional Credentials

- Bachelor of Science, Civil Engineering, Pennsylvania State University, 2007
- Professional Engineer in Florida, #73962, January 12, 2012
- American Council of Engineering Companies (ACEC) , Member
- Florida Engineering Society

Jason Webber, P.E.

Relevant Experience (continued)

includes innovative stormwater management techniques, including exfiltration trench, dry retention areas, bioswales for water quality treatment and LEED purposes, and low impact design methods.

Barry University Master Plan, Miami Shores, FL — Project analyst. As a subconsultant to another firm, Kimley-Horn provided utility and traffic/transportation planning services at Barry University's Miami Shores campus. For utility services, the Kimley-Horn team provided a compilation of the utility information collected from Barry University staff via meeting and existing plans; conducted an overall assessment of condition of the respective utility based on the best information available; conducted an overall assessment of condition and life expectancy of the respective utility based on information received from the University; conducted an assessment of existing utilities (water, sanitary sewer, and drainage) to determine demands and required improvements based on the 5-year and 20-year buildout of the campuses; assisted in phasing and scheduling of utility improvements; and reviewed and made recommendations of LEED design characteristics for drainage services.

Falkenburg Road and Progress Boulevard Extension, FL — Design engineer on the Kimley-Horn team on this project that involved the addition of an eastbound left turn lane from the Lee Roy Selmon Expressway Ramp to Falkenburg Road. Designed the stormwater management system for the runoff caused by the construction of the turn lane.

FAU Florida Atlantic Boulevard Northern Four Lane Design and Permitting, Boca Raton Campus, Boca Raton, FL Lead design engineer for roadway design (including vertical alignment, cross sections, pavement design, grading), drainage design, reclaimed water main, utility relocation, and erosion and sedimentation control. Responsible for permitting with the South Florida Water Management District (SFWMD), Lake Worth Drainage District (LWDD). Responsible for the SFWMD calculations for multiple basins and two analysis conditions. Coordinated with SFWMD to obtain the Environmental Resource Permits with no comments. Assisted the project manager with coordination with FAU, Palm Beach State College, the Research and Development Park at FAU, and the City of Boca Raton. Led design team coordination with two subconsultants for three disciplines. Completed 100% construction documents ahead of schedule with construction beginning in June 2011. Performed construction phase services for the project, including attending and participating in owner/contractor construction meetings, shop drawing review, responses to requests for information, issuing any necessary plan changes and construction change directions, field reviews for all stages of construction, substantial and final completion walkthroughs and punch lists, review of contractor change orders, and other services. Construction deadlines were all met by the contractor due to open communication and teamwork between the contractor and Kimley-Horn.

Frenchman's Harbor, Palm Beach Gardens, FL — Project engineer. Kimley-Horn is providing a variety of services for this new Toll Brothers community that is situated along the Intracoastal Waterway. Thus far, our services have included design, permitting, and construction phase services for offsite water mains, offsite sanitary force mains, and improvements to Ellison Wilson Road, including addition of a turn lane, new sidewalks, and new drainage. Kimley-Horn has also provided design, permitting, and construction services for onsite utilities, drainage, and roadways.

Parkland Golf and Country Club, Parkland, FL — Lead design engineer and project manager for the Kimley-Horn team performing site, structural, and utility engineering for five single-family pods within the Parkland Golf and Country Club development. The project includes designs for modifications to the exterior of the Golf Clubhouse and the Sports Club Facility. Design included designing modifications to the existing infrastructure of three existing pods to accommodate the proposed increase in density, designing one new pod, and converting a pod from multi-family to single-family. Designing a solution to severe lake bank erosion, undermining, and deep lake fill (40'+ deep) for one of the interior lakes in an unbuilt pod of single family homes. Reviewed potential solutions including single and multi-tiered sheet pile walls, GeoTube, MegaBlok, deep water filling, and other options. This project includes extensive permitting with the North Springs Improvement District (stormwater utility) and the City of Parkland.

Peggy Adams Redevelopment, West Palm Beach, FL — Project manager. Kimley-Horn is providing site development services for the construction of a new building for pet adoptions at the northwest corner of the project site. This project also includes improvements to adjacent on-site drive aisles, parking, pedestrian sidewalks and walking paths, and courtyard/ outdoor use areas. The scope includes civil engineering plans and calculations, permitting, traffic engineering, and construction phase services.

Tony Bevilacqua, P.E.

Structural Engineering

Relevant Experience

McNab Road Over Cypress Creek (C-14) Bridge Replacement and Terra Mar Drive over Spanish River Bridge Rehabilitation Projects, Pompano Beach, FL
Project engineer. Kimley-Horn is currently serving the City of Pompano Beach with subconsultants Keith & Associates, CSA Architects, and H2R Corp. to provide design and consulting services for two separate bridge projects within the City as part of the current G.O. Bond. The project at McNab Road includes the full replacement of the existing bridge and relocation of existing utilities. The proposed bridge will incorporate aesthetic features appropriate to the surrounding areas. Kimley-Horn is leading permitting of this project, including USCG, SFWMD, and Broward County. Improvements at Terra Mar Drive include repairs to the existing bridge and seawalls to address deterioration. The design at this location also includes upsizing the existing water main along Terra Mar Drive and incorporating aesthetic features. Our project team is providing structural, architectural, roadway, permitting, utility adjustment, and geotechnical services for both projects.

City of Pompano Beach, Atlantic Boulevard Bascule Bridge Improvements including Decorative Sails and Lighting, Pompano Beach, FL — Structural engineer. Kimley-Horn served the City of Pompano Beach with CSA Architects and Burkhardt Construction to incorporate safety and aesthetic improvements to this 400-foot bascule bridge over the Intracoastal Waterway. Kimley-Horn designed a replacement traffic railing to improve safety and aesthetics, as well as an under-bridge walkway to improve pedestrian access to the water. The project involved the design and construction of enhancements to the bridge façade, tender house, traffic railings, lighting, large tensioned sails at each end of the bridge (four total) and computerized uplighting, artwork on bridge façades, land-based lighting, and a pedestrian esplanade under the bridge connecting restaurants and buildings from the south to the north. The design-build team was responsible for complete design, permitting, and coordination with FDOT. Kimley-Horn obtained all permits for the project through coordination with FDOT, USACE, USCG, FDEP, the City, and SFWMD. The project created a signature gateway within the City's Beach district.

SR 924/NW 119th Street/Gratigny Road Safety Improvements from NW 27th Avenue to NW 7th Avenue, FDOT District Six, Miami-Dade County — Serves as structural engineer responsible for repair, rehabilitation, and safety upgrades of a three-span bridge carrying vehicular traffic on SR 924 over the Rio Vista/Spur #1 Canal. The existing bridge utilizes non-composite PC/PS concrete flat slab units with an asphalt overlay. Differential deflections between adjacent slab units has caused distress and cracking of the asphalt overlay along the longitudinal joints. The main goal of this project is to reestablish continuity between adjacent slab units utilizing Ultra-High-Performance Concrete (UHPC) at the longitudinal joints. Additional project tasks include the repair/replacement of transverse expansion joints, upgrades to the guardrail-to-bridge railing and guardrail terminals, and upgrades to the pedestrian bullet railing tapered-end-transitions.

I-75 Express Lanes Segment AB, Design-Build, FDOT District Four, Broward and Miami-Dade Counties — Project engineer. The Kimley-Horn structural team was responsible for the design of six bridges, over 50 sign structures (cantilever and span sign structures), several permanent and temporary critical retaining walls, span wire assemblies, and toll gantry structures. Bridge types included curved steel box girder bridges with integral steel box caps and precast/prestressed concrete bridges (FIB & AASHTO beam) bridges (new and widenings). Sign structures included both static and DMS signs.

Special Qualifications

- 21 years of experience in bridge design, construction, scour analysis, and inspection of pre-stressed and concrete bridges and steel plate girder bridges across Florida
- Specializes in bridge repair and rehabilitation projects, including precast prestressed bridges, precast prestressed and cast-in-place flat slab bridges, retaining walls, box culverts, and highway sign and signal structures

Professional Credentials

- Master of Engineering, Structural Engineering, University of Florida, 1999
- Bachelor of Science, Civil Engineering, Florida State University, 1997
- FDOT Specifications Package Preparation Training for Consultants
- FDOT Bridge Scour One-Day Short Course
- FDOT Reclassification of Unknown Foundation Bridges Training
- FHWA-NHI-135046 - Stream Stability and Scout at Highway Bridges (3-Day Course)
- Professional Engineer, FL, 59262, 01/14/2003
- Professional Engineer in Florida, #59262, January 14, 2003

Tony Bevilacqua, P.E.

Relevant Experience (continued)

All Electronic Tolling (AET) 5B, Sawgrass Expressway Design-Build, Florida's Turnpike Enterprise, FL — Structural engineer. This project involves the AET conversion of 20 miles of the Sawgrass Expressway from I-595 to Florida's Turnpike in Broward County, including two mainline toll plazas and fifteen ramp plazas. The conversion included demolition, grading, paving, maintenance of traffic, signing and pavement markings, lighting modifications, drainage, permitting, ITS, utility coordination, tolling, architecture with MEP, and landscaping. Kimley-Horn's scope also included signing and pavement marking plans, including structural design, lighting plans, ITS plans, and landscaping plans.

Apollo Beach Boulevard Extension/I-75 Flyover, Hillsborough County, FL — Structural engineer for the Kimley-Horn team designing the extension of Apollo Beach Boulevard from US 41 to Paseo al Mar Boulevard that will result in a 4-lane facility including the bridge over I-75 to the eastern limits of the conservation easement or approach tie-down. Extending Apollo Beach from US 41 to US 301 will serve as an alternative east/west connection ultimately reducing traffic demands on Big Bend Road. This work effort includes alignment and traffic studies; surveying; geotechnical exploration, testing, and analysis; preparing engineering reports with right-of-way maps and environmental documentation incorporating roadway, stormwater detention, and wetland mitigation requirements; permitting requirements; and determination of right-of-way requirements.

Districtwide Minor Projects Design Consultant 2011 (US 1 over the Sebastian Inlet, Observation Pier Replacement, and Miscellaneous Bridge Repairs), FDOT District Four, Indian River and Brevard Counties, FL — Structural engineer for the Kimley-Horn team that is acting as an extension of FDOT District Four staff for this on-call contract. Our team is providing a variety of services ranging from design and construction plan preparation to providing staff to serve at FDOT offices in any of their different departments on an as needed basis. The projects vary from state to federally-funded and include intersection improvements; signal operational improvements; safety improvements; Resurfacing, Restoration, and Rehabilitation (RRR); scoping of projects; cost estimation; environmental; structural; and utility services. It also includes information technology, landscape architecture, and other services that may include developing concept reports, 3D modeling, and request for proposals (RFP) on design-build projects.

I-4 Ultimate Project, FDOT District Five, Orlando, FL — Structural engineer for the Kimley-Horn team that assisted FDOT with all the tasks associated with the procurement and production for the 21 miles of reconstruction of I-4 between West of Kirkman Road and East of SR 434 in Orange County. This project entails the total reconstruction of the mainline lanes of I-4, inclusion of express lanes in the median and reconstruction of most of the interchanges within the corridor. This project also includes improvements along SR 408 (1 mile on either side of I-4, Maitland Boulevard, and other main crossing roads. Kimley-Horn assisted with the preparation of the RFP package, proposal reviews and plan submittal reviews.

I-595 Corridor Improvements (Zone 5) from West of Pine Island Road to West of University Drive, FDOT District Four, Broward County, FL — Structural task manager responsible for the design and plans preparation of a three-span, continuous steel plate girder bridge over Pine Island Road. Responsible for the quality control review of an additional three span, continuous steel plate girder bridge.

I-75 Managed Lane Project (Segment C) Design-Build from South of Miramar Parkway to South of Sheridan Street, FDOT District Four, Broward County, FL — Structural engineer for the firm's services for this design-build project as a subconsultant to another firm. Services provided include structural plans for retaining walls, toll gantries, and overhead sign structures, signing and pavement marking plans, ITS plans, and post-design and construction phase services.

I-75 Managed Lane Project (Segment D) Design-Build from South of Sheridan Street to North of Griffin Road, FDOT District Four, Broward County, FL — Structural engineer for the firm's services as a subconsultant to another firm. Services included structural plans for Sheridan Bridge, toll gantries, and overhead sign structures, signing and pavement marking plans, ITS plans, and post-design and construction phase services.

I-75 Managed Lane Project (Segments A & B) Design-Build from NW 170th Street to South of Miramar Parkway, FDOT District Four, Fort Lauderdale, FL — Structural engineer for the firm's services for this design-build project as a subconsultant to another firm. Responsibilities include structural plans for two steel box girder bridges, four precast/prestressed concrete beam bridges, and all retaining walls, toll gantries, and overhead sign structures. We will also provide signing and pavement marking plans, ITS plans, and post-design and construction phase services.

David Taxman, P.E.

Parking Services

Relevant Experience

City of Hollywood Phase IV Street Configuration, Hollywood, FL — The City of Hollywood and the Hollywood Community Redevelopment Agency (CRA) recognize the added value that a well-connected transportation network, as well as availability and variety of parking options, brings to the community. The City and CRA selected Kimley-Horn to provide professional engineering services, on an on-call basis, in relation to a variety of Capital Improvement Projects that require traffic engineering services. Kimley-Horn has completed a number of traffic engineering projects under this contract, including the Phase IV Street Configuration. The Hollywood CRA selected Kimley-Horn to provide professional engineering services for the Phase IV Street Configuration project. Our services included project cost estimates; construction bid documents and drawings; attended meetings and site visits; review and provide technical advice as well as interpret and clarify comments on deliverables and submittals; and provide professional engineering construction administration services. Additionally, our services also included conducting traffic counts, performing traffic observations, traffic engineering analyses, review of traffic design best practices, rendering of street concepts, report and presentation for design concept to the CRA Board and the Broward County Traffic Engineering Division.

2700 NW 2nd Avenue, Miami, FL — Parking manager. Kimley-Horn provided professional transportation engineering services for a proposed site redevelopment. The Kimley-Horn team conducted analyses of the proposed valet, parking, and site plan layouts, as well as providing recommendations for site plan options for valet drop-off/pick-up areas, additional parking spaces, and traffic flow.

Downtown Redevelopment Plan Area Parking Study, Clearwater, FL — Project manager. David led the Kimley-Horn team in completing a comprehensive parking study of Downtown Clearwater. The project included an evaluation of current and future parking needs, identification and analysis of alternative parking supply solutions, site feasibility analysis of potential garage locations, parking operations and management improvements, and an implementation program. The study analyzed the impact of the proposed Imagine Clearwater bayfront project that would displace almost 700 spaces and the impact on parking of large Downtown events at the bayfront. The study identified how private parking resources could be activated to help support both existing and future demand. Parking improvements were suggested to support economic development, and create a more customer-friendly, efficient, and sustainable parking system.

Sarasota Bayfront Master Plan, Sarasota, FL— Parking engineer. As a subconsultant to another firm, Kimley-Horn is providing professional engineering services for a long-term master plan that will establish cultural and economic legacy for the region while ensuring open, public access to the Bayfront. Specific services include analyses of circulation and parking conditions, development of a connectivity plan and parking strategy that encompasses a high-level transportation network. The network will include walking and bicycle access, transit access/circulation, vehicular traffic flow, emergency vehicle access, maintenance access, deliveries, and special event access and traffic circulations. Additionally, the team is managing the regulatory process, which is anticipated to include permitting from the following agencies: Florida Department of Environmental Protection (FDEP), U.S. Army Corps of Engineers (USACE), Sarasota County, and Federal Emergency Management Agency (FEMA).

St. Armands Parking Garage, Sarasota, FL— The City of Sarasota selected Kimley-Horn to lead the design of the approximate 500 space parking garage in St. Armand's Circle. The design included concept development, theming, site planning, civil

Special Qualifications

- Has 15 years of experience
- Licensed professional engineer in Florida, Illinois, Virginia, Maryland, and Washington, D.C.
- Certified Parksmart Advisor and have led training sessions for USGBC
- Presented at conferences for the following organizations: International Parking and Mobility Association, the National Parking Association, the Big Ten Parking Conference, Florida Parking and Transportation Agency, and the Urban Land Institute

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Wisconsin, 2004Master of Arts, Real Estate, University of Illinois, 2010
- Professional Engineer in Florida #85552, July 18, 2018
- International Parking Institute
- Florida Parking and Transportation Association (FPTA)

David Taxman, P.E.

Relevant Experience (continued)

engineering, landscape architecture, traffic engineering, parking consultation, and structural engineering services. The area is known for its variety of restaurants and retail stores, which also neighbors the nearby beach on Lido Key. The parking garage will provide a much-needed boost to the area's parking supply.

Sunseeker Resort Parking and Improvements, Port Charlotte, FL— Project engineer assisting with the development and permitting of this new waterfront project located near Charlotte Harbor. Kimley-Horn determined the applicable parking requirements and traffic impacts associated with a 150-room hotel and 750 condominium units. Services include zoning analyses; parking demand modeling; comparable site parking analyses; shared parking analyses and transportation impact fee study and report.

Hallandale Beach Mobility Plan Roadmap, Hallandale Beach, FL — Project manager. Kimley-Horn was selected to provide professional engineering consulting services for a mobility plan to prepare a roadmap of improvements addressing mobility and parking deficiencies in the City of Hallandale Beach. The growth in the City and surrounding communities has strained the ability of the transportation network to accommodate efficient movement of people and goods. Kimley-Horn worked with City staff to identify the status of transportation improvements recommended in prior studies and plans, develop a program of mobility and parking improvement, prepare cost estimates, and identify potential funding programs. The goal of the study is to provide the City with a roadmap regarding their 5-year capital budgeting for transportation and parking improvements.

Winter Park Parking Code and Policy Modernization, Winter Park, FL — Parking engineer. David assisted with a review of existing codes and ordinances related to parking within the City, as well as a comparison of best parking management practices. The Kimley-Horn team facilitated evaluations with selected peer communities and presented proposed parking zoning code changes for consideration. Stakeholder coordination and Commission briefings were performed to promote community awareness regarding potential changes to the City's current parking policies. The parking zoning policies were recently modified to reflect some of the recommendations per the study.

On-Street Parking Management Plan, Loudoun County, VA — Project engineer. Kimley-Horn is assisting Loudoun County staff with the development of an operational plan for two new parking structures and on-street parking surrounding two future Washington Metropolitan Area Transit Authority (WMATA) Silver Line Metrorail stations. The operational plan includes a parking management/operational plan for the parking areas and the development of an RFP for a private parking operator. Kimley-Horn wrote the RFP that detailed the type of parking enforcement equipment, operations, responsibilities, and maintenance. We are currently assisting with the selection process for a parking operator.

University of Maryland – College Park, Parking and Mobility Master Plan, College Park, MD— Project engineer. The University of Maryland (UM) retained Kimley-Horn to develop a comprehensive campus parking and mobility management plan to support and advance the objectives of the UM Campus Master Plan and prepare for the introduction of the new Maryland Transit Administration (MTA) Purple Line on campus in the coming years. The introduction of a major new transportation element to the campus, area, and region will potentially create a paradigm shift in mobility to and from the campus, offer new opportunities for interior and peripheral campus growth, and require changes to the University's responsibility for parking, transportation, and mobility services. Centralization, decentralization, and dispersal of the campus environment will create new opportunities and new costs to the University's transportation responsibilities and it was unclear if the current organizational structure of parking, transportation, planning, and facilities maintenance could succeed under this new paradigm. The Kimley-Horn team is assessing how changes in local and regional travel, shifts to off-campus locations, increases in public/private joint development and educational partnerships, and losses of core campus parking facilities will affect the University's ability to sustain current levels of parking and transit service.

Lisa Stone, P.E.

Public Involvement

Relevant Experience

SR A1A Streetscape Improvements, Fort Lauderdale — Project engineer. Kimley-Horn is providing full civil engineering services for the redevelopment of the existing streetscape of State Road A1A Northbound from the South Beach Parking to Alhambra Street along Fort Lauderdale Beach. The project consists of improving the sidewalk on both sides of the street outside of the curbing in order to provide modern and cohesive look, a definitive delineation between the pedestrian zone and the outdoor restaurant café zone, and improve pedestrian experience while walking along the beach and to its businesses. The trees and light poles are being consolidated near the back of curb to open up the pedestrian zone and provide a clear walking path. Kimley-Horn is the prime consultant on the project, with a team of local subconsultants, and is responsible for providing the civil engineering, permitting, coordination, and other services for the complete project.

Wiles Road Design from Riverside Drive to Rock Island Road, Broward County Project engineer for complete contract plans for the widening of Wiles Road to a 6-lane divided urban arterial from Riverside Drive to Rock Island Road. One of the major accomplishments of this segment's design was to work with all stakeholders to avoid issues related to private property impacts given the narrow corridor and proximity of private features. We coordinated closely with the County to tackle issues related to the narrow areas of the corridor, including a balance between traffic lane, sidewalk and bike lane widths. This segment had grant funding from FDOT and the improvements included roadway design, Complete Streets design, drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, permitting coordination with the City of Coral Springs and detailed traffic control plans. The project required extensive landscape plans and coordination to resolve issues related to private landscape encroachments into County right of way. We incorporated the Broward Complete Streets guidelines on this project (also prepared by Kimley-Horn), which were endorsed by the Broward MPO.

PD&E Study for Florida's Turnpike Spur and the HEFT from NW 57th Avenue to Turnpike Mainline, Broward/Miami-Dade Counties — Project manager and public involvement leader for the Kimley-Horn team that is serving as a subconsultant to another firm to provide engineering services for a PD&E study for the widening of the Florida's Turnpike Spur and the HEFT from East of NW 57th Avenue to Mainline in Broward and Miami-Dade counties. Kimley-Horn's role is to provide environmental and public involvement support, as well as to assist with roadway design, structural elements, drainage design, permitting, and lighting.

Lake Worth Neighborhood Road Program Year 1, Year 2, and Year 3, Lake Worth, FL Project engineer on the team that provided the City of Lake Worth with civil engineering services consisting of roadway design and drainage design. The effort focused mainly on pavement rehabilitation on roadways with the lowest pavement condition index. In addition to pavement rehabilitation, Kimley-Horn designed new catch basins, additional traffic calming measures, and ADA compliant sidewalk routes to provide continuity in the neighborhood. Tasks include data collection, utility coordination, development of construction documents, bidding assistance, and observation during construction. Lake Worth Neighborhood Road Program Year 3 is still in design.

SR A1A RRR Design from East of Mercedes River Small Bridge to Sunrise Boulevard, FDOT District Four — Project engineer on the Kimley-Horn team selected for the milling and resurfacing of A1A from the bridge over the Mercedes River to Sunrise Boulevard. This portion of A1A is a designated Florida Scenic Highway. In addition, this particular segment is nationally and internationally renowned as the

Special Qualifications

- Has 23 years of roadway design and PD&E experience in Florida
- Has managed projects for FDOT Districts Two, Three, Four, and Turnpike
- Experience includes transportation, PD&E, public involvement, roadway design, plan preparation, utility coordination, maintenance of traffic, pavement design, roadway lighting design, signing and pavement marking, permitting, long range estimates, specifications, and post-design services

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Florida, 1996
- Professional Engineer in Florida, #56806, February 1, 2001
- Florida Engineering Society
- National Society of Professional Engineers (NSPE)

Lisa Stone, P.E.

Relevant Experience (continued)

Fort Lauderdale Beach Strip. This project included four different typical sections for SR A1A. A number of deficiencies were identified during field review, including unsafe pedestrian movements, cracked sidewalks, substandard bridge pedestrian aluminum rails, and abandoned, blocked-off driveway cuts. Kimley-Horn used a holistic approach to ensure connectivity of the different modes of transportation including bicycle storage facilities and special signing to achieve a successful design within FDOT guidelines. Our work included drainage repair, sidewalk modifications to meet ADA criteria, traffic control plans, lighting evaluation, and local agency coordination.

Kings Highway (SR 713) from Okeechobee Road (SR 70) to US 1 (SR 5) PD&E Study, FDOT District Four — Assistant project manager and public involvement leader on the Kimley-Horn team that performed a PD&E study to widen an existing two-lane roadway to a four-lane divided roadway. Assisted with production of the Preliminary Engineering Report. This project is 10 miles in length and includes all environmental and engineering reports necessary to evaluate alternative corridors and alternative alignments within the selected corridor. This project has the potential to be controversial and will include public information meetings and public workshops with local residents and elected officials. This project also includes the preparation of a detailed concept plan, right-of-way maps, and a pond siting report to determine additional right-of-way needs.

PD&E Study for Flagler Memorial Bridge, FDOT District Four — Conducted public involvement activities for this PD&E study to determine how best to replace or repair the bridge. Assisted with production of the Preliminary Engineering Report. This study analyzed various engineering concerns including bridge type (fixed versus bascule), the possible construction of a temporary bridge, the placement of bridge touch downs, connections to Flagler Drive and Royal Poinciana Plaza, bridge alignment, and construction phasing. Environmental issues were defined and analyzed; these included permit coordination with the regulatory agencies, impacts upon the natural environment (wetlands, seagrass, endangered and threatened species, water quality), contamination, and historic and cultural resources that may be affected by bridge construction.

SR 5/US 1 and SR A1A RRR Design Services, FDOT District Four — Project engineer for this 3R project that includes two roadway segments under one contract. The SR 5 (US 1) segment is a 7.5-mile-long, four-lane divided with urban and suburban sections spanning five municipalities. The SR A1A portion is ½ mile of two-lane roadway. Because of the length of the project, an expedited survey schedule was required. The project also includes a public involvement program involving five municipalities and coordination of landscape design for all cities. The project also involves adding missing sidewalk; widening pavement to provide bike lanes along the numerous existing right-turn lanes; evaluating and designing repairs to existing drainage problems; environmental permitting; signing and pavement markings; replacing a curbed section due to widening; and analyzing numerous signalized intersections against current standards. The project also includes preparing a number of design variations and coordination with more than a dozen utility companies.

North J Street Design and Reconstruction, Lake Worth, FL — Project engineer. As part of the City's Neighborhood Bond Program, the Kimley-Horn team is providing design and roadway reconstruction drawings. Traffic calming and pavement rehabilitation measures will be strategically developed and implemented to improve the overall quality of this section of North J Street (from 3rd Avenue to 8th Avenue). The team is providing utility coordination, roadway and drainage design, signing and pavement marking, landscape architecture, and extensive public involvement services including preparing graphics and attending community events.

Osceola Parkway Extension PD&E Study, Florida's Turnpike Enterprise, Orange/Osceola County Line, FL — Public involvement task leader and assistant project manager. Responsibilities include public involvement, long range estimates, and documentation. Assisted with production of the Preliminary Engineering Report. Kimley-Horn conducted a PD&E study for the extension of Osceola Parkway, which begins west of Boggy Creek Road and runs east for approximately seven miles to the proposed Southport Connector. The corridor study area is located adjacent to the Orange/Osceola County line. The study focused on developing a freeway facility that can be expanded in the future with provisions to accommodate a transit corridor and multiuse pedestrian facilities. The project included a connection to provide direct access to and from SR 417, with interchanges at both ends of the connector road—one at SR 417 and the other at Osceola Parkway. Multiple alternatives were being considered at these two interchanges. The interchange at SR 417 was developed so that it not only connects to SR 17, but also connects to the new Airport South Access Road, providing access to Orlando International Airport. There are three other interchange locations within the study area—one at Boggy Creek Road, one at Narcoossee Road, and another one at a future road at the halfway point between Boggy Creek Road and Narcoossee Road.

Denise Palmatier, P.E.

Public Involvement

Relevant Experience

Jupiter Community Park Master Plan, Jupiter, FL — Project engineer. Kimley-Horn was retained by the Town of Jupiter to conduct a master plan of Jupiter Community Park in association with their Community Investment Program. Our services include data collection, meetings with Town staff and other stakeholders, and developing a master plan document.

Palm Beach County Water Treatment Plant #2 Treatment and Disposal Improvements, West Palm Beach, FL — Project engineer. Kimley-Horn was retained by Palm Beach County Water Utilities Department for design, permitting and bidding services related to Water Treatment Plant #2. The goal is to upgrade the plant facility in several areas within the treatment process and about the treatment facility to sustain treatment quality and quantity through the next decade. These improvements will help address deficiencies identified in a recent study by Kimley-Horn for the hydraulic process as well as recommended upgrades. The plant's two lime softening unit have reached the end of their useful life and need upgrades and repair to continue services. This project will provide a new lime softening unit, demolition of the one of the existing lime softening units, a new deep injection well, operational upgrades, a new 5 MG storage tank for increased storage capacity, new raw water supply well.

SW 10th Street PD&E Study (Sawgrass to I-95), FDOT District Four, Broward County, Deerfield Beach, FL — Project engineer for Kimley-Horn's services as a subconsultant to another firm for this politically charged PD&E study in Broward County. The study's goal is to look at options to provide connectivity between Florida's Turnpike, Sawgrass Expressway, and I-95 — three major limited-access, SIS facilities in South Florida. Other goals include enhanced local access for businesses and communities; provisions for multimodal, bicycle and pedestrian facilities; provisions for future express bus service; and design services to increase capacity and eliminate existing operational and safety deficiencies along SW 10th Street.

Sunnyhill Restoration Area (SRA) Berms Modeling, Marion County, FL — Project manager. The Sunnyhill Restoration Area (SRA) is made up of 4,191 acres located approximately 6 miles east of Weirsdale in Marion County. Portions of the Upper Ocklawaha River was channelized in the early 1900s which led to isolated and disconnected portions of the natural Upper Ocklawaha River channel. This project consists of developing a hydrologic and hydraulic model that can be used to evaluate a conceptual design to increase flows through the natural channel. Kimley-Horn is accomplishing these with improvements to internal berms within the SRA that are intended to support the proposed water level increase to elevation 52-55 feet NAVD88 in Areas A-C. In order the meet this objective, the team will first evaluate available data for ICPR model development and model calibration. Watershed delineation will be conducted to identify the drainage basin(s). Stage area relationship for each sub-basin will be defined according to the DEM. Lastly, Kimley-Horn will model for downstream flooding impacts to the area upstream of the outfall to the C-231 canal and downstream of Area E associated with the increased elevation.

Loxahatchee River Restoration Local Initiative and Mecca Site Evaluation, Palm Beach County, FL — Project Manager. Kimley-Horn was retained by Palm Beach County to prepare an evaluation in response to public comments about the Loxahatchee River Watershed Restoration Project. We are preparing technical information and modeling on the feasibility of alternatives to the deep water storage reservoir proposed at the Mecca Site. These alternatives will address the County's

Special Qualifications

- Has 28 years of experience in the planning, design and construction management of water restoration and capital improvement projects for storm water treatment and flood control projects
- Engineering background includes water resource projects and water treatment areas as well as the infrastructure associated with flood control and associated communications
- Skilled at planning and feasibility studies, permitting, scheduling and cost estimating, public outreach and involvement on environmental projects
- Extensive experience with water restoration and water supply project planning and design and familiarity with relevant regulatory and environmental requirements for expediting projects
- Experienced communication with internal and external clients, subcontractors and stakeholders to ensure projects are completed with timely and quality deliverables to meet client expectations

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Florida, 1992
- Professional Engineer in Florida #51252, January 16, 2001
- American Water Resources Association
- Florida Engineering Society

Denise Palmatier, P.E.

Relevant Experience (continued)

concerns on the Draft Project Implementation Report and Environmental Impact Statement prepared by the U.S. Army Corps of Engineers' for the Loxahatchee River Watershed Restoration project.

Denise worked on the following projects prior to joining Kimley-Horn:

Identification & Implementation of Capital Improvement Projects – Infrastructure Maintenance Department, SFWMD, Districtwide, FL — Project manager. Identified SFWMD capital projects including pump station improvements, water management structure repairs, and project management of design of new facilities. The capital improvement projects are essential to ensure the proper operation of the regional water management system of South Florida. Responsibilities included identification, investigation, initiation and oversight of capital structure projects; developing a 5-year capital work plans for the infrastructure within the agency. Development of annual budgets for each program as it relates to operations and maintenance of the capital projects including monitoring of expenditures, working with financial managers to make corrective changes to the budget when necessary; provide engineering expertise in the review of project deliverables; field station maintenance and internal project support; provide briefing, presentation and justifications for various activities; and communication with other District Departments, US Army Corps of Engineers, local and state agencies, drainage districts, professional firms, and public interest groups as necessary. Completed 2010 (design), 2012 (construction)

Public Outreach for Stormwater Treatment Areas 5 and 6 (STA 5 and 6), South Florida Water Management District (SFWMD), Hendry County, FL — Denise participated as the Project Manager for this project working directly with the STA Design Team consisting of scientists, engineers and stakeholders with varying interests in the outcomes of these restoration projects. The design team also included local landowners, environmental groups, the Seminole and Miccosukee Tribe of Indians, various agriculture interests, Florida Department of Environmental Protection, and numerous other County, State and Federal agencies to bring together the consensus of the planning and design of these facilities. This project consisted of a series of constructed wetlands designed to clean stormwater runoff before it enters water conservation areas in Florida's Everglades. STA 5 is a 4,200-acre constructed wetland and STA 6 consisted of 870 acres. STA 5 (4,200 acres) and STA 6 (870 acres) designed to aid in the Everglades restoration and located in Hendry County.

Public Outreach for the Project Implementation Report (PIR) for Indian River Lagoon, New Smyrna Beach, FL — South (IRL-S) project which is part of the Comprehensive Everglades Restoration Plan (CERP), and a joint effort between the U.S. Army Corps of Engineers Jacksonville District and the local sponsor, the South Florida Water Management District. Indian River Lagoon South PIR was a comprehensive plan that addressed numerous water quality and quantity issues facing the IRL and included numerous land owner and interest groups including agriculture and local businesses. Denise worked on site assessments based on reports and information obtained from the Regional Attenuation Facilities Task Force, the Coastal Environmental Reports for Management Options and the Water Preserve Area land suitability analysis to determine the suitable locations for reservoirs within the IRL Basin. This information had to be presented and discussed in numerous public meetings to build consensus on the reservoir locations to be included in the IRL South PIR.

S-135 Pump Station Repowering and Automation — Lead project manager for SFWMD. Project consisted of replacing four skid mounted diesel engine pump drivers with engine control cabinets, all auxiliaries, automation and controls. In addition, the refurbishment of four 1200 rpm right angle gear speed reducers, and replacement of the engine exhaust systems, four siphon vent valves, grease injection systems, manual drip oilers and provide four new stilling wells, ventilation fan, electrical and controls.

S-135 Pump Station Refurbishment, Hardening and Communications Tower — Lead construction manager for the construction of a flood control pump station's pump refurbishment. Project included the removal of the pump's four Suction bell, propeller, discharge bowl, fabricated column, pump shaft and enclosing tubes to be removed, inspected, refurbished and replaced. Replacement of the pump's existing oil/grease-lubricated bearings, with water-lubricated bearings. The lubricating water system consisted of (2) well pumps (1 service, 1 backup), piping, valves and controls as necessary to pump an adequate supply of flushing, lubricating and cooling water to the pump bearings. This project also included the installation of a 185 ft lattice microwave tower, foundation, and equipment shelter.

Erin Emmons, GISP

Surtax Funding Coordination

Relevant Experience

Southeast Florida Regional Freight Plan (SFRFP), Fort Lauderdale, FL — Project analyst. As a subconsultant, Kimley-Horn conducted technical data analyses and developed the roadway project freight Needs Plan for the 2014 Southeast Florida Regional Freight Plan (SFRFP). The SFRFP identifies and prioritizes freight needs projects in a manner consistent to the LRTP process and identifies potential freight funding opportunities. Input for the development of the SFRFP was received from a wide variety of freight stakeholders, including seaports, airports, FDOT Districts Four and Six, MPOs, and other public and private sector entities. Kimley-Horn collected and analyzed a wide variety of freight transportation data including truck volumes and truck percentages on major facilities in the region; key freight activity centers using InfoUSA establishment data; available county land use data; and railroad crossing delay data. In addition, Kimley-Horn developed an extensive geographic information system (GIS) database and mapping of the prioritized freight Needs Plan projects.

South US 1 Bus Rapid Transit (BRT) Improvements Study, Broward County, FL Project analyst. This project focused on Bus Rapid Transit improvements for South US 1 between Downtown Fort Lauderdale and Aventura Mall (Miami-Dade County). The study developed a package of short and medium-term implementation projects and identified long term investments to improve transit service, mobility, livability, and support economic development along the corridor. Multijurisdictional coordination included an advisory committee consisting of five municipalities, two counties, two state agencies, an international airport, and eight additional stakeholder agencies. The solutions included transit infrastructure, traffic signalization, intelligent transportation systems (ITS), and complete streets to support transit oriented development, multimodal facilities, and improved surface transportation.

Broward County Transit Signal Priority (TSP) Implementation, FDOT District Four, Broward County — Project analyst on the Kimley-Horn team that provided TSP services for FDOT District Four. The project involved approximately 50 intersections along three major corridors in Broward County that were implemented for TSP in time for the mid-2009 start of operation of the 95 Express Managed Lanes project on I-95 in Broward and Miami-Dade counties. The 95 Express Managed Lanes project is a dynamically-tolled operation funded as part of a $62 million urban partnership grant from the U.S. Department of Transportation. Express buses now shuttle passengers between Broward and downtown Miami within the 95 Express lanes.

Districtwide Modal Development Consultant, FDOT District Four — Member of the Kimley-Horn team that has served as a Districtwide Modal Development Consultant to the Florida Department of Transportation (FDOT) District Four since 2006. Kimley-Horn's responsibilities include travel demand modeling (multimodal), transportation systems management, congestion management, intermodal facilities, park-and-ride lot planning, multimodal alternatives analysis, transit planning, and bicycle and pedestrian planning.

Districtwide ATMS/ITS Consultant Contract, FDOT District Three — GIS specialist. Kimley-Horn serves as an ATMS/ITS consultant for FDOT District Three. Recent services include acting as an extension of District Three staff, support of the Transportation Incident Management program, and providing network support to the District.

Districtwide Systems Planning, FDOT District Three — GIS analyst on the Kimley-Horn team that has provided planning services for District Three office since the mid-1990s. Since our most recent contract renewal in mid-2008, our team has been tasked with the SR 75 Action Plan Update in Bay County; the SR 85 Action Plan in Okaloosa

Special Qualifications

- Has 14 years of experience years of experience as a transportation and long-range community planner, with a specialty focus in GIS, field surveying and GPS data configuration, and database development for asset management
- Experience in transit planning for both local circulators and regional transit networks, involving route development and modification, Origin-Destination analysis, and facility and amenity planning
- Assistant project manager and lead for state, county and, citywide multimodal transportation plans involving: the collection and assessment of crash data; the collection of bicycle, pedestrian, and transit facility information for the calculation of level of service; and development of short- and long-term improvements

Professional Credentials

- Bachelor of Science, Urban and Regional Planning, Florida Atlantic University, 2006
- GIS Professional (GISP)
- Graduate Certificate in Geographic Information Science (GIS), University of West Florida, 2012
- American Planning Association (APA)
- Women's Transportation Seminar, (WTS)
- Florida Parking and Transportation Association (FPTA)
- Palm Beach GIS User Group

Erin Emmons, GISP

Relevant Experience (continued)

County; SR 85 Access Management Study in Okaloosa County and the City of Crestview; and the SR 95 (US 29) Action Plan in Escambia County.

Growth Management Planning Assistance, FDOT District Three — Project analyst for the Kimley-Horn team that was selected by FDOT District Three in 2010 to provide professional planning and engineering services in support of the District's transportation planning programs. Activities under this contract may include system and/or corridor growth management planning; systems planning and engineering studies; developing/analyzing/monitoring potential revisions of the District's Florida Intrastate Highway System and the Strategic Intermodal System; modal development; metropolitan planning organization (MPO) assistance along with MPO and regional traffic model calibration/analysis/updates/enhancements; State-mandated transportation program implementation; corridor planning; and environmental management including updating, monitoring, and data entry into the Efficient Transportation Decision Making (ETDM) process.

South Florida Commuter Services (SFCS) Planning and Engineering Services, FDOT District Four — Project analyst. Worked as a subconsultant to another firm, providing ongoing planning and engineering support services on the South Florida Commuter Services (SFCS) contract. Provided expertise in technical aspects, including traffic operations, transportation planning, data collection, travel demand modeling, and engineering, as well as coordination and partnership with local government partners. Specific projects that Kimley-Horn has conducted include an assessment of local submarkets for Transportation Management Initiative (TMI) expansion, Safe Routes to School (SRTS) assessments, park-and-ride plans, and an evaluation of express bus services.

Miami-Dade TPO General Planning Consultant (GPC I-V) Contracts, Miami-Dade County, FL — GIS specialist. Kimley-Horn served as General Planning Consultant (GPC) for the Miami-Dade TPO for five consecutive contract terms between 2000 and 2016. Kimley-Horn completed forty-seven (47) work orders during the course of GPCs I-V. Work orders that have been performed under these contracts include congestion management system plan updates, multimodal corridor studies, bicycle/pedestrian plans, transit studies, transit passenger surveys, freight and goods movement analyses, and sub-area mobility plans. Projects performed for this contract have included Transit Contraflow Feasibility Study, Local Municipal Transit Circular Policy Study, Development of a Service Plan for Waterborne Transit Service in Miami-Dade County, Metrorail M-Path Master Plan orida East Coast (FEC) Transit Connection Study, Automated Bicycle Rental System and Parking Plan Study, Origin-Destination Surveys for Local Bus Service, NW 27th Avenue Enhanced Bus Service Concepts and Environmental Study, Non-Motorized Network Connectivity Plan, Impact of PortMiami Tunnel on Downtown Traffic Congestion, Metromover System Expansion Study, Bicycle Wayfinding Study, and Guidelines for Municipal Transit Programs in Miami-Dade County.

Light Rail/Modern Streetcar P3 Program Management, Miami Beach, FL — GIS specialist assisting with data collection and development for an assessment of existing conditions along the corridor. Assessment is needed for the preparation of preliminary design plans for the 4-mile double-tracking for a light rail transit system circulating through the Art Deco District of Miami Beach and providing connectivity between South Beach hotels and the Miami Beach Convention Center. Kimley-Horn is serving as the prime consultant overseeing the project through development, conceptual engineering, environmental impact analysis, and procurement of a P3 developer that will design, build, operate, maintain, and finance the project.

ITS and Smart Parking System Program Management, Miami Beach, FL — GIS specialist. Kimley-Horn is developing a project system engineering management plan, concept of operations, project plan, and procurement documents for a Smart Cities initiative combining ITS and smart parking. The project will deploy cameras, arterial dynamic message signs, vehicle detection, parking occupancy information to communicate real time traffic and parking conditions throughout the City. Also through this contract, Kimley-Horn is providing hot spot signal timing support for the City of Miami Beach in coordination with Miami-Dade County.

Miami-Dade MPO GPC IV #05 Automated Bicycle Rental System and Parking Plan Study, Miami-Dade County, FL
Project analyst responsible for collecting, analyzing, and illustrating the socio-economic and demographic information surrounding the identified key focus areas for installing the automated bicycle rental systems. The assessment used geographic information systems (GIS) to compare each focus area's bicycle accessibility. These types of bicycle sharing systems allow a user to take a bike conveniently from their point of origin and return it to the system at a different location.

John McWilliams, P.E.

Traffic Engineering/Transportation Planning/Transit; Bike Pedestrian Paths and Greenways

Relevant Experience

City of Miami Transportation Program Support Services, Miami, FL — Project engineer for Transportation Program Support Services contract with the City of Miami. In this role, Kimley-Horn served as an extension of the City's staff assisting in the program management and administration of transportation and transit projects in the City's Capital Improvements Program (CIP). Kimley-Horn's responsibilities include providing oversight of projects encompassing planning, design, and construction activities.

Fort Lauderdale General On-Call Traffic Engineering Services, FL — Project engineer for general traffic engineering and transportation planning services as part of an on-call contract with the city. Kimley-Horn serves as an extension of the City of Fort Lauderdale staff reviewing traffic impact studies and parking analyses. Projects to date have included peer review of traffic impact and parking studies, site plan review, and representation at public hearings.

NE 36th Street and Biscayne Boulevard/SR A1A Intersection Roadway Improvements, Miami, FL — Project manager for the preparation of a traffic study and determination intersection improvements at NE 36th Street and Biscayne Boulevard/SR A1A. This analysis included traffic data collection, design traffic forecasts, intersection operational analysis, and the development of long-term improvements for the study intersection. The operational analysis examined existing and future traffic conditions during the weekday peak hours. Significant coordination was held with FDOT, City of Miami Beach, and Miami Dade County Public Works and Waste Management Department's Signal and Signs Division.

Districtwide Pedestrian and Bicycle Consultant, FDOT District Six, FL — Served as project manager for an ongoing districtwide contract. Kimley-Horn's duties include conducting an engineering review of plans and reports for incorporating, extending, and/or enhancing bicycle and pedestrian facilities, submitting project review comments within the Electronic Review Comment (ERC) process, presenting current FDOT projects to the Miami-Dade BPAC on a monthly basis for review and comment, providing non-motorized transportation expertise at stakeholder meetings, and coordinating with design engineers and FDOT project managers as necessary. In addition, Kimley-Horn has assisted the department with performing ancillary tasks such as developing a bicycle ways design checklist, assisting in the development of sharrow marking prioritization criteria, and performing field data collection tasks.

NE 185th Street at NE 28th Court Traffic Signal Warrant Analysis and Signal Design, FL — Project engineer. Kimley-Horn served as design engineer for the City of Aventura for the design of a new traffic signal installation at the intersection. Through early design analysis, Kimley-Horn identified the need for traffic signal equipment easements needed to provide the proper clearance from existing electrical transmission lines along the south side of the intersection. Tasks included traffic signal warrant analyses, design, utility coordination, and construction phase services.

Districtwide Traffic Operations 3R Safety Reviews, FDOT District Four, FL
Project engineer for a contract that involves a holistic approach to traffic enhancements in concert with planned roadway construction projects to improve the safety of the district's roadways. The department is looking at both infrastructure countermeasures in addition to public marketing/education campaigns. Kimley-Horn will be responsible for establishing the nature of the safety issue, deciding whether it can be corrected through an education/marketing campaign or whether it needs an engineering solution. We will then develop an implementation plan to address any deficiency.

Special Qualifications

- Has 21 years of experience in traffic engineering and transportation planning experience, 18 of which have been in South Florida
- Expertise in traffic operations, transportation planning, and access management

Professional Credentials

- Bachelor of Science, Civil Engineering, Ohio Northern University, 2000
- Professional Engineer in Florida, #62541, February 14, 2005
- Institute of Transportation Engineers (ITE)

John McWilliams, P.E.

Relevant Experience (continued)

Aventura General Services Contract, FL — Serving as project manager. Kimley-Horn is currently providing general traffic engineering and transportation planning services to city staff. Primary assignments include peer review of traffic impact and parking studies, site plan review, representation at public hearings, and signalization design. Additional assignments include the comprehensive study of various proposed infrastructure modifications, including Aventura Mall access and circulation, William Lehman Causeway interchange justification, US 1 median closures, and the extension of Miami Gardens Drive (east of US 1/Biscayne Boulevard).

Royal Palm Boulevard Improvements (Royal Palm Boulevard Bridge over Margate Canal), Margate, FL — Project engineer. Our services included the engineering design and development of construction documents for Royal Palm Boulevard Improvements beginning approximately 200 feet± east of the Margate Canal and extending east to the west half right-of-way of SR 7 (441), approximately one mile in total length. The project involved realignment of the roadway, east- and westbound left-turn lanes, access management modifications, renovation of an existing bridge and medians, construction of pedestrian bridges, base enhancements, milling and resurfacing, providing new asphalt areas, swale improvements, minor drainage improvements, and lighting improvements. Professional services included design, permitting, coordinating with utility providers for adjustments and/ or relocations, preparing quantity calculations and engineers' estimates of probable costs, and limited construction phase services.

I-95 Corridorwide Planning for Operational Deficiencies, US 1 to Broward County Line, Broward County, FL — Serves as project manager. Kimley-Horn is developing and evaluating improvement concepts and performing a detailed planning level operational analysis for the I-95 corridor within District Six. The study's purpose is to identify recurring bottlenecks and develop a series of proposed improvements to address current and future demands on the corridor. The analysis includes evaluation of the study interchanges, interchange influence areas, and ramp junctions, as well as post-implementation operational conditions of the 95 Express corridor improvements. Multiple improvement alternatives are being developed for the mainline and system-to-system connections.

US 441 (SR 7) Prospect Road "Breeze" Bus Queue Jumper, Fort Lauderdale, FL — Project engineer on the Kimley-Horn team that provided planning and design services for two transit signal priority projects in Broward County, including a bus queue jumper lane at the US 441/Prospect Road intersection. Responsible for designing the signal modifications required for queue jumper operations, including a unique signage and signal operating plan.

SR 7/US 441 at NW 29th Street, Lauderdale Lakes, FL — Design engineer of record for a mast arm conversion project as part of a retail redevelopment on the west side of SR 7/US 441. Responsibilities included signal/interconnect design and permitting, utility coordination, and construction phase services.

McNab Road at Avon Lane, North Lauderdale, FL — Design engineer of record for mast arm conversion project as part of a new retail development along the south side of McNab Road. Responsibilities include signal design and permitting, utility coordination, bidding assistance, and construction phase services.

Flamingo Road and Silver Falls Boulevard, Miramar, FL — Design engineer of record for a new mast arm signal installation to serve a large residential development in south Miramar. Effort included signal design and permitting, utility coordination, and construction phase services.

Biscayne Boulevard Roadway Diet between SE 1st Street and NE 5th Street, Miami, FL — Project manager to prepare a traffic analysis to assess traffic conditions, if the number of travel lanes on Biscayne Boulevard between SE 1st Street and NE 5th Street were reduced. A total of four different laneage configurations were developed. Analyses were conducted for weekday A.M. and P.M. peak hours. Significant coordination was held with City of Miami and Miami Downtown Development Authority.

Districtwide Modal Development Consultant (includes South Florida Regional Freight Plan), FDOT District Four, FL
Project engineer who provided traffic signal design services and traffic operational analyses for several task work orders, including the Bus Queue Jumper demonstration project. Kimley-Horn has served as a Districtwide Modal Development Consultant to Florida Department of Transportation (FDOT) District Four since 2006. Kimley-Horn's responsibilities include travel demand modeling (multimodal), transportation systems management, congestion management, intermodal facilities, park-and-ride lot planning, multimodal alternatives analysis, transit planning, and bicycle and pedestrian planning.

Stewart Robertson, P.E.

Traffic Engineering/Transportation Planning/Transit; Bike Pedestrian Paths and Greenways; Complete Streets & ADA Plans

Relevant Experience

Fort Lauderdale General On-Call Traffic Engineering Services, Fort Lauderdale, FL
Project engineer for general traffic engineering and transportation planning services as part of an on-call contract with the City. Kimley-Horn serves as an extension of the City of Fort Lauderdale staff reviewing traffic impact studies and parking analyses. Projects to date have included peer review of traffic impact and parking studies, site plan review, and representation at public hearings. Additional projects have included development of a corridor study to support lane reductions along SR A1A and development of a Greenways Plan to complement multimodal transportation options within the corridor.

Black Creek Trail Segment A Construction Documents, Miami-Dade County, FL
Project manager for the Kimley-Horn team that prepared construction documents for Black Creek Trail, Segment A, which is a 9.1-mile, multi-use greenway trail in southern Miami-Dade County. Our client was the Miami-Dade Park and Recreation Department (MDPR). Duties included overseeing and coordinating all phases of this project ranging from programming and schematic design through construction phase services. Our design incorporated a non-motorized trail and linear park design within the Black Creek Canal (C-1) right-of-way owned by the South Florida Water Management District (SFWMD). Key challenges on this project we addressed included slope stability near the canal bank, crossing several major roadways (including a six-lane section of U.S. 1), and working within SFWMD design standards for permitted use of their right-of-way.

Broward Complete Streets Greenways Integration Study, Broward County, FL
Served as project manager for the Kimley-Horn team that prepared the Broward Complete streets Greenways Integration Study for the Broward County Planning and Redevelopment Division. The Study identifies strategies to synthesize and integrate the Complete streets and Greenways Planning initiatives toward a common goal. Developed a methodology for identifying connectivity and accessibility opportunities. Conducted municipal/agency outreach activities to identify planning and local concerns. Common policies shared by greenways and Complete streets were researched and identified that could be capitalized upon for integration.

Miami Lakes Greenways and Trails Plan, Miami Lakes, FL — Project manager for the Miami Lakes Greenways and Trails Plan, which was conducted through a grant from the Miami-Dade MPO. We developed recommendations for providing a Town-wide network of greenway trail facilities and pedestrian safety improvements. The Plan focused on key elements of non-motorized transportation including pedestrian pathways, bicycle trails, shared-use paths, recreational greenways, and connections to mass transit, thereby optimizing walking and bicycling as healthy, clean transportation options in Miami Lakes. The Plan included a mix of facility types making practical use of existing opportunities within the Town.

SR A1A Streetscape Improvements, Fort Lauderdale, FL — Project engineer. Kimley-Horn is providing full civil engineering services for the redevelopment of the existing streetscape of State Road A1A Northbound from the South Beach Parking to Alhambra Street along Fort Lauderdale Beach. The project consists of improving the sidewalk on both sides of the street outside of the curbing in order to provide modern and cohesive look, a definitive delineation between the pedestrian zone and the outdoor restaurant café zone, and improve pedestrian experience while walking along the beach and to its businesses. The trees and light poles are being consolidated near the back of curb to open up the pedestrian zone and provide a clear walking path. Kimley-Horn is the prime consultant on the project, with a team of local subconsultants, and is responsible for providing the civil engineering, permitting, coordination, and other services for the complete project.

Special Qualifications

- Has 19 years of experience specializing in transportation planning and engineering, with an emphasis in multimodal planning and design including complete streets and bicycle/pedestrian safety and mobility
- Experience includes transit studies; transit ITS implementation; corridor analysis; intersection capacity analysis; travel demand analysis; and geographic information systems (GIS)

Professional Credentials

- Master of Science, Civil Engineering, University of Kentucky, 2001
- Bachelor of Science, Civil Engineering, University of Kentucky, 2000
- Professional Engineer in Florida, #63939, December 31, 2005
- American Society of Civil Engineers (ASCE)
- Association of Pedestrian and Bicycle Professionals
- Institute of Transportation Engineers (ITE)
- National Society of Professional Engineers (NSPE)

Stewart Robertson, P.E.

Relevant Experience (continued)

Village of Palmetto Bay, Initial Transportation Plan, Palmetto Bay, FL — Project engineer for the Initial Transportation Plan for the newly-incorporated Village of Palmetto Bay. As part of the effort, transportation plans were reviewed to gather information about planned and programmed transportation improvements within the Village. Existing traffic conditions within the Village were assessed to evaluate demand on the existing street network and to perform an initial determination of needs.

City of Miami Transportation Program Support Services, Miami, FL — Project engineer for Transportation Program Support Services contract with the City of Miami. In this role, Kimley-Horn served as an extension of the City's staff assisting in the program management and administration of transportation and transit projects in the City's Capital Improvements Program (CIP). Kimley-Horn's responsibilities include providing oversight of projects encompassing planning, design, and construction activities.

Bicycle and Pedestrian (Bike/Ped) Mobility Plan, Miami Gardens, FL — Project manager for a bicycle and pedestrian mobility plan for the City of Miami Gardens. The project included recommendations for short- and long-term mobility improvements based on the literature review, transportation mobility analysis, identification of goals and objects, and input from the Steering Committee. We analyzed existing transportation mobility conditions and community features in Miami Gardens through the use of geographic information systems (GIS) and prepared a series of maps that illustrate the background conditions for improving the City's bicycle and pedestrian mobility. The Kimley-Horn team used the methodologies established in the 2009 FDOT Quality/Level of Service Handbook to assess the bicycle and pedestrian level of service of the major roadways with the City and mapped the results with GIS.

Broward Complete streets Guidelines, Broward County, FL — Project manager for the preparation of the Broward Complete streets Guidelines for a partnership including the Broward Regional Health Planning Council (BRHPC) and the Broward MPO. Kimley-Horn was tasked with developing guidelines that were customized for local Broward jurisdictions and reflected in local conditions, Florida State Statutes, and Florida design criteria. Themes incorporated into the Guidelines include public health, smart growth, transportation equity, sustainability, placemaking, safety, and age-in-place. The Guidelines present standards and design guidance for planners, engineers, and maintenance officials to achieve a vision of implementing Complete streets principles, which aim to design streets for people of all ages and physical abilities and accommodate all travel modes. Duties included development of technical content, stakeholder coordination, and monthly presentations to the Complete streets Technical Committee.

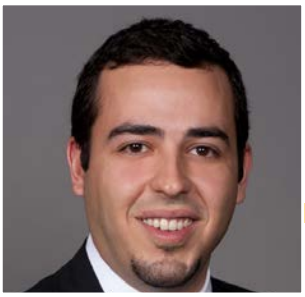
Dixie Highway/21st Avenue Corridor Redesign Concept and Mobility Study, Hollywood, FL — Project manager. Through contracts with the City of Hollywood and the Hollywood CRA, Kimley-Horn prepared a Redesign Concept Study for the Dixie Highway and 21st Avenue corridor throughout Hollywood between Pembroke Road and Sheridan Street. A vision for a "transit-ready corridor" along the FEC Railroad was created by designing Complete streets solutions in anticipation of re-establishing passenger rail service through seamless integration of an anticipated Tri-Rail Coastal Link station. The Complete streets approach recommended in this study includes a "road diet" lane reduction to repurpose excess automobile capacity for bicyclist, pedestrian, and transit improvements. In addition, the Complete streets approach will establish a transit-ready corridor for seamless integration of an anticipated Tri-Rail Coastal Link station along the Florida East Coast (FEC) Railroad.

South Miami Intermodal Transportation Plan (ITP), Miami, FL — Project engineer for a plan to enhance the existing transportation system and mobility choices available to residents, workers, and visitors to the City. An integral component of this effort is to establish and implement the SMITP, which identifies an interconnected network of mobility and safety improvements based on smart growth and Complete streets principles. The goal of the SMITP is to identify and prioritize pedestrian and bicycle projects throughout the City, as well as to enhance access to public transportation. Some of the improvements included in the plan are bike paths, neighborhood greenways, sidewalks, crosswalks, on-street bike lanes, buffered bike lanes, enhanced shade landscaping and tree canopies, traffic calming to help make streets safer, and improving the timing for pedestrian crosswalk signals.

Bicycle/Pedestrian Mobility Plan for the Miami Downtown Development Authority Area, Miami, FL — Project manager for a joint effort of the Metropolitan Planning Organization (MPO) and the Miami Downtown Development Authority (DDA). Significant aspects of the Plan included the transportation mobility analysis, setting of goals and objectives, developing recommendations, and coordinating a 15-member steering committee. Recommendations were organized into 37 distinct projects, for which project specific implementation tasks, lead agencies, support agencies, and cost ranges were identified. Projects focused on improving mobility and safety for pedestrians and bicyclists in the downtown area. At its conclusion, the Plan was endorsed by both the MPO Governing Board and the DDA Governing Board.

Omar Kanaan, P.E.

Traffic Engineering/Transportation Planning//Transit



Relevant Experience

General On-Call Traffic Engineering Services Consultant, Fort Lauderdale, FL
Project engineer. Kimley-Horn is providing general traffic engineering and transportation planning as part of an on-call contract with the City. Kimley-Horn serves as an extension of the City of Fort Lauderdale staff reviewing traffic impact studies and parking analyses. Duties to date have included peer review of traffic impact and parking studies, site plan reviews, and representation at public hearings. Additional projects have included development of a corridor study to support lane reductions along SR A1A and development of a Greenways Plan to complement multimodal transportation options within the corridor.

Las Olas Boulevard Corridor Improvements, City of Fort Lauderdale, FL
Project engineer. Kimley-Horn is providing preliminary design, evaluation, and due diligence services for this mixed-use project for the City of Fort Lauderdale Community Redevelopment Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage; active park and plaza areas; and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a "Complete Streets" design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of Las Olas Boulevard. The design of Oceanside Plaza includes space for special events such as festivals and concerts; play areas for children; and a convenient porte-cochere drop off. Kimley-Horn is providing the initial site civil engineering design, roadway design, permitting coordination, stormwater, utility, franchise utility coordination, and other services.

City of Miami Transportation Program Support Services, Miami, FL — Project engineer for general traffic engineering and transportation planning services as part of an on-call contract with the City. Kimley-Horn served as an extension of the City of Miami staff preparing traffic operations analyses, transportation planning, traffic calming and complete streets improvements; transit planning and operations; geographic information system (GIS)/database management design of street; and parking analysis and design.

City of Aventura Traffic Engineering Services Consultant, Miami, FL — Project engineer. Kimley-Horn is currently providing general traffic engineering and transportation planning services to City staff as a subconsultant to another firm. Duties include peer review of traffic impact and parking studies, site plan review, representation at public hearings, and signal design. Additional duties include comprehensive study of various proposed infrastructure modifications, including Aventura Mall access and circulation, William Lehman Causeway interchange justification, US 1 median closure, extension of Miami Gardens Drive (east of US 1/Biscayne Boulevard) and evaluation of potential railroad crossings.

Village Transportation Master Plan, Pinecrest Village, FL — Project engineer for the development of a Village wide transportation master plan. Project includes the identification, development, and conceptual design of improvements along corridors and intersections focusing on traffic operations, traffic calming, and multimodal enhancements. Tasks include operational analysis, future traffic forecasting, improvement design, public outreach and cost estimating.

Miami-Dade County Shared Mobility Assessments, Miami-Dade County, FL
Project engineer. Kimley-Horn was tasked with executing the discussions and analyses necessary to envision the future of public transportation in Miami-Dade County and to develop recommendations to integrate emerging shared mobility solutions into the

Special Qualifications

- Has seven years of traffic/ transportation engineering and transportation planning experience related to safety studies, corridor studies, traffic impact studies, traffic operational studies, signal warrant analyses, vehicle maneuverability analysis, and valet operation studies
- Proficient in AutoCAD, AutoTURN maneuverability software, Highway Capacity Software (HCS), Synchro, SimTraffic, CORSIM, and ArcMap (GIS)

Professional Credentials

- Master of Science, Civil Engineering, Western Michigan University, 2012
- Bachelor of Science, Civil Engineering, Western Michigan University, 2010
- Professional Engineer in Florida, #81433, June 15, 2016

Omar Kanaan, P.E.

Relevant Experience (continued)

planning and development of the of six (6) corridors of the Strategic Miami Area Rapid Transit (SMART) Plan. Shared mobility solutions include first-mile/last-mile transportation options, on-demand and fixed route microtransit, mobility-as-a-service (MaaS), ridesourcing, and dynamic and on-demand carpooling among others.

Collins Parking Garage, Miami, FL — Project engineer. Kimley-Horn worked with the City of Miami Beach, the design architect, the architect of record, and other project team members, to provide landscape architecture and traffic engineering services for the design of this parking garage. The Collins Parking Garage project provides more than 400 parking spaces for the Collins mixed use project which includes 20,000 square feet of retail.

Starwood Office Headquarters Building — Project engineer. Kimley-Horn was selected to provide transportation engineering services for Starwood Headquarters. The proposed redevelopment consists of an office building and the parcel proposed for redevelopment is currently occupied by a surface parking lot. Our scope of services includes a traffic impact study encompassing trip generation, methodology determination, traffic data collection, trip distribution and assignment, capacity analysis, pedestrian facility evaluation, transportation demand strategies strategy documentation, documentation findings, maneuverability, valet operations analysis, and FDOT coordination.

Culmer and Lummus Park Neighborhood Traffic Calming Study, Miami, FL — Project manager. Kimley-Horn prepared a neighborhood traffic calming study to assess the magnitude of cut-through and speeding traffic in the Culmer and Lummus Park neighborhoods within the City of Miami. The study area was generally bounded by NW 14th Street to the north, NW 1st Street to the south, Interstate 95 to the east, NW 7th Avenue/NW North River Drive to the west. The project included stakeholder meetings, data collection and analysis, Miami-Dade County and Commissioner office coordination, and the preparation of a phased traffic calming plan.

Northeast Overtown & Town Park Traffic Calming Study, Miami, FL — Project manager. Kimley-Horn prepared a neighborhood traffic calming study to assess the magnitude of cut-through and speeding traffic in the Northeast Overtown & Town Park neighborhoods within the City of Miami. The study area was generally bounded by NW 20th Street to the north, Interstate 395 to the south, the Florida East Coast (FEC) Railway to the east, Interstate 95 to the west. The project included stakeholder meetings, data collection and analysis, Miami-Dade County and Commissioner office coordination, and the preparation of a phased traffic calming plan.

Coral Gate Neighborhood Traffic Calming Study, Miami, FL — Project engineer. Kimley-Horn prepared a neighborhood traffic calming study to assess the magnitude of cut-through and speeding traffic in the Coral gate neighborhood within the City of Miami. The study area was generally bounded by SW 16th Street to the north, SW 22nd Street to the south, SW 32nd Avenue to the east, and SW 37th Avenue to the west. The project included stakeholder meetings, data collection and analysis, Miami-Dade County and Commissioner office coordination, and the preparation of a phased traffic calming plan.

Spring Garden Neighborhood Traffic Calming Study, Miami, FL — Project engineer. Kimley-Horn prepared a neighborhood traffic calming study to assess the magnitude of cut-through and speeding traffic in the Spring Garden neighborhood within the City of Miami. The study area was generally bounded by NW 11th Street to the north, the Miami River to the south, NW 7th Avenue to the east, NW 12th Avenue to the west. The project included stakeholder meetings, data collection and analysis, Miami-Dade County and Commissioner office coordination, and the preparation of a phased traffic calming plan.

South/West Grapeland Heights Neighborhood Traffic Calming Study, Miami, FL — Project engineer. Kimley-Horn prepared a neighborhood traffic calming study to assess the magnitude of cut-through and speeding traffic in the South/West Grapeland Heights neighborhood within the City of Miami. The study area was generally bounded by Dolphin Expressway/ SR 836 to the north, NW 7th Street to the south, NW 27th Avenue to the east, and NW 42nd Avenue to the west. The project included stakeholder meetings, data collection and analysis, Miami-Dade County and Commissioner office coordination, and the preparation of a phased traffic calming plan.

George Puig, PLA, ASLA

Landscape Architecture/Parks & Rec

Relevant Experience

North Bay Village Baywalk Plaza Area Design, North Bay Village, FL — Project manager and landscape architect. As prime consultant, Kimley-Horn provided North Bay Village with landscape architecture and civil engineering services for the site improvements to separate plaza areas and connector boardwalk under the east bridge along JFK Causeway. Services included the design of landscape architectural components including hardscape, landscape, site furniture, site lighting and irrigation from concept through construction. Part of the design elements of the project includes an iconic "sail structure" to serve as a focal point. The contract was funded through The Florida Inland Navigation District (FIND).

North Bay Village Continuing Services Agreement for Planning, Utilities, Engineering, and Roadways, North Bay Village, FL — Landscape architect. Kimley-Horn provides general engineering services for the City of North Bay Village on an ongoing basis. Services have included water and wastewater studies, planning, design, permitting, and construction phase services.

City of Miami General Landscape Architectural Services Contract, Miami, FL — Project manager for the Kimley-Horn team that is providing the City of Miami with landscape architecture services at various project sites throughout the City. Services include the design of landscape architectural components including hardscape, landscape, site furniture, site lighting and irrigation for different project types including parks, streetscapes, and other related urban public realm areas from concept through construction. The contract is being funded through The City of Miami Capital Improvements Program (CIP).

General Landscape Architectural Services Contract, Village of Palmetto Bay, FL Project manager for the Kimley-Horn team that is providing the Village of Palmetto Bay with landscape architecture services, including the design of landscape architectural components including hardscape, landscape, site furniture, site lighting and irrigation for different project types including parks, streetscapes, and other related urban public realm areas from concept through construction.

Landscape Design Services for Beautification of US 1 Medians, Palmetto Bay, FL — Project manager and landscape architect. Kimley-Horn developed planting and irrigation designs for existing US 1 medians between SW 136th and SW 184th Street consisting of 24 medians spanning 6 miles. The planting design incorporated new trees, palms, shrubs, and groundcovers into the medians following FDOT design standards. The planting and irrigation contract documents were presented to FDOT for right-of-way landscape permits. The scope included conceptual design, planting and irrigation design, and permit processing assistance.

Miami Urban Design, Landscape Architecture and Engineering Services for a Flex Park at Virginia Key, Virginia Key, FL — Project Manager. Working in collaboration with another firm, Kimley-Horn is serving as the local landscape architect involved in the conceptual and schematic phases of the project. Re-imagining the 24 acres of waterfront open space adjacent to the historic Marine Stadium on Virginia Key as a world-class park, the park has been contemplated as an area for flexible public recreation and special events. Working closely with another firm on the design intent, Kimley-Horn's scope of services includes planting design, code review and analysis, hardscape material selection, and coordination with city officials and stakeholders.

Regatta Park, Miami, FL — Project manager for the Kimley-Horn team that provided landscape architecture services for Regatta Park in the City of Miami, a new 15-acre waterfront passive park that will transform the underutilized waterfront into a more

Special Qualifications

- Has 30 years of landscape architecture experience
- Chair of the Miami-Dade County Waterfront Development Review Committee
- Citizens for a Better South Florida Executive Board Member
- Neat Streets Miami - Board Member
- Team oriented with a unique blend of design knowledge and management experience
- Critical involvement in recreational and streetscape type projects from concept through construction administration

Professional Credentials

- Bachelor of Landscape Architecture, Landscape Architecture, University of Florida, 1989
- Professional Landscape Architect in Florida, #0001706, November 30, 2000
- Professional Landscape Architect in Puerto Rico, #41, August 12, 2008
- Crime Prevention Through Environmental Design (CPTED) certification
- Roadside Vegetation Management advanced training certification
- American Society of Landscape Architects (ASLA) , Full Member
- Urban Land Institute
- Colegio de Arquitectos y Arquitectos Paisajistas de Puerto Rico (CAAPPR)

George Puig, PLA, ASLA

Relevant Experience (continued)

cohesive and vibrant public space that will help connect the general public to the waterfront. The main features of the park include the Expo Lawn, Regatta Lawn, Tropical Gardens, Promenade, Multi-use Path Connector, Tree Alee and Children's Play Area. Kimley-Horn was tasked with the landscape architectural and civil engineering design of the park from concept through construction administration.

The Underline Master Plan, Miami-Dade County, FL — Project manager. The Underline is an iconic bicycle and pedestrian greenway and urban linear park under the Miami-Dade Metrorail corridor. Our services included site analysis, mobility recommendations, transportation safety recommendations, framework plan support, key agency review meetings, and public meeting support. One of the key results of Kimley-Horn's participation in The Underline Master Plan was developing innovative engineering techniques for providing intersection crossing safety; improvements included wide crossings with separate space for bicyclists and pedestrians, innovative pavement markings, colored pavement treatments, and recessed stop bars for motor vehicle traffic to accommodate the wide crossings. Kimley-Horn provided transportation engineering services in the development of two demonstration projects including the "Brickell Backyard" and the "University Colonnade" sections of The Underline.

The Underline Phase I and II Design Criteria Package, Miami, FL — Landscape architect. Kimley-Horn is providing professional services to Miami-Dade County to develop a design-build criteria package for the Underline, a 10-mile linear trail and urban park underneath Miami's elevated Metrorail line. Services included utility coordination, development of design standards, schematic layouts for six intersection crossings, including bike lanes and pedestrian crossings, signage, pavement markings, and signal modifications. Design criteria for landscape architectural features and amenities was also included.

Broadway and 1st Avenue Park, Miami, FL — Project manager. Kimley-Horn provided landscape architectural and engineering services for this new 59,327-square-foot passive park that is partially underneath a portion of the existing elevated Metrorail line. The program elements for the park include a playground, separate pedestrian and bike paths, a dog park, sit furniture, site lighting, landscaping and irrigation, fencing and gates, berms, vehicular access to the existing MDT storage area, and pedestrian access to the adjacent park. The project was broken down into the following tasks: conceptual design, schematic design, geotechnical investigations, contract documents, meetings and coordination with County/ Underline, permitting, bidding assistance, and limited construction phase assistance.

Miami A/E Services for Shenandoah Park and New Swimming Pool Facility, Miami, FL — Project Manager. Kimley-Horn is providing landscape architectural and civil engineering services related to the demolition of the existing pool facility and building and the planning and design of a New Swimming Pool Facility. Currently the park site houses Fire Station No. 14. This Fire Station will be removed and the parking lot where the Fire Station currently is located will be renovated as part of the implementation of the General Park Plan Enhancements and the construction of the new pool facility. The project consists of a new controlled access swimming pool facility including A Long Course pool, possibly an "L" shaped pool, in which the large area shall be 50.3 meters long with eight to ten swimming lanes; Pool bath house, and lifeguard office/first aid room.

Altamonte Springs Gateway Drive Extension Final Design, Altamonte Springs, FL — Landscape architect involved with the landscape and streetscape elements of this project, which involved the new construction of approximately one mile of four-lane, divided urban roadway from east of Forest City Road to Keller Road. It also included construction of a new two-lane, urban roadway and widening for auxiliary lanes along Maitland Boulevard and Keller Road. The disciplines involved in this project included roadway, drainage, floodplain, utilities, traffic control, signing/pavement marking, signalization, structural, landscaping, permitting, and right-of-way-mapping.

Biscayne Green, Miami, FL — Project Manager. Working with the Miami Parking Authority and in collaboration with the Miami Downtown Development Authority, Kimley-Horn is actively developing a long-term vision for the redesign of a portion of Biscayne Boulevard in downtown Miami. The segment of Biscayne Boulevard between SE 1st Street and NE 6th Street will be transformed from parking lots and travel lanes into a dynamic linear park and promenade linking downtown and Bayfront Park. The intent is to narrow the vehicular corridor along this stretch from 8 lanes to 4 lanes of traffic and remove the NE 1st and 4th Streets intersections to increase connectivity and meet the transportation needs of all street users in a safe and enjoyable manner. Throughout the visioning process, from information gathering and consensus building to program planning, the Kimley-Horn team engaged the public as well as advisory and stakeholder committees to inform the design.

Jonathan Haigh, PLA, ASLA

Landscape Architecture/Parks & Rec

Relevant Experience

SR A1A Complete Streets Design, Hollywood, FL — Landscape architect of the Kimley-Horn team serving the City of Hollywood to help reduce the number of travel lanes and incorporate Complete Streets elements within the corridor between Hollywood Boulevard and Sheridan Street. The concept plans will include a reduction of speed, improving safety for vehicles, pedestrians, and bicyclists; wider sidewalks, buffered bicycle lanes, and designated loading zones; and improved street furniture, landscaping, and signage. The team will also provide traffic signal/roundabout analysis, driveway access review, emergency vehicle access review, meetings and coordination, and permitting services. Part of the project includes preparation of pilot plans/temporary implementation construction plans (to be permitted from FDOT) to allow the public to experience the lane reduction on a trial basis to test its effectiveness prior to making it permanent.

SR A1A Streetscape Improvements, Fort Lauderdale, FL — Landscape architect. Kimley-Horn is providing full civil engineering services for the redevelopment of the existing streetscape of State Road A1A Northbound from the South Beach Parking to Alhambra Street along Fort Lauderdale Beach. The project consists of improving the sidewalk on both sides of the street outside of the curbing in order to provide modern and cohesive look, a definitive delineation between the pedestrian zone and the outdoor restaurant café zone, and improve pedestrian experience while walking along the beach and to its businesses. The trees and light poles are being consolidated near the back of curb to open up the pedestrian zone and provide a clear walking path. Kimley-Horn is the prime consultant on the project, with a team of local subconsultants, and is responsible for providing the civil engineering, permitting, coordination, and other services for the complete project.

Clematis Streetscape Improvements, West Palm Beach, FL — Project manager and lead landscape architect. Kimley-Horn is providing landscape architecture and civil engineering services as part of the team designing improvements to the 300 block of Clematis Street in downtown West Palm Beach. After several public input meetings with Clematis Street merchants, stakeholders, residents, and visitors, the City Commission voted to implement recommendations from the design team to implement a transformative change to this destination street in downtown West Palm Beach. The design features a paver-covered, curbless street with narrowed travel lanes, premium paver sidewalks, permeable paver parking spaces, custom-designed seating areas, and a landscape featuring large Live Oaks to provide significant shade for pedestrians. The design features the City's first implementation of suspended pavement systems, which, in combination with Structural Soil, will provide a significant root zone space for the Live Oaks to thrive. Kimley-Horn provided engineering services for the relocation of a water line as well as providing an improved drainage solution, unique to the curbless street.

Federal Highway (US 1) Interim and Final Enhancements, Delray Beach CRA, FL — Landscape architect. Kimley-Horn was retained by the Delray Beach CRA to design permanent improvements to reduce north- and southbound US 1 (NE 6th Ave. and NE 5th Ave.) to two lanes each way and provide on-street parking on both avenues. The improvements encourage slower speeds and a safer, more pedestrian-friendly environment. The project included landscaping beautification and decorative, environmentally sensitive street lighting; irrigation design; bicycle lanes; and a new sense of continuity with the Downtown area with pavers and decorative crosswalks.

Historic Miramar Complete Streets, Miramar, FL — Project manager for the development of design concepts and a phasing plan for the City to implement their Complete Streets vision utilizing a Broward County Redevelopment Program grant.

Special Qualifications

- Has 24 years of experience as a practicing professional landscape architect
- Skilled designer with park-related project experience throughout the Southeast United States: eight community parks of 60 acres and greater, more than 20 passive parks of varying size, and more than 50 miles of dedicated greenways
- Experienced in applying a practical and budget-friendly, yet creative design approach to each project
- Proficient in applying sustainable principles in project design and incorporating the design of Florida-friendly landscapes and water-efficient irrigation systems

Professional Credentials

- Bachelor of Landscape Architecture, Landscape Architecture, University of Arkansas, 1995
- Professional Landscape Architect in Florida, #6666795, May 25, 2005
- American Society of Landscape Architects (ASLA), Past President
- Florida Recreation and Parks Association

Jonathan Haigh, PLA, ASLA

Relevant Experience (continued)

Opinions of probable construction cost were developed in support of the phasing plan, along with a narrative detailing the design and cost differences between the initial grant application and current anticipated construction pricing. The Complete Streets improvements, designated for the 255-acre project area, include 7 miles of sidewalk improvements with accessible ramps and crosswalks, potential biking facilities, decorative crosswalk treatments, street trees, sodded swale improvements, irrigation, and pedestrian level lighting.

Palmetto Park Road Improvements and Downtown Boca Raton Pedestrian Promenade, Boca Raton, FL — Landscape architect. For this retail district through the downtown area, Kimley-Horn provided full roadway and streetscape design and landscape architectural design to create a pedestrian friendly downtown with emphasis on a promenade connecting Plaza Real with Mizner Park. Intersections were redesigned to reduce pavement crossing width, minimize turn lanes, emphasize pedestrian crossings and modify signal timing to improve the pedestrian and downtown environment. Special emphasis was placed on providing an inviting pedestrian experience along retail businesses and providing on-street parking. Improvements include brick paved intersections, introduction of curbless streets along NE 1st Avenue, reconstruction of Boca Raton Road with an inverted crown roadway with wider sidewalks and on-street parking. Curbless streets were introduced to enable their use for special events when streets can be closed for fair events. Landscape and hardscape improvements include planter islands and wide brick paver sidewalks on both sides of the roadways. Improvements along Palmetto Park Road include construction of wider brick paver sidewalks, raised brick paver intersections, lighted bollards, and new decorative street lighting.

Design-Build Criteria Packages for Broward MPO Regional Complete Streets Initiatives, FDOT District Four, Broward County, FL — Landscape architect for the development of five design-build criteria packages for the following locations in Broward County: Hammondville Road from Powerline Road to W. of I-95; NW 31st Avenue from Commercial Blvd to McNab Road; Powerline Road from Oakland Park Blvd to Commercial Blvd.; Lauderdale Lakes Greenway from NW 31st Ave to NW 29th Ave.; and Riverland Road from SR-7/US-441 to SR-842/Broward Blvd. The MPO requested the construction of new bicycle and pedestrian facilities in the existing right-of-way to improve safety and access for Broward's residents and provide more transportation alternatives. Design services also include milling and resurfacing, utility coordination, signing and pavement marking, signal improvements, landscaping, and public involvement.

Delray Beach CRA Continuing Landscape Architecture Services, Delray Beach, FL — Project manager and landscape architect. Kimley-Horn has been repeatedly selected to provide on-call landscape architecture services to the Delray Beach CRA. In our many years of work for the CRA, Kimley-Horn's multi-disciplined staff of planners, landscape architects, engineers, and environmental scientists collaborated on several projects to complete multi-phased projects for the CRA. These projects included various studies and development of concept plans that involved public involvement programs to build consensus within the community, along with successful collaboration between CRA and City staff. Kimley-Horn has successfully taken a variety of landscape architecture and streetscape design projects to the final design phase to help the City realize its vision.

Miramar Historic Downtown Revitalization, Miramar, FL — Landscape architect. The Historic Downtown Revitalization is a streetscape project on Miramar Parkway between SW 68th Avenue to SW 69th Way within the City of Miramar. The project improvements include landscaping, sidewalks, street lighting, ADA improvements at the intersections, and a mid-block pedestrian crossing. Additionally, SW 69th Way had minor flooding issues which were addressed during this project.

Hollywood US 1 Corridor Study, Hollywood, FL — Project manager of the Kimley-Horn team selected to design a new cross section for a portion of US 1 that would allow for wider medians, improved sidewalk plantings, and extended medians to control access and improve safety through the corridor. In order to accomplish the City's goals for the corridor, Kimley-Horn worked with FDOT to designate this section of the road under their Transportation Design for Livable Communities (TDLC) program. The TDLC designation allows for a more advantageous horizontal clearance that will allow for larger trees to be planted closer to the curbs and paves the way for allowing the design speed of the corridor to be lowered to match the designated speed, which will allow for a typical section to be approved with narrower drive lanes. Kimley-Horn also presented traffic and crash data analysis to determine where medians could be extended throughout the corridor, allowing for more landscape space in medians and creating less crossing turning movements through the corridor for safety. Renderings of proposed development scenarios were worked through with City staff for use in upcoming public presentations.

Tricia Richter, PLA, ASLA

Landscape Architecture

Atlantic Boulevard Bridge Decorative Sails and Lighting, City of Pompano Beach, FL — Landscape architect for the design and construction of enhancements to the bridge façade, tender house, Jersey barriers, lighting, large tensioned sails at each end of the bridge (four total) and computerized uplighting, artwork on bridge façades, land-based lighting, and a pedestrian esplanade under the bridge connecting restaurants and buildings from the south to the north. The design/build team will be responsible for complete design, permitting and coordination with the Florida Department of Transportation (FDOT).

Las Olas Boulevard Corridor Improvements, City of Fort Lauderdale, FL Landscape architect. Kimley-Horn is providing preliminary design, evaluation, and due diligence services for this mixed-use project for the City of Fort Lauderdale Community Redevelopment Agency. The project consists of the redevelopment of several pieces of City property from existing surface parking lots to a new multi-story parking garage; active park and plaza areas; and general open space to enhance the pedestrian and beachgoer experience in the Fort Lauderdale beach area. Las Olas Boulevard is being improved to provide a "Complete Streets" design to better connect the shops, restaurants, and other businesses with the new Oceanside Plaza on the south side of Las Olas Boulevard. The design of Oceanside Plaza includes space for special events such as festivals and concerts; play areas for children; and a convenient porte-cochere drop off. Kimley-Horn is providing the initial site civil engineering design, roadway design, permitting coordination, stormwater, utility, franchise utility coordination, and other services.

SR A1A Complete Streets Design, Hollywood, FL — Landscape architect of the Kimley-Horn team serving the City of Hollywood to help reduce the number of travel lanes and incorporate Complete Streets elements within the corridor between Hollywood Boulevard and Sheridan Street. The concept plans will include a reduction of speed, improving safety for vehicles, pedestrians, and bicyclists; wider sidewalks, buffered bicycle lanes, and designated loading zones; and improved street furniture, landscaping, and signage. The team will also provide traffic signal/roundabout analysis, driveway access review, emergency vehicle access review, meetings and coordination, and permitting services. Part of the project includes preparation of pilot plans/temporary implementation construction plans (to be permitted from FDOT) to allow the public to experience the lane reduction on a trial basis to test its effectiveness prior to making it permanent.

Downtown Light Pole Standards, Boca Raton, FL — Landscape architect and assisted with selection of standardized light pole fixtures for downtown redevelopment projects. The City previously had a mix of high-pressure sodium, metal halide, and LED light fixtures; however the aging lights were no long weather resistant and needed frequent maintenance and/or replacement. The City tasked Kimley-Horn to develop a standard for exterior lighting to help give the Downtown area a uniform feel and reduce the effort needed to maintain multiple types of fixtures. Kimley-Horn's coordinated with lighting vendors to select feasible alternatives; performed a photometric analysis of three typical roadways in the area to establish pole spacing, setbacks, and mounting heights; developed lighting standards and details including foundation details and electric service points; and prepared standard lighting detail sheets for inclusion in the City's Engineering Design Standard's Manual.

Hollywood US 1 Corridor Study, Hollywood, FL — Landscape architect of the Kimley-Horn team selected to design a new cross section for a portion of US 1 that would allow for wider medians, improved sidewalk plantings, and extended medians to control access and improve safety through the corridor. In order to accomplish the City's goals for the corridor, Kimley-Horn worked with FDOT to designate this section

Special Qualifications

- Seven years of experience with landscape design, construction document preparation, and in preparing presentation graphics

Professional Credentials

- Bachelor of Landscape Architecture, University of Florida, 2011
- Professional Landscape Architect in Florida, #LA6667244, November 16, 2015
- American Society of Landscape Architects (ASLA), Full Member

Tricia Richter, PLA, ASLA

Relevant Experience (continued)

of the road under their Transportation Design for Livable Communities (TDLC) program. The TDLC designation allows for a more advantageous horizontal clearance that will allow for larger trees to be planted closer to the curbs and paves the way for allowing the design speed of the corridor to be lowered to match the designated speed, which will allow for a typical section to be approved with narrower drive lanes. Kimley-Horn also presented traffic and crash data analysis to determine where medians could be extended throughout the corridor, allowing for more landscape space in medians and creating less crossing turning movements through the corridor for safety. Renderings of proposed development scenarios were worked through with City staff for use in upcoming public presentations.

Dixie Highway/21st Avenue Corridor Redesign Concept and Mobility Study, Hollywood, FL — Landscape architect for the Kimley-Horn team that prepared a Redesign Concept Study for the Dixie Highway and 21st Avenue corridor throughout Hollywood between Pembroke Road and Sheridan Street. A vision for a "transit-ready corridor" along the FEC Railroad was created by designing Complete Streets solutions in anticipation of re-establishing passenger rail service through seamless integration of an anticipated Tri-Rail Coastal Link station. The Complete Streets approach recommended in this study includes a "road diet" lane reduction to repurpose excess automobile capacity for bicyclist, pedestrian, and transit improvements. In addition, the Complete Streets approach will establish a transit-ready corridor for seamless integration of an anticipated Tri-Rail Coastal Link station along the Florida East Coast (FEC) Railroad.

Broward County South US 1 Bus Rapid Transit (BRT) Improvements Study, Broward County, FL — Assisted the Kimley-Horn team creating 3D models of the proposed BRT improvements. This project focused on Bus Rapid Transit improvements for South US 1 between Downtown Fort Lauderdale and Aventura Mall (Miami-Dade County). The study developed a package of short and medium term implementation projects and identified long-term investments to improve transit service, mobility, livability, and support economic development along the corridor. Multijurisdictional coordination included an advisory committee consisting of five municipalities, two counties, two state agencies, an international airport, and eight additional stakeholder agencies. The solutions included transit infrastructure, traffic signalization, intelligent transportation systems (ITS), and complete streets to support transit oriented development, multimodal facilities, and improved surface transportation.

Design-Build Criteria Packages for Broward MPO Regional Complete Streets Initiatives, FDOT District Four, Broward County, FL — Landscape architect for the development of five design-build criteria packages for the following locations in Broward County: Hammondville Road from Powerline Road to W. of I-95; NW 31st Avenue from Commercial Blvd to McNab Road; Powerline Road from Oakland Park Blvd to Commercial Blvd.; Lauderdale Lakes Greenway from NW 31st Ave to NW 29th Ave.; and Riverland Road from SR-7/US-441 to SR-842/Broward Blvd. The MPO requested the construction of new bicycle and pedestrian facilities in the existing right-of-way to improve safety and access for Broward's residents and provide more transportation alternatives. Design services also include milling and resurfacing, utility coordination, signing and pavement marking, signal improvements, landscaping, and public involvement.

Bicycle Lane Addition on NW 64th Avenue from Sunset Strip to Oakland Park Boulevard, Sunrise, FL — Landscape architect. The City of Sunrise applied for a $927,000 Transportation Alternatives Grant administered by the Florida Department of Transportation to construct bicycle lanes and street improvements on NW 64th Avenue from Sunset Strip to Oakland Park Boulevard. The City retained Kimley-Horn for design services for landscape, lighting, drainage, pedestrian and bicycle enhancements. This includes developing schematic design, design development, permitting, and construction documents. Additionally, Kimley-Horn environmental scientists will review natural, social, and physical resource data in the area and complete a Type 1 and Programmatic Categorical Exclusion (CE) checklist.

Miramar Parkway Streetscape from SW 64th Avenue to SW 68th Avenue, Miramar, FL — Landscape architect for this FDOT LAP funded project that involves roadway, landscape, irrigation, and lighting improvements on Miramar Parkway. Additional project improvements include bicycle lanes, drainage modifications, landscaping, lighting, hardscaping, driveway apron regrading, sidewalk replacement, ADA improvements at the intersections, and a mid-block pedestrian crossing/ emergency signal modification.

Clematis Streetscape Improvements, West Palm Beach, FL — Landscape architect. Kimley-Horn is providing landscape architecture and civil engineering services as part of the team designing improvements to the 300 block of Clematis Street in downtown West Palm Beach. In partnership with the City, the team conducted public outreach to residents and visitors. After several public input meetings with Clematis Street merchants, other area merchants, stakeholders, residents and visitors, the City Commission voted to implement recommendations from the award-winning design team.

Nick Clavelo, P.E.

Lighting

Relevant Experience

SR A1A Complete Streets Design, Hollywood, FL — Project analyst of the Kimley-Horn team serving the City of Hollywood to help reduce the number of travel lanes and incorporate Complete Streets elements within the corridor between Hollywood Boulevard and Sheridan Street. The concept plans will include a reduction of speed, improving safety for vehicles, pedestrians, and bicyclists; wider sidewalks, buffered bicycle lanes, and designated loading zones; and improved street furniture, landscaping, and signage. The team will also provide traffic signal/roundabout analysis, driveway access review, emergency vehicle access review, meetings and coordination, and permitting services. Part of the project includes preparation of pilot plans/temporary implementation construction plans to allow the public to experience the lane reduction on a trial basis to test its effectiveness prior to making it permanent.

SR A1A Streetscape Improvements, Fort Lauderdale, FL — Project analyst. Kimley-Horn is providing full civil engineering services for the redevelopment of the existing streetscape of State Road A1A Northbound from the South Beach Parking to Alhambra Street along Fort Lauderdale Beach. The project consists of improving the sidewalk on both sides of the street outside of the curbing in order to provide modern and cohesive look, a definitive delineation between the pedestrian zone and the outdoor restaurant café zone, and improve pedestrian experience while walking along the beach and to its businesses. The trees and light poles are being consolidated near the back of curb to open up the pedestrian zone and provide a clear walking path. Kimley-Horn is the prime consultant on the project, with a team of local subconsultants, and is responsible for providing the civil engineering, permitting, coordination, and other services for the complete project.

Wiles Road Design from Riverside Drive to Rock Island Road, Broward County, FL — Project analyst for complete contract plans for the widening of Wiles Road to a 6-lane divided urban arterial from Riverside Drive to Rock Island Road. One of the major accomplishments of this segment's design was to work with all stakeholders to avoid issues related to private property impacts given the narrow corridor and proximity of private features. We coordinated closely with the County to tackle issues related to the narrow areas of the corridor, including a balance between traffic lane, sidewalk and bike lane widths. This segment included roadway design, Complete Streets design, drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, permitting coordination with the City of Coral Springs and detailed traffic control plans. The project required extensive landscape plans and coordination to resolve issues related to private landscape encroachments into County right of way. We incorporated the Broward Complete Streets guidelines on this project (also prepared by Kimley-Horn), which were endorsed by the Broward MPO.

Delray Beach Sidewalk Design Services, Delray Beach. FL — Project engineer for the design of missing sidewalk segments for several areas along SW 3rd Street, NW 8th Avenue, NW 6th Avenue, SW 6th Avenue and SW 5th Avenue. Kimley-Horn's services include coordinating site surveying, attendance at public meetings, review of profiles and edge of pavement elevations, analyzing adjacent landscaping to determine needs for relocation, utility coordination, permit coordination, development of typical cross sections, preparing final design plans for the improvements, and providing opinions of probable costs.

Glades Road and Butts Road Intersection Improvements, Boca Raton, FL
Project analyst for design of a signal replacement and second southbound turn lane on Butts Road at the intersection of SR 808/Glades Road as part of our countywide miscellaneous services contract for Palm Beach County. Kimley-Horn's services

Special Qualifications

- Professional Engineer with more than six years of engineering experience
- Specific project experience includes lighting, roadway, and drainage design; signing and pavement marking; development of roadway profiles and cross-sections; plan preparation; and opinions of probable cost
- Provides support to senior engineers on projects that involve lighting and roadway design
- Software experience includes AGI32, MICROSTATION, FDOT SS4, and GeoPak

Professional Credentials

- Master of Science, Civil Engineering, Florida State University, 2014
- Bachelor of Science, Civil Engineering, Florida State University, 2012
- Professional Engineer in Florida, 84366, December 16, 2017

Nick Clavelo, P.E.

Relevant Experience (continued)

included signal plans and design to replace the existing mast-arm assembly, signing and pavement marking plans, roadway and intersection design, drainage design, and environmental permitting with South Florida Water Management District and Lake Worth Drainage District.

Lake Worth Neighborhood Road Program Year 1, Year 2, and Year 3, Lake Worth, FL — Project engineer on the team that provided the City of Lake Worth with civil engineering services consisting of roadway design and drainage design. The effort focused mainly on pavement rehabilitation on roadways with the lowest pavement condition index. In addition to pavement rehabilitation, Kimley-Horn designed new catch basins, additional traffic calming measures, and ADA compliant sidewalk routes to provide continuity in the neighborhood. Tasks include data collection, utility coordination, development of construction documents, bidding assistance, and observation during construction. Lake Worth Neighborhood Road Program Year 3 is still in design.

North J Street Design and Reconstruction, Lake Worth, FL — Project engineer. As part of the City's Neighborhood Bond Program, the Kimley-Horn team is providing design and roadway reconstruction drawings. Traffic calming and pavement rehabilitation measures will be strategically developed and implemented to improve the overall quality of this section of North J Street (from 3rd Avenue to 8th Avenue). The team is providing utility coordination, roadway and drainage design, signing and pavement marking, landscape architecture, and extensive public involvement services including preparing graphics and attending community events.

West Atlantic Avenue at Florida's Turnpike Intersection Improvements, Delray Beach, FL — Project analyst. Kimley-Horn was retained by Palm Beach County to study improvements to Atlantic Avenue and Turnpike entrance intersections. Proposed improvements include the addition of a dedicated westbound to northbound right-turn lane on SR 806/Atlantic Avenue at the northbound entrance to Florida's Turnpike. The turn lane will start east of the existing bridge over LWDD E-2-E Canal. The existing bridge will be widened to accommodate the new turn lane. A second option would include a third westbound land in additional to the right-turn lanes. For the structural component, Kimley-Horn reviewed the existing bridge conditions and bridge crossing requirements of the LWDD E-2-E Canal and impacts of existing utility crossing attachments to the bridge. Our team coordinated with LWDD, owner of the canal; FDOT District Four Structural Office; and Florida's Turnpike Enterprise. Additionally, our team provided the design of the bridge widening.

Lighting Design Retrofit Project (Commercial Blvd.), FDOT District Four, Fort Lauderdale, FL — Project engineer on the team providing lighting design retrofit services as a subconsultant to another firm. Our responsibilities include the design and/or upgrades to 27 intersections along Commercial Boulevard in Fort Lauderdale. Services include coordination with the cities of Tamarac, Lauderdale by the Sea, and Fort Lauderdale. Our team developed construction plans for new light poles and luminaires to meet FDOT lighting level criteria. The project also included utility coordination, permitting with Florida Fish and Wildlife Conservation Corps, and minor sidewalk and electrical improvements.

Design-Build Criteria Packages for Broward MPO Regional Complete Streets Initiatives, FDOT District Four, Broward County, FL — Project engineer for the development of five design-build criteria packages for the following locations in Broward County: Hammondville Road from Powerline Road to W. of I-95; NW 31st Avenue from Commercial Blvd to McNab Road; Powerline Road from Oakland Park Blvd to Commercial Blvd.; Lauderdale Lakes Greenway from NW 31st Ave to NW 29th Ave.; and Riverland Road from SR-7/US-441 to SR-842/Broward Blvd. The MPO requested the construction of new bicycle and pedestrian facilities in the existing right-of-way to improve safety and access for Broward's residents and provide more transportation alternatives. Design services also include milling and resurfacing, utility coordination, signing and pavement marking, signal improvements, landscaping, and public involvement.

Georgia Avenue Resurfacing, West Palm Beach, FL — Project engineer for improvements to the Georgia Avenue Corridor from Forest Hill Boulevard to West Lakewood Road. The scope for the roadway improvement includes improving the existing asphalt pavement, either through milling and resurfacing of Full Depth Reclamation (FDR), upgrading the existing sidewalk and curb ramp to current ADA standards, minor drainage modifications, improving the existing lighting system, and incorporation of minor landscaping and irrigation where possible. The new design was shaped considering the corridor being a high truck traffic area with major on-street parking needs.

Matt Fursetzer, P.E.

Lighting

Relevant Experience

Atlantic Boulevard Bridge Decorative Sails and Lighting, City of Pompano Beach, FL
Project manager for the design and construction of enhancements to the bridge façade, tender house, Jersey barriers, lighting, large tensioned sails at each end of the bridge (four total) and computerized uplighting, artwork on bridge façades, land-based lighting, and a pedestrian esplanade under the bridge connecting restaurants and buildings from the south to the north. The design/build team will be responsible for complete design, permitting and coordination with the Florida Department of Transportation (FDOT).

SR A1A Complete Streets Design, Hollywood, FL — Project engineer of the Kimley-Horn team serving the City of Hollywood to help reduce the number of travel lanes and incorporate Complete Streets elements within the corridor between Hollywood Boulevard and Sheridan Street. The concept plans will include a reduction of speed, improving safety for vehicles, pedestrians, and bicyclists; wider sidewalks, buffered bicycle lanes, and designated loading zones; and improved street furniture, landscaping, and signage. The team will also provide traffic signal/roundabout analysis, driveway access review, emergency vehicle access review, meetings and coordination, and permitting services. Part of the project includes preparation of pilot plans/temporary implementation construction plans (to be permitted from FDOT) to allow the public to experience the lane reduction on a trial basis to test its effectiveness prior to making it permanent.

Lighting Design Retrofit Project (Commercial Blvd.), FDOT District Four, Fort Lauderdale, FL — Project manager on the team providing lighting design retrofit services as a subconsultant to another firm. Our responsibilities include the design and/or upgrades to 27 intersections along Commercial Boulevard in Fort Lauderdale. Services include coordination with the cities of Tamarac, Lauderdale by the Sea, and Fort Lauderdale. Our team developed construction plans for new light poles and luminaires to meet FDOT lighting level criteria. The project also included utility coordination, permitting with Florida Fish and Wildlife Conservation Corps, and minor sidewalk and electrical improvements.

Boca Raton Downtown Light Pole Standards, Boca Raton, FL — Project manager and helped direct selection of standardized light pole fixtures for downtown redevelopment projects. The City previously had a mix of high-pressure sodium, metal halide, and LED light fixtures, however the aging lights were no long weather resistant and needed frequent maintenance and/or replacement. The City tasked Kimley-Horn to develop a standard for exterior lighting to help give the Downtown area a uniform feel and reduce the effort needed to maintain multiple types of fixtures. Kimley-Horn coordinated with lighting vendors to select feasible alternatives; performed a photometric analysis of three typical roadways in the area to establish pole spacing, setbacks, and mounting heights; developed lighting standards and details including foundation details and electric service points; and prepared standard lighting detail sheets for inclusion in the City's Engineering Design Standard's Manual.

SR A1A (Flagler Memorial Bridge) Replacement Design-Build Criteria Package and Construction Phase Services, FDOT District Four, West Palm Beach, FL
Lighting design engineer during Kimley-Horn's development of the design-build criteria package for replacement of the existing four-lane bascule bridge across the Intracoastal Waterway.

Wiles Road Design from Riverside Drive to Rock Island Road, Broward County, FL — Provided lighting design services for complete contract plans for the widening of Wiles Road to a 6-lane divided urban arterial from Riverside Drive to Rock Island Road. One of the major accomplishments of this segment's design was to work

Special Qualifications

- Has 18 years of experience in roadway design with a specialty emphasis on lighting for FDOT facilities
- Proficient in AGI 32, Microstation, AutoCad, MathCad, and Visual Basic software programs

Professional Credentials

- Bachelor of Science, Civil Engineering, University of Florida, 2001
- Professional Engineer in Florida, #63997, February 6, 2006
- American Society of Civil Engineers (ASCE)
- American Society of Highway Engineers (ASHE)

Matt Fursetzer, P.E.

Relevant Experience (continued)

with all stakeholders to avoid issues related to private property impacts given the narrow corridor and proximity of private features. Another major accomplishment was an innovative drainage solution that added new outfalls through City owned property to an existing undersized drainage system to avoid reconstructing the entire Wiles Road system. We coordinated closely with the County to tackle issues related to the narrow areas of the corridor, including a balance between traffic lane, sidewalk and bike lane widths. This segment had grant funding from FDOT and the improvements included roadway design, Complete Streets design, drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, permitting coordination with the City of Coral Springs and detailed traffic control plans. The project required extensive landscape plans and coordination to resolve issues related to private landscape encroachments into County right of way. Our team provided tree mitigation permit services and coordinated with both County and City forester. We incorporated the Broward Complete Streets guidelines on this project (also prepared by Kimley-Horn), which were endorsed by the Broward MPO.

Wiles Road Design from Rock Island Road to US 441 (SR 7), Coral Springs, FL — Project engineer providing lighting design for the Kimley-Horn team selected by the Broward County Engineering Division to prepare complete contract plans for the reconstruction and widening of Wiles Road as a six-lane divided urban arterial from Rock Island Road to US 441 (SR 7). Broward County and FDOT are sharing in the cost of improvements which include drainage, lighting, landscaping, irrigation, bicycle lanes, signalization, utility coordination, and detailed traffic control plans.

Mowry Drive Roadway Improvements, City of Homestead, FL — Lighting design engineer for the new construction and widening of Mowry Drive (SW 320th Street) from SW 157th Avenue to SW 152nd Avenue. The existing roadway consisted of a one-lane paved road and was proposed to be converted to a four-lane divided urban section with bike lanes on both sides. The project included design and preparation of roadway, drainage, signing and marking, lighting, water main extension, landscaping and irrigation plans.

Georgia Avenue Resurfacing, West Palm Beach, FL — Project engineer for improvements to the Georgia Avenue Corridor from Forest Hill Boulevard to West Lakewood Road. The scope for the roadway improvement includes improving the existing asphalt pavement, either through milling and resurfacing of Full Depth Reclamation (FDR), upgrading the existing sidewalk and curb ramp to current ADA standards, minor drainage modifications, improving the existing lighting system, and incorporation of minor landscaping and irrigation where possible. The new design was shaped considering the corridor being a high truck traffic area with major on-street parking needs.

Federal Highway (US 1) Interim and Final Enhancements, Delray Beach CRA, Delray Beach, FL — Project engineer on the Kimley-Horn team providing roadway design, water main design services, relocation of piping for new drainage facilities, and design of water main crossings for a multi-phased project, which includes two miles of the US 1/Federal Highway one-way pair in each direction in Delray Beach. The City and CRA adopted the Downtown Delray Beach Master Plan, which has as one of its key elements a reconfiguration of the two one-way segments of US 1 from three lanes to two lanes.

Bicycle Lane Addition on NW 64th Avenue from Sunset Strip to Oakland Park Boulevard, Sunrise, FL — Project engineer. The City of Sunrise applied for a $927,000 Transportation Alternatives Grant administered by the Florida Department of Transportation to construct bicycle lanes and street improvements on NW 64th Avenue from Sunset Strip to Oakland Park Boulevard. The City retained Kimley-Horn for design services for landscape, lighting, drainage, pedestrian and bicycle enhancements. This includes developing schematic design, design development, permitting, and construction documents. Additionally, Kimley-Horn environmental scientists will review natural, social, and physical resource data in the area and complete a Type 1 and Programmatic Categorical Exclusion (CE) checklist.

Boynton Beach Boulevard Design from East of I-95 to US 1, Boynton Beach, FL — Project engineer providing design services for this multi-stage project in the City of Boynton Beach. The design improvements to the project area (east of I-95 to US-1) include landscape architecture enhancements and Complete Streets features. Design features include narrowed lanes and expanded sidewalks to encourage pedestrian mobility and landscape/hardscape upgrades within the corridor. Our services include roadway and landscape design; signing and marking; signal plans; lighting; traffic analysis; utility coordination; permitting assistance; and public involvement services.

Districtwide Pedestrian Lighting Retrofit Design, FDOT District One — Lighting engineer on the Kimley-Horn team that was selected to provide consultant services to develop complete construction plans and specifications to upgrade the lighting levels at various intersections throughout District One. This will include evaluation of the existing intersection lighting levels, upgrading existing lighting from High Pressure Sodium light fixtures (HPS) to LED light fixtures and potentially supplementing the intersection with additional light poles.

Chris Niforatos, P.E.

Resiliency & Sea Level Rise

Relevant Experience

City of Sebastian, Coastal Resiliency Plan and Comprehensive Plan Updates, Sebastian, FL — Helped client secure funding through FDEP's Resilient Coastlines Program. Leading coastal flooding analysis to assess impacts of sea level rise, rainfall and surge on City's critical infrastructure, which includes roads, emergency shelters, and city buildings.

Business Case Analysis for the City of Miami Beach Stormwater Resiliency Program Pilot Project, Miami Beach, FL — Working as a subconsultant to assist in the development of a pilot study to re-evaluate the effects of sea level rise and storm intensification and its impacts on the economy. Reviewed numerical modeling parameters and assessed planning horizons for coastal flooding impacts based on study area.

City of Venice, Preliminary Vulnerability Analysis, Venice, FL — Led the development of a vulnerability assessment of the City's infrastructure with respect to coastal flooding and wind. The infrastructure included five critical lift stations, reverse osmosis water treatment plant, water reclamation facility, and several administrative buildings. Evaluated future sea level projections, rainfall, surge, and wind data and their impacts on designated infrastructure. Developed a matrix to assess criticality of the assets and identified adaptation measures to harden the assets as well as strategies to increase adaptive capacity.

Longboat Key Village Stormwater Master Plan Peer Review, Longboat Key, FL Project manager. Kimley-Horn conducted a peer review of a master plan that identified adaptation measures to address coastal flooding and provided a summary of modeling parameterization issues that needed to be resolved based on assessing future sea level rise and adaptation refinements for the proposed alternatives.

St. Pete Beach, Coastal Resiliency Plan: Funding and Flooding Vulnerability Assessment, St. Pete Beach, FL — Project engineer. Kimley-Horn is providing general engineering services to identify funding sources available for the City's evolving resiliency program. The goal of this program is to evaluate available national, state and local resources available and identify grant funding sources, including application requirements and deadlines. In addition, areas within the City limits that are vulnerable to flooding due to storm events and sea level rise will be identified.

Town of Medley Stormwater Master Plan, Medley, FL — Project engineer assisting with the preparation of a Stormwater Master plan for the Town, which faces a number of challenges, including a high water table relative to the existing grade (which are generally very flat; numerous pockets of contamination throughout the Town caused by industrial tenants); Florida East Coast Railway, which bisects the Town and thus often makes conveyance of stormwater to the nearby C-6 Canal (the Miami River) cost prohibitive; and the lingering threat of sea level rise and climate change. As part of the Stormwater Master Plan, Kimley-Horn is helping to prioritize 12 problem areas for the Town; plan and model projects to improve the conditions; provide pollutant loading reduction information for use in grant applications; and considering the Southeast Florida Unified Sea Level Rise Study findings, a requirement to ensure the projects provide long-term flood protection and to ensure eligibility for financial assistance from Miami-Dade County in the future.

Special Qualifications

- Has 26 years of experience specializing in developing opportunities and delivering services in stormwater, watershed, and flood risk management; climate change adaptation; and asset management
- Senior water engineer with experience providing water, wastewater, stormwater, construction management, and geospatial and niche-related services
- Successful record of leading communities through the resiliency planning process and designing a resiliency plan that is deliberate, customizable to the values of the community, and implementable
- Recognized as a statewide leader for stormwater/ watershed services

Professional Credentials

- Master of Business Administration, Business Administration, University of South Florida, 2004
- Master of Engineering, Environmental Engineering, University of South Florida, 1998
- Bachelor of Science, Civil Engineering, Clarkson University, 1994
- Professional Engineer in Florida, #56881, February 1, 2001
- Certified FDEP Sediment and Erosion Control Inspector #20856
- American Public Works Association (APWA)
- Florida Engineering Society

Chris Niforatos, P.E.

Relevant Experience (continued)

Golden Glades Canal Dredging from NW 57 Avenue to NW 117 Avenue, Miami-Dade County, FL — Lead project engineer. Developed construction documents for the dredging and bank stabilization of six segments of the Golden Glades Canal for approximately 6 miles. The design included the repair or eroded bank sections with geoweb and rock rip rap.

Ocean Outfall Legislation Program – Climate Change Resilience, Miami-Dade Water and Sewer Department, Miami-Dade County, FL — Co-task leader. The project involved the assessment of the impacts of sea level rise and extreme weather events based on the Department's wastewater assets, as well as developing hardening plans. Conducted vulnerability assessments on assets and, based on the level of risk, helped prepare design criteria for facility hardening.

Townwide Undergrounding of Utilities Program, Palm Beach, FL — Project engineer. Subsequent to a state of Florida mandate that FPL "storm harden" all vital infrastructure and utility lines statewide, resulting in the installation of taller, concrete electric poles, the Town of Palm Beach chose instead to convert all aerial electric, communication, and cable lines to an underground location. Kimley-Horn serves as program manager and prime consultant designing and permitting the underground conversion process in close coordination with FPL, AT&T and Comcast. Kimley-Horn first developed a master plan to outline the schedule, sequencing, phasing, management of traffic impacts, project delivery methods, data collection, public outreach, design criteria, and projected costs. At the same time, Kimley-Horn performed the detailed design of Phase 1 of the program, which is now complete. Kimley-Horn and the Town also performed planning to address Town infrastructure needs (stormwater, gas, water and sewer) to determine if any renovation or replacement should occur while the underground utility work is underway. The benefits of undergrounding these utilities include improved neighborhood aesthetics, increased service reliability, and increased levels of safety as the lines are no longer exposed. The entire program, which began in 2016, is expected to take 10 years to complete.

Stormwater Services Contract, Pasco County, FL — Project director. Managed the delivery of stormwater projects for this contract. Professional services include the assessment and implementation of drainage improvement projects, preliminary design and evaluations, hydrologic and hydraulic modeling, permitting, and construction document preparation. Delivered an alternatives analysis evaluation of the sub Hammock Creek Watershed. The evaluation included regional surface water model updates and alternative analyses to reduce the depth and duration of flooding in a closed basin system. Modeled in SWMM5. Also responsible for assisting the County with the implementation of its stormwater inventory master plan. The overall goal of the master plan was to obtain a structured record of the County's stormwater assets and develop tools to assist in analysis and management of these assets. Inputs included development of tools for efficiency gains, geodatabase updates, and ongoing technical support.

Kelly Klepper, AICP

Resiliency & Sea Level Rise

Relevant Experience

City of Sebastian, Coastal Resiliency Plan and Comprehensive Plan Updates, Sebastian, FL — Project manager. Kimley-Horn was selected to prepare the City's Coastal Resiliency – Resilience Plan Development and corresponding Comprehensive Plan amendments to address state mandates regarding sea level rise (peril of flood) assessment. The Plan was developed using information and an in-depth analysis of sea level rise, rainfall and surge data, public infrastructure locations, land use, and societal exposures. The plan culminated in the vulnerability summary and an adaptation action plan. Following the Resiliency Plan, the Kimley-Horn team prepared comprehensive plan amendments to the Goals, Objectives and Policies (GOPs) and Data, Inventory and Analysis (DIA) for the Future Land Use, Public Facilities, and the Coastal and Conservation Elements of the City's Comprehensive Plan. These changes were important to better reflect the threats of flooding and sea level rise and the importance of resiliency measures while also improving the organization and flow of the Comprehensive Plan. The reorganization of the Conservation and Coastal Management Elements into one element was completed to address similar topics/subjects in a more succinct manner and reduce redundancies in policies.

Continuing Services for Community Planning, FDOT District Five — Project planner for the Kimley-Horn team that was selected in 2012 to provide professional services for conducting and reviewing a variety of transportation planning and land use planning studies and documents. This was a task order oriented contract with various types of work; our services included preparation of developments of regional impacts (DRIs), comprehensive plans, corridor plans and sub-area analysis, and MPO assistance.

Town of Miami Lakes Complete Streets Program, Miami Lakes, FL — Project manager. Kimley-Horn assisted the Town of Miami Lakes in developing a Complete Streets program consistent with the Miami-Dade County Complete Street Guidelines. The plan included an analysis of all town roads, development of roadway typologies including cross sections, recommended improvements along targeted corridors and preliminary cost estimates. The plan helped coordinate the Town's efforts with their comprehensive plan, strategic plan, and the trails master plan.

City of Cape Canaveral Zoning Code Amendments, Cape Canaveral, FL — Project manager/project planner for the Kimley-Horn team who prepared an analysis and update of targeted portions of the City's Zoning Code specific to the Economic Opportunity Overlay District (EOOD), Shared Parking, Special Exceptions and Non-conforming uses. The Kimley-Horn Team prepared an initial analysis of the City's Codes specific to the topics identified for consistency with the CRA Master Plan and other portions of the City's Zoning Code and assisted the City in the preparation and presentation of the amendments including justifications to the Planning Commission and City Council.

City of Maitland Comprehensive Plan, Maitland, FL — Project manager worked with the City of Maitland on the review and update of the City's Comprehensive Development Plan (CDP) based on the evaluation and appraisal report (EAR). Kimley-Horn completed the community review, preliminary land use and population analysis, transportation and mobility analysis, infrastructure (water, wastewater, stormwater, lakes, etc.), and a review of the current Goals, Objectives, and Policies as they relate to growth management changes, consistency across the various elements, and clarification of terms/strategies. Kimley-Horn worked with the City to identify best practices in the field of Comprehensive Planning and developed a new approach to their land use designations and development. Kimley-Horn also worked with the City directly with the Florida Department of Economic Opportunity (DEO) as part of the state mandated review

Special Qualifications

- Has 28 years of planning experience in Florida, Kentucky, North Carolina, and Tennessee
- Extensive experience working with local government agencies, community redevelopment agencies, development and redevelopment projects, master planning and plan implementation
- Extensive knowledge of land and entitlements planning, parks and open space planning, development-related issues, public policy, comprehensive planning, budgeting, funding coordination, urban growth boundaries and management, urban/rural design, transportation demographics, and population projects; form based codes

Professional Credentials

- Master of Arts, Geography and Urban Planning, East Tennessee State University, 1995
- Bachelor of Science, Psychology, East Tennessee State University, 1991
- American Institute of Certified Planners, #014572
- American Planning Association (APA)
- Florida Planning and Zoning Association (FPZA)
- Member/Board Member, Florida Redevelopment Association (FRA)

Kelly Klepper, AICP

Relevant Experience (continued)

processes. The City adopted the CDP in 2019 and the Plan has since been recognized by the Florida Planning and Zoning Association (FPZA) for both a state planning award and also as session at their annual conference, and the Florida Chapter of the American Planning Association (FAPA) with a similar session at its annual conference. Kimley-Horn also updated the City GIS database with respect to the parcel based future land use map and related datasets. In 2019, project was awarded the Award for Outstanding Achievement in Innovation by the Florida Planning and Zoning Association and the Award of Merit by the American Planning Association in Florida.

Gadsden County Bicycle and Pedestrian Master Plan (aka Blueways Plan), , FL — Project planner. Kimley-Horn was selected in 2011 to provide engineering services for a bicycle and pedestrian master plan (also known as blueways plan) for the Gadsden County Board of County Commissioners. This plan evaluated and mapped existing blueways supporting infrastructure and provided recommendations on bicycle and pedestrian trails, safe routes to schools, boat launches, docks, parking facilities, wayfind signage, marketing opportunities, and resource protection. The plan provided strategies to sustainably promote ecotourism and support local businesses in the County. Kimley-Horn's services also included public involvement (meetings, workshops, and newsletters), policy/network alternatives, EAR amendment, and preparation of a feasibility report and final report.

General Landscape Architectural Services Contract, Village of Palmetto Bay, FL, Palmetto Bay, FL — Project planner. Kimley-Horn is providing the Village of Palmetto Bay with landscape architecture services, including the design of landscape architectural components including hardscape, landscape, site furniture, site lighting and irrigation for different project types including parks, streetscapes, and other related urban public realm areas from concept through construction.

North Port Gardens (aka Gulf Coast Gardens), North Port, FL — Project planner and task manager. Kimley-Horn was responsible for overseeing due diligence and land use research; development of and assisting in land use recommendations; visioning/charrette; and land use analysis and permitting processes, including assisting on the development of regional impact for a 514-acre site located in the City of North Port. The project includes a mixed-use commercial, office, and residential development that incorporate significant wetland and environmental preservation. Tasks include pre-application coordination, preliminary development agreement, application for development approval (ADA), and sufficiency response coordination and preparation.

Venice Comprehensive Plan, Venice, FL — Project manager. Kimley-Horn worked with the City of Venice to review and update the City's Comprehensive Plan (2017-2027). Kimley-Horn completed an extensive public outreach and community review, including stakeholder interviews, online survey, and a series of community workshops; land use and population analysis; market assessment; and a review of the current goals, objectives, and policies as they relate to growth management changes, consistency across the various elements, and clarification of terms/strategies. Kimley-Horn completed the update of the GOPs in the form of vision, intent, and strategies along with the analysis required to develop the plan (population projections, level of service analysis, land use carrying capacity, housing analysis, etc.) with an emphasis on the City's neighborhoods (geographic areas). 2018 APA Florida Award. 2018 FPZA State Award Winner for Grassroots Initiative/Public Outreach.

Wauchula CRA Master Redevelopment Plan, Wauchula, FL — Project manager. Kimley-Horn led the City's first comprehensive update to the Wauchula CRA Master Plan in 2010 and recently updated the CRA Master Plan in 2019 reflecting changes in the CRA and the community. The Plan examined the CRA boundary appropriateness, identifying catalyst site and programs to renew economic and community interest in the Wauchula downtown and surrounding business areas. The plan provided recommendations regarding the City's Land Development Code components and consistency with other regulations including the City's Comprehensive Plan. The Kimley-Horn team was charged with leading stakeholder engagement and facilitating community leadership dialogue on desired and feasible directions for renewal for the core community assets. In addition, the 2019 update identified several key components to facilitate the CRA's redevelopment efforts and included a Parks and Recreation Master Plan with concepts for redevelopment of the City's key parks.

Tom Fucigna

Environmental Permitting/Seawall Design

Relevant Experience

Freedom Marina Center, Deerfield Beach, FL — Environmental Scientist: Responsibilities include coordination of permit issuance including Environmental Resource Permits through the Florida Department of Environmental Protection and South Florida Water Management District, a Right-of-way Permit by South Florida Water Management District, an Environmental Resource License through Broward County and an Individual Permit through the USACE. Ongoing permitting includes coordination and creation of a compensatory mitigation plan for mangrove impacts.

Space Coast Trail Design from Merritt Island Refuge to Canaveral National Seashore, FDOT District Five — Environmental scientist. After completing the PD&E study for this 30-mile-long proposed 8- to 12-ft-wide bike/ped trail, Kimley-Horn was selected to design and prepare construction plans for the first 11-mile-long section. Design services include pavement design (concrete pavement for railroad crossing), structural design (box culvert and overhead cantilever signage), signing and pavement marking, milling and resurfacing, ADA accommodations, drainage design, intersection design, utility coordination, and environmental permitting. This project is part of a connected coast-to-coast bike/ped trail system extending across Florida from the Gulf of Mexico to Canaveral National Seashore.

Tom worked on the following projects prior to joining Kimley-Horn:

Environmental Assessment — Due diligence or pre-permit application vegetation cover type mapping and inventories, surveys to determine presence of listed species, and preparation of summary reports and determination of environmental regulatory permitting requirements, for residential, commercial or public projects, such as the South County Reclaimed Water Transmission Pipeline corridor, Pompano Park DRI site, FPL Windmill and Rolf substations, and Florida Atlantic University Research & Development Park in Palm Beach County, FL.

Marinas, Ports, and Coastal Management Plans — Seagrass and mangrove surveys, state and federal permitting, turbidity monitoring, manatee protection plans, mitigation plans, permitting feasibility assessments, and alternatives analysis for over 65 coastal construction projects, including: City of Pompano Beach commercial marina and public dock; a dredging feasibility study for Mar-a-Lago; and a temporary 222-slip marina for the Miami Boat Show.

Phase I Environmental Site Assessments — Conducted research and provided reports rendering an opinion regarding potential occurrence of soil or groundwater contamination for various sites, including Wellington Countryplace, Equestrian Village, White Horse Tavern, International Polo Club Wellington, in Wellington, FL and Palm Beach Gardens Regional Park, FL.

City of Pompano Beach Marina and Waterfront Parks, FL — Assessment and permitting of two waterfront parks on Hillsboro Inlet, Broward County. Projects include assessment of submerged resources, design and permitting of a public commercial marina and public dock.

Port Everglades Inlet Management Plan, Fort Lauderdale, FL — Biological assessment and impact analysis. Definition and mapping of submerged resources and wildlife in vicinity of inlet, and impact assessment of various inlet management alternatives.

Biscayne Bay Forcemain, Miami, FL — Assessed impacts to seagrasses in 76-acre corridor, between downtown Miami and Virginia Key, and prepared an environmental

Special Qualifications

- Senior project manager and environmental scientist with 20 years of experience
- Environmental assessment, natural resource definition, habitat mapping and impact assessment in upland, wetland, coastal and offshore habitats.
- Protected species surveys, habitat management plans, permitting and protection plans
- Permit feasibility and alternatives assessment studies
- Team member, experienced in planning, design, environmental regulatory permitting and construction of multi-disciplinary public and private coastal projects

Professional Credentials

- Bachelor of Science, Marine Sciences, Southampton College of Long Island University, 0
- Florida Fish and Wildlife Conservation Commission Authorized Gopher Tortoise Agent Permit Number GTA-09-00224E
- State of Florida Aquatic and Natural Areas Commercial Pesticide Applicator License
- National Registry of Environmental Professionals Certified Florida Environmental Assessor
- United States Coast Guard 100-ton Uninspected Vessel Captain's License
- Professional Association of Diving Instructors Advanced Open Water Scuba Diver

Tom Fucigna

Relevant Experience (continued)

mitigation plan to address impacts. The mitigation plan was accepted by Dade County DERM and successfully implemented by Misener Marine.

Perico Island Marina and Sister Keys Wetland Creation Project, Bradenton, FL — Modified FDEP and USACE environmental regulatory permits to facilitate comprehensive marina re-design. Seagrass mapping in eight-acre project site. Contractor coordination and construction monitoring for mangrove creation area mitigation project construction monitoring. Year Completed: 2012

Town of Palm Beach Stormwater Outfall Seagrass Monitoring, FL — Conducted comprehensive in-water seagrass surveys and mapping in support of state and federal environmental regulatory permitting and success monitoring,

Lyons Road, from Lantana Road to Lake Worth Road, Palm Beach County, FL — Assessed existing conditions and determined environmental regulatory requirements in a two-mile roadway improvement corridor. Mapped cover types, marked limits of wetlands and surface waters, conducted a wildlife survey, and coordinated with staff from the South Florida Water Management District and the US Army Corps of Engineers to define permitting options. Provided text, figures and calculations to complete relevant sections of a joint federal and state Environmental Resource Permit application and conducted a Phase I Environmental Site Assessment. Year Completed: 1984

Wellington Green Mall — Obtained Palm Beach County, state (SFMWD) and federal (USACE) environmental regulatory and MSSWS permits for this DRI regional shopping mall. Services included assessment of impacts to wetlands, alternatives assessment, on site wetland preservation and enhancement measures, preparation of technical specifications and contractor coordination for upland and wetland habitat management, implementation of protection plans for listed flora, tree surveys, and five years of success monitoring and reporting in accordance with state and federal environmental regulatory permits.

Boat Ramp Permitting, Hobe Sound, FL — Conducted comprehensive environmental assessment and coordinated issuance of state and federal environmental regulatory permits for reconstruction of a private association's boat launching ramp facility in Florida Outstanding Waters, Indian River Lagoon.

Miami Boat Show Temporary Marina, FL — Helped the National Marine Manufacturers Association permit construction of a temporary 222-slip sailboat exhibition marina at the Miami Yacht Club on Watson Island, in Biscayne Bay. Assessed existing conditions, including extensive seagrass mapping, and provided an environmental assessment of predicted effects of construction, use and disassembly of the marina. The temporary marina was successfully permitted and utilized as the first use of this site for this purpose.

Angelina Fairchild, P.E., LEED AP

Environmental Permitting/Seawall Design

Relevant Experience

City of Pompano Beach, Atlantic Boulevard Bascule Bridge Improvements including Decorative Sails and Lighting, Pompano Beach, FL — Project engineer. Kimley-Horn served the City of Pompano Beach with CSA Architects and Burkhardt Construction to incorporate safety and aesthetic improvements to this 400-foot bascule bridge over the Intracoastal Waterway. Kimley-Horn designed a replacement traffic railing to improve safety and aesthetics, as well as an under-bridge walkway to improve pedestrian access to the water. The project involved the design and construction of enhancements to the bridge façade, tender house, traffic railings, lighting, large tensioned sails at each end of the bridge (four total) and computerized uplighting, artwork on bridge façades, land-based lighting, and a pedestrian esplanade under the bridge connecting restaurants and buildings from the south to the north. The design-build team was responsible for complete design, permitting, and coordination with FDOT. Kimley-Horn obtained all permits for the project through coordination with FDOT, USACE, USCG, FDEP, the City, and SFWMD. The project created a signature gateway within the City's Beach district.

Goodyear Facility Expansion, Pompano Beach Airpark, Pompano Beach, FL Project engineer. The existing hangar facility will be enlarged by 7,800 square feet to accommodate the new airship and will be updated with new features. Kimley-Horn has led the site planning process through the City of Pompano Beach and has been responsible for a variety of facility improvements.

Fort Lauderdale Executive Airport (FXE) Taxiway Bravo Pavement Rehabilitation, Fort Lauderdale, FL — Project engineer for the Kimley-Horn team that provided design services, including pavement structural design and evaluation, plans preparation, cost estimates, technical specifications, engineers report, and bid phase services for this project. Taxiway Bravo is a 4,950-foot-long and 50-foot-wide taxiway parallel to Runway 13-31. The project consisted of the pavement rehabilitation of Taxiway Bravo and the pavement widening of the taxiway connectors up to FAA design standards.

Galleria Mall Garage Condition Assessments and Restoration, Fort Lauderdale, FL Project engineer for the Kimley-Horn team serving as structural engineer for tenant modifications including structural re-framing of existing precast concrete structure to accommodate escalator relocation, closure of floor openings, and supplementary steel beams for increased floor loadings.

Royal Palm Boulevard Improvements (Royal Palm Blvd. Bridge over Margate Canal), Margate, FL — Project engineer. Our services included the engineering design and development of construction documents for Royal Palm Boulevard Improvements beginning approximately 200 feet± east of the Margate Canal and extending east to the west half right-of-way of SR 7 (441), approximately one mile in total length. The project involved realignment of the roadway, east- and westbound left-turn lanes, access management modifications, renovation of an existing bridge and medians, construction of pedestrian bridges, base enhancements, milling and resurfacing, providing new asphalt areas, swale improvements, minor drainage improvements, and lighting improvements. Professional services included design, permitting, coordinating with utility providers for adjustments and/or relocations, preparing quantity calculations and engineers' estimates of probable costs, and limited construction phase services.

North Bay Village Continuing Services Agreement for Planning, Utilities, Engineering, and Roadways, North Bay Village, FL — Project engineer. Kimley-Horn provides general engineering services for the City of North Bay Village on an ongoing basis. Services have included water and wastewater studies, planning, design, permitting, and construction phase services.

Special Qualifications

- A lead engineer in our Florida region structural division with 32 years of experience
- Principal areas of practice include structural design, seawalls and shoreline hardening, industrial facilities, municipal projects, parks, marinas, bridges, and condition assessments
- Responsible for project management, production, scheduling, personnel coordination, and quality control for projects involving seawall, bridges, buildings, and industrial facilities
- Involved in the design, rehabilitation, repair, construction, and inspection phase services on a variety of structural engineering projects that have included conventional reinforced concrete, precast prestressed concrete, post-tensioned concrete, and structural steel

Professional Credentials

- Master of Science, Civil Engineering, University of Texas, Austin, 1988Bachelor of Science, Architectural Engineering, University of Texas, Austin, 1985
- Professional Engineer in Florida, #43958, April 1, 1991
- LEED® Accredited Professional
- Florida Engineering Foundation Trustee
- Florida Engineering Society, Past President
- Florida Engineering Leadership Institute, Class of 2008

Angelina Fairchild, P.E., LEED AP

Relevant Experience (continued)

Florida Atlantic University (FAU) Continuing Minor Civil Engineering (Multiple Projects), FL — Florida Atlantic University (FAU) Continuing Minor Civil Engineering (Multiple Projects), Boca Raton, FL — Serving as project manager and civil/structural engineer for FAU's Boca Raton campus providing structural reviews and repairs. Projects include: the structural framing under the Observatory (Building 43), the elevated walkways on the Social Sciences Building (Building 44), and the various housing buildings at the Student Village Apartments. The specific purpose of these assignments was to identify and map the extent of the deterioration, and prepare appropriate repair recommendations, including plans and specifications. Kimley-Horn provided investigative, design, and bid services. These repairs are currently under construction and Kimley-Horn is providing field construction support services. As the project manager, conducted on-site hands-on review, report, and plan preparation oversight; quality control; and coordinating ongoing construction phase services.

Town of Palm Beach Continuing Consulting Services (includes North Flagler Drive force main, North Ocean Blvd. seawall), Palm Beach, FL — Performed structural evaluations and made repair recommendations for several existing lift stations under the jurisdiction of the Town of Palm Beach.

Palm Beach Atlantic University Traffic Concurrency Analysis, West Palm Beach, FL — Project manager. The Kimley-Horn team performed a traffic concurrency analysis on Palm Beach Atlantic University's downtown West Palm Beach campus proposed plan and successfully received approval. The firm also negotiated an agreement with Palm Beach County to tie impact fee calculation to student enrollment at time of development rather than new trips. The firm performed civil engineering work to install new fiber optic cables at several intersections and modifying existing cables for the university, taking the process from the preliminary layout and cost feasibility phases to the final design, permitting and bid phases. In addition, we performed a traffic concurrency analysis at the SR 80 and Jog Road site for athletic fields and successfully received approval.

Consulting Services for Parks Bond Program, Delray Beach, FL — Project engineer for park improvements as part of City's parks bond program. First assignment is to upgrade Boy Scout Hut Park. Improvements include walking trail and vita course, playground, new restroom building, open play area, pedestrian crosswalk across Lake Ida Road, landscaping and irrigation. Master plan of improvements is complete and currently in design phase of park improvements. Also selected to design new soccer complex for City. This facility will be a tournament-quality sports complex.

Brickell Key One Property Structural Assessment and Repair Work, Miami, FL — Project manager. Services consisted of the assessment of building structural elements including exterior façade, roof, parking garage and interior structures for this 20-story waterfront condominium. Upon completion of the assessment, Kimley-Horn was engaged to develop repair plans and specifications for the restoration of the façade and site amenities. Services were then expanded to include construction oversight of the repairs.

Brian Shamburger, P.E., PTOE

Complete Street & ADA Plans

Relevant Experience

Broward County Aviation Division Fort Lauderdale Hollywood International Airport ADA Transition Plan, Ft. Lauderdale, FL — Project manager. The Broward County Aviation Division (BCAD) recently selected Kimley-Horn to update their ADA Transition Plan. Facilities evaluated as part of the Self-Evaluation included all four terminal facilities and their associated curbside frontage, three multi-level parking garages, two employees surface lots, and four BCAD administration buildings and their associated parking. The project team also reviewed BCAD's programs and services to identify barriers to access. The Final Transition Plan was completed at the end of 2017.

City of Tampa ADA Transition Plan, Tampa, FL — Project engineer. The purpose of this project was to prepare a summary of ADA transportation activities and plans completed to date and to create a strategy to develop and implement the ADA transition plan to reflect 2010 ADA standards, the 2011 Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG), and to develop a prioritization methodology for evaluating and implementing improvements to City infrastructure. Kimley-Horn prepared a summary document to serve as a resource guide for the City.

Delray Beach ADA Transition Plan, Delray, FL — Deputy project manager. The City of Delray Beach selected Kimley-Horn to conduct a Self-Evaluation and develop an ADA Transition Plan. Facilities evaluated as part of the Self-Evaluation included thirty-six miles of sidewalks and approximately 470 unsignalized intersections. The project team helped the City establish the role and responsibilities of the City's ADA Coordinator, developed their grievance policy and procedures, reviewed their design standards for construction, and facilitated a public meeting to gain feedback from the disability community and public. The Final Transition Plan was completed in January 2018.

Jupiter ADA Transition Plan, Jupiter, FL — Project manager. The Town of Jupiter selected Kimley-Horn to conduct a Self-Evaluation and develop an ADA Transition Plan. Kimley-Horn established evaluation criteria, methodology, and procedures to evaluate, provide cost projections, and implement ADA improvements. Facilities evaluated as part of the Self-Evaluation included six public buildings and their associated parking, 10 miles of sidewalks, approximately 70 unsignalized intersections, and 17 parks. The project team hosted a public meeting to solicit input from the local disability community and general public. The Final Transition Plan was submitted and approved in early 2017.

Lakeland ADA Transition Plan Phase 1, Lakeland, FL — Project manager. The City of Lakeland selected Kimley-Horn to develop the first phase of their ADA Transition Plan. Facilities evaluated as part of the Self-Evaluation included 15 signalized intersections, eight (8) miles of sidewalks, and approximately 110 unsignalized intersections. The project team helped the City establish the role and responsibilities of the City's ADA Coordinator, developed their grievance policy and procedures, reviewed their design standards for construction, and facilitated two public meetings to gain feedback from the disability community and public. The Final Transition Plan was approved by the City Commission in July 2017.

Tulsa South Lewis Avenue Complete Street, Tulsa, OK — Project manager. The City of Tulsa selected Kimley-Horn to develop a Complete Streets Procedural Manual. The purpose of the manual is to provide an overview on Complete Streets, guidance on the process for corridor planning, conceptual design, engineering design, and best practice guidelines for city departments, design professionals, private developers, and community groups for street improvement throughout the City of Tulsa. It also serves as a resource for promoting higher quality street designs and more direct connection to the vision for streets within the City. This Procedural Manual supplements — rather than

Special Qualifications

- 15 years traffic engineering design, operations, and ITS experience
- Expertise in various traffic and transportation software, including Synchro™, PASSER II, III, and V, and TRANSYT-7F, HCS, and CORSIM, along with Microstation, AutoCAD, and SignCAD
- Developed and taught a two day Synchro™ traffic signal timing seminar
- Expertise in ADA and Title II compliance

Professional Credentials

- Master of Science, Civil Engineering, Texas A&M University, 1995Bachelor of Science, Civil Engineering, Texas A&M University, 1994
- Professional Engineer in Texas and Oklahoma
- Certified Professional Traffic Operations Engineer
- TxDOT Precertified in Categories: 7.1.1, 7.3.1, 7.4.1, 7.5.1, 8.1.1, 8.3.1, 9.1.1
- Institute of Transportation Engineers (ITE)
- Intelligent Transportation Society of America (ITS America), Member

Brian Shamburger, P.E., PTOE

Relevant Experience (continued)

replace — existing engineering and environmental standards and requirements. As part of this effort, the Kimley-Horn team facilitated a multi-disciplinary design workshop that resulted in a conceptual redesign of South Lewis Avenue from 11th Street to 21st Street, which safely accommodate all users and serves the needs of the corridor's future development context.

Bartlett ADA Transition Plan, Bartlett, TN — Project director. Kimley-Horn and Accessology were recently selected by the City of Bartlett to prepare an ADA Self-Evaluation and Transition Plan. The phased project will include an ADA compliance review of a portion of the City's buildings and associated parking lots, parks and associated parking lots, non-signalized intersections and associated curb ramps, and all signalized intersections. Recommendations and cost estimations to bring any noncompliant elements into compliance will be provided.

Bryan ADA Self-Evaluation and Transition, Bryan, TX — Principal-in-charge. The City of Bryan selected Kimley-Horn and Accessology to conduct a Self-Evaluation and develop an ADA Transition Plan. The team provided training for field crews, managed, and scheduled the data collection for selected signalized intersections and arterial sidewalk corridors within the City. We managed all collected data and created cost estimate reports for these facilities. This plan included 20 signalized intersections, 59 unsignalized intersections, six miles of sidewalks, four buildings, and two parks. The final Transition Plan was approved by City Council in December 2015.

ADA Transition Plan and Sidewalk Inventory, Carson City, NV — Project engineer. Kimley-Horn prepared an ADA Transition Plan for Carson City, focusing on establishing evaluation criteria, methodology, and basic processes to identify, prepare cost projection for, and to prioritize ADA improvements. We reviewed Carson City's existing practices and provided expert knowledge for future planning and decisions regarding ADA compliance with respect to sidewalks, accessibility at transit stops, and traffic signals. Our team evaluated the sidewalk network for gaps in connectivity, hazards, obstructions, missing curb ramps, and general noncompliance with ADA regulations, including pedestrian actuated push buttons at traffic control signals and accessibility at transit stops within Carson City and a portion of Douglas County within the Carson Area Metropolitan Planning Organization (CAMPO). Kimley-Horn also developed an ArcGIS/GPS-based ADA data collection application that runs on a tablet in the field, synchronizing in "real-time" with ArcGIS to expedite data collection. This data collection application reduces human error and the need to revisit a site due to incomplete or erroneous data.

ADA Self-Evaluation and Transition Plan, Coppell, TX — Project engineer. Kimley-Horn and Accessology established evaluation criteria, methodology, and procedures to evaluate, provide cost projections, and implement ADA improvements. The City of Coppell had the following facilities evaluated: 35 signalized intersections, 100 miles of sidewalk, 22 buildings, and 18 parks. The project team reviewed the City's current programs, services, and activities related to ADA and provided training to City staff on ADA compliance.

ADA Self-Evaluation and Transition Plan, Edmond, OK — Project manager. Kimley-Horn and Accessology established evaluation criteria, methodology, and procedures to evaluate, provide cost projections for, and implement ADA improvements. Facilities evaluated as part of the Self-Evaluation included 14 public buildings and their associated parking, 15 parks and their associated parking , 73 signalized intersections, approximately 250 unsignalized intersections, 66.5 miles of sidewalks, six transit stops, and parks. The project team reviewed the City's current programs, services, and activities related to ADA and provided training to City staff on ADA compliance.

Sidewalk Survey and ADA Pedestrian Curb Ramp Study, Fort Worth, TX — Project Director. Kimley-Horn performed a citywide sidewalk inventory and developed a Transition Plan as required by the ADA. The project consisted of a comprehensive study of the City's existing curb ramps and sidewalks. The assessment determined the extent of improvements and associated costs to bring them into compliance with the ADA. Once the required improvements were identified, our team classified them into three priority categories. The improvements were ranked according to their pedestrian attractor scores, which were then used to develop a curb ramp and sidewalk improvement implementation schedule.

College Station ADA Transition Plan, College Station, TX — Project manager. The City of College Station selected Kimley-Horn to conduct a self-evaluation and develop an ADA Transition Plan. We provided training for field crews, managed and scheduled the data collection for 20 signalized intersections and three miles of arterial sidewalk corridors within the City. We managed all collected data and created cost estimate reports for these facilities. This plan also included 37 unsignalized intersections, three buildings, and two parks.

Brett Johnson, P.E.

Undergrounding of Overhead Utilities

Relevant Experience

Townwide Undergrounding of Utilities Program, Palm Beach, FL — Project engineer. Subsequent to a state of Florida mandate that FPL "storm harden" all vital infrastructure and utility lines statewide, resulting in the installation of taller, concrete electric poles, the Town of Palm Beach chose instead to convert all aerial electric, communication, and cable lines to an underground location. Kimley-Horn serves as program manager and prime consultant designing and permitting the underground conversion process in close coordination with FPL, AT&T and Comcast. Kimley-Horn first developed a master plan to outline the schedule, sequencing, phasing, management of traffic impacts, project delivery methods, data collection, public outreach, design criteria, and projected costs. At the same time, Kimley-Horn performed the detailed design of Phase 1 of the program, which is now complete. Kimley-Horn and the Town also performed planning to address Town infrastructure needs (stormwater, gas, water and sewer) to determine if any renovation or replacement should occur while the underground utility work is underway. The benefits of undergrounding these utilities include improved neighborhood aesthetics, increased service reliability, and increased levels of safety as the lines are no longer exposed. The entire program, which began in 2016, is expected to take 10 years to complete.

Town of Palm Beach Town Hall Square Streetscape and Infrastructure Improvements, Palm Beach, FL — Engineer-of-record for this historic fountain restoration and roadway beautification project within the heart of the Town's commercial corridor. Responsible for project design, construction phase services, and coordination of specialty sub-consultants. Phase I of the project included the restoration of the Mizner Memorial Fountain that was originally constructed in 1929. This part of the project was partially funded by the State of Florida through a historic preservation grant. Phase II of the project includes streetscape improvements consisting of landscaped nodes, decorative pedestrian crossings, updated urban park landscaping that creates a public gathering area in the median of a the roadway where the fountain feature resides, modification of various underground utilities, replacement of sidewalks with decorative tabby concrete, and the introduction of many landscaping and architectural elements throughout the area. Phase II of the project will also be partially funded by the state of Florida through a historic preservation grant and through private citizen donations.

NW 11th Avenue Reconstruction, Boynton Beach, FL — Engineer-of-record for this local street reconstruction project. Responsible for project design and for coordinating with several City departments invested in the project. Elements of the reconstruction include adding a lane, providing an auxiliary lane for student drop-off/pick-up, and making a connection to an adjacent street. The project also include the relocation and undergrounding of the utilities on the street.

Clematis Alley Utility Improvements and Overhead Utility Conversion, West Palm Beach, FL — Project engineer for this utility overhead to underground conversion in the Clematis Street corridor in downtown West Palm Beach. Kimley-Horn's project scope includes transportation engineering and planning consulting, utilities engineering, and construction phase services.

Lake Worth Neighborhood Road Program Year 1, Year 2, and Year 3, Lake Worth, FL — Project engineer on the team that provided the City of Lake Worth with civil engineering services consisting of roadway design and drainage design. The effort focused mainly on pavement rehabilitation on roadways with the lowest pavement condition index. In addition to pavement rehabilitation, Kimley-Horn designed new catch basins, additional traffic calming measures, and ADA compliant sidewalk routes to provide continuity in the neighborhood. Tasks include data collection, utility

Special Qualifications

- More than 13 years of civil engineering experience in Palm Beach County
- Focus on park and streetscape design with a special interest in bicycle/pedestrian facilities
- Extensive construction administration experience
- Proficient in Autodesk AutoCAD Civil 3D

Professional Credentials

- Bachelor of Science, Mechanical Engineering, Virginia Polytechnic Inst. & State University, 2006
- Professional Engineer in Florida, #74005, January 12, 2012
- Engineer-of-Record for a 2017 American Public Works Association National Project of the Year
- American Society of Civil Engineers (Past Member)
- Active Member of the Palm Beach County League of Cities

Brett Johnson, P.E.

Relevant Experience (continued)

coordination, development of construction documents, bidding assistance, and observation during construction. Lake Worth Neighborhood Road Program Year 3 is still in design.

Town of Jupiter Continuing Consulting Services, Jupiter, FL — Project engineer. Kimley-Horn has served the Town of Jupiter Utilities Department on a variety of projects for many years. Our services have included pipeline projects, facility improvements, water treatment design and improvements, communication upgrades, facility demolition, repair and rehabilitation projects, structural engineering, construction administration, and a variety of other services both traditional and non-traditional. Our high level of service to the Town has allowed us to be a trusted advisor on many aspects of the Utilities' future growth and day-to-day operations. Specifically involved with the design-build criteria for the South Jupiter Community Park.

Town of Palm Beach Continuing Consulting Services, Palm Beach, FL — Project engineer. Kimley-Horn has served as a general engineering consultant to the Town of Palm Beach for a period of time dating back to the 1960s. In this role, we have completed numerous projects and services, including: master planning; stormwater collection system planning and design; stormwater pumping station design; sanitary lift station design; sanitary collection and transmission system planning and design; hydraulic analysis and modeling; feasibility studies; recreational facility design for tennis, golf, and multipurpose field facilities; marine structures design and rehabilitation; bridge rehabilitation; fuel system upgrades; streetscape improvements; environmental assessment and contamination remediation; environmental permitting; structural and mechanical engineering; and traffic engineering. Presently involved with data collection and site plan preparation for the Legacy Project.

West Palm Beach Northwood Railroad Corridor Phase 1A Utility Relocations (16-inch to 30-inch pipelines), West Palm Beach, FL — Assisted with the design of utility relocations associated with railway improvements in the Northwood industrial area in West Palm Beach. As part of a FDOT project to provide greater connectivity between the CSX and FEC railroads, Kimley-Horn was selected by the City of West Palm Beach to design multiple utility relocations for water, sewer, and stormwater infrastructure to meet strict vertical clearance requirements between the rails and the tops of the pipelines. This required rerouting multiple gravity sewers to new lift stations, adjacent sanitary basins, or lowering in place and rebuilding downstream infrastructure. It also involved lowering and rerouting multiple water and stormwater pipelines to avoid the new railroad infrastructure being proposed by the FDOT. The project included multiple jack and bore designs for casings ranging in size from 16 to 30 inches.

West Palm Beach Southern Boulevard Bridge Subaqueous 16-inch Water Main Replacement and Route Study (14-inch pipeline), West Palm Beach, FL — Project engineer. This project involved the design of a 16-inch HDPE pipeline under the Intracoastal Waterway between the City of West Palm Beach and the Town of Palm Beach. As a result of the Southern Blvd. Bridge reconstruction project, a 16-inch water main owned by the City of West Palm Beach needed to be relocated. Kimley-Horn provided an initial route study to identify potential pipeline routes and hydraulic modeling to determine that the pipe diameter could be reduced to lower construction costs. Kimley-Horn provided design, permitting, bidding, and construction phase services for the project. Permits were obtained from the U.S. Army Corps of Engineers, Florida Department of Environmental Protection, and Florida Department of Transportation.

Reach 3 Seawall Improvements, Palm Beach, FL — Project engineer. Kimley-Horn was selected by the Town of Palm Beach to prepare repair documents to address deteriorated sections of the seawall that protects North Ocean Boulevard between Sunrise Avenue and Wells Road. The damage was discovered after a strong winter storm season eroded the dune that had buried the wall for nearly 30 years. The wall in this area is made up of five unique sections that are all of differing construction styles and ages. A unique aspect of this project was that the wall sections are privately owned. However, they provide protection to North Ocean Boulevard, which the Town is responsible for protecting.

Officer Bruce St. Laurent Park (fka Pine Gardens South Park), Jupiter, FL — Project manager and engineer-of-record for this park renovation project. Responsible for the design of the project, including leading a task force of Town staff in the selection of a playground manufacturer and specific equipment. The project was mostly funded by the State of Florida through the Community Development Block Grant Program. Project elements include new playgrounds and safety surfaces, sidewalks, and site beautification.

LAKDAS NANAYAKKARA P.E. #37590

EDUCATION:

Post Graduate Diploma in Structural Engineering
England, United Kingdom

Bachelor of Science Honors Degree in Civil Engineering
With Structural Engineer Major
University of Hartford
England, United Kingdom

Higher National Certificate in Civil Engineering
Hertfordshire College of Building
England, United Kingdom

NATIONAL & STATE AWARDS:

- *Tamarac City Complex: National Award: Structural Engineer of Record*
- *Aventura City Complex: State Award: Structural Engineer of Record*
- *Tamarac Pedestrian Bridge: State Award: Structural Engineer of Record*
- *2011 National Tilt-Up Achievement Award – Tilt-Up Concrete Association*

PATENT LICENSE TO INDUSTRY:

- *11 Patents: U.S., U.K., Australia, China and Bahamas*
- *Metal stud frame system # US 6980 347 B2*
- *Interlocking masonry wall # US 6550 208 B2*
- *Light gauge metal frame # US 6163 674 B1*

PROFESSIONAL ENGINEER REGISTRATIONS:

Engineering

- Charted Structural Engineering
  London, England – 1981
- Florida #037590
- South Dakota – 4058
- Minnesota - #17947

Construction

- Florida Certified General Contractor – CGC 044303

Inspection

- Certified Structural Masonry Inspector – 1992
- Certified Threshold Inspector – 1987
- Certified Uniform Building Code Inspector - 690

- Structural Engineering Expert for Unsafe Structure Board – City of Margate since “2001”.

- Structural expert witness services over 400 residential projects for Insurance companies, over 58 projects failure analysis and Expert testimony for litigation representation.

EMPLOYMENT:

1988 to present Lakdas / Yohalem Engineering, Inc
Fort Lauderdale, FL 33308
Principal - in charge of structural design and final review of construction documents, study, evaluation reports and contract negotiation.

1986-87 Yohalem Engineering, Inc.
Fort Lauderdale, FL 33308
Principal Associate - structural design, project management,
Structural Investigation Reports liaise with Architects and clients contract negotiation.

1983-86 Darg Palanasami and Associates, Inc.
Minneapolis, MN
Project Engineer - Structural design, site supervision, structural investigations and reports, liaise with Architects and General Contractors.

1978-83 Structural Design Partnership
St. Albans, England
Project Engineer - Structural design, site supervision, structural investigations and reports, liaise with Architects, General Contractors and clients.

EXPERIENCE:

Thirty-six years of practicing as a Professional Structural Engineer in the following disciplines: building structures, marine and bridge engineering structures for many state, county and city agencies in support of high visible and miscellaneous public projects.

Over 1500 projects were completed in South Florida and the Caribbean Basin during the last 31 years.

Building Projects:

- 8 new stand-alone multi-story parking garages
- Over 10 multi-stories residential buildings with parking garages
- Over 5 multi-stories commercial buildings with parking garages
- 11 cruise terminal facilities
- Renovation and expansion of 61 existing elementary, middle and high schools.
- 6 high schools, 8 middle schools and 14 elementary schools (New)
- 11 community college building facilities, 6 special education facilities
- 18 multi-story hotels and resort projects
- Structural renovations of 11 parking garages, 21 condominiums
- 8 new libraries, 8 auditorium and amphitheater
- 14 new fire stations, 7 police and public safety buildings
- 6 new city complexes with two award winning structures

Water and Wastewater Treatment and Solid Waste Treatment Plants:

- 12 water and wastewater treatment plants expansion projects
- 6 solid waste treatment plant renovation and expansion projects
- 14 water and wastewater treatment plant renovation projects

Marinas, Seawalls and Port Facilities:

- 9 Marinas (Over 100 Slips)
- 64 Residential, multi-residential, docks and seawalls
- 8 Toewalls, bulkhead and pier projects at port facilities

Highway and Pedestrian Bridges:

- 18 new highway bridges ❖ 11 pedestrian bridges ❖ 14 passenger loading bridges
- 16 high-way bridge expansion projects

Park Facilities:

- 18 park and amusement park facilities

Mast Arm Structures:

- 400 Mast Arm Structures

Value Engineering and Constructability Review

Participated as structural expert for over 31 value-engineering sessions for both FDOT and County's major projects in building, bridges and water and wastewater treatment plants. Our Value-Engineering service has saved:

- Bridge projects over $4.5 million
- Building projects, saved over $4.1 million
- Water & Wastewater Treatment Plants, saved over $6.6 million
- Worked for local city agencies as special structural review for over 40 projects

Structural Failure Analysis and Expert Witness: Construction Related Litigation

- 12 Commercial projects ❖ 46 Residential projects

Professional Societies:

Institute of Structural Engineers, London, England
American Society of Civil Engineers, American Concrete Institute
Florida Institute of Consulting Engineers, The Masonry Society

Civic Organizations:

Member of Broward County Construction Executive Association and Member of Florida Consulting Engineers

Dickey Consulting

Public Relations • Project Management • Strategic Planning • Economic Development

"Sustaining Communities"

Sheryl A. Dickey

President/CEO

HIGHLIGHTS

Community and Business Development Expert

Public Engagement Specialist

Collaborative Change Agent

CERTIFICATIONS

Charrette Planner
National Charrette Institute

Public Meeting Facilitator,
National Charrette Institute

AFFLIATIONS

International Economic Development Council

Greater Fort Lauderdale Chamber of Commerce

COMTO

AMAC

EDUCATION

B.S.S.W. The Ohio State University

RECOGNITION

Boys & Girls Clubs of Broward County/ 100 Outstanding Women of Broward County, 2010

Sistrunk Community Festival Small Business Award, 2007

Success South Florida Magazine One of South Florida's 25 Most Prominent & Influential Black Women, 2006

Greater Fort Lauderdale Chamber of Commerce/Salute to Business Award. 2002

Sheryl A. Dickey, founder and owner of Dickey Consulting Services (DCS) is a community and economic development professional with more than 35 years of experience and a track record of success in these areas. She and her staff bring a high level of energy and the ability to participate in a leadership or team member role to ensure successful completion of a project.

DCS is an economic development, government relations, project management and communications consulting firm. DCS provides services to public and private enterprises. DCS provides staffing for invoicing, accounting, documents control, contract administration, civil-CAD, construction inspections, and communications assistance. The firm also provides administrative support for budgeting, planning, management, and purchasing.

Dickey has worked with numerous clients including the Florida Department of Transportation, Broward County, City of Fort Lauderdale, City of Deerfield Beach, and Boca Raton Airport Authority. She currently serves as the Project Director for FDOT Central Broward East-West Transit Study, Broward County Neighborhoods Improvement Program, SR 9/I-95 PD&E Study, and Airport Noise Abatement Committee Assistance for Fort Lauderdale-Hollywood International Airport. She is the DBE Program Administrator for Boca Raton Airport Authority and Fort Lauderdale Executive Airport. Dickey has successfully completed the City of Deerfield Beach SR A1A PD&E Study, Tri-Rail EASY Card Implementation Program, Broward County B-cycle Bike Sharing System Launch, and Broadview Park Neighborhood Improvement projects.

Dickey is a longtime Broward County resident and business owner. Her company's headquarters are in the Midtown Commerce Center, a newly constructed Silver LEED certified building in Fort Lauderdale. Dickey is the developer and owner of the building.

Dickey's professional experiences include Director of Economic and Community Development for Blockbuster Entertainment Corporation and Director of Economic Development for the City of Fort Lauderdale, in Fort Lauderdale, Florida. She was formerly the Deputy Director of Economic Development for the Toledo/Lucas County Port Authority in Toledo, Ohio, the Director of Small and Developing Businesses for the State of Ohio Department of Development, in Columbus, Ohio, and a former member of the Portsmouth City Council in Portsmouth, Ohio. Ms. Dickey's prior experiences include a variety of positions supporting small business development and community revitalization.

Dickey completed her undergraduate education in social work at The Ohio State University in Columbus, Ohio.

Dickey is active in many community and business organizations including the Urban Core Committee of Broward Workshop, Greater Fort Lauderdale Chamber of Commerce, Leadership Broward, Riverwalk Trust, Association for Women in Communication, and International Council for Urban and Economic Development. She is the former Chair of the Broward Public Library Foundation.

KEITH

JON WEYMOUTH, PE

Engineering Inspector

Years of Experience
28

Education
B.S. Architectural Engineering, University of Miami, 1990

Professional Registrations
Professional Engineer, State of Florida, #52802 (1998)

Professional Certifications
10-Hour OSHA Safety Certification

Workzone Traffic Control- Advance Level

Mr. Jonathan Weymouth has 28 years of experience in the planning, design, permitting and construction of heavy transportation, utility as well as all types of civil and environmental engineering projects. His work involves the supervision of engineering and technical personnel engaged in the design and construction of public and private sector improvements. Past projects include major transportation infrastructure projects such as airports, bridges, highways and roadways. This is in addition to civil land development, recreational facilities and environmental mitigation projects. The design/permitting/construction experience that Mr. Weymouth brings to the team regarding key elements related to the Expansion of Runway 9L-27R Program at FLL will be highly valuable to BCAD. These elements include earthwork and embankments, stormwater management, concrete and asphalt pavements along with communication, potable water distribution and sanitary sewer collection systems. Additionally, he has extensive knowledge and effective experience coordinating with FEC, as well as with permitting and federal agencies such as FDOT and FAA. He is very familiar and fully qualified to implement and control the guidelines and requirements established by these agencies.

RELEVANT PROJECT EXPERIENCE

John Knox Village Health Center, Pompano Beach, FL: The John Knox Village Health Center is a seven story "Green House" skilled nursing facility. The state of the art center is one of Florida's first of its kind. It is located on their 65 acre campus in Pompano Beach and can house a total of 144 residents in the building. KEITH provided planning, surveying, civil engineering, landscape architecture, construction administration and SUE services. KEITH was responsible for processing the site plan, civil design, and processing construction permits.

City of Pompano Beach Design/Build Pier Beach Parking Garage, Pompano Beach, FL: The new Pompano Beach Pier/Beach Parking Garage is located at the southeast corner of North Ocean Blvd. (S.R. A1A) and NE 3rd Street on a 3.5-acre site. The new parking garage includes five stories, 625 parking spaces, speed ramp to facilitate access to higher levels of the garage and some retail space on the ground level fronting NE 3rd Street and the new Pier Street. As part of the design-build team, led by Kaufman Lynn Construction, KEITH was responsible for Planning, Surveying, Utility Coordination/Investigation, Civil Engineering, Landscape Design, Permitting and Construction Inspection of the project.

Charlotte J. Burris Civic Center, Pompano Beach, FL: KEITH is currently providing civil engineering, permitting, construction administration and coordination and landscape architecture services for the 8,712-SF Charlotte J. Burrie Community/Civic Center location in Pompano Beach. The Center is designed with multipurpose meeting spaces for civic, social, and recreational activities, easy pedestrian access with ADA compliance, porte cochere entrance for inclement weather protection, and 48 vehicular and 20 bicycle parking spots. Interior floor plans feature reception area and administrative offices; small conference room; assembly spaces for classes or meetings; large multipurpose room to offer table seating for 125, or theater style seating for 250, as well as a performance stage; and a warming kitchen, restrooms, and storage areas.

City of Pompano Beach CRA Miscellaneous Engineering and Surveying Services, Pompano Beach, FL: KEITH is currently providing general engineering and surveying and mapping services to the CRA on an as needed basis on this ongoing continuing services contracts. Some projects provided under this contract include: MLK Boulevard Study & Boundary Survey, MLK Boulevard Planning & Design, FEC Railroad Right-of-Way Study, Municipal Pier Restaurant Redevelopment, MLK Boulevard Street Vacation Services, Pompano Beach Boulevard Streetscape & Dune Revitalization, East Atlantic Boulevard/Pompano Beach Boulevard Surveys, Old Pompano Area

Design Survey (North of Atlantic Boulevard), NW CRA Update Boundary Survey to Design Survey, MLK Boulevard Survey (I-95 to Dixie Highway), Right-of-Way Vacations & Dedications for NW CRA (NW 4th Street and NW 4th Avenue), Esquire Lakes Sign Survey, Professional Services for Mixed-Use Downtown Pompano Connectivity Plan, NW 6th Street Topographic Survey and Street Light Locations, NE 1st Street Boundary Survey, Pompano Springs Utility Easements, Ortanique Boundary Survey, NW Corner of NW 6th Avenue/MLK Boulevard Plat & Re-Plat, FPL Utility Easements, MLK Boulevard Update Survey, Professional Services for the Development of 731 Hammondville Road, Professional Services for MLK Boulevard Streetscape Improvements, FEC Flagler Corridor Landscape Easements, Pompano Beach Library Branch Relocation Survey, Rezoning of NE Corner of MLK Boulevard & NW 6th Avenue, Atlantic Point Boundary and Topographic Surveys, Trafficway Plan Amendment for MLK Boulevard/Hammondville Road, Bailey Hotel Boundary Survey, Old Pompano Area Water and Sewer Improvements for Future Development Restaurants, and MLK Boulevard Water Main Design.

North Pompano Park Improvements, Pompano Beach. FL: KEITH has been assigned to provide design services for the development of North Pompano Park. The project consists of a series of walking trails, landscape, minor parking areas, fence and perimeter enclosure as well as lighting for fields and pedestrian level. The project will be built using a CMAR process and the CM is expected to be added to the team at or near the Schematic Design or Design Development phase. The CM will work with the team to complete the project design as well as transition to construction.

SR A1A Improvements, Pompano Beach, FL: KEITH has provided comprehensive design, permitting, bid, and construction phase services associated with site improvements at Everglades Holiday Park. The improvements included renovation, construction and/or reconstruction of boat docks, boat ramps, parking, ancillary buildings, limited utility infrastructure, other minor park related amenities and improvements. This project has included LEED "Green" design principles. Project phases include: Conceptual Master Plan Design, Schematic Design, Design Development and Construction Documents.

City of Fort Lauderdale Continuing Surveying Services, Fort Lauderdale, FL: KEITH provided general surveying and mapping services to the municipality on an as needed basis on this ongoing continuing services contract. Some projects provided under these contracts include NE 27th Street ADA Parking Lot Topographic Design Surveys, ADA Compliance Design Surveys for Eisenhower Blvd and SE 17th Street, Las Olas Circle, Birch Road, SE 4th Street, SE 16th Avenue and SE 15th Avenue, and NW 4th Andrews Avenue to NW 1st Avenue, Peele Dixie Water Treatment Plant Engineering Design Surveys, Boundary and Topographic Surveys, SE 15th Street Boat Ramp Boundary Surveys, Hortt Elementary School ALTA/ACSM Land Title Survey, Mills Pond Park Boundary Survey, Croissant Park Athletic Field Staking and Final As-Built Sketch for the City's records, River Oaks (Lauderdale Marine Center) Specific Purpose Survey & Sketch and Design, South Middle River Park Boundary Survey, Fort Lauderdale Executive Airport (FXE) Taxiway Golf Relocation FAA Survey Submittal Assistance, 17th Street Causeway Service Road Utility Designation and Mapping, and River Oaks Preserve Topographic Survey.

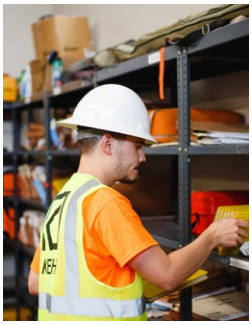
Nova Southeastern University (NSU) Student Housing Development, Davie, FL: KEITH is currently providing civil engineering and surveying services, as a subconsultant partner to RISE: Real Estate Company, for the development of new student residential facilities on the University's Davie campus at the northwest corner of Nova Road and College Avenue. This student housing development will bring approximately 600 beds to NSU's campus in response to existing student housing demand.

Town of Southwest Ranches Continuing Surveying and Engineering Services, Southwest Ranches, FL: KEITH is currently providing general engineering and surveying and mapping services to the Town on an as needed basis on these on-going continuing services contracts. Some projects provided under these contracts include: various drainage improvement projects, volunteer fire station relocation, SW 202nd Avenue Entranceway Signs, and Calusa Corners Park Phase 1.

Fort Lauderdale-Hollywood International Airport (FLL) Expansion Program III (AEP III) Terminal 4 (T4) Expansion, Fort Lauderdale, FL: Mr. Weymouth served as utility construction manager for the underground improvements associated with 1.6 billion dollar replacement of T4 – Concourse H and the airfield apron. Work included replacement, relocation and upgrade of the domestic water and new sanitary sewer systems serving the new T4 - Concourse G and the new transmission main around the perimeter of T4.

FREDDY RIVERA

Engineering Inspector



Mr. Freddy Rivera has more than six years of in depth experience in construction engineering. He is skilled in AutoCad, PERI CAD, P Spice and brings several years of civil engineering and construction inspection knowledge to the KEITH Team. Freddy has worked as a Lead Inspector on multiple large-scale, multi-million dollar construction projects where he inspected pre-construction sewer systems, water systems, roadways and curbs.

Years of Experience
6

Education
Roger Williams University, Bristol RI Engineering with specialization in Civil Engineering

Professional Registrations

OSHA Certified, 2015

PACP Certified 2019

DEC Erosion and Sediment Control, 2016

ACI Field Testing Technician Grade I, 2017

Safe Digging Professional Certification, 2017

RELEVANT PROJECT EXPERIENCE

Charlotte J. Burrie Civic Center, Pompano Beach, FL: KEITH is currently providing civil engineering, permitting, landscape architecture and construction administration and coordination services for the 8,712-SF Charlotte J. Burrie Community/ Civic Center. The Civic Center was designed with multipurpose meeting spaces for civic, social, and recreational activities, easy pedestrian access with ADA compliance, porte-cochère entrance for inclement weather protection, and 48 vehicular and 20 bicycle parking spots. The Civic Center building will also be LEED-certified. The engineering requirements include providing LEED templates, permitting, engineering plans including water and sewer, on-site paving, grading and drainage, signing and pavement marking, stormwater pollution prevention, bidding assistance and construction observation. Mr. Rivera provided construction inspection services for this project.

Nova Southeastern University Student Housing Development, Davie, FL: KEITH provided professional services including complete topographic and boundary surveying, utility investigation of all public and private utilities within and adjacent to the project limits, complete civil design to adequately provide water/fire/sanitary sewer service and stormwater management design/grading of the site in compliance with the latest federal/state and local criteria, permitting through all jurisdictional agencies and site construction inspection and certification services. The project consisted of developing a new 7-story 600-bed student residential facility within NSU's Main Campus in Davie. KEITH was able to accomplish all site permitting for this project in advance of the allocated aggressive timeline while also resolving some other imposed issues not directly related or caused by this project. The project delivery method was a Construction Manager (CM) at-Risk. The KEITH team closely collaborated with the selected Developer (RISE), CM (Juneau Construction) and owner (NSU) to ensure the project meets their schedule and budget. Mr. Rivera provided construction inspection services for this project.

Bermuda Riviera Water Main Improvements, FL: The City of Fort Lauderdale has identified the area within the residential neighborhood of Bermuda Riviera from NE 36th Street to NE 42nd Court, between State Road A1A and the Intracoastal Waterway as an improvement project. The upgraded water mains will be a looped system totaling approximately 22,630 LF of new 8-inch diameter water main pipe. The new system will connect to the existing water mains near state road A1A. These improvements involve upgrading the existing 6-inch diameter water mains one nominal size to 8-inch diameter, replacing existing 8-inch water mains with new, providing a looped system, and installing new fire hydrants. KEITH is currently providing civil design, surveying, subsurface utility engineering, permitting, bidding support and construction administration services. Mr. Rivera provided construction inspection services for this project.

Fire Station 24 Replacement, Pompano Beach, FL: This City of Pompano Beach requested KEITH to replace the existing Pompano Beach Fire Station No. 24 located at 2001 NE 10th Street in the City of Pompano Beach, with a new two-story 4 bay Fire Station. KEITH, as a subconsultant partner to Currie Sowards Aguila Architects and West Construction & Design, is currently providing engineering design and permitting, project coordination, surveying, landscape architecture and construction services for this project. The existing fire station will be demolished and prepared for the construction of the new station. New utilities and services along with new landscaping, 20 parking spaces and 3 visitor parking spaces, offices, training room and an exercise room on the first floor. The storm hardened structure will be designed and constructed to meet the Category V storms that can come our way. The Station will be designed to achieve a minimum level of Silver Certification.

STEVE HIGH

Engineering Inspector

Mr. Steve High joined the firm in 2008 and has more than 46 years of experience in land development, project management, roadway and utility construction inspection. He has managed daily construction activities relating to earthwork operations, asphalt paving, utility relocations, concrete placement and drainage pipe installation. His experience includes preparing daily inspection reports on all activities, job progression, personnel and equipment, as well as interfacing with contractors on behalf of clients and accountability for job site coordination. His current capacity of Senior Construction Inspector requires monitoring and inspection of all phases of construction work, as well as coordination with clients, contractors, public agencies, utilities and affected property owners. His experience includes project management and field engineering inspection experience for both public and private projects.

Years of Experience
46

Education
Broward College
Palm Beach College

Professional Registrations
FDEP Stormwater Management Inspector License #5696

Professional Certifications
Asphalt Paving Technician Level 1

Earthwork Construction Inspection, Level 1

Concrete Field Technician, Level 1

ACI Concrete Field Testing Technician, Grade I

Troxler Nuclear Gauge

Final Estimates Level 1

FDOT Temporary Traffic Control - Advanced

Drilled Shaft Inspection

Auger Cast Pile Inspector's Course

IMSA Traffic Signals Level 1

10-Hour OSHA Safety Certification

RELEVANT PROJECT EXPERIENCE

Pinnacle Village / Powerline Road Turn Lanes (SR 945); Pompano Beach, FL: Mr. High was the Senior Engineering Inspector for this project, located in Pompano Beach, a 148-unit affordable housing multifamily project, which substantially enhanced the quality of life for residents of the community. Construction included off-site improvements, within the: FDOT right-of-way, traffic signal cable relocation, construction of new turn lanes, sidewalk, signs and pavement markings. Daily reporting and logs were completed as well as certification packages for the respective governmental agency.

Pompano Beach Parking Garage, Pompano Beach, FL: As part of the design/build team, KEITH was responsible for Planning, Surveying, Utility Coordination/Investigation, Civil Engineering, Landscape Design, Permitting and Construction Inspection of the project. Our professional services include extensive community and municipal outreach, complete topographic and boundary surveying, utility investigation of all public and private utilities within and adjacent to the project limits, complete civil design to adequately provide water/fire/sanitary sewer service and stormwater management design/grading of the site to ensure compliance with recently changed federal/state and local criteria, full landscape and irrigation design, permitting through all jurisdictional agencies and construction inspection and certification services. City Vista Mixed-Use, Pompano Beach, FL: Engineering inspection services for water, sewer, drainage and roadway construction for mixed-use CRA project in Pompano Beach. **(07470.93)**

Pompano Beach Reuse Water Main Installation; Pompano Beach, FL: Mr. High was the Senior Engineering Inspector for this municipal utility project which installed approximately one mile of 24" reuse water main through existing neighborhoods for the City of Pompano Beach. Work included installation of new pipeline construction, roadway reconstruction and paving, testing and restoration of damaged property. Mr. High provided all CEI services checking material and installation observations, determination of quantities, compliance with specifications and coordination with contractor personnel.

Lyons Road Median Improvements, Coconut Creek, FL: KEITH served as the construction engineering inspection and contract manager to the City of Coconut Creek Department for General Engineering Services Contract for this FDOT funded Local Agency Program (LAP) roadway improvement project. The firm served in the capacity of CEI Project Manager on behalf of the City to manage enhancements of a roadway median project along Lyons Road between Copans Road and Coconut Creek Parkway. The project included coordination with the City, the design engineer, FDOT and the site contractor. The team was directly responsible for all FDOT, LAP, EEO and Davis-Bacon Wage Rate Compliance monitoring and interviews.

Broward County Public Works Traffic Signalization Improvement Program: This project included construction management services for the mast arm conversion and intersection improvement projects within the County's Traffic Signalization System. Mr. High, as one of the Resident Project Representatives, provided construction inspection services to the Metric Engineering CEI Team as a subconsultant team member. His responsibilities included drilled shaft monitoring for mast arm installations as well as witnessing and verification of earthwork compaction and asphalt placement, Maintenance of Traffic (MOT), compliance with specifications & coordination with contractor personnel. Daily reporting and logs were completed as well as certification packages for the respective governmental agency.

City of Dania Beach Fire/Rescue Facility Station 93, Dania Beach, FL: A 3.3 acre municipal public safety facility, Mr. High served as Senior Engineering Inspector for the construction of the City of Dania Beach Fire Station and Rescue Facility. Work included earthwork, water and sewer main installation, paving & drainage landscaping, irrigation, pavement markings, as well as off-site drainage and roadway improvements. Mr. High provided all CEI services including checking material, installation observations, determination of quantities, daily logs, safety reports, compliance with specifications and coordination with contractor personnel.

City Vista Mixed-Use, Pompano Beach, FL: Engineering inspection services for water, sewer, drainage and roadway construction for mixed-use CRA project in Pompano Beach.

Coconut Creek High School Stadium Enhancement, Coconut Creek, FL: Mr. High is the Senior Inspector for the firm, providing all construction engineering inspection services for the school's stadium redevelopment facilitated through a City of Coconut Creek Contract as a Design Build Project funded by the School Board of Broward County. The project includes demolition of existing stadium, reconstruction including athletic field, athletic track, bleaches, emergency access, concession building and utility upgrades including the installation of water mains, sewer mains, paving and drainage, landscaping and irrigation. Mr. High was responsible for the oversight of all CEI services, subcontractor coordination and final certification packages.

Commercial Boulevard Turn Lanes, Sunrise, FL (Elementary School "A"): Mr. High was the Senior Engineering Inspector for widening / addition of a turn lane and transition components including paving, drainage infrastructure, curb and gutter, signage and striping. His responsibilities included witnessing and verification of earthwork compaction and asphalt placement, Maintenance of Traffic (MOT), compliance with specifications & coordination with contractor personnel. Daily reporting and logs were completed as well as certification packages for the respective governmental agency.

Discovery Elementary School, Sunrise, FL and Heron Heights Elementary School, Parkland, FL: Mr. High was the Senior Engineering Inspector for these educational facilities which included new construction of two (2) prototype elementary schools for Broward County School Board. Work included all utilities, earthwork, paving & drainage, as well as off-site drainage & roadway improvements. Mr. High provided all CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel. These schools were on a fast track schedule and required extra coordination with the respective municipalities and permitting agencies.

Downtown Connectivity Plan: Pompano Beach, FL.- This project is the urban redevelopment of "old" Pompano and MLK Blvd. corridor. Mr. High provided engineering inspection and project management in liaison with owner, contractor and City. The project involved new utilities, utilities undergrounding, roadway construction, landscaping and irrigation. Work also involved coordination with F.E.C R/R and Broward County Transit.

Hillsboro Boulevard (S.R 810) Improvements, Deerfield Beach, FL: Mr. High served as our Senior Inspector for this Streetscape and utility improvement project from US1 to A1A. Scope includes roadway milling, resurfacing, reconstruction, drainage improvements, box culvert rehabilitation, signalization, pavement markings/signage, landscape/ irrigation, streetscaping, lighting/electrical, burial of overhead utility lines, water main replacement and other incidental construction activities. Mr. High was responsible for monitoring the construction activities, inspections and detail reporting of all phases of construction work.

TIMOTHY GRAY, PSM

Project Surveyor

Years of Experience
19

Education
BS Geomatics, University of Florida, 1999

Certifications
Registered Professional Surveyor & Mapper, Florida #LS6604

Mr. Gray is a Surveyor & Mapper with over 19 years of experience with surveying in South Florida. He is a graduate of the University of Florida's Geomatics Program. His experience includes a variety of surveying assignments, including: Right-of-Way mapping, chain of title research and review, computations, topographic surveys, drainage surveys, ACSM/ALTA surveys, digital terrain models (DTMs), condominium surveys, and calculated parcel/construction stake outs. His experience has included projects for both public and private sector clients. Mr. Gray is proficient in the industry's software including MicroStation XM, Leica Level-pac, GeoPak, Caice, and AutoCAD. He is also proficient in the processing of survey data including both Electronic Field Book (EFB) and Tripod Data Systems (TDS) Data collection.

RELEVANT PROJECT EXPERIENCE

Pompano Beach Design/Build Pier Beach Parking Garage, Pompano Beach, FL: The new Pompano Beach Pier/Beach Parking Garage is located at the southeast corner of North Ocean Blvd. (S.R A1A) and NE 3rd Street on a 3.5-acre site. The new parking garage includes five stories, 625 parking spaces, speed ramp to facilitate access to higher levels of the garage and some retail space on the ground level fronting NE 3rd Street and the new Pier Street. As part of the design-build team, led by Kaufman Lynn Construction, KEITH was responsible for Planning, Surveying, Utility Coordination/Investigation, Civil Engineering, Landscape Design, Permitting and Construction Inspection of the project.

John Knox Village Health Center, Pompano Beach, FL: The John Knox Village Health Center is a seven story "Green House" skilled nursing facility. The state of the art center is one of Florida's first of its kind. It is located on their 65 acre campus in Pompano Beach and can house a total of 144 residents in the building. KEITH provided planning, surveying, civil engineering, landscape architecture, construction administration and SUE services. KEITH was responsible for processing the site plan, civil design, and processing construction permits.

Pompano Beach Downtown Connectivity Plan, Phase 1 & 2, Pompano Beach, FL: KEITH is responsible for performing an area wide study of the Northwest CRA existing infrastructure to create an underground utilities atlas map as well as to analyze the existing roadway infrastructure for suitability, connectivity, and circulation. KEITH prepared an assessment of the existing facilities and provided recommendations on suitability of the CRA's land use. Phase 2 - Based on the approved Connectivity Plan as provided by the Pompano Beach CRA, the proposed improvements are to include pedestrian friendly streetscape with landscape/hardscape beautification features along MLK Jr. Blvd. and in Old Pompano Downtown; including special pavement materials, pedestrian lighting and roadway, streetscape furnishings, utility adjustments, and drainage and roadway improvements.

Martin Luther King Boulevard, Pompano Beach, FL: As a Project Surveyor, Mr. Gray was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the design engineer on accurately identifying the existing utilities in order to mitigate conflicts with the proposed design.

KOI Residences and Marina, Pompano Beach, FL: Mr. Gray is responsible for preparing all of the Elevation Certificates, Final Boundary surveys for the individual units and the as-built surveys for this 8.8 acre development which includes 350 residential condos and apartments, restaurant and commercial retail units.

FDOT District 4 Districtwide Surveying & Mapping Services FPID 425037-1-32-01, Broward County, FL: Mr. Gray served as the project surveyor on this Districtwide Surveying and Mapping Contract. For this contract, Mr. Gray completed multiple Task Work Orders including design surveys for I-95 at SW 10th Street (S.R 869) and S.R 845 (Powerline Road). In addition, this contract included major R/W Surveys for Interstate 75 in Miami Dade County and the FEC Railroad in Palm Beach, which included calculating the historic Baseline of Survey. He also completed the R/W

Control Survey for 14th St Causeway (S.R. 844). As with all Districtwide contracts, this contract included miscellaneous tasks, such as additional DTM surveys, drainage as-builts, parcel stake-outs, both horizontal and vertical control needed for the various tasks.

FDOT District 4 Districtwide Miscellaneous Survey Services, FPID 229922-4-32-01, Broward County, FL: Mr. Gray started this Districtwide contract as survey technician and later became the project surveyor. This districtwide had over 95 task work orders within a 5 year period. The tasks ranged from simple parcel stake-outs to full design surveys. Some of the larger tasks included the full design surveys for S.R. 7, S.R. 814 (Atlantic Blvd), S.R. 869 (SW 10th Street), and S.R. 820 (Hollywood/Pines Blvd), which includes three separate surveys. Assignments included both horizontal and vertical control needed for the various tasks, as well. The planning and adjusting of the GPS, the processing of EFB data and/or the adjusting of the level runs. Besides supervision, he processed the survey data, calculated the historic baseline of survey and existing right of way and created and modified Geopak TIN files.

FDOT District 4, Districtwide R/W Mapping: Mr Gray was the Project Surveyor for a Miscellaneous Right-of-Way Mapping Contract, providing Right-of-Way Maps, Control Surveys, and surveying services for projects including: SR-870/Commercial Boulevard (Broward County), SR-882/Forest Hill Boulevard (Palm Beach County), SR-818/Griffin Road (Broward County). Mr. Gray worked closely with the FDOT staff to provide mapping services for three complex projects along SR-A1A (Broward and Palm Beach) which required more comprehensive research than is customary.

- *Forest Hill Boulevard (S.R. 882), Wellington, FPID N/A (93016-2500):* Mr. Gray was the Project Surveyor on this Controls Survey and Genesis R/W Mapping Project which goes from S.R 7 to Military Trail for 5.8 miles. He was the signing surveyor of the R/W Control Survey. He planned and adjusted the GPS sessions and oversaw the technicians in processing the secondary traverses, processed all EFB data for the R/W Survey and performed calculations for the R/W Map and supervised the technicians who completed the final drafting.
- *Griffin Road Control Survey and Genesis Map (S.R 818), Dania Beach, FPID 413832-1:* Mr. Gray was the Project Surveyor on this Controls Survey and Genesis R/W Mapping Project which goes from S.R 7 to Federal Highway (S.R. 5) for 4.2 miles. He was the signing surveyor of the R/W Control Survey. He planned the GPS sessions and oversaw the technicians in processing of the primary and secondary survey data and performed calculations for the R/W Map, reviewed title searches for the length of the corridor and supervised the technicians who completed the final drafting. Section #86015-2525
- *S.R A-1-A Control Survey and Genesis Maps, Boca Raton and Deerfield Beach, FPID N/A (86015-2525 & 93060-2507):* Mr. Gray was the Project Surveyor on this Controls Survey and Genesis R/W Mapping Project which goes from Hillsboro Blvd in Broward County to Spanish River Boulevard in Palm Beach County for 5.2 miles. Two maps were prepared for this project. He was the signing surveyor of the R/W Control Surveys. He planned the GPS sessions and oversaw the technicians in processing of the primary and secondary survey data and performed calculations for the R/W Map, reviewed title searches for the length of the corridor and supervised the technicians who completed the final drafting. Sections #86050-1510, 86050-2510, 93060-1507, and 93060-2507
- *S.R A-1-A Genesis Maps, Palm Beach, FPID 229858-1-32-01*: Mr. Gray was the Project Surveyor on this Controls Survey and Genesis R/W Mapping Project which goes from Lake Avenue (S.R. 802) to Southern Boulevard (S.R. 80) in Palm Beach County for 4.31 miles. This project was taking the information from a previous design and right of way survey from a sub-consultant and creating a genesis right of way map. He was the signing surveyor of the R/W Control Survey. He performed calculations for the R/W Map and supervised the technicians who were doing calculations and drafting as well as reviewed title searches for the length of the corridor. Sections #93060-2525 and 93060-1525

FDOT District 4 Districtwide Miscellaneous Survey Services, FPID 229922-1-32-08, Broward County, FL: Mr. Gray was the survey technician for this five year contract. This districtwide contract had over 77 task work orders. The range of tasks included from simple parcel stake-outs to full design surveys. Some of the larger tasks included design surveys for Glades Road, Griffin Road, S.R. A1A, 17th St. Causeway and two slip ramps on I-595/I-75. In addition, one of the bigger tasks was to calculate the historic baseline of survey for I-75 from the information surveyed by the District's in-house crews. The contract also included finishing two right of way maps started by the District. Assignments included the planning and adjusting of the GPS, the processing of EFB data and the adjustment of the level runs. Also, tasks included basic calculations of parcels to be staked to full DTM's as well as, processing the EFB data, calculate historic baselines and existing right of way.

FDOT District 6 Districtwide Miscellaneous Survey and Mapping, FPID: 250686-1-32-16: Project Surveyor/Senior Survey Technician for District 6 Districtwide Miscellaneous Surveying and Mapping. Client: Scott Perkins, PSM.

ALBERTO T. ZUNIGA, P.E.
Project Engineer

LICENSURES
P.E.: 46196 (FL)

EDUCATION
B.S. Mining Engineering
Pontifical Catholic University of Peru, 1976

YEARS OF EXPERIENCE
Over 36 Years
4 Years with HSQ Group

KEY EXPERIENCE
Over 35 years of experience in design, roadways, and land development projects.
Experience in construction administration and project management.
Experience in permitting to SFWMD, Palm Beach County, Broward County, and FDOT

MEMBERSHIPS PAST & PRESENT
American Institute of Mining, Metallurgical, and Petroleum Engineers
American Society of Civil Engineers

OVERVIEW

More than thirty-six years of experience in Engineering, including twenty five years as Civil Engineer responsible for design, project administration, construction review and contract administration in the areas of Roadway, Land development, Facilities, Schools and Construction Services. Previous ten years experience as Mining Engineer in Peru, South America. Proficient design experience including grading, drainage, pump station, force mains, basin sizing, hydraulic and soil erosion control, flood plain modeling, earthwork calculations and drafting skills.
Significant experience in County and City projects as well as Construction Management developing proposals, tracking budgets and scheduling. Responsible for signing and sealing projects, preparation of construction documents including plans, specifications, and cost estimates for roadway design projects. Management a variety of projects including resurfacing, rural and urban widening, reconstruction, and interstate widening. Performance of QC review of roadway plan sets. Deep knowledge of the planning and zoning process, full knowledge of Jurisdictional Agency Permitting. Experience in international roadway design projects in Africa.

PROJECT EXPERIENCE

Palm Beach County-Wide Intersection Improvements
Palm Beach County, Florida

This is a county-wide intersection improvements project. Widening of existing roadway to add more lanes and to accommodate bike lanes are a major part of the intersection improvement. The scope of services varies from project to project. It includes modification of existing drainage systems, evaluation of existing pipes capacity, modification and design of swale systems, evaluation of receiving water bodies, i.e., flood routing analyses of existing lake systems that receive runoff from the roads, runoff spread calculations, utility conflict resolutions with proposed drainage pipes / inlets, interaction with FDOT D4 at state roadways intersecting with county roads, signing and pavement marking, signal design, prepare and process needed permits such as drainage connection permit, construction agreements, etc. Coordination and permitting needed from various municipalities and drainage districts in the county.

Sandalfoot Blvd / US 441 and SW 3 Street / US 441
Palm Beach County, Florida

Responsibilities include preparation for highway major intersection design and realignment, drainage design, signing and pavement marking, permitting from LWDD and FDOT.

Lyons Road; Lantana Road to Lake Worth Road
Palm Beach County, Florida

Preparing construction plans for 2 miles of a 4-lane divided roadway from Lantana Road to Lake Worth Road including signing and pavement marking plans for roadway and bike lanes, drainage design and permitting, and milling and resurfacing. Extensive involvement in the drainage design which included, pipe sizing analyses, exfiltration design and flood routing, control structures, culverts extension at Lake Worth Drainage Districts (LWDD) Canal L-13, permitting from SFWMD, Army Corp of Engineers and LWDD.

Lyons Road; Clint Moore to Atlantic Avenue
Palm Beach County, Florida

Responsibilities include preparation of construction plans for 4 miles of roadway from Clint Moore Road to Atlantic Avenue, including signing and pavement marking plans for roadway and bike lanes, drainage design and permitting, drainage design which included, pipe sizing analyses, exfiltration design, flood routing, control structures, preparation of dewatering plan, permitting from SFWMD, Army Corp of Engineers, FDOT and LWDD. Extensive coordination with developments along Lyons Road, i.e., G.L. Homes, commercial site located at the southeast corner of Lyons Road / Atlantic Avenue and coordination with FDOT for proposed widening to Atlantic Avenue.

SW 40th Avenue from Stirling Road to Griffin Road
FDOT District 4, Broward County, FL

The scope of work for this project is to improve mobility for pedestrians and bicyclist by widening the existing two lanes on both sides so that buffered bike lanes can be added, constructing sidewalks, and modifying signals. As a prime consultant, responsibilities include preparation of design documents, including QC/QA plan, scheduling, typical section packages, pavement design, in addition to conducting survey, plans production and permitting, and managing sub-consultant activities, i.e., CAP, SUE, and signal design. Prepare signing and pavement marking plans for buffered bike lane.

University Drive (Palmetto Park Road to Riverside Drive)
Broward County, Florida

Private contract two-lane road design which included ultimate drainage design and permitting for four-lane division. Responsibilities also included ROW acquisition, horizontal and vertical alignment design, signing and marking plans preparation.

SR-820 (Pines Boulevard) at I-75
FDOT District 4, Broward County, FL

Interchange improvements, median modifications and widening in the immediate vicinity of I-75, including landscape features and public involvement meetings, horizontal and vertical geometry, drainage improvements, cross sections, and signing and marking.

NW 154 Street; NW 89 Avenue to NW 87 Avenue
Miami-Dade County, Florida

Scope of work included intersection modification to add turn lanes, drainage design, permitting, roundabout design, and signal and pavement marking.

City of Doral Intersection Improvements
Miami-Dade County, Florida

The scope includes five intersection improvements including the addition of turn lanes, intersection modifications, drainage design, pipe sizing, exfiltration design, pavement runoff spread analyses, permitting, utility coordination, signal design, and coordination with city, county, and adjacent developments, and signing and pavement marking plans for roadway and buffered bike lanes.

SUSAN ZHANG, PE, ENV SP
Project Engineer

FL PE License: PE88281
30-hour Construction Safety and Health (Osha-30) Cert. No.: 34-602025809
Envision Sustainability Professional Cert. No.: 23735

Years of Experience
3 Years
Boca Raton-Office

Education
Master of Science in Environmental Engineering
Bachelor of Science in Water Supply and Drainage Engineering

Memberships
American Society of Civil Engineers, Asian American Architects/Engineers Association, California Water Environmental Association, American Water Works Association, Wanter Environmental Federation

OVERVIEW

Susan is a highly motivated and skilled California licensed Professional Civil Engineer with 3 years of experience. Experienced in utilities, drainage design and construction project engineering. Susan has an in-depth understanding of AutoCAD and MicroStation applications and technical specifications.

PROJECT EXPERIENCE
HSQ GROUP INC.

Lyons Road from Lantana to Lake Worth Road
Palm Beach County, Florida

Responsible for preparing the construction plans for 2 miles of a 4 lane divided roadway from Lantana Road to Lake Worth Road including bridge plans, signal plans, drainage design and permitting, and milling and resurfacing. Extensive involvement in the drainage design which included, pond sitting report, pipe sizing analyses, exfiltration design, flood routing and pond design, control structures, culverts extension at Lake Worth Drainage Districts (LWDD) canals, and permitting from SFWMD, Army Corp of Engineers and LWDD

Lyons Road from South of LWDD L-11 Canal to North of LWDD L-10 Canal
Palm Beach County, Florida

Design and permitting for 1 mile of a 3 lane roadway, preparation of construction plans, permitting, milling and resurfacing flood routing and pipe sizing analyses, design of canal crossing by providing 72” RCP to bridge the Lake Worth Drainage District L-14 Canal. Scope also included preparation of the pond siting report, swales /underground dual parallel pipe system and dry retention areas.

SW 40th Avenue from Stirling Road to Griffin Road
Florida Department of Transportation D4

The scope of work for this project is to improve mobility for pedestrians and bicyclist by widening the existing two lanes on both sides so that buffered bike lanes can be added, constructing sidewalks, and modifying signals. As a prime consultant, responsibilities include preparation of design documents, including QC/QA plan, scheduling, typical section packages, pavement design, in addition to conducting survey, plans production and permitting, and managing sub-consultant activities, i.e., CAP, SUE, signal design, structural analyses, etc.

Lyons Road from Clint Moore Road to Atlantic Avenue
Palm Beach County, Florida

Responsible for preparing the construction plans for 2 miles of a 4 lane divided roadway from Lantana to Lake Worth Road including bridge plans, signal plans, signing and pavement marking plans including bike lanes, drainage design and permitting, drainage design which included, pip sizing analyses, exfiltration design, flood routing, control structures, preparation of dewatering plan, permitting from SFWMD, Army Corp of Engineers, FDOT and LWDD. Extensive coordination with developments along Lyon Road, i.e., G.L. Homes, commercial site located at the southeast corner of Lyons Road / Atlantic Avenue and coordination with FDOT for proposed widening to Atlantic Avenue.

Palm Beach County Countywide Intersection Improvements Annual Services
Palm Beach County, Florida

This is a countywide intersection improvement projects. The scope of services varies with each site. Drainage and permitting are always major components of the scope of services. It includes modification of existing drainage systems, evaluation of existing pipes capacity, modification and design of swale systems, evaluation of receiving water bodies, i.e. flood routing analyses of existing lake systems that receive runoff from the roads, runoff spread calculations, utility conflict resolutions with proposed drainage pipes / inlets, interaction with FDOT D4 at all state roadways intersecting county roads, prepare and process needed permits such as drainage connection permit, construction agreements, etc. Coordination and permitting from various municipalities and drainage districts in the county.

NW 154th Street; NW 89th Avenue to NW 87th Avenue
Miami-Dade County, Florida

Responsible for roadway widening to accommodate additional lanes and bike lanes, roundabout design, permitting and construction administration.

Metropolitan Planning Organization Tiger Grant
Florida Department of Transportation D4

Major sub-consultant for this 10.3 miles 6 segments of roadways in Broward County. Responsibilities included evaluation the impact of adding bike lanes on both sides of the existing roadways on drainage, landscaping, utilities, signals at intersections, and coordination with permitting agencies and the county.

SW 40th Avenue from Stirling Road to Griffin Road
Florida Department of Transportation D4

The scope of work for this project is to improve mobility for pedestrians and bicyclist by widening the existing two lanes on both sides so that buffered bike lanes can be added, constructing sidewalks, and modifying signals. As a prime consultant, responsibilities include preparation of design documents, including QC/QA plan, scheduling, typical section packages, pavement design, in addition to conducting survey, plans production and permitting, and managing sub-consultant activities, i.e., CAP, SUE, signal design, structural analyses, etc.

THOMAS A. ENGLISH, PSM, PLS

Project Manager

PSM, Florida No: LS 6930

Key Qualifications

Experience as a Survey Project Manager for FDOT projects.
Knowledge and experience in R/W, utility locating and GIS mapping.
Holds an FAA Remote Pilot Certification to fly unmanned aerial vehicles (UAVs).

Years of Experience

39 Years

Education

Civil Technology
Middlesex County College, NJ

Publications & Memberships

"Photogrammetry and Topographic Mapping" Land Development Handbook, pub. By McGraw Hill
"We Must Evolve" Point of Beginning 02/15
FL Surveying and Mapping Society
National Society of Professional Land Surveyors

OVERVIEW

Tom's background includes work for various state Departments of Transportation, including Florida, New Jersey, New York, Louisiana, and Pennsylvania. He is proficient with various types of surveys (ALTA, title, topographic, and boundary). He is also well versed in commercial/civil land planning and design, residential subdivision and transportation route analysis, geodetic control, construction stakeout and as-built survey, including survey computations, record research, property line resolution, and right-of-way investigation, GNSS (GPS), railroad survey, and laser scanning.

PROJECT EXPERIENCE

WIDEN TURNPIKE FROM ATLANTIC AVE. TO BOYNTON BEACH BLVD. (MP 82.4 TO 87.3)

Florida Turnpike, Palm Beach County, Florida

Provided secondary control, aerial and mobile mapping targeting, topographic/DTM surveys of off pavement areas and ponds, drainage and canal surveys, geotechnical boring locations, and underground utility locations for the 6 mile widening of the Florida Turnpike to 10 lanes. Required the coordination of multiple crews from multiple offices, as well as coordination with other survey companies and the aerial/mobile mapping sub-consultant. All information gathered was delivered to the aerial/mobile mapping sub-consultant in FDOT SS4 format for incorporation into the aerial and mobile mapping data.

SR5/OKEECHOBEE ROAD AT W. 16TH AVENUE

FDOT District 6, Miami-Dade County, Florida

Conducted survey and established existing right-of-way lines for the project in Miami-Dade County. The project included topographic/DTM surveys of pavement areas, drainage surveys, and acquiring information for the establishment of right-of-way. Also prepared the Project Network Control (PNC) sheet.

I-95 AT LINTON BOULEVARD

FDOT District 4, Palm Beach County, Florida

Completed the design survey and establishment of the existing right-of-way lines for the 3-mile-long project in Palm Beach County. The project included topographic/DTM surveys of pavement and off pavement areas, drainage surveys, and acquisition of information for the establishment of

right-of-way. The project also required underground utility designation and survey of designated utilities as marked. The data acquired was merged with aerial mapping data prepared by others. Tom also prepared the Project Network Control (PNC) sheet.

SR 60 TURKEY CREEK ROAD TO SR 39 FPID: 435750-2-32-01

FDOT District 7, Hillsborough County, Florida

Completed design survey and mapping, secondary control, mobile mapping targeting, topographic/DTM Surveys of off pavement areas, and drainage and pond surveys for this 6 mile long widening project. This project required the coordination of multiple crews and coordination with the mobile mapping sub-consultant. All information gathered was delivered to the mobile mapping sub-consultant in FDOT SS4 format for incorporation with the mobile mapping data.

SR 60/I-275 INTERCHANGE – LINKS IV PROJECT

FDOT District 7, Hillsborough County, Florida
Completed primary and secondary control, mobile mapping targeting and LIDAR survey, topographic/DTM surveys of off pavement areas, drainage and pond surveys, and laser scanning extraction for the SR-60/I-275 intersection reconstruction.

STRUCTURAL ANNUAL SERVICES

Palm Beach County, Florida

The scope of services includes design support to the prime consultants such as miscellaneous roadway design, drainage design, permitting, utility coordination, signing and pavement marking and surveying services. The nature of work varies from preparing studies to design / replacement / widening of existing bridges and culverts.

LYONS RD. FROM CLINT MOORE ROAD TO ATLANTIC AVENUE

Palm Beach County, Florida

This project consisted of surveying nearly four miles within the Lyons Road Right of Way from south of Clint Moore Road to north of Atlantic Avenue for roadway widening design. The survey scope included title search review, right-of-way and plat research, establishment of baselines and NAD state plane horizontal and vertical control, preparation of 3D models, along with field crew supervision and direction for the locations of the existing improvements within the right of way.

INTERSECTION IMPROVEMENTS ANNUAL SERVICES

Palm Beach County, Florida

This project is for surveying of county-wide intersections for improvements design. The survey scope included right-of-way and plat research, establishment of horizontal and vertical control, and locations of the existing improvements within and adjacent to the right of ways.

Christie Hurley

Environmental Science & Permitting

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Coastal & Marine Engineering

YEARS OF EXPERIENCE

- 17

EDUCATION

- M.Sc. Biology, Florida Atlantic University
- B.A. Anthropology, Minor in Ecology & Evolutionary Biology, University of Arizona

CERTIFICATIONS

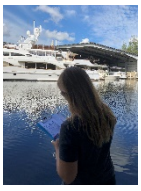
- DAN (First Aid, CPR, AED, & Oxygen)
- Florida Master Naturalist
- NMFS/MMS Marine Mammal/Protected Species Observer
- NITROX
- US Power Squadron Piloting
- US Power Squadron Safe Boat Operation
- PADI Rescue Diver
- PADI Advanced Diver
- PADI Open Water Diver

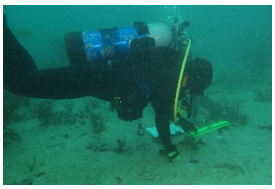
PROFESSIONAL AFFILIATIONS

- America Academy of Underwater Sciences (AAUS) – Individual Member
- South Florida Association of Environmental Professionals (SFAEP)
- Treasure Coast Chapter Florida Association of Environmental Professionals (TCCFAEP)
- South East Florida Coral Reef Initiative (SEFCRI)

SKILLS & EXPERTISE

- ✓ Environmental Permitting and Compliance
- ✓ Sovereign Submerged Lands and Easement Permitting
- ✓ Biological Assessments and Marine Resource Mapping
- ✓ Environmental Impact Assessment and Minimization Analysis
- ✓ Mitigation Assessment, Planning and Monitoring
- ✓ Grant Funding Assistance and Compliance




RELEVANT EXPERIENCE

Christie Hurley is Project Manager and Marine Biologist with over 17 years of experience in the fields of environmental monitoring, assessment, planning, reporting, as well as federal, state, and local regulatory permitting, permit compliance, and closeout to support the firms' commitment to sustainability on all Cummins Cederberg projects.

She is responsible for managing projects including, dredge and fill projects, international, municipal and private marinas, municipal beach nourishment and coastal structure projects, shoreline protection projects, and mooring field projects. She is well versed in grant research and funding applications, due diligence/feasibility studies, environmental resource surveys including seagrass, hardbottom/reef and coral monitoring and mapping, preparation of management plans, contingency mitigation plans, and resource monitoring plans.

Fisher Island Sand Tightening Project, *Miami-Dade County, Florida*. Completed a seagrass/hardbottom mapping and coral survey/report in support of the upcoming sand tightening project. The Main Beach and Club Beach terminal groins along the eastern portion of Fisher Island are permeable, allowing sand to escape the beach and is affecting beach performance and causing shoaling in the adjacent marina. Held pre-application meetings and prepared permit applications through Miami-Dade County DERM, the FDEP, and the Corps to authorize construction activities. Additionally, had discussions with FWC regarding securing a Special Activity License for relocating corals and have negotiated no relocation mitigation to be necessary. Currently working processing permits. (*Fisher Island Community Association 2018 – Ongoing) Reference: Nick Azar; 305-968-1688; nazar@fisherislandfica.com*

Miami Harbor Phase III Federal Channel Expansion Project *Miami, Florida.* Project Manager responsible for overseeing, budgeting, scheduling, supervising staff, data collection, and report preparation for five separate marine resource surveys including coral health, coral transplantation survivorship, *Acropora cervicornis* monitoring, artificial reef and 5 years of seagrass monitoring projects over 8 acres in conjunction with the Project. (Miami Harbor 2012-2018). *Reference: Becky Hope; 305-347-4972; bhope@miamidade.gov*

Christie Hurley
Environmental Science & Permitting

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The Bay Public Waterfront Project, *Sarasota, Florida.* The Bay is an environmental, resilient revitalization of the public waterfront in downtown Sarasota. Conducted a large-scale marine resource assessment of 43 acres of submerged lands within Sarasota Bay in 2018, as well as a follow up refined marine resource survey of the Phase I Project area in 2019 based on the revised conceptual designs for the Project. The 2018 marine resource investigation included 43 acres of the submerged lands along Sarasota Bayfront offshore of Centennial Park and the Van Wezel Properties. The survey involved monitoring of 20 transects (200 to 300 ft long), as well as three additional areas of investigation which confirmed the presence and density of three seagrass species (*Thalassia testudinum, Syringodium filiforme,* and *Halodule wrightii*), as well as the location, dimensions and health of stony corals. The 2019 survey included a marine resource investigation of the submerged lands along Sarasota Bayfront offshore of the Van Wezel Property in support of environmental permitting of Phase I of the Project. The survey involved monitoring of nine transects (approximately 300 ft long), as well as two additional areas of investigation which confirmed the presence, density and seagrass edge of the mouth of the mangrove creek and within the riprap beach area south of the mangrove creek. The survey confirmed the presence and density of four species of seagrass (*Thalassia testudinum, Syringodium filiforme, Halodule decipiens* and *Halodule wrightii*), as well as the location, dimensions and health of stony and soft corals. Additionally, directed a mangrove and exotic vegetation mapping survey and researched and prioritized applicable grants to fund the proposed Project. Presented the results of these surveys to the Corps, FDEP, and SWFWMD during pre-application meetings and solicited feedback. Once permit drawings are ready, will prepare and process environmental permit applications for State and Federal permits for Phase I. (The Bay Park Conservancy – 2018 – ongoing). *Reference: Bill Waddill; 941-266-1717; Bill.waddill@sbpo.org*

Village of Key Biscayne Beach Renourishment Project, *Key Biscayne, Florida.* Provided Project management, planning, and permitting services, as well as conducted biological surveys for the Village of Key Biscayne related to beach renourishment of 1.1 miles of beach. Conducted resource assessments of the proposed offshore borrow areas, nearshore seagrass edge mapping to facilitate project design, and permitting. Prepared a Project specific Biological Monitoring Plan for agency approval prior to commencement of construction. Conducted Braun Blanquet monitoring along twenty-seven 35-meter-long transects to establish a baseline for evaluation of any unanticipated project related impacts. Prepared Field Observation Reports documenting the findings of the borrow area surveys, nearshore seagrass edge surveys, and Braun Blanquet monitoring data, and three years of shorebird monitoring with report submittal to the environmental regulatory agencies. Prepared annual FDEP Local Government Funding Requests each year and coordinated awarded grant funding with FDEP.

Flagstone Island Gardens, Megayacht Marina Project, *Miami-Dade County, Florida.* Conducted an in-water assessment of all biological resources located within two large dredge holes. The dredge holes were filled by clean dredge spoil material as part of the dredging design and environmental mitigation for the 50-slip mega-yacht harbor, accommodating vessels up to 450 feet long. Utilized a Trimble AgGPS Differential Global Positioning System (DGPS) to very accurately map the location of existing marine resources to ensure that no adverse impacts will be suffered by the placement of fill. Also evaluated the donor seagrass areas for the project, noting seagrass species composition, density, and suitability for transplantation onto the clean dredge spoil.

Currie Park Staging Docks Project, *West Palm Beach, Florida.* Project Manager responsible for the permitting of an Environmental Resource Permit, Corps Individual Permit, U.S Coast Guard PATON Permit, and FWC Uniform Waterway Marker Permit for the staging docks, dredging and channel markers adjacent to Currie Park in West Palm Beach, Florida. Also conducted the marine resource survey and seagrass mapping for the planning and design of the Project.

Collier County Beach Renourishment Project 2003 and 2006 / Doctors Pass Maintenance Dredging, *Collier County, Florida.* Three years of experience working in Collier County as a Principal Investigator for environmental permitting and seagrass monitoring for the Doctors Pass Inlet Maintenance Dredging Project and as a project scientist for the Collier County Beach Nourishment Project, Collier County, FL (2004-2006). Conducted nearshore hardbottom edge mapping, biological monitoring using BEAMR methodology on nearshore transects, a resource investigation along the nearshore spoil, a seagrass survey along the shoal at Doctors Pass Inlet and assisted with data analysis and report preparation of the Marine Resource Investigation Report for the North Collier County, FL Beach Renourishment Project.

Collins Canal Dredging Project, *Miami-Dade County, Florida.* Conducted a seagrass survey using random sample analysis along 7,000 linear feet of Collins Canal, south end of Lake Pancoast and 300 linear feet of Indian Creek in 2004.

Jannek Cederberg, PE

Principal, Senior Coastal Engineer

CUMMINS | CEDERBERG
Coastal & Marine Engineering

YEARS OF EXPERIENCE

- 20

EDUCATION

- M.S. Coastal Engineering, Technical University of Denmark

LICENSES

- Florida PE No. 69839

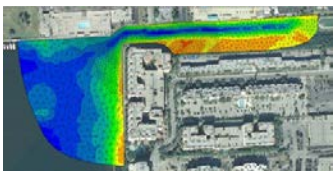
PROFESSIONAL AFFILIATIONS

- Permanent International Association of Navigation Congress
- Member of PIANC Working group
- Design and Operational Guidelines for “Superyacht Facilities”
- Danish Society of Hydraulic Engineering
- Port Everglades Association
- Florida Association of Environmental Professionals
- Environmental and Land Use Law Section of the Florida Bar

SKILLS & EXPERTISE

- ✓ Waterfront Engineering and Planning
- ✓ Coastal Resiliency
- ✓ Numerical Modeling
- ✓ Environmental Permitting
- ✓ Coastal and Marine Structures
- ✓ Coastal Processes - Waves, Currents, Sediment Transport and Hurricanes



RELEVANT EXPERIENCE

As Principal Engineer, Jannek Cederberg is responsible for all engineering production including scheduling, resource allocation, and quality management. He is formally trained as a coastal and marine engineer from the Technical University of Denmark. He has more than fifteen years of experience in coastal and marine engineering. Jannek is a registered professional Engineer in the United States and he has completed engineering analyses, designs and permitting for a variety of shore protection, beach nourishment, river, cruise ship, marina and waterfront projects throughout Florida, the Caribbean and Central America.

Fisher Island Slip Widening Project, *Miami, Florida.* Dredge and scour protection design for slip widening. Evaluated required dredge elevation based on proposed commercial ferry required under-keel clearance and hardbottom location. Evaluated the scour resulting from the proposed commercial ferry at the slip and determined the protection scheme to prevent scour from the vessel to occur within the slip. Seabed velocities were determined from the proposed ferry’s characteristics and the required scour protection (rock diameter, weight, layers, etc.) was determined at the slip *(Fisher Island Community Association, Nov. 2016 – January 2020). Reference: Michael Posey; 786-475-2065; mposey@fisherislandfica.com*

Lake Worth Inlet Flood Shoal Dredging, *Palm Beach County, Florida.* Performed the coastal engineering analysis and dredge design for the Lake Worth Lagoon Flood Shoal Dredging Project. The coastal engineering analysis included the numerical model of the tidal hydrodynamics at the project site and the modeling of the sediment transport patterns following the dredging of the project. Conducted an analysis of the potential impacts to the local marine resources during dredging operations and developed construction methodologies to prevent impacts to the marine resources *(Marine Industries Association of Palm Beach County, Inc., April 2019 – Ongoing). Reference: Eric Anderson; 561-233-2514; EAnderson1@pbcgov.org*

Dolphin Marina Restoration Dredge Project, *Little Torch Key, Monroe County, Florida.* Prepared a dredging design for the Dolphin Marina in Little Torch Key. The dredge design included the proposed dredge elevations based on sediment

Jannek Cederberg, PE
Principal, Senior Coastal Engineer

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probes conducted at the project site. The construction methodology and material handling procedures were established as part of the required dredging narrative for the permit applications. The dredge footprint was delineated to avoid impacts to existing seagrasses. The quantity of dredging material was estimated using the existing bathymetry and the proposed dredging design template (*Little Palm Dolphin Resort Development, LLC, February 2018 – March 2018). Reference: Everett Atwell; 863-607-9496; ironwoodvg@tampabay.rr.com*

Pelican Harbor Marina Dock D Maintenance Dredging Project, *Miami-Dade County, Florida.* Prepared a dredging design for maintenance dredging of the marina basin at the Pelican Harbor Marina in Miami-Dade County. As part of the dredge design sediment probes were conducted to identify the location of the limestone layer and the thickness of the silt layer. Based on bathymetric surveys conducted at the site, the design dredge template was developed for the proposed area adjacent to Dock “D” at the site. quantities of dredge materials were estimated using a 3-D surface model based on the design dredge template and the bathymetric survey.

Sea Breeze Resort Maintenance Dredging, *Islamorada, Florida.* Prepared a maintenance dredging design for the Seabreeze Resort in Islamorada. Conducted sediment probes as part of the data collection portion for the dredging design. The sediment probes identified the thickness of the silt layer and the location of the hardbottom. Based on the sediment probes and bathymetric survey information, a dredge template was established, and the dredging amount quantified.

Little Palm Island Restoration Dredge Project, *Munson Island, Monroe County, Florida.* Prepared a dredging design for the Little Palm Island Marina in Munson Island. The dredge design included the proposed dredge cross-sections based on data collected from bathymetric surveys at the project site. The developed dredge cross-sections included the cubic yards per linear foot of dredge for each cross-section and the delineation of the hardbottom.

1097 Hillsboro Mile Maintenance Dredging Project, *Hillsboro Beach, Florida.* Prepared a dredging design for maintenance dredging of a private residence in Hillsboro Beach. The material to be dredged was in front of an existing sheet pile retaining wall, and thus the design needed to consider potential stability issues based on the sheet pile characteristics and removed material. Dredge cross-sections were developed based on the stability requirements for the sheet pile wall and vessel under-keel clearance requirements. Quantities of dredge materials were estimated using a 3-D surface model based the bathymetric site and dredge cross-sections.

Ocean Breeze Community Maintenance Dredging, *Marathon, Florida.* Prepared a maintenance dredging design for the Ocean Breeze Community in Islamorada that faced significant damage from Hurricane Irma and was in need of repair. Conducted sediment probes as part of the data collection portion for the dredging design. The sediment probes identified the thickness of the silt layer and the location of the hardbottom. Based on the sediment probes and bathymetric survey information, a dredge template was established, and the dredging amount quantified.

Town of Bay Harbor Islands Resiliency and Seawall Condition Assessment, *Bay Harbor Islands, Florida.* Shoreline assessment and island resiliency study for the entire Town of Bay Harbor Islands. The shoreline assessment included 20,000 feet of shoreline, including seawalls, rock revetment, residential areas, bridges, and the causeway that connects the town to the mainland. LiDAR survey data was processed to provide 3D elevation map, and an analysis of the water levels to predict sea level rise, along with tidal data analysis.

Costa Brava Marina, *Miami Beach, Florida.* Environmental permitting for reconstruction of a 30-slip marina in Biscayne Bay through local, State, and Federal Agencies such as Miami-Dade County DERM, FDEP, and USACE. Engineering support through construction bid process, including bid evaluation, contractor selection and construction administration.

Dade Boulevard/Collins Canal Shoreline Stabilization & Seawall Replacement, *Miami Beach, Florida.* Marine engineering and construction drawings for 2,670 LF of shoreline stabilization associated with a linear park and bike path. Structural design of steel sheet pile and reinforced concrete cap, including barrier wall connection, and utility crossover detail for FPL 69KV oil-filled transmission line.

Jason R. Cummins, PE

Principal Engineer, Marine Structural Engineer

CUMMINS | CEDERBERG
Coastal & Marine Engineering

YEARS OF EXPERIENCE

- 15

EDUCATION

- MSc Coastal and Oceanographic Engineering, University of Florida
- BSc Civil Engineering, University of Florida

LICENSES

- Florida PE No. 71538

CERTIFICATIONS

- Certified Diver
- FHWA A-NHI 130091 Underwater Bridge Inspection – National Highway Institute and Association of Diving Contractors

PROFESSIONAL AFFILIATIONS

- Urban Land Institute (ULI) SE Florida/Caribbean, Member
- American Society of Civil Engineers, ASCE
- American Institute of Architects
- South Florida Association of Environmental Professionals

SKILLS & EXPERTISE

- ✓ Planning and Feasibility of Marine Infrastructure Projects
- ✓ Underwater Investigations (SCUBA)
- ✓ Coastal Design Criteria - Tides, Waves, Currents and Hurricanes
- ✓ Structural Design of Steel and Concrete Marine Structures
- ✓ Bathymetric Surveying




RELEVANT EXPERIENCE

Jason Cummins is a Coastal Engineer with significant experience in inspections, planning, engineering, regulatory permitting and construction of coastal and waterfront development and infrastructure projects in Florida, Caribbean and Latin America. He is a registered Professional Engineer in the U.S., capable of designing marine facilities, shoreline stabilization and coastal structures. He is proficient in the application of numerical models, including the Danish Hydraulics Institute (DHI) MIKE-21 suite of numerical modeling tools, structural analysis tools and Federal State and Local design codes. In addition to his professional achievements, Jason presently serves on the non-profit Board for Bill Baggs Cape Florida State Park.

Concrete Dock Repairs at Sunset Harbour Yacht Club, *Miami Beach, Florida.* Repairs of concrete slabs, caps, and piles for a 125-slip yacht marina. Environmental permit applications were prepared and processed with the Miami-Dade County DERM, FDEP, and USACE. Detailed repair drawings were prepared with specific criteria to minimize impacts to adjacent structures, including the removal and replacement of severely deteriorated deck slabs. Construction administration services were provided to review in accordance with construction documents and environmental permits. In addition, ongoing engineering support services have been provided for various projects since 2013. *(Sunset Harbour Yacht Club, 2012 – Ongoing). Reference: Doug Mason; 305-398-6800; dmason@sunsetharbouryc.com*

Dade Boulevard/Collins Canal Shoreline Stabilization & Seawall Replacement, *Miami Beach, Florida.* Marine engineering and construction drawings for 2,670 LF of shoreline stabilization associated with a linear park and bike path. Structural design of steel sheet pile and reinforced concrete cap, including barrier wall connection, and utility crossover detail for FPL 69KV oil-filled transmission line *(Harbour Construction, 2011 – 2013). Reference: Guy Lessor; 305-603-9944; gl@harbourconstruction.com*

Seahaven Superyacht Marina, *Dania Beach, Florida.* Engineer of Record for new marina design and construction administration services for approximately 1,200 feet of new bulkhead for a deep-water yacht basin located in the Dania Cut-Off Canal. Part of the canal was excavated to create a new marina basin connected to the canal for this 40-slip superyacht marina. Bulkhead consists of steel sheet piling with concrete batter piles and reinforced concrete capping beams. Design criteria for a floating dock was also prepared including anticipate

Jason R. Cummins, PE
Principal Engineer, Marine Structural

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Coastal & Marine Engineering

mooring loads. *(Seven Kings Holdings, Inc., December 2017 – November 2019)*. *Reference: Ken Blair; 561-625-9443; Ken@SKHOLDINGS.com*

Bentley Bay Marina, *Miami, Florida.* Cummins Cederberg designed a new marina utilizing concrete piles, cap and beams with grated decking, as required to allow for adequate light penetration to reach the submerged bottom supporting seagrass habitat. Design services also included material selection and coordination of utilities.

Costa Brava Marina, *Miami Beach, Florida.* Environmental permitting for reconstruction of a 30-slip marina in Biscayne Bay through local, State, and Federal Agencies such as Miami-Dade County DERM, FDEP, and USACE. Engineering support through construction bid process, including bid evaluation, contractor selection and construction administration.

Fisher Island Slip Widening Project, *Miami, Florida.* Dredge and scour protection design for slip widening. Evaluated required dredge elevation based on proposed commercial ferry required under-keel clearance and hardbottom location. Evaluated the scour resulting from the proposed commercial ferry at the slip and determined the protection scheme to prevent scour from the vessel to occur within the slip. Seabed velocities were determined from the proposed ferry's characteristics and the required scour protection (rock diameter, weight, layers, etc.) was determined at the slip**.**

Lake Worth Inlet Flood Shoal Dredging, *Palm Beach County, Florida.* Performed the coastal engineering analysis and dredge design for the Lake Worth Lagoon Flood Shoal Dredging Project. The coastal engineering analysis included the numerical model of the tidal hydrodynamics at the project site and the modeling of the sediment transport patterns following the dredging of the project. Conducted an analysis of the potential impacts to the local marine resources during dredging operations and developed construction methodologies to prevent impacts to the marine resources

Pelican Harbor Marina Dock D Maintenance Dredging Project, *Miami-Dade County, Florida.* Prepared a dredging design for maintenance dredging of the marina basin at the Pelican Harbor Marina in Miami-Dade County. As part of the dredge design sediment probes were conducted to identify the location of the limestone layer and the thickness of the silt layer. Based on bathymetric surveys conducted at the site, the design dredge template was developed for the proposed area adjacent to Dock "D" at the site. quantities of dredge materials were estimated using a 3-D surface model based on the design dredge template and the bathymetric survey.

Sea Breeze Resort Maintenance Dredging, *Islamorada, Florida.* Prepared a maintenance dredging design for the Seabreeze Resort in Islamorada. Conducted sediment probes as part of the data collection portion for the dredging design. The sediment probes identified the thickness of the silt layer and the location of the hardbottom. Based on the sediment probes and bathymetric survey information, a dredge template was established, and the dredging amount quantified.

Little Palm Island Restoration Dredge Project, *Munson Island, Monroe County, Florida.* Prepared a dredging design for the Little Palm Island Marina in Munson Island. The dredge design included the proposed dredge cross-sections based on data collected from bathymetric surveys at the project site. The developed dredge cross-sections included the cubic yards per linear foot of dredge for each cross-section and the delineation of the hardbottom.

1097 Hillsboro Mile Maintenance Dredging Project, *Hillsboro Beach, Florida.* Prepared a dredging design for maintenance dredging of a private residence in Hillsboro Beach. The material to be dredged was in front of an existing sheet pile retaining wall, and thus the design needed to consider potential stability issues based on the sheet pile characteristics and removed material. Dredge cross-sections were developed based on the stability requirements for the sheet pile wall and vessel under-keel clearance requirements. Quantities of dredge materials were estimated using a 3-D surface model based the bathymetric site and dredge cross-sections.

Ocean Breeze Community Maintenance Dredging, *Marathon, Florida.* Prepared a maintenance dredging design for the Ocean Breeze Community in Islamorada that faced significant damage from Hurricane Irma and was in need of repair. Conducted sediment probes as part of the data collection portion for the dredging design. The sediment probes identified the thickness of the silt layer and the location of the hardbottom. Based on the sediment probes and bathymetric survey information, a dredge template was established, and the dredging amount quantified.

Jason Taylor, PE

Senior Marine Structural Engineer

CUMMINS | CEDERBERG
Coastal & Marine Engineering

YEARS OF EXPERIENCE

- 22

EDUCATION

- M.Sc. Structural Engineering, Stanford University
- B.Sc. Civil Engineering, Stanford University

CERTIFICATIONS

- Florida PE No. 60277
- Special Inspector
- Certified Diver
- Advanced open water scuba

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Concrete Institute

SKILLS & EXPERTISE

- ✓ Above and below water inspections
- ✓ Bulkhead and seawall design
- ✓ Fixed and floating marina design
- ✓ Vessel mooring/berthing analysis
- ✓ Construction administration and inspections
- ✓ New construction, repairs, retrofits and forensic analysis




RELEVANT EXPERIENCE

As a Senior Project Engineer, Jason is responsible for the structural inspection, design and construction administration for marine structural engineering projects. He holds a master's degree in Structural Engineering from Stanford University and has twenty-two years of experience as a structural engineer with a focus on coastal and marine structures. Jason has completed marine structure projects in the US and the Bahamas, including ports, fender systems, mooring dolphins, bulkheads, seawalls, docks and piers. Jason is also a certified diver and leads the underwater structural inspection team.

Seahaven Superyacht Marina, *Dania Beach, Florida.* Marina design and construction administration services for approximately 1,200 feet of new bulkhead for a deep-water yacht basin located in the Dania Cut-Off Canal. Part of the canal was excavated to create a new marina basin connected to the canal for this 40-slip superyacht marina. Bulkhead consists of steel sheet piling with concrete batter piles and reinforced concrete capping beams. Design criteria for a floating dock was also prepared including anticipate mooring loads. Construction administration services included review of contractor payment, site observations with reports, pile driving logs, materials testing, final inspection, environmental permit close out services, and underwater inspections. *(Seven Kings Holdings, Inc., December 2017 – November 2019). Reference: Ken Blair; 561-625-9443; Ken@SKHOLDINGS.com*

Ocean Breeze RV Park, *Marathon, Florida.* Structural design of steel sheet pile bulkhead and timber dock structures to replace existing structures which experienced damaging impacts of Hurricane Irma in 2017. *(Sun Communities, October 2017 – May 2020). Reference: Brad Pinover; 248-327-8109; BPinover@suncommunities.com*

Sea Breeze RV Park, *Islamorada, Florida.* Project consisted of engineering design of marina basin and channel dredging, and structural design of bulkheads, shoreline stabilization and marina components that experienced damaging impacts of Hurricane Irma in 2017. Responsible for structural design of steel sheet pile bulkheads, and timber dock structures for the associated marina basins. *(Sun Communities, September 2017 – June 2020). Reference: Brad Pinover; 248-327-8109; BPinover@suncommunities.com*

Jason Taylor, PE

Senior Marine Structural Engineer

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Bay Harbor Islands, *Miami, Florida.* Above and underwater inspection and condition assessment of approximately 20,000 feet of seawall, rock revetment and dock structures along the three Bay Harbor Islands. The focus of the inspection was to identify cracks, spalling, corrosion, deterioration, damage and/or displacement as well as excessive undermining or sediment transport along the toe of seawalls. The planning of the project includes analysis of the inspection findings to determine rehabilitation and/or replacement of the existing structures with respect to age, condition, and sea level rise resiliency. *(Chen Moore & Associates, February 2018 – October 2019). Reference: Gregory Mendez; Gmendez@chenmoore.com.*

Sunset Harbour Yacht Club, *Miami Beach, Florida.* Repairs of concrete slabs, caps and piles for 125 slip yacht marinas. Environmental permit applications were prepared and processed with the Miami Dade County Regulatory and Economical Resources Department, Florida Department of Environmental Protection and US Army Corps of Engineers. Detailed repair drawings were prepared with specific criteria to minimize impacts to adjacent structures, including the removal and replacement of severely deteriorated deck slabs. Construction administration services were provided to review in accordance with construction documents and environmental permits.

Costa Brava Marina, *Miami Beach, Florida.* Costa Brava Condominium Association. Engineering support through construction bid management process, including bid evaluation, contractor selection and construction administration. Construction administration services included special inspector, review of change orders, review of contractor submittals, payment applications and material specifications. Coordinated with the contractor to keep the project on budget and schedule. Specifically, following construction initiation access to the Island was restricted due to an unexpected weight restriction on nearby bridges following unrelated damage. To resolve this, Cummins Cederberg coordinated with the City as well as the concrete supplier and obtained special permits specifically for the concrete trucks.

Bentley Bay Marina, *Miami, Florida.* Cummins Cederberg designed a new marina utilizing concrete piles, cap and beams with grated decking, as required to allow for adequate light penetration to reach the submerged bottom supporting seagrass habitat. Design services also included material selection and coordination of utilities. Jason performed construction administration including bidding, inspections, field reports and permit close-out.

North Bulkhead Repair, Port of Miami, *Miami, Florida.* Design of underwater repairs for steel sheet pile bulkhead. Repairs included welded steel cover plates,cement bag armoring and installation of jet filters.

Bimini Bay Ferry Terminal, *Bimini Islands, The Bahamas.* Design of 30'W x 1,600 LF access pier for new cruise terminal. Precast concrete planks, caps and steel pipe piling supporting truck traffic. Concrete topping slab pavement. Steel sheet pile abutment at island.

Port Everglades Ship Unloader Upgrade, *Fort Lauderdale, Florida.* Marine engineering and structural analyses of existing unloader foundation for gravity loads from various machines for a new unloader which required retrofit or replacement of the existing substructure at the unloader fairway. The analyses focused on a proposed retrofit and a preliminary design was conducted as a feasibility study with modifications to the wharf structure that need to be made to support its operation at the Port Everglades facility.

Universal Marine Center, *Fort Lauderdale, Florida.* Component design and inspection for yachting facility on the South Fork of the New River. Structural design plans and construction administration for new steel sheet pile bulkhead with concrete batter piles, steel pipe mooring piles for floating docks, timber dolphin clusters. 125' LOA design vessel. Following the design, Jason served as special inspector and provided construction administration throughout the duration of construction.

Derecktor Megayacht Yard Travel Lift Piers, *Dania Beach, Florida.* Marine engineering services for the extension and relocation of existing travel lift piers located at the Derecktor shipyard. Designed pier extensions associated with 900-ton travel lift and new piers for relocation of a 200-ton travel lift. Managed the bidding process, assisted and made recommendations for contractor selection.

Jordon P. Cheifet, PE, CFM

Senior Marine Structural Engineer

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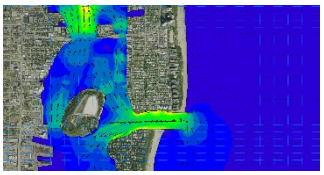
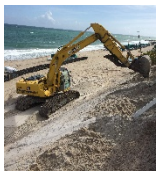
Coastal & Marine Engineering

SKILLS & EXPERTISE

- ✓ Coastal Engineering and Modeling
- ✓ Waterfront Structural Design
- ✓ Underwater Inspection
- ✓ Construction Plans and Specifications
- ✓ Construction Oversight
- ✓ Feasibility Studies of Marine and Coastal Engineering Projects



YEARS OF EXPERIENCE

- 15

EDUCATION

- M.Sc. Ocean and Resources Engineering, University of Hawaii
- B.Sc. Civil Engineering, Pennsylvania State University

LICENSES

- Florida PE No. 72876

CERTIFICATIONS

- Professional Engineer – Florida No. 72876
- Certified Floodplain Manager
- Certified Video Ray ROV Operator
- Surface Supplied Air Underwater Inspection Certification
- Advanced/Rescue/Nitrox SCUBA

PROFESSIONAL AFFILIATIONS

- Association of State Floodplain Managers, Member
- Florida Floodplain Managers Association, Member

RELEVANT EXPERIENCE

Jordon Cheifet is a Marine/Coastal Engineer with more than 15 years of technical and project management experience, including coastal engineering, beach nourishment design, waterfront structure design, FEMA coastal floodplain mapping, shoreline restoration/stabilization design, numerical modeling, and marina design. His field experience includes underwater waterfront facility inspections, GIS/GPS data collection and analysis, surveying, and construction administration. Jordon is a registered Professional Engineer in the State of Florida, Alabama, and Texas, as well as a Certified Floodplain Manager.

City of Deerfield Beach Stormwater Master Plan, *Deerfield Beach, Florida.* Conducted a field investigation to evaluate existing coastal stormwater and flood defense structures in tidal waters relative to service life for the City. The project included a detailed analysis of historical water levels to establish design water levels based on king tides, storm events, and long-term sea level rise projections. Recommendations for maintenance and repairs were summarized in a Coastal Condition and Resiliency Report. *Owner: City of Deerfield Beach, Client: Geosyntec Consultants, Inc. (Jan 2020 – Mar 2020).*

NSU Ocean Campus Groin & Wharf Design, *Dania Beach, Florida.* Development of conceptual plans related to relocating the groin and fortifying the wharf and seawall to accommodate a USACE dredging project at the NSU Oceanographic Center. Project included evaluation of existing geotechnical data, navigational feasibility, cost estimating, and wave climate analysis. Coordination with U.S. Navy and U.S. Coast Guard to discuss concepts and feasibility. *Owner/Client: Nova Southeastern University, (Feb 2020 – Present).*

Mooring Buoy Design, *Miami, Florida.* Provided coastal engineering design for new mooring buoys at 6 artificial/natural reef sites in the Atlantic Ocean. The project included sediment probes to determine buoy foundation requirements, engineering design, and preparation of plans and specifications. Project is scheduled to begin construction Summer 2020. *Client/Owner: Miami-Dade County, (Oct 2019 – Feb 2020).*

Jordon P. Cheifet, PE, CFM
Senior Marine Structural Engineer

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Coco Plum Beach Nourishment, *City of Marathon, Florida.* Provided coastal engineering services for a beach restoration project along approximately 1,500 feet of shoreline eroded from Hurricane Irma. Project included beach template design, development of technical specifications, and sediment characterization. Obtained FDEP CCCL permit while coordinating with City staff and local sand mines. Project is scheduled to begin construction Summer 2020. *Owner: Monroe County, Client: Bermello Ajamil & Partners, Inc., (Oct 2019 – Present).*

Hillsboro Imperial Condominium Seawall Condition Assessment, *Hillsboro Beach, Florida.* Performed a condition assessment of 250 feet of seawall fronting the Atlantic Ocean shoreline. An engineering report was developed to document the observed conditions and assist in developing repair and maintenance recommendations based on the severity of damage and results of the initial investigation. Owner/Client: *(Hillsboro Imperial Condominium Association, Inc., (January 2020 – February 2020).*

Kristi House Shoreline Stabilization, *Miami, Florida.* Provided structural/coastal engineering design for 525 feet of shoreline stabilization along an eroded portion of Wagner Creek. The project included a steel sheet pile bulkhead and armor stones with transition grading to the existing upland parking lot. Services performed included scour analyses, wave load analyses, and structure design. The project is currently in environmental permitting with construction expected to commence in 2021. *Owner/Client: Miami-Dade County (Oct. 2019 - Present).*

Sailfish Marina Condition Assessment, *Palm Beach Shores, Florida.* Performed a marine engineering inspection to compare as-built conditions to the approved construction drawings for a new dock, which may not have been constructed following the approved design drawings. A report will be including an assessment of the existing marine structures and a comparison summary with the approved plans, and recommendations for rehabilitation, if applicable. *Owner: Sailfish Marina & Resort, Client: Sompo International Insurance (Mar 2020 – Present).*

Hurricane Irma Repairs, *City of Deerfield Beach, Florida.* Performed a structural engineering assessment of the International Fishing Pier to evaluate the current condition after damage sustained during Hurricane Irma. Engineering data obtained was used to provide recommendations for repair design. Provided structural engineering design and construction administration services for the repair of the structure. *Owner/Client: City of Deerfield Beach (Sep 2017 – Apr 2018).**

Southern Palm Beach Island Comprehensive Shoreline Stabilization, *Town of Palm Beach, Florida.* Provided coastal engineering support to respond to public comments associated with the USACE Environmental Impact Statement review process. Technical responses were prepared based on a review of the basis of design and technical documentation used to prepare the draft and final EIS documents. *Owner/Client: Town of Palm Beach, (Aug 2016 – Jan 2018).**

Groin Rehabilitation, *Town of Palm Beach, Florida.* Provided coastal engineering support to respond to public comments associated with the USACE environmental permit review process. Technical responses were prepared based on a review of the basis of design and technical documentation used to prepare the draft and final EIS documents. Prepared and submitted Individual Project Authorization (IPA) application materials to the FDEP to secure environmental permits under the Beach Management Agreement (BMA). Owner/Client: Town of Palm Beach *(Aug 2016 – May 2018).**

Mid-Town Beach Groin Construction, *Town of Palm Beach, Florida.* Provided structural/coastal engineering design for a 140-foot rubble mound groin to provide shoreline stabilization along a severely eroded portion of the Atlantic Ocean shoreline. The project included armor stones, a marine mattress foundation, and a beach fill to serve as a dry work area. Services performed included scour analyses, wave load analyses, bidding support, and construction administration. He was the Engineer-of-Record for the project. *Owner/Client: Town of Palm Beach, (Dec 2017 – Jun 2018).**

Mid-Town Seawall Post-Irma Assessment, *Town of Palm Beach, Florida.* Performed a structural engineering assessment of the Mid-Town Seawall to evaluate the current condition after damage sustained during Hurricane Irma. Engineering data obtained was used to provide recommendations for repair design including concrete hardness testing and non-destructive testing of the steel sheet pile thickness using an ultrasonic gauge. Provided engineering recommendations to the Town for possible repair and replacement of the structure. *Owner/Client: Town of Palm Beach, (Oct 2017 – Jan 2018).**

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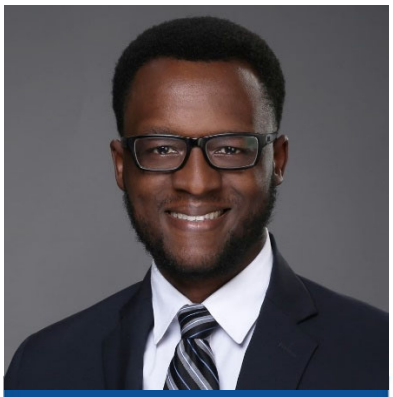
* *Services provided while with former firms.*



YVES "STAN" DELMAS, PE

GEOTECHNICAL ENGINEER I PROJECT MANAGER

EDUCATION:
Florida Atlantic Univ.
Bachelor of Science
Civil Engineering
2010

REGISTRATIONS:
State of Florida
PE #80352

EXPERIENCE: 8 YRS.

YRS AT H2R: 2

CERTIFICATIONS:
TIN D45297785

PAPERS WRITTEN:
D. Rancman, T. Nguyen, D. Hart, Y.S. Delmas. "Pile Group Effects and Soil Dilatancy at the Fort Lauderdale International Airport, Proceedings of the 2018 International Foundations Congress and Equipment Exposition (FCEE), Orlando, FL

Stan is responsible for the geotechnical design of civil projects, and the coordination of construction-phase services and inspections for a variety of projects. Stan's design and knowledge of both geotechnical and conventional testing field services result in a skill set that combines his knowledge of design intent and the importance of collecting quality field data. He is experienced in geotechnical construction projects where mix designs, and in-situ testing is critical to the project's success. In addition, he has significant laboratory experience.

TAMPA INTERNATIONAL CURBISIDE AIRPORT EXPANSION, HILLBOROUGH COUNTY, FL

Geotechnical engineering for the Tampa International Airport Curbside Expansion Program which includes the replacement and expansion of the curbsides, new approach and exit bridges, new elevated and at-grade lanes, a new Central Utility Plant, and new vertical circulation buildings. The vertical circulation buildings will accommodate express passenger drop off/pick up and include conditioned lobbies to provide a means for passengers to access the main terminal via elevators and escalators from the new lanes. Responsible for all aspect of the geotechnical exploration programs and geotechnical analyses for different foundation systems, including driven piles and non-redundant drilled shafts.

TAMIAMI TRAIL 2.6-MILE BRIDGE, FL, MIAMI – DADE COUNTY, FL / FDOT D6

As part of the Comprehensive Everglades Restoration Plan (CERP), The Florida Department of Transportation and the National Park Service replaced a portion of the Tamiami Trail Road/U.S. Highway 41 with a new 2.6 mile-long bridge. H2R Corp is responsible to provide geotechnical support to the Construction, Engineering and Inspection team. Responsibilities include oversight of the team performing dynamic pile testing, and review of all geotechnical documents submitted by the design-build team to identify discrepancies and to ensure that the foundations are constructed according to the design plans and the Florida Department of Transportation's specifications.

DISTRICTWIDE GEOTECHNICAL AND MATERIALS TESTING PROJECTS - NASSAU, DUVAL & CLAY COUNTIES, FL / FDOT D2

Laboratory Technician for this districtwide contract that includes soil exploration, geotechnical exploration testing, highway materials testing, construction materials testing, and foundation studies.

I-75 WIDENING PROJECTS - HILLSBOROUGH & PASCO COUNTIES, FL, FDOT D7.

As part of geotechnical engineering and PDA services portion of the I-75 widening project, served as geotechnical engineering services for the CEI. In addition, provided dynamic pile testing services for the corridor which had fourteen bridges. The dynamic pile testing portion implemented the Pile Driving Analyzer (PDA) and the Embedded Data Collector (EDC).

PORT OF MIAMI TUNNEL, MIAMI – DADE COUNTY, FL / FDOT D6

Field Inspector for a major construction project in Miami, Florida. The project is a 0.75-mile-long split portal automotive traffic tunnel connecting the MacArthur Causeway on Watson Island and the Port of Miami on Dodge Island, as well as road improvements around the port of Miami. Work on the project involved downhole camera and field permeability testing on the wall of the tunnel. The project also required unconfined strength on soil cement and a triaxial test on soil.

DYNAMIC PILE TESTING SERVICES, MIAMI – DADE COUNTY, FL / FDOT D6

Project Manager for this project that involved performing dynamic pile testing services for construction of the new express lanes on existing I-75 express lane bridge over the Homestead Extension of Florida's Turnpike. Responsible for monitoring the project at appropriate intervals based on the contractor's schedule. Our firm is responsible for monitoring the test piles and providing pile casting length and recommendations. We are developing the pile driving criteria based on subsequent analyses including WEAP/CAPWAP and PDIPILOT.

SR 826/SR 836 INTERCHANGE RECONSTRUCTION, MIAMI – DADE COUNTY, FL / FDOT D6

Field Inspector/Laboratory Technician responsible for construction engineering and inspection services related to foundation installation and testing efforts. This $550 million design-build project includes the replacement or new construction of more than 40 bridges and several miles of limited-access highway construction, along with the associated ramps, embankments, mechanically stabilized earth (MSE) walls, and other miscellaneous structures. Responsibilities also include oversight of the team performing dynamic pile testing, cross-hole sonic logging, embedded data collector testing, and pile integrity testing on foundation elements.

S.R. 821 WIDENING FROM N. OF SW 72ND TO N. OF SW 40TH ST. - MIAMI – DADE COUNTY, FL / FDOT FLORIDA'S TURNPIKE ENTERPRISE

Geotechnical Engineer for this project in design, including 18-inch prestressed-concrete piles and micro-piles along with MSE and sound walls. Vibration and settlement have created issues with shallow foundation supported bridges and certain nearby structures. Improvements include the widening of Homestead Extension of Florida's Turnpike to three general purpose lanes and two express lanes in each direction; replacing the mainline toll facilities with new all-electronic toll; constructing a new northbound, two-lane exit ramp to Bird Road; removing an old bridge and constructing a new bridge; converting a two-lane frontage road with controlled access; and milling and resurfacing the highway. Project Manager for this design-build project during construction phase, providing dynamic pile testing services, cross-hole sonic logging, vibration monitoring, pile driving inspection, noisewall foundation inspection, and drilled shaft inspection for tolling, signage, and miscellaneous structures.

BRIDGES OF THE ISLES & SUNRISE KEY BRIDGE REPLACEMENTS DESIGN-BUILD - FORT LAUDERDALE, FL / FDOT D4

Geotechnical Engineer responsible for the design of four new bridges and one bridge replacement to provide connectivity between the urmi Isles finger islands, north of Las Olas Boulevard, with S.R. 842 on the mainland. Services included accelerated bridge design and construction in an environmentally sensitive area. The project also involved complex maintenance of traffic, temporary signalization, traffic control plans, extensive utility coordination, geotechnical design, public outreach, and coordination with multiple stakeholders. Also provided construction services oversight, including pile driving inspection, dynamic pile testing and vibration monitoring.

JORDAN NELSON, PE

PROJECT ENGINEER

EDUCATION:
University of Florida
Mechanical Engineering
Bachelor of Science 2011
Master of Engineering 2013

REGISTRATIONS / CERTIFICATIONS:
FL PE #85278
TX PE #132934
WV PE #23595
NI Certified LabVIEW Developer

EXPERIENCE: 7 YRS

YRS AT H2R: Recent Hire

PROFESSIONAL AFFILIATIONS:
American Society of Mechanical Engineers
American Concrete Institute
Florida Engineering Society

PUBLICATIONS:
Muchard, Michael K. Nelson, Jordan D. "Determination of Unknown Foundation Lengths for Bridges Using Parallel Seismic Testing". ASCE Florida Section 2015.

Nelson, Jordan D. Ferraro, Christopher C. Algernon, Daniel. "The Application of Nondestructive Evaluation Techniques to Concrete with Internal Flaws". Structural Faults and Repair 2014.

Owing to a background in instrumentation, controls engineering, solid mechanics, and manufacturing, Jordan Nelson fills a unique role within geotechnical and construction engineering. He began his carrier in structural materials research for FDOT and moved into deep foundations quality assurance. He has extensive experience in static, bi-directional, and rapid foundation load testing as well as nondestructive integrity testing methods, geotechnical instrumentation, and environmental monitoring. His product development experience has allowed him to advance the art in these services and promote the industry at large.

I-4 ULTIMATE - ORLANDO, FL / SKANSKA-GRANITE-LANE JV / FDOT

Vibration Specialty Engineer and project manager for existing structure protection services. $2.3B P3 project rebuilding 21 miles of Interstate 4 through metropolitan Orlando. Supported automated remote vibration monitoring equipment, performed structural surveys, and advised on vibration mitigation methods.

SELMON EXPRESSWAY WEST EXTENSION – TAMPA, FL / KIEWIT / TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY

Project manager and senior engineer for load testing and internal foundation QC testing. 1.9-mile elevated tollway connecting Lee Roy Selmon Expressway to Gandy Bridge over Gandy Boulevard. Designed and performed four bi-directional load tests with novel modular test frame design. Performed static load test on ACIP foundation for segment walker towers. Oversaw crosshole sonic logging, thermal integrity profiling, and low strain integrity testing on over 150 ACIP and drilled shaft foundation elements.

DISTRICTWIDE UNKNOWN FOUNDATIONS AND SCOUR STUDY – FLORIDA DISTRICT 7 / TIERRA, INC / FDOT

Project engineer for unknown foundations testing. Evaluation of three bridges for scour and durability studies. Performed parallel seismic and low strain integrity and evaluated in situ pile elevations and overall foundation integrity.

COUNTYWIDE UNKNOWN FOUNDATIONS AND SCOUR STUDY – CITRUS COUNTY, FL / INTERTEK-PSI / FDOT

Project manager and specialty engineer for unknown foundations testing. Evaluation of three historical bridges for scour and durability studies. Performed parallel seismic testing using a unique over water approach in close coordination with prime contractor. Evaluated in situ pile elevations to support scour and durability study.

TAMPA INTERNATIONAL AIRPORT AUTOMATED PEOPLE MOVER AND RELATED BUILDINGS – TAMPA, FL / CASE ATLANTIC COMPANY / MALCOLM DRILLING CO / HILLSBOROUGH COUNTY AVIATION AUTHORITY

Project manager and senior test engineer for foundation load tests and integrity testing. Expansion of TPA facilities including automated people mover, consolidated rental car center, expanded taxiway, and APM-served commercial space. Performed three bi-directional load tests on the people mover footprint and one in support of commercial building construction. Performed crosshole sonic logging and low strain integrity tests on deep foundation elements

SEATTLE TACOMA INTERNATIONAL AIRPORT – INTERNATIONAL ARRIVALS FACILITY – SEATTLE, WA / MALCOLM DRILLING COMPANY / PORT OF SEATTLE

Project engineer for foundation load test. Construction of iconic new facility for international arrivals including a 900-foot long, 85-foot high ped bridge over an existing taxi lane. Designed modular load test assembly and oversaw offsite fabrication. Assisted with installation and performed 12,000 kip load test on an expendable test shaft.

US-181 HARBOR BRIDGE – CORPUS CHRISTI, TX / FLATIRON-DRAGADOS JV / PORT OF CORPUS CHRISTI

Senior project engineer for foundation load test program. Replacement of existing steel truss bridge with what will be the longest cable stay bridge in the US as part of six miles of highway replacement. Performed thermal integrity profiling and bi-directional load testing for each pylon foundation with loads up to 15,000 kips.

HONOLULU LIGHT RAIL – HONOLULU, HI / KIEWIT / SHIMMICK TRAYLOR GRANITE JV / HONOLULU AUTHORITY FOR RAPID TRANSIT

Project engineer for bi-directional load testing, integrity testing, and bottom cleanliness testing. 20-mile elevated light railway serving Honolulu and surrounding areas. Designed and performed bi-directional load tests for guideway and stations. Performed bottom cleanliness (Mini-SID) inspections and crosshole sonic logging tests for non-redundant drilled shafts.

WELLSBURG BRIDGE – WELLSBURG, WV TO BRILLIANT, OH / BRAYMAN / FLATIRON / WVDOT

Project manager for drilled shaft load testing, quality control, and integrity testing. Unique tied-arch bridge design spanning the Ohio river to form a new crossing. Designed and oversaw construction of bi-directional load testing assemblies. Oversaw crosshole sonic logging of large diameter drilled shaft foundation elements. Modified and oversaw use of portable mechanical caliper for drilled shaft dimension and verticality testing.

EXPERTISE:

- product and intellectual property development
- mechanical systems design
- solid modeling and simulation
- complex project management
- construction safety
- non-destructive testing (NDT)
- deep foundations testing and quality control
- vibration monitoring and protection of existing structures
- thermal integrity profiling (TIP)
- low strain integrity testing (PIT)
- parallel seismic testing (PST)
- structural concrete NDT
- ground penetrating radar (GPR)
- sonic NDT methods
- data acquisition systems design
- software development
- electronics design and fabrication

THAI NGUYEN, PhD, PE

CHIEF GEOTECHNICAL ENGINEER

H2R
CLIENT FOCUSED.
RESULTS DRIVEN.
FOUNDED ON INTEGRITY.

EDUCATION:
Ph.D., 2018
M.Sc.., 2001
University of Florida
Gainesville, Florida, USA,

EXPERIENCE: 24 YRS

YRS AT H2R: 5

REGISTRATIONS:
Florida P.E. No. 66551, 2007
Master PDA CAPWAP proficiency, 2012, 2014
SmartPile EDC User No. 020FL0046-13, 2011

PUBLICATIONS:
"Strength Envelopes of Florida Carbonate Rocks near Ground Surface." *Author, ASCE Journal of Geotechnical and GE, 2019.*
"Case Studies of Rebounds on Long, Slender Piles." *Author, ASTM StressWave, 2018*
"Case Studies - Driving Concrete Piles in Florida Pinnacle Limestone." *Author, ASTM StressWave, 2018*
"Evaluation of Existing Deep Foundation Performance Using the FDOT Database to Improve Current Design Methodologies." *Contributor, FDOT 2005.*
"National Cooperative Highway Research Program Report 507: Load and Resistance Factor Design (LRFD) for Deep Foundations." *Contributor, TRB, 2004.*
4 other ASCE, ARMA, and Rock Mechanics publications, 2018

Thai Nguyen has extensive knowledge in geotechnical engineering, specifically involving foundation systems for tunnels, bridges, buildings, dams, and other structures. Mr. Nguyen's technical experience in includes: Design of Foundation Systems: spread footings, driven piles, auger cast piles, drilled shafts, etc.; Foundation Testing, Geotechnical Instrumentation and QA/QC during the installation of auger cast-displacement piles, drilled shafts, driven piles, and tie-down anchors; Engineering Data Management; Soil Structure Interaction; Earth Retaining Structures; Slope Stabilities; Construction Methodologies; Ground Improvement Techniques; Vibration Monitoring Programs; Condition Surveys; Forensic Engineering.

FDOT DISTRICT 7 DISTRICTWIDE CONTRACT
Project Manager 2020-current. Manage districtwide contract works involving asphalt plant, pavement coring, verification testing, and all geotechnical services.

TAMPA INTERNATIONAL AIRPORT EXPANSION
Senior Engineer 2019-2020. Review of geotechnical exploration reports and geotechnical analyses for different foundation systems, including driven piles and non-redundant drilled shafts.

C-44 RESERVOIR/STA PROJECT CONTRACT NO. 2 – GEOTECHNICAL AND CONSTRUCTION SERVICES, MARTIN COUNTY, FL, USACE, JACKSONVILLE DISTRICT.
Senior Geotechnical Engineer 2016-2020. Key in the development of value engineering of the toe trench drain construction. Developed techniques, methodologies, and software with primary emphasis on CPT correlations to Soil Dry Density and relative compaction results. In addition, author of custom data management software to capture more than one thousand CPT soundings and ten thousand data sets of density tests, laboratory (Proctor and index) tests for Barnard Construction.

NORRIS CUT TUNNEL, FORCE MAIN MATERIALS TESTING, MIAMI, FL, MIAMI-DADE COUNTY, WATER AND SEWER DEPARTMENT
Senior Geotechnical Engineer for soil mix design and deep soil mixing execution, which is required to construct the tunnel boring machine exit pit at Fisher Island. Tasks for this phase of work includes specialty geotechnical engineering and field services including soil-cement coring, laboratory testing, and other services including construction quality control, Robertson camera, and in-situ permeability testing.

HEFT ALL-ELECTRONIC TOLL COLLECTION PHASE 3 DESIGN-BUILD, MIAMI-DADE COUNTY, FL, FDOT FLORIDA'S TURNPIKE ENTERPRISE
Review Engineer for project that involved the conversion of the mainline and ramp toll plazas on the northern Homestead Extension of Florida's Turnpike (HEFT) to an all-electronic toll facility, including the conversion of tolls to SunPass/E-Pass. Review PDA data on urgent requests, review of geotechnical analyses for drilled shaft design, review CSL tests, Embankment slope stability analyses.

DUKE ENERGY, VARIOUS STATES, USA
Dan River FlyAsh Pond, NC - Assistant Project Manager. Responsible for site liquefaction analyses.
Anclote Power Plant, FL (used to be Progress Energy), Holcim Site, FL and Crystal River Combined Cycle Project, FL - Assistant Project Manager. Responsible for site characterization program, data analyses, geotechnical recommendations.

PHOSPHATE MINES, VARIOUS STATES, USA
Monsanto Blackfoot Bridge Project, Boise, ID
Conda Phosphate Operations, Boise, ID
Project Engineer. Responsible for portions of seepage and slope stability analyses and construction support of phosphate mines.

I-75 WIDENING PROJECTS, HILLSBORO AND PASCO COUNTIES, FL, *FDOT D7*
Review Engineer for geotechnical engineering and PDA services portion of the I-75 widening project. Responsible for reviewing PDA data. In addition, provided dynamic pile testing services for the corridor which had fourteen bridges. The dynamic pile testing portion implemented the Pile Driving Analyzer (PDA) and the Embedded Data Collector (EDC).

WEIKIVIA, SR429, A² GROUP, INC. CENTRAL FLORIDA EXPRESSWAY AUTHORITY Senior Engineer responsible for reviewing PDA data.

NORFOLK SOUTHERN DRILLED PIERS, MECKLENBURG COUNTY, NC
Senior Engineer responsible for reviewing CSL and PDA testing program for Blue Line Light Rail from Uptown Charlotte to the University of North Carolina.

BIRD FHOSP ISBL, CANADA
Senior Engineer responsible for reviewing PDA testing program for a project in the oil sand region.

FLORIDA TURNPIKE VETERANS EXPRESSWAY WIDENING, HILLSBOROUGH COUNTY, FL
Project Engineer/Manager responsible for PDA testing and Vibration Monitoring on SR-589 over Hillsborough Ave, Johns Road, Channel G, Barry Road, and Henry St Ditch.

LAKE OKEECHOBEE PUMP STATIONS TRASH RAKES, MARTIN AND OKEECHOBEE COUNTIES, FL
Project Engineer/Manager. Responsible for PDA testing, Production Pile Driving Criteria for Structures S129, S131, S133, and S135.

MOFFITT OUTPATIENT CENTER, HILLSBOROUGH COUNTY, FL
Project Manager. Responsible for PDA testing and overseeing PDA testing by others.

ALLNAMICS SMARTPILE SOFTWARE REVIEW, FDOT STATE MATERIAL OFFICE, FL
Project Manager. Responsible for a research project for FDOT State Material Office to review new software packages developed by Allnamics, Inc. and SmartStructures, Inc. for the Smartpile EDC driven pile testing and production pile driving criteria.

OVERLAND BRIDGE REPLACEMENT, JACKSONVILLE, FL
Project Engineer/ Assistant Project Manager. Responsible for reviewing Pile Installation Plan submittal from Contractor and performing PDA verification testing for the design-build project.

PILE DYNAMIC TESTING, I-75 WIDENING, ATKINS/FDOT, HILLSBOROUGH AND PASCO COUNTIES, FL
Project Manager. Responsible for hammer evaluation, PDA and EDC testing on 80 test piles, and development of production pile length and driving criteria recommendations**.**

Bachelor of Science
Civil Engineering
Case Western Univ. 2002

REGISTRATIONS:
FL PE #70413
PA PE #PE076115

EXPERIENCE: 14 YRS

YRS AT H2R: 2

PROFESSIONAL AFFILIATIONS:
Deep Foundations Institute
American Society of Civil Engineers
American Concrete Institute

PUBLICATIONS:
Rausche, F., L. Liang, R. Allin, & D. Rancman. "Applications and Correlations of the Wave Equation Analysis Program GRLWEAP." Proceedings of the Seventh International Conference on the Application of Stresswave Theory to Piles 2004, Petaling Jaya, Selangor, Malaysia, August 9, 2004.

D. Rancman, T. Nguyen, D. Hart, Y.S. Delmas. "Pile Group Effects and Soil Dilatancy at the Fort Lauderdale International Airport, Proceedings of the 2018 International Foundations Congress and Equipment Exposition (FCEE), Orlando, FL

T. Nguyen, D. Hart, & D. Rancman.
"Case Studies – Driving Concrete Piles in Florida Pinnacle Limestone"

DAVE RANCMAN, PE

CEO, SENIOR GEOTECHNICAL ENGINEER I PROJECT MANAGER

Dave Rancman began his career working on foundation projects across the United States and Caribbean. Through a variety of research projects, he developed unique foundation quality assurance testing equipment and methods that have now become industry standard. With a diverse portfolio, Dave works with clients across a variety of market sectors. He has successfully implemented innovative practices to efficiently manage company assets, including web-based preventative maintenance applications for complex assets, and internally developed staff and equipment management tools. Dave has also developed quality relationships with public entities such as FDOT, in addition to engineering consultants, and contractors, who partner with H2R to provide quality services.

DYNAMIC PILE TESTING SERVICES, I-75 WIDENING PROJECT, SEGMENTS AB, BROWARD COUNTY, FL, FDOT. [2015-present][60110]

Geotechnical Engineer providing dynamic pile testing services for several bridges which had sensitivities to hard and unpredictable surficial limestone. Wave equation analyses, recommended pile lengths, and pile driving criteria were provided. [P049]

I-75 WIDENING PROJECT, HILLSBOROUGH COUNTY, FL, FDOT. [2011-2013][54803]

As part of the geotechnical engineering and pile driving analysis services portion of the I-75 Widening Project, provided geotechnical engineering services for the construction engineering and inspection. In addition, provided dynamic pile testing services for the corridor, which had 14 bridges. The dynamic pile testing portion implemented the PDA and the Embedded Data Collector. [P045]

DISTRICTWIDE GEOTECHNICAL AND MATERIALS TESTING PROJECTS, I-295 AT HECKSHCHER DRIVE INTERCHANGE, NEW BERLIN ACCESS, JACKSONVILLE, FL, FDOT D2. [2014][54376]

Senior Geotechnical Engineer responsible for oversight and performance of dynamic pile testing services through a districtwide geotechnical contract, and coordinating directly with the construction engineering and inspection in the issuance of pile length letters and pile driving criteria. [P043]

DISTRICTWIDE GEOTECHNICAL ENGINEERING AND MATERIALS TESTING, VARIOUS LOCATIONS, FL FDOT D1 [2010][51879]

Project Manager and Geotechnical Engineer for this districtwide, multiyear contract that involves subsurface investigation, laboratory testing, geotechnical recommendations, and design. The project has also included an emergency sinkhole investigation and the rapid development of remediation plans. [P037]

BRIDGES OF THE ISLES AND SUNRISE KEY BRIDGE REPLACEMENTS DESIGN-BUILD SERVICES CONTRACT, FORT LAUDERDALE, BROWARD COUNTY, FL, FDOT D4. [2013-present][57216]

Geotechnical Engineer responsible for this project to design four new bridges and one bridge replacement to provide connectivity between the Nurmi Isles finger islands, north of Las Olas Boulevard, with S.R. 842 on the mainland. This project incorporated accelerated bridge construction techniques through the use of precast superstructure and substructure elements. Services included accelerated bridge design and construction in an environmentally sensitive area with sea grass within the project site. The project also involved complex maintenance of traffic, temporary signalization, traffic control plans, extensive utility coordination, geotechnical design, public outreach, and coordination with multiple community and agency stakeholders. Also provided construction services oversight, including pile driving inspection, dynamic pile testing, and vibration monitoring. [P042]

GEOTECHNICAL SUPPORT CONSULTANT SERVICES, HILLSBOROUGH COUNTY, FL, FDOT D7. [2010][51878]

Project Manager and Geotechnical Engineer for this districtwide contract responsible for providing geotechnical investigation, analysis, and pavement evaluations and design, as well as design services in support of preliminary engineering and construction-related efforts. Data collection, including information from subsurface explorations, pavement coring, earthwork and concrete placement, as well as general quality control inspections were also integral to this project. [P038]

S.R. 821 WIDENING FROM NORTH OF SW 72ND STREET TO NORTH OF SW 40TH STREET, MIAMI-DADE COUNTY, FL, FDOT, FLORIDA'S TURNPIKE ENTERPRISE. [2014-2016][59271]

Senior Geotechnical Engineer for this project in design, including 18-inch prestressed-concrete piles and micropiles along with MSE and sound walls. Vibration and settlement have created issues with shallow foundation supported bridges and certain nearby structures. Improvements include the widening of Homestead Extension of Florida's Turnpike to three general purpose lanes and two express lanes in each direction; replacing the mainline toll facilities with new all-electronic toll; constructing a new northbound, two-lane exit ramp to Bird Road; removing an old bridge and constructing a new bridge; converting a two-lane frontage road with controlled access; and milling and resurfacing the highway. Project Manager for this design-build project during construction phase, providing dynamic pile testing services, cross-hole sonic logging, vibration monitoring, pile driving inspection, noisewall foundation inspection, and drilled shaft inspection for tolling, signage, and miscellaneous structures. [P047]

TURNPIKE SERVICE PLAZA IMPROVEMENTS, VARIOUS LOCATIONS, FL, FDOT, FLORIDA'S TURNPIKE ENTERPRISE. [2009-PRESENT][51233]

Geotechnical Engineer for the rehabilitation of eight service plazas located an average of 40 miles apart along the 300 miles of Florida's Turnpike. This design-build-finance project involves providing construction materials testing; performing geotechnical analyses; performing subsurface investigations; conducting laboratory tests; analyzing and designing foundations for convenience stores, restaurants, fueling area canopies, and fuel farms; developing pavement designs for car and truck parking facilities and access roads; and investigating stormwater retention facilities. Improvements include new service buildings, new convenience stores, asphalt and concrete parking areas, entry and exit ramps, gas stations, ponds, drainage, and other related facilities. [P036]

VOINOVICH PARK PEDESTRIAN BRIDGE, CLEVELAND, OH, OHIO DEPARTMENT OF TRANSPORTATION (ODOT).

Civil Engineer involved in ODOT's project development process (PDP) for the proposed pedestrian bridge from the Finger Pier to Voinovich Park in Cleveland's North Coast Harbor, adjacent to the Rock and Roll Hall of Fame. This included completing tasks in the minor PDP steps and being responsible for utility coordination for the project in its preliminary stages. [P029]

Electrical Design Associates

Lillian M. Reyes, P.E.

Professional Record

Ms. Reyes is the chief electrical engineer for Electrical Design Associates, Inc. Ms. Reyes is experienced in designing electrical power distribution for municipal systems, water and wastewater treatment facilities, and above and below ground distribution systems. Ms. Reyes project management responsibilities encompass preliminary and final design, cost estimating, and construction/start-up services.

Experience:

Ms. Reyes has 31 years of experience in electrical design for various projects with the private and public sector. Ms. Reyes was the project manager, in responsible charge, for all electrical design concerns for the following projects:

- Lift Station 309
  Boynton Beach, Florida
- Lantana Sports Complex
  Lantana, Florida
- Canyon District Park
  Palm Beach County, Florida
- Southgate Master Pump Station
  Sarasota, Florida
- Gun Club Road Street Lighting
  West Palm Beach, Florida
- Pence Park Lift Station
  Boynton Beach, Florida
- Central Boulevard Round About Lighting
  Jupiter, Florida
- Apopka WWTP Expansion
  Apopka, Floria
- Clint Moore Rd to W Atlantic Ave St Lighting
  Palm Beach County, Florida

Academic Credentials:

Bachelors of Science in Electrical Engineering
Florida Atlantic University, 1988

Professional Engineer – Florida 50780

Employment Record:

1998-Present - Electrical Design Associates, Inc.
Owner/President, Electrical Engineer

1996-1999 - Bailey Engineering Consultants, Inc., Electrical Engineer

1989-1996 - IBM Corporation
Senior Associate Engineer

1988-1989 - Brabham Debay and Associates, Inc.
Electrical Engineer

Principal Areas of Expertise:

Electrical Design of Power Distribution, Lighting, Security and Fire Alarm Systems for Environmental, Municipal and Commercial Projects

Electrical Cost Estimating

Professional Activities:

Florida Engineering Society (FES)
Illuminating Engineering Society (IES)
National Fire Protection Association (NFPA)
National Association of Women in Construction (NAWIC)

Electrical Design Associates

Dameion Donaldson, P.E.

Professional Record

Mr. Donaldson is an electrical engineer with 16 years of experience in various projects within the private and public sectors. He is experienced in designing electrical power distribution for municipal systems, water and wastewater treatment facilities, above and below ground distribution systems, lighting systems for roadway and industrial facilities. His electrical designing responsibilities encompass all aspects of drawing production, as well as system design.

Experience:

Mr. Donaldson has been involved in the electrical system design on a variety of projects including, but not limited to:

- WRF Influent Pumping and Headworks Improvements
  City of Largo, Florida
- Rutland Boulevard Improvements
  West Palm Beach, Florida
- WTP Degasifier Addition
  Palm Beach County, Florida
- Solid Waste Authority - NEFCO Odor Control
  Palm Beach County, Florida
- LS 1, 3, 4 and 9 Improvements
  Town of Lantana, Florida
- Monceaux Road Improvements
  West Palm Beach, Florida
- Congress Avenue Barrier Free Park
  Boynton Beach, Florida
- Lift Station No. 47 and 76
  West Palm Beach, Florida

Academic Credentials:

Bachelors of Science in Electrical Engineering
Florida International University, 2003

Professional Engineer – Florida 70851

Employment Record:

2011-Present: Electrical Design Associates, Inc.
Electrical Engineer

2009-2011: Lea & Elliot, Inc.
Electrical Project Engineer

2008- 2009: Gers USA Consulting
Electrical Engineer

2006-2008: Electrical Design Associates, Inc.
Electrical Engineer

2004-2005: Ivax Research, Inc.
Electrical Project Engineer

Principal Areas of Expertise:

Electrical Design of Power Distribution, Lighting, and Fire Alarm Systems for Environmental, Municipal and Commercial Projects

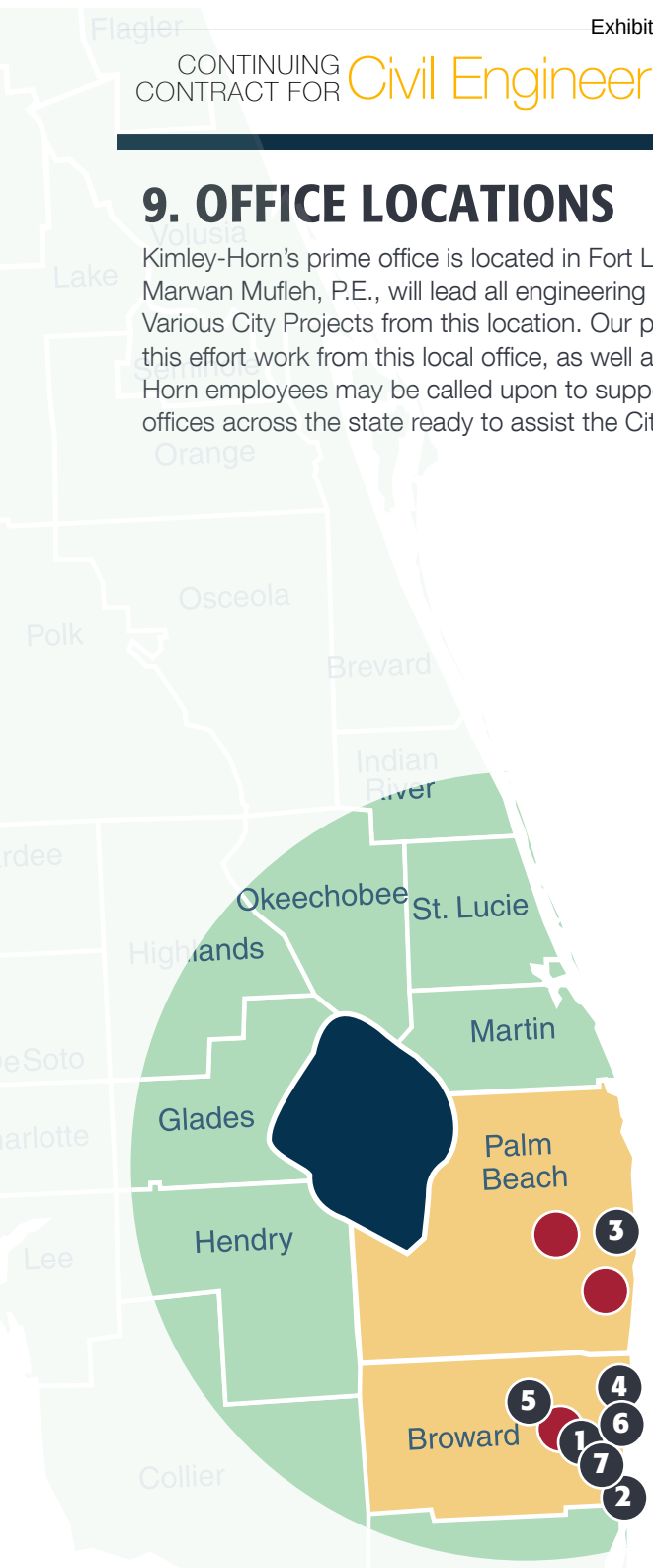
Electrical Cost Estimating
Testing and Commissioning

Professional Activities:

Florida Engineering Society (FES)
Institute of Electrical & Electronics Engineers (IEEE)
IEEE Power and Energy Society

9. OFFICE LOCATIONS

Kimley-Horn's prime office is located in Fort Lauderdale, 30 minutes away from the City's offices. Your project manager, Marwan Mufleh, P.E., will lead all engineering services for the Continuing Contract for Civil Engineering Services for Various City Projects from this location. Our prime office is currently home to 72 employees. Team members selected for this effort work from this local office, as well as form our offices in West Palm Beach and Boca-Delray. Additional Kimley-Horn employees may be called upon to support the project if necessary; Kimley-Horn has nearly 800 employees in 16 offices across the state ready to assist the City on an as-needed basis.



Local Kimley-Horn Office Locations

Kimley-Horn Fort Lauderdale
600 North Pine Island Road, Suite 450
Plantation, FL 33324

Kimley-Horn West Palm Beach Office
1920 Wekiva Way, Suite 200
West Palm Beach, FL 33411

Kimley-Horn Boca-Delray Office
1615 South Congress Avenue. Suite 201
Delray Beach, FL 33445

Subconsultant Office Locations

Keith and Associates, Inc. 1
301 East Atlantic Boulevard
Pompano Beach, FL 33060

H2R Corp 2
1900 NW 40th Court
Pompano Beach, FL 33064

Cummins Cederberg, Inc. 3
901 Progresso Drive, Suite 205
Fort Lauderdale, FL 33304

Dickey Consulting Services, Inc. 4
1033 NW 6th Street, Suite 206
Fort Lauderdale, FL 33311

Electrical Design Associates, Inc. 5
8401 Lake Worth Road, Suite 221
Lake Worth, FL 33467

HSQ Group 6
4577 Nob Hill Road, Suite 120
Sunrise, FL 33351

Lakdas/Yohalem Engineering, Inc. 7
2211 NE 54th Street
Fort Lauderdale, FL 33308

10. Local Businesses

LOCAL BUSINESS EXHIBIT "A"
CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: E-20-20 Continuing Contract for Civil Engineering Services for Various City Projects

Prime Contractor's Name: Kimley-Horn and Associates, Inc.

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
Cummins Cederberg 901 Progresso Drive, Suite 205, Fort Lauderdale, FL 33304	Leonard Barrera Allen 305.741.6155	Coastal Engineering, Seawall and Dock	
Dickey Consulting, 1033 NW 6th Street, Suite 206, Fort Lauderdale, FL 33311	Sheryl Dickey 954.467.6822	Public Relations	
H2R, 1900 NW 40th Court, Pompano Beach, FL 33064	Yves-Stanley (Stan) 954.972.7570	Geotech	
Keith & Associates, Inc., 301 East Atlantic Boulevard, Pompano Beach, FL 33060	Kristen Lawlor 954.788.3400	Inspection Construction Administration; Survey/Mapping/SUE	
HSQ Group, Inc. 4577 Nob Hill Road, Suite 120, Sunrise, FL 33351	Nour Shehadeh 561.392.0221	Surveying and Engineering Services	
Lakdas/Yohalem Engineering, Inc. 2211 NE 54th Street, Fort Lauderdale, FL 33308	LaQuavian Crawford 954.771.0630	Inspection and Engineering Services	

LOCAL BUSINESS EXHIBIT "A"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Marine structural engineering relative to seawall and docks, coastal engineering relative to dredging services and sea level rise, environmental permitting and associated marine resource monitoring.

at the following price: TBD

7/27/2020
(Date)

Cummins Cederberg, Inc.
(Print Name of Local Business Contractor)

901 Progresso Drive, Suite 205
(Street Address)

Fort Lauderdale, FL, 33304
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Public Outreach/Information and Conduct Surveys

at the following price: TBD

6/29/2020
(Date)

Dickey Consulting Services, Inc.
(Print Name of Local Business Contractor)

1033 Sistrunk Blvd, Ste 206
(Street Address)

Fort Lauderdale, FL 33311
(City, State Zip Code)

BY: Teryl A Dickey
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

_____

_____

_____

_____

at the following price: TBD

7/28/2020
(Date)

H2R Corp
(Print Name of Local Business Contractor)

1900 NW 40th Court
(Street Address)

Pompano Beach, FL 33064
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Survey and misc. civil engineering

at the following price: TBD

7/29/2020
(Date)

HSQ Group, Inc.
(Print Name of Local Business Contractor)

1001 Yamato Rd., Ste. 105
(Street Address)

Boca Raton, FL 33431
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-2020

TO: Kimley Horn
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual

x _____ a corporation

_____ a partnership

_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

surveying, SUE, contruction services

at the following price: TBD

7/22/2020
(Date)

Keith and Associates, Inc., bda KEITH
(Print Name of Local Business Contractor)

301 E. Atlantic Boulevard
(Street Address)

Pompano Beach, FL 33060
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Survey and misc. civil engineering

at the following price: TBD

07/29/2020
(Date)

Lakdas/Yohalem Engineering, Inc.
(Print Name of Local Business Contractor)

2211 NE 54th Street
(Street Address)

Fort Lauderdale, FL 33308
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

N/A

LOCAL BUSINESS EXHIBIT "C

LOCAL BUSINESS
UNAVAILABILITY FORM

BID #_____

I,_____
(Name and Title)

of_____, certify that on the _____day of

_____, _____, I invited the following LOCAL BUSINESSES to bid work items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)

Said Local Businesses:

___ Did not bid in response to the invitation

___ Submitted a bid which was not the low responsible bid

___ Other:_____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

N/A

LOCAL BUSINESS EXHIBIT "D"
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

BID # E-20-20

1. What portions of the contract have you identified as Local Business opportunities?

_____

_____

_____

_____

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

_____

_____

_____

3. Did you send written notices to Local Businesses?

____ Yes ____ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

____ Yes ____ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

_____

_____

7. List the Local Businesses you will utilize and subcontract amount.

_____ $_____

_____ $_____

_____ $_____

8. Other comments: _____

_____

LOCAL BUSINESS EXHIBIT “D” – Page 2

_____

_____

_____

11. LITIGATION

Kimley-Horn and its subsidiaries have provided services in all 50 states and numerous countries. Because of the many and varied projects we have completed, we are subject to various legal proceedings from time to time and in the ordinary course of business. In the last 5 years, Kimley-Horn has had more than 19,675 active projects in Florida, 19 of which had some form of litigation. Of these cases, 5 were dismissed, 10 were settled, and 4 are pending. This represents 0.9657% of all projects completed by Kimley-Horn in Florida over the past five years. None of the pending matters, if decided against Kimley-Horn, would have a material impact on our financial statements or impair in any way our ability to serve our clients. Generally, these matters are covered by insurance, and we consider them to be without merit. If you would like to discuss our legal matters in more detail, please contact Kimley-Horn's General Counsel, Richard Cook, at 919.677.2058.

12. Forms

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RFP IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

RFP E-20-20 (number), Continuing Contract for Civil Engineering Services for Various City Projects (RFP name)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the RFP. I have read the RFP and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) Marwan Mufleh, P.E. Title Senior Vice President

Company (Legal Registered) Kimely-Horn and Associates, Inc.

Federal Tax Identification Number 56-0885615

Address 600 North Pine Island Road, Suite 450

City/State/Zip Plantation, FL 33324

Telephone No. 9545355100 Fax No. 5618638175

Email Address Marwan.Mufleh@kimley-horn.com

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROJECT TEAM

RLI NUMBER E-20-20

Federal I.D.# 56-0885615

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Russell Barnes, P.E.	33	BS, Civil Eng.
Project Manager	Marwan Mufleh, P.E.	33	BS, Civil Eng.
Asst. Project Manager			
Other Key Member	Robert Joel, P.E. (QA/QC Manager)	40	BS, Civil Eng.
Other Key Member	Jon Potts, P.E. (QA/QC Manager)	40	BS, Mech. Eng.

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	Keith & Associates, Inc.	Timothy Gray, PSM
	(Survey/Mapping/SUE)	
Landscaping	301 East Atlantic Blvd, Pompano, FL 33060	
Engineering		
Other Key Member	Electrical Design Associates, Inc.	Lillian Reyes, P.E.
	(Mechanical/Electrical/Plumbing)	William Haygood, P.E.
Other Key Member	8401 Lake Worth Rd #221, Lake Worth, FL 33467	
Other Key Member	Lakdas/Yohalem Engineering, Inc.	Lakdas Nanayakkara, P.E.
	(Structural/Engineering Services)	
Other Key Member	2211 NE 54th Street, Fort Lauderdale, FL 3308	

(use attachments if necessary)

Attachment to Project Team form

SUB-CONSULTANT

Company Name and Address of Office Handling This Project	**Name of Individual Assigned to the Project**
Cummins Cederberg (Coastal Engineering, Seawall/Dock) 901 Progresso Drive, Suite 205, Fort Lauderdale, FL 33304	Jason Cummins, P.E.
Dickey Consulting (Public Relations) 1033 NW 6th Street, Suite 206, Fort Lauderdale, FL 33311	Sheryl Dickey
H2R (Geotech) 1900 NW 40th Court, Pompano Beach, FL 33064	Yves-Stanley Delmas, P.E.
HSQ Group, Inc. (Surveying and Engineering Services) 4577 Nob Hill Road, Suite 120, Sunrise, FL 3351	Alberto Zuniga, P.E.

PROJECT TEAM (CONT.)

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
QA/QC Manager, Inspection Construction Administration	Ed Grady	36	BS, Civil Engineering
Roadway and Streetscape Design	Eric Regueiro, P.E.	15	BS, Civil Engineering
Roadway and Streetscape Design, Lighting	Jim Sumislaski, P.E.	38	BS, Civil Engineering
Roadway and Streetscape Design	Tara Swann, P.E.	7	BS, Civil Engineering
Water/Wastewater/Reuse/Pump Station	Juan Jimenez, P.E.	25	BS, Civil Engineering
Water/Wastewater/Reuse/Pump Station	Gary Ratay, P.E.	34	BS, Civil Engineering
Water/Wastewater/Reuse/Pump Station, Parking Lot/Site/Civil Engineering, Surtax Funding Coordination	Stefano Viola, P.E.	14	BS, Civil Engineering
Water/Wastewater/Reuse/Pump Station, Undergrounding of Overhead Utilities	Kevin Schanen, P.E.	22	BS, Civil Engineering
Parking Lot/Site/Civil Engineering	Mike Schwartz, P.E.	24	BS, Civil Engineering
Parking Lot/Site/Civil Engineering	Jason Webber, P.E.	13	BS, Civil Engineering
Structural Engineering and Parking Services	Tony Bevilacqua, P.E.	21	MS, Structural Engineering BS, Civil Engineering
Structural Engineering and Parking Services	David Taxman, P.E.	15	MA, Real Estate BS, Civil Engineering
Public Involvement	Lisa Stone, P.E.	23	BS, Civil Engineering
Public Involvement	Denise Palmatier, P.E.	28	BS, Civil Engineering
Surtax Funding Coordination	Erin Emmons, GISP	15	BS, Urban and Regional Planning
Traffic Engineering/Transportation Planning/Transit, Bike/Pedestrian Paths and Greenways	John McWilliams, P.E.	22	BS, Civil Engineering
Traffic Engineering/Transportation Planning/Transit, Bike/Pedestrian Paths and Greenways, Complete Streets and ADA Plans	Stewart Robertson, P.E.	18	MS, Civil Engineering BS, Civil Engineering
Traffic Engineering/Transportation Planning/Transit	Omar Kanaan, P.E.	8	MS, Civil Engineering BS, Civil Engineering
Landscape Architecture/Parks and Recreation	George Puig, PLA	30	Bachelor of Landscape Architecture
Landscape Architecture/Parks and Recreation	Jonathan Haigh, PLA	25	Bachelor of Landscape Architecture
Landscape Architecture/Parks and Recreation	Tricia Richter	8	Bachelor of Landscape Architecture
Lighting	Nick Clavelo, P.E.	7	MS, Civil Engineering BS, Civil Engineering
Lighting	Matt Fursetzer, P.E.	19	BS, Civil Engineering

PROJECT TEAM (CONT.)

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Resiliency and Sea Level Rise	Chris Niforatos, P.E.	26	MS, Enviro. Engineering BS, Civil Engineering
Resiliency and Sea Level Rise	Kelley Klepper, AICP	28	MA, Geography and Urban Planning BS, Psychology
Environmental Permitting/Seawall Design	Tom Fucigna	30	BS, Marine Sciences
Environmental Permitting/Seawall Design	Angelina Fairchild, P.E., LEED AP	33	MS, Civil Engineering BS, Civil Engineering
Complete Street and ADA Plans	Brian Shamburger, P.E., PTOE	22	MS, Civil Engineering BS, Civil Engineering
Complete Street and ADA Plans	Brett Johnson, P.E.	13	BS, Mech. Engineering

BIDDERS ARE TO COMPLETE FORM AND UPLOAD COMPLETED FORM TO THE EBID SYSTEM

EXHIBIT E

MINORITY BUSINESS ENTERPRISE PARTICIPATION

RLI #E-20-20

List all members of your team that are a certified Minority Business Enterprise (as defined by the State of Florida.) You must include copies of the MBE certificates for each firm listed with your electronic submittal.

Name of Firm	Certificate Included?
Dickey Consulting Services, Inc.	Yes
Electrical Design Associates, Inc.	Yes
HSQ Group, Inc.	Yes
Lakdas/Yohalem Engineering, Inc.	Yes

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

_____ My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

__x__ My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach

And/Or

__x__ My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

Or

_____ My firm does not qualify as a Tier 2 Vendor.

I certify that the above information is true to the best of my knowledge.

July 27, 2020
(Date)

Kimley-Horn and Associates, Inc.
(Name of Firm)

BY:  Marwan Mufleh, P.E., Senior Vice President
(Name)

LOCAL BUSINESS EXHIBIT "A"
CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: E-20-20 Continuing Contract for Civil Engineering Services for Various City Projects

Prime Contractor's Name: Kimley-Horn and Associates, Inc.

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
Cummins Cederberg 901 Progresso Drive, Suite 205, Fort Lauderdale, FL 33304	Leonard Barrera Allen 305.741.6155	Coastal Engineering, Seawall and Dock	
Dickey Consulting, 1033 NW 6th Street, Suite 206, Fort Lauderdale, FL 33311	Sheryl Dickey 954.467.6822	Public Relations	
H2R, 1900 NW 40th Court, Pompano Beach, FL 33064	Yves-Stanley (Stan) 954.972.7570	Geotech	
Keith & Associates, Inc., 301 East Atlantic Boulevard, Pompano Beach, FL 33060	Kristen Lawlor 954.788.3400	Inspection Construction Administration; Survey/Mapping/SUE	
HSQ Group, Inc. 4577 Nob Hill Road, Suite 120, Sunrise, FL 33351	Nour Shehadeh 561.392.0221	Surveying and Engineering Services	
Lakdas/Yohalem Engineering, Inc. 2211 NE 54th Street, Fort Lauderdale, FL 33308	LaQuavian Crawford 954.771.0630	Inspection and Engineering Services	

LOCAL BUSINESS EXHIBIT "A"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Marine structural engineering relative to seawall and docks, coastal engineering relative to dredging services and sea level rise, environmental permitting and associated marine resource monitoring.

at the following price: TBD

7/27/2020
(Date)

Cummins Cederberg, Inc.
(Print Name of Local Business Contractor)

901 Progresso Drive, Suite 205
(Street Address)

Fort Lauderdale, FL, 33304
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Public Outreach/Information and Conduct Surveys

at the following price: TBD

6/29/2020
(Date)

Dickey Consulting Services, Inc.
(Print Name of Local Business Contractor)

1033 Sistrunk Blvd, Ste 206
(Street Address)

Fort Lauderdale, FL 33311
(City, State Zip Code)

BY: Teryl A Dickey
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

_____

_____

_____

_____

at the following price: TBD

7/28/2020
(Date)

H2R Corp
(Print Name of Local Business Contractor)

1900 NW 40th Court
(Street Address)

Pompano Beach, FL 33064
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Survey and misc. civil engineering

at the following price: TBD

7/29/2020
(Date)

HSQ Group, Inc.
(Print Name of Local Business Contractor)

1001 Yamato Rd., Ste. 105
(Street Address)

Boca Raton, FL 33431
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-2020

TO: Kimley Horn
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual

x _____ a corporation

_____ a partnership

_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

surveying, SUE, contruction services

at the following price: TBD

7/22/2020
(Date)

Keith and Associates, Inc., bda KEITH
(Print Name of Local Business Contractor)

301 E. Atlantic Boulevard
(Street Address)

Pompano Beach, FL 33060
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Kimley-Horn and Associates, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual X a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Survey and misc. civil engineering

at the following price: TBD

07/29/2020
(Date)

Lakdas/Yohalem Engineering, Inc.
(Print Name of Local Business Contractor)

2211 NE 54th Street
(Street Address)

Fort Lauderdale, FL 33308
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

N/A

LOCAL BUSINESS EXHIBIT "C

LOCAL BUSINESS
UNAVAILABILITY FORM

BID #_____

I,_____
(Name and Title)

of_____, certify that on the _____day of

_____, _____, I invited the following LOCAL BUSINESSES to bid work items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)

Said Local Businesses:

___ Did not bid in response to the invitation

___ Submitted a bid which was not the low responsible bid

___ Other:_____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

N/A

LOCAL BUSINESS EXHIBIT "D"
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

BID # E-20-20

1. What portions of the contract have you identified as Local Business opportunities?

_____

_____

_____

_____

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

_____

_____

_____

3. Did you send written notices to Local Businesses?

____ Yes ____ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

____ Yes ____ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

_____

_____

7. List the Local Businesses you will utilize and subcontract amount.

_____ $_____

_____ $_____

_____ $_____

8. Other comments: _____

_____

LOCAL BUSINESS EXHIBIT “D” – Page 2

_____

_____

_____

Firm Licenses and Certifications

Kimley-Horn

State of Florida
Department of State

I certify from the records of this office that KIMLEY-HORN AND ASSOCIATES, INC. is a North Carolina corporation authorized to transact business in the State of Florida, qualified on April 24, 1968.

The document number of this corporation is 821359.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on April 15, 2020, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eleventh day of May, 2020

Secretary of State

Tracking Number: 7943987469CU

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

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

---

RICK SCOTT, GOVERNOR — JONATHAN ZACHEM, SECRETARY — Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS
THE GEOLOGY BUSINESS HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

KIMLEY-HORN AND ASSOCIATES INC
421 FAYETTEVILLE STREET
SUITE 600
RALEIGH NC 27601

LICENSE NUMBER: GB175
EXPIRATION DATE: JULY 31, 2020
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor — FBPE

STATE OF FLORIDA
BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

KIMLEY-HORN & ASSOCIATES, INC.
421 FAYETTEVILLE STREET
SUITE 600
RALEIGH NC 27601

LICENSE NUMBER: CA696
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA:
Business Name: KIMLEY-HORN & ASSOCIATES INC
Receipt #: 377-13600
Business Type: OFFICE/SALES/BUSINESS/ADMIN (CORP OFFICE)

Owner Name: KIMLEY-HORN & ASSOCIATES INC
Business Location: 600 N PINE ISLAND RD #450 FT LAUDERDALE
Business Phone: 954-739-2233
Business Opened: 02/01/1984
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals

For Vending Business Only
Number of Machines: Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
45.00	0.00	0.00	0.00	0.00	0.00	45.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
KIMLEY-HORN & ASSOCIATES INC
421 FAYETTEVILLE ST STE 600
RALEIGH, NC 27601

Receipt #WWW-18-00192895
Paid 09/24/2019 45.00

2019 - 2020

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA:
Business Name: KIMLEY-HORN & ASSOCIATES INC
Receipt #: 377-13600
Business Type: OFFICE/SALES/BUSINESS/ADMIN (CORP OFFICE)

Owner Name: KIMLEY-HORN & ASSOCIATES INC
Business Location: 600 N PINE ISLAND RD #450 FT LAUDERDALE
Business Phone: 954-739-2233
Business Opened: 02/01/1984
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals

Signature

For Vending Business Only
Number of Machines: Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
45.00	0.00	0.00	0.00	0.00	0.00	45.00

Receipt #WWW-18-00192895
Paid 09/24/2019 45.00

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LB696
Expiration Date Febeuary 28, 2021

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

KIMLEY-HORN AND ASSOCIATES, INC.
421 FAYETTEVILLE ST STE 600
RALEIGH, NC 27601-1777

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Ron DeSantis, Governor — Halsey Beshears, Secretary — Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE
THE LANDSCAPE ARCHITECT BUSINESS HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

KIMLEY-HORN AND ASSOCIATES INC
421 FAYETTEVILLE STREET
SUITE 600
RALEIGH NC 24601

LICENSE NUMBER: LCC000219
EXPIRATION DATE: NOVEMBER 30, 2021
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

Client#: 25320 KIMLHORN

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 3/28/2020

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

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

PRODUCER	CONTACT NAME: Jerry Noyola
Greyling Ins. Brokerage/EPIC 3780 Mansell Road, Suite 370 Alpharetta, GA 30022	PHONE (A/C, No, Ext): 770-552-4225 FAX (A/C, No): 866-550-4082 E-MAIL ADDRESS: jerry.noyola@greyling.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : National Union Fire Ins. Co.	19445
INSURER B : Aspen American Insurance Company	43460
INSURER C : New Hampshire Ins. Co.	23841
INSURER D : Lloyds of London	85202
INSURER E :	
INSURER F :	

INSURED
Kimley-Horn and Associates, Inc.
421 Fayetteville Street, Suite 600
Raleigh, NC 27601

COVERAGES **CERTIFICATE NUMBER: 20-21** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			5268169	04/01/2020	04/01/2021	EACH OCCURRENCE	$1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$500,000
	X Contractual Liab						MED EXP (Any one person)	$25,000
							PERSONAL & ADV INJURY	$1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$2,000,000
	POLICY X PRO-JECT X LOC						PRODUCTS - COMP/OP AGG	$2,000,000
	OTHER:							$
A	AUTOMOBILE LIABILITY			4489663	04/01/2020	04/01/2021	COMBINED SINGLE LIMIT (Ea accident)	$2,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
B	UMBRELLA LIAB X OCCUR			CX005FT20	04/01/2020	04/01/2021	EACH OCCURRENCE	$5,000,000
	X EXCESS LIAB CLAIMS-MADE						AGGREGATE	$5,000,000
	DED X RETENTION $0							$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			015893685 (AOS)	04/01/2020	04/01/2021	X PER STATUTE / OTH-ER	
A	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N: N (Mandatory in NH)	N/A		015893686 (CA)	04/01/2020	04/01/2021	E.L. EACH ACCIDENT	$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$1,000,000
							E.L. DISEASE - POLICY LIMIT	$1,000,000
D	Professional Liab incl. Poll. Liab.			B0146LDUSA2004949	04/01/2020	04/01/2021	Per Claim $2,000,000 Aggregate $2,000,000	

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

CERTIFICATE HOLDER

Sample Certificate

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

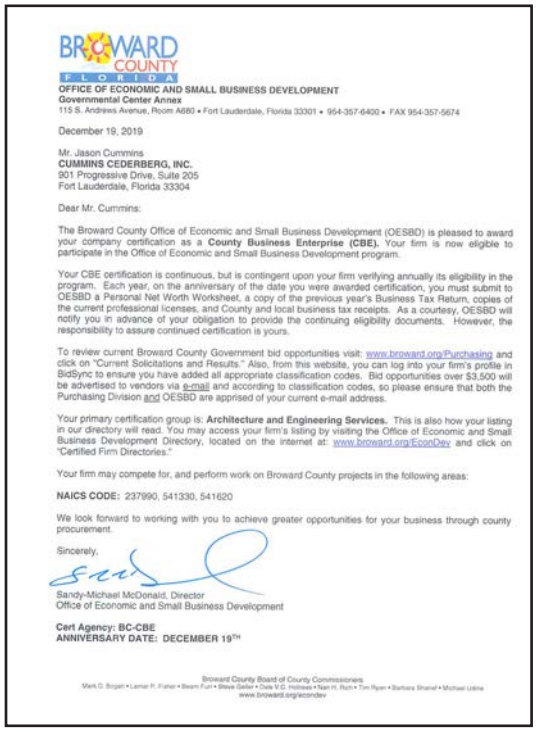
AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03) 1 of 1
#S2100155/M2095023

The ACORD name and logo are registered marks of ACORD

JNOY1

Cummins Cerderberg, Inc.



BROWARD COUNTY FLORIDA

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

December 19, 2019

Mr. Jason Cummins
CUMMINS CEDERBERG, INC.
901 Progressive Drive, Suite 205
Fort Lauderdale, Florida 33304

Dear Mr. Cummins:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to award your company certification as a **County Business Enterprise (CBE).** Your firm is now eligible to participate in the Office of Economic and Small Business Development program.

Your CBE certification is continuous, but is contingent upon your firm verifying annually its eligibility in the program. Each year, on the anniversary of the date you were awarded certification, you must submit to OESBD a Personal Net Worth Worksheet, a copy of the previous year's Business Tax Return, copies of the current professional licenses, and County and local business tax receipts. As a courtesy, OESBD will notify you in advance of your obligation to provide the continuing eligibility documents. However, the responsibility to assure continued certification is yours.

To review current Broward County Government bid opportunities visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over $3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Architecture and Engineering Services.** This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following areas:

NAICS CODE: 237990, 541330, 541620

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE
ANNIVERSARY DATE: DECEMBER 19TH

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev

BROWARD COUNTY FLORIDA

Office of Economic and Small Business Development

Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

This Certificate is Awarded to:

CUMMINS CEDERBERG, INC.

As set forth in the Broward County Business Opportunity Act of 2012, the certification requirements have been met for:

County Business Enterprise (CBE)
Anniversary Date: December 19th

Authorized Representative

The Office of Economic and Small Business Development must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.

A Service of the Broward County Board of County Commissioners
www.broward.org/smallbusiness

Dickey Consulting Services, Inc.

State of Florida

Woman & Minority Business Certification

Dickey Consulting Services, Inc.

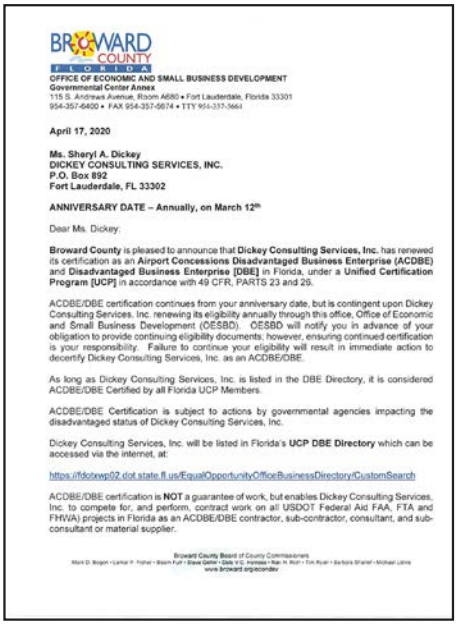
Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

04/13/2020 to 04/13/2022

Jonathan R. Satter, Secretary
Florida Department of Management Services

Department of MANAGEMENT SERVICES
Office of Supplier Diversity

Office of Supplier Diversity
4050 Esplanade Way, Suite 380
Tallahassee, FL 32399
850-487-0915
www.dms.myflorida.com/osd



BROWARD COUNTY FLORIDA

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

April 17, 2020

Ms. Sheryl A. Dickey
DICKEY CONSULTING SERVICES, INC.
P.O. Box 892
Fort Lauderdale, FL 33302

ANNIVERSARY DATE – Annually, on March 12th

Dear Ms. Dickey:

Broward County is pleased to announce that **Dickey Consulting Services, Inc.** has renewed its certification as an **Airport Concessions Disadvantaged Business Enterprise (ACDBE)** and **Disadvantaged Business Enterprise [DBE]** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PARTS 23 and 26.

ACDBE/DBE certification continues from your anniversary date, but is contingent upon Dickey Consulting Services, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, ensuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to decertify Dickey Consulting Services, Inc. as an ACDBE/DBE.

As long as Dickey Consulting Services, Inc. is listed in the DBE Directory, it is considered ACDBE/DBE Certified by all Florida UCP Members.

ACDBE/DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of Dickey Consulting Services, Inc.

Dickey Consulting Services, Inc. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at:

https://fdotwwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch

ACDBE/DBE certification is **NOT** a guarantee of work, but enables Dickey Consulting Services, Inc. to compete for, and perform, contract work on all USDOT Federal Aid FAA, FTA and FHWA) projects in Florida as an ACDBE/DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev

BROWARD COUNTY FLORIDA

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

April 17, 2020

Ms. Sheryl A. Dickey
DICKEY CONSULTING SERVICES, INC.
1033 Sistrunk Blvd., Suite 206
Fort Lauderdale, Florida 33311

Dear Ms. Dickey:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's **County Business Enterprise (CBE)** and **Small Business Enterprise (SBE)** certifications have been renewed.

Your firm's certifications are continuing from your anniversary date but are contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE and SBE programs within **thirty (30) days** from your anniversary may result in the expiration of your firm's certifications. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over $3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Contract Services.** This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following areas:

NAICS CODE: 541611, 541820, 541720

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE SBE
ANNIVERSARY DATE: April 1st

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev

Electrical Design Associates, Inc.

Ron DeSantis, Governor

Halsey Beshears, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

ELECTRICAL DESIGN ASSOCIATES, INC.

8401 LAKE WORTH ROAD
SUITE 221
LAKE WORTH FL 33467

LICENSE NUMBER: CA8079
EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

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State of Florida

Woman & Minority Business Certification

Electrical Design Associates, Inc

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

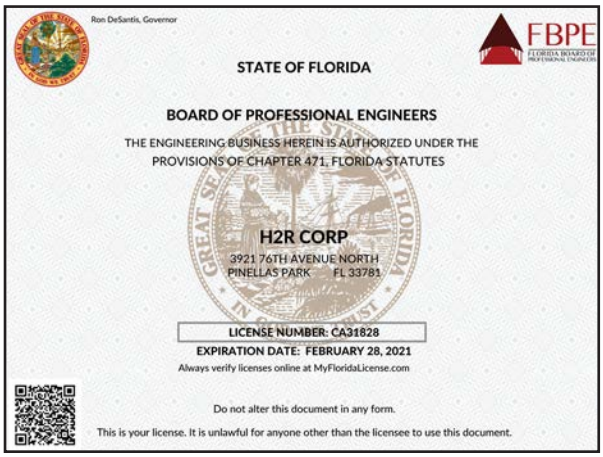
06/13/2019 to 06/13/2021

Jonathan R. Satter, Secretary
Florida Department of Management Services

office of supplier DIVERSITY

Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.dms.myflorida.com/osd

H2R Corp



Ron DeSantis, Governor

FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

H2R CORP

3921 76TH AVENUE NORTH
PINELLAS PARK FL 33781

LICENSE NUMBER: CA31828
EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

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st.petersburg
www.stpete.org

THE CITY OF ST. PETERSBURG
SMALL BUSINESS ENTERPRISE CERTIFICATION

This certificate is awarded to

H2R Corp
Federal Identification Number: 81-2654817
SBE Certification Number: 1017-19425

Certification is Applicable in:

Geotechnical Engineering- Construction Services (CEI), Materials Testing & Inspection Services, Drilling/Subsurface Investigation, Foundation Testing & Inspection Services

Certified: October 4, 2017
Expires: October 4, 2020

Signature

October 4, 2017
Date

Claude S. Williams,
Economic Development Coordinator
The Greenhouse

GREENHOUSE

SBE Small Business Enterprise

In accordance with the City of St. Petersburg's Small Business Enterprise Ordinance 4789-G, your business is certified as a Small Business Enterprise by the City of St. Petersburg. You will need to show proof of your new Occupational License each year, as well as, renew your certification with this agency every two years in order to maintain your certification with the City of St. Petersburg. However, if at anytime the composition of the SBE status of your firm changes you need to complete another SBE affidavit. The City of St. Petersburg Government reserves the right to terminate or cancel this certification at anytime when it is found that the composition of the Organization has changed and no longer meets the definition established for SBE certification.

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA:
Business Name: DAVID A RANCMAN

Receipt #: 315-278531
Business Type: ENGINEER

Owner Name: H2R CORP
Business Location: 1900 NW 40 CT
POMPANO BEACH
Business Phone: 954-972-7570

Business Opened: 08/01/2016
State/County/Cert/Reg: 70413
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		5		

For Vending Business Only
Number of Machines: Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

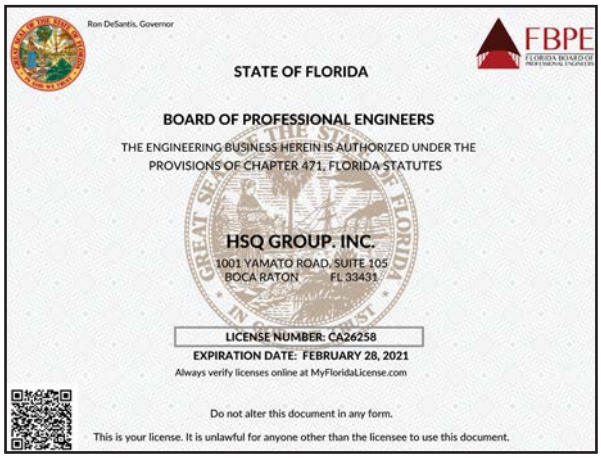
This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
H2R CORP
1900 NW 40 CT
POMPANO BEACH, FL 33064

Receipt #ICP-18-00018340
Paid 09/23/2019 30.00

2019 - 2020

HSQ Group, Inc.



Ron DeSantis, Governor

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HSQ GROUP, INC.
1001 YAMATO ROAD, SUITE 105
BOCA RATON FL 33431

LICENSE NUMBER: CA26258
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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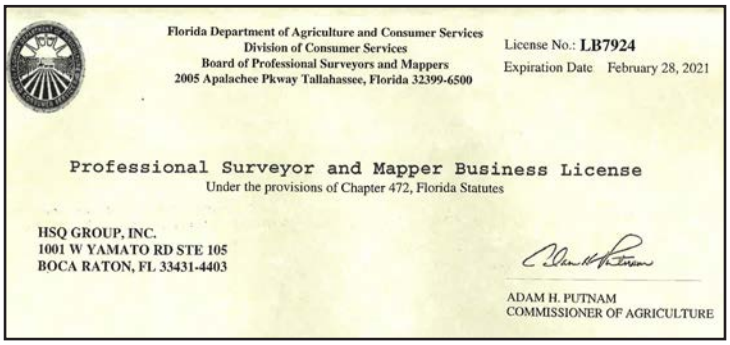


Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LB7924
Expiration Date February 28, 2021

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

HSQ GROUP, INC.
1001 W YAMATO RD STE 105
BOCA RATON, FL 33431-4403

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

BROWARD COUNTY FLORIDA

Office of Economic and Small Business Development

Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

This Certificate is Awarded to:

HSQ GROUP, INC.

As set forth in the Broward County Business Opportunity Act of 2012, the certification requirements have been met for:

County Business Enterprise (CBE)
Anniversary Date: January 27th

Authorized Representative

The Office of Economic and Small Business Development must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.

A Service of the Broward County Board of County Commissioners
www.broward.org/smallbusiness

State of Florida

Minority Business Certification

HSQ GROUP INC.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

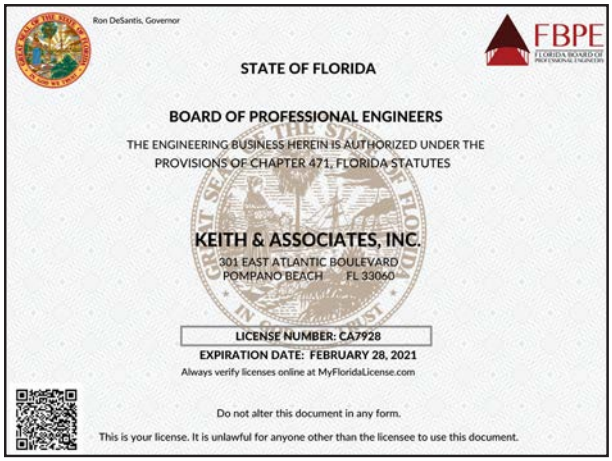
10/10/2019 to 10/10/2021

Jonathan R. Satter, Secretary
Florida Department of Management Services

Department of MANAGEMENT SERVICES
Office of Supplier Diversity

Office of Supplier Diversity
4050 Esplanade Way, Suite 380
Tallahassee, FL 32399
850-487-0915
www.dms.myflorida.com/osd

Keith and Associates, Inc.



Ron DeSantis, Governor

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

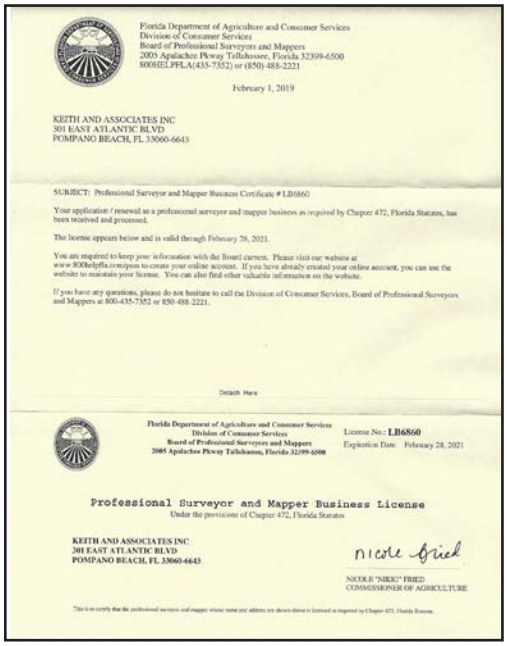
BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

KEITH & ASSOCIATES, INC.
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH FL 33060

LICENSE NUMBER: CA7928
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
8008HELPFLA(435-7352) or (850)-488-2221

February 1, 2019

KEITH AND ASSOCIATES INC
301 EAST ATLANTIC BLVD
POMPANO BEACH, FL 33060-6643

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB6860

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2021.

You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/pbsn to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LB6860
Expiration Date February 28, 2021

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

KEITH AND ASSOCIATES INC
301 EAST ATLANTIC BLVD
POMPANO BEACH, FL 33060-6643

nicole fried

NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Ladkas/Yohhalem Engineering, Inc.

RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

LAKDAS/YOHALEM ENGINEERING INC
2211 NE 54TH ST
FT LAUDERDALE FL 333083226

LICENSE NUMBER: CA5458
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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State of Florida

Minority Business Certification

Lakdas/Yohalem Engineering, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

06/25/2019 to 06/25/2021

Jonathan R. Satter, Secretary
Florida Department of Management Services

office of supplier DIVERSITY

Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.dms.myflorida.com/osd

BROWARD COUNTY FLORIDA

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

October 3, 2019

Mr. Lakdas Nanayakkara
LAKDAS/YOHALEM ENGINEERING, INC
2211 NE 54th Street
Fort Lauderdale, Florida 33308

Dear Mr. Nanayakkara:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's **County Business Enterprise (CBE)** certification has been renewed.

Your firm's certification is continuing from your anniversary date but is contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE program within **thirty (30) days** from your anniversary may result in the expiration of your firm's certification. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over $3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Architecture/Engineering Services.** This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following areas:

NAICS CODE: 541330, 541340, 541350, 541990

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE
ANNIVERSARY DATE: November 7th

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev

BROWARD COUNTY FLORIDA

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

February 10, 2020

Mr. Lakdas Nanayakkara
LAKDAS/YOHALEM ENGINEERING, INC.
2211 NE 54th Street
Fort Lauderdale, Florida 33308

ANNIVERSARY DATE – Annually, on April 26th

Dear Mr. Nanayakkara:

Broward County is pleased to announce **Lakdas/Yohalem Engineering, Inc.** has renewed its certification as a **Disadvantaged Business Enterprise [DBE]** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PART 26.

DBE certification continues from your anniversary date, but is contingent upon Lakdas/Yohalem Engineering, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, ensuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to decertify Lakdas/Yohalem Engineering, Inc. as a DBE.

As long as Lakdas/Yohalem Engineering, Inc. is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of Lakdas/Yohalem Engineering, Inc.

Lakdas/Yohalem Engineering, Inc. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at:
https://fdotxwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch

DBE certification is **NOT** a guarantee of work, but enables Lakdas/Yohalem Engineering, Inc. to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA:
Business Name: LAKDAS YOHOLEM ENGINEERING INC
Receipt #: 315-184819
Business Type: ENGINEER (PROFESSIONAL ENGINEER CORP)

Owner Name: NANAYAKKARA LAKDAS
Business Location: 2211 NE 54 ST FT LAUDERDALE
Business Phone: 771-0630
Business Opened: 12/18/1987
State/County/Cert/Reg: PE0037590
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		5		

For Vending Business Only
Number of Machines: Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
NANAYAKKARA LAKDAS
2211 NE 54 ST
FT LAUDERDALE, FL
33308-0000

Receipt #1CP-18-00010092
Paid 07/16/2019 30.00
07/15/2019 Effective Date

2019 - 2020

Kimley»Horn

Kimley-Horn and Associates, Inc.

Billing Rates

Classification	Billing Rate
Analyst	$135.00
Clerical	$88.00
Principal	$300.00
Professional 1	$151.00
Professional 2	$198.00
Senior Professional 1	$239.00
Senior Professional 2	$273.00
Senior Support Staff	$179.00
Support Staff	$118.00

CUMMINS | CEDERBERG
Coastal & Marine Engineering

CUMMINS CEDERBERG, INC. 2020 RATE SCHEDULE[1]

Title	Hourly Rate
Principal	$250.00
Project Director	$220.00
Senior Project Manager	$180.00
Project Manager	$160.00
Senior Scientist	$160.00
Project Scientist	$130.00
Associate Scientist II	$115.00
Associate Scientist I	$95.00
Senior Engineer	$180.00
Project Engineer	$150.00
Associate Engineer II	$130.00
Associate Engineer I	$115.00
Senior Designer	$120.00
Designer	$100.00
Technician	$75.00
Clerical	$65.00

[1] Rates are subject to change at one-year intervals from date of proposal execution.

Dickey Consulting
Public Relations - Project Management - Strategic Planning - Economic Development
"Sustaining Communities"

P.O. Box 892
Fort Lauderdale, Florida 33302
Ph: 954.467.6822 - Fax: 954.467.7033
sdickey@dickeyinc.com - www.dickeyinc.com

Project Management - Public Relations - Business Development - Strategic Planning - Economic Development

Dickey Consulting Services, Inc
Billing Rates

Title	Rate
Public Outreach Task Principal	$181.47
Public Outreach Project Manager	$87.92
Sr. Project Coordinator	$71.17
Project Coordinator	$64.45
Technician	$54.61
Administrative Assistant	$50.82

Exhibit B Fee Schedule

Electrical Design Associates

BILLING RATE SCHEDULE
FOR
PROFESSIONAL SERVICES

LABOR CLASSIFICATION	BASE RATE	X	MULTIPLIER	=	BILLING RATE
Principal In Company	$ 72.00	x	2.85	=	$ 205.20
Senior Electrical Engineer	$ 60.00	x	2.85	=	$ 171.00
Engineer	$ 50.00	x	2.85	=	$ 142.50
Senior Associate	$ 48.00	x	2.85	=	$ 136.80
Electrical Designer	$ 40.00	x	2.85	=	$ 114.00
CADD Technician	$ 38.00	x	2.85	=	$ 108.30
Clerical/Admin	$ 28.00	x	2.85	=	$ 79.80

The multiplier consists of salary (100%), general overhead (133%), fringe rate (27%) and Profit margin (25%), yielding a multiplier of 2.85.

Signature below certifies that the above Base Rate figures are accurate as of December 31, 2019 and as per the attached. The Billing Rates represent the actual salary costs including Salary, General Overhead, Fringe Benefits, and Profit Margin.

Lillian M. Reyes, P.E. President

December 14, 2020
Date

H2R Corp

Job Classification	Employee	EOM	Rate
Engineer 2	Yves Delmas	Hour	$ 119.35
Engineer 2	Min Ahn	Hour	$ 119.35
Engineering Intern	Roshan Poudel	Hour	$ 81.04
Engineering Intern	Omar Muriel	Hour	$ 81.04
Senior Engineer 1	Thai Ngyuen	Hour	$ 176.82
Senior Engineer 1	David Rancman	Hour	$ 176.82
Geotechnical Technician	Gianfranco Salazar	Hour	$ 67.78
Senior Geotechnical Technician	Johnny Marin	Hour	$ 97.98
Senior Geotechnical Technician	Andres Echeverry	Hour	$ 97.98

Exhibit B Fee Schedule

HSQ GROUP, INC.
Engineers • Planners • Surveyors
1001 Yamato Rd., Ste. 105, Boca Raton, FL 33431
(561) 392-0221 Phone • (561) 392-6458 Fax

December 14, 2020

Dixie McGaffic
KIMLEY-HORN
1920 Wekiva Way, Ste. 200
West Palm Beach, FL 33411
Email: Dixie.McGaffick@kimley-horn.com

Re: City of Pompano Beach: RLI E-20-0: Continuing Contract for Civil Engineering Services for Various City Projects

Dixie:

As requested, below are staff rates and titles for the above referenced project.

Name	Title	Hourly Rate	Multiplier	Loaded Rate
Alberto T. Zuniga, PE	Senior Engineer 2	$37.50	3.00	$112.50
Susan Zhang, PE	Engineering Technician	$40.19	3.00	$120.57
Daniel C. Laak, PSM	SUR Chief Surveyor	$43.27	3.00	$129.81

Please feel free to contact me if you require additional information or assistance at 561-392-0221 x103 or by email at nour@hsqgroup.net.

Thank you,
HSQ Group, Inc.

Nour Shehadeh, PE
Vice President

City of Pompano Beach Continuing Contracts - E-20-20
KEITH - PROFESSIONAL SERVICE FEE SCHEDULE

	Hourly Rate
Project Management	
Project Executive	$250.00
Expert Witness	$350.00
Senior Project Manager	$180.00
Project Manager II	$160.00
Project Manager I	$140.00
Assistant Project Manager	$100.00
Administrative Assistant I	$80.00
Civil / Traffic Engineering	
Senior Traffic Engineer	$175.00
Traffic Engineer	$125.00
Engineer IV	$125.00
Engineer III	$110.00
Engineer II	$100.00
Engineer I	$90.00
Construction Engineering & Inspection (CEI)	
Senior Construction Manager	$180.00
Construction Manager	$150.00
Engineering Inspector III	$125.00
Engineering Inspector II	$100.00
Engineering Inspector I	$90.00
Planning	
Senior Planner	$140.00
Planner II	$120.00
Planner I	$100.00
Landscape Architecture	
Senior Landscape Architect	$150.00
Landscape Architect	$135.00
Arborist	$140.00
Landscape Designer III	$125.00
Landscape Designer II	$100.00
Landscape Designer I	$90.00

City of Pompano Beach Continuing Contracts - E-20-20
KEITH - PROFESSIONAL SERVICE FEE SCHEDULE

Survey / SUE

Chief Surveyor	$175.00
Senior Surveyor & Mapper	$150.00
Project Surveyor II	$125.00
Project Surveyor I	$110.00
Technician	$90.00
Survey Crew IV	$160.00
Survey Crew III	$140.00
Survey Crew II	$120.00
Survey Crew I	$110.00
Survey Static Laser Scanning	$250.00
Survey Drone Photos	$200.00
Survey Terrestrial Mobile LiDAR	Per Project
Chief Utility Coordinator	$160.00
Senior Utility Coordinator	$140.00
Utility Coordinator	$100.00
Subsurface Utility Location Manager	$140.00
Subsurface Utility Field Supervisor	$90.00
Utility Designating/GPR	$200.00
Impervious Coring >8”	$150.00/Each
Vacuum Excavation Test Hole (Pervious Surface)	$350.00/Each
Vacuum Excavation Test Hole (Impervious Surface)	$450.00/Each

EXHIBIT C

INSURANCE REQUIREMENTS

CONSULTANT shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the City's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to City staff responsible for oversight of the subject project/contract.

CONSULTANT is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONSULTANT, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONSULTANT under this Agreement.

Throughout the term of this Agreement, CONSULTANT and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

A. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONSULTANT further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

B. Liability Insurance.

(1) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONSULTANT's negligent acts or omissions in connection with CONSULTANT's performance under this Agreement.

(2) Such Liability insurance shall include the following <u>checked types of insurance</u> and indicated minimum policy limits.

Type of Insurance		Limits of Liability		
GENERAL LIABILITY:		Minimum 1,000,000 Per Occurrence and $1,000,000 Per Aggregate		
* Policy to be written on a claims incurred basis				
XX	comprehensive form	bodily injury and property damage		
XX	premises - operations	bodily injury and property damage		
__	explosion & collapse hazard			
__	underground hazard			
XX	products/completed operations hazard	bodily injury and property damage combined		
XX	contractual insurance	bodily injury and property damage combined		
XX	broad form property damage	bodily injury and property damage combined		
XX	independent contractors	personal injury		
XX	personal injury			
AUTOMOBILE LIABILITY:		Minimum $1,000,000 Per Occurrence and $1,000,000 Per Aggregate. Bodily injury (each person) bodily injury (each accident), property damage, bodily injury and property damage combined.		
XX	comprehensive form			
XX	owned			
XX	hired			
XX	non-owned			
REAL & PERSONAL PROPERTY				
___	comprehensive form	Agent must show proof they have this coverage.		
EXCESS LIABILITY			Per Occurrence	Aggregate
XX	Umbrella and other than umbrella	bodily injury and property damage combined	$2,000,000	$2,000,000
PROFESSIONAL LIABILITY			Per Occurrence	Aggregate
XX	* Policy to be written on a claims made basis		$2,000,000	$2,000,000

(3) If Professional Liability insurance is required, CONSULTANT agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of three (3) years unless terminated sooner by the applicable statute of limitations.

C. Employer's Liability. If required by law, CONSULTANT and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability

Insurance in the minimum amount of One Hundred Thousand Dollars ($100,000.00) per employee, Five Hundred Thousand Dollars ($500,000) per aggregate.

D. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONSULTANT, the CONSULTANT shall promptly provide the following:

(1) Certificates of Insurance evidencing the required coverage;

(2) Names and addresses of companies providing coverage;

(3) Effective and expiration dates of policies; and

(4) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

E. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

F. Waiver of Subrogation. CONSULTANT hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONSULTANT shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.

Client#: 25320 KIMLHORN

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 4/10/2020

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

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

PRODUCER
Greyling Ins. Brokerage/EPIC
3780 Mansell Road, Suite 370
Alpharetta, GA 30022

CONTACT NAME: Jerry Noyola
PHONE (A/C, No, Ext): 770-552-4225 **FAX (A/C, No):** 866-550-4082
E-MAIL ADDRESS: jerry.noyola@greyling.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : National Union Fire Ins. Co.	19445
INSURER B : Aspen American Insurance Company	43460
INSURER C : New Hampshire Ins. Co.	23841
INSURER D : Lloyds of London	085202
INSURER E :	
INSURER F :	

INSURED
Kimley-Horn and Associates, Inc.
421 Fayetteville Street, Suite 600
Raleigh, NC 27601

COVERAGES **CERTIFICATE NUMBER: 20-21** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE / X OCCUR X Contractual Liab GEN'L AGGREGATE LIMIT APPLIES PER: POLICY / X PRO-JECT / X LOC OTHER:			5268169	04/01/2020	04/01/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$1,000,000 $500,000 $25,000 $1,000,000 $2,000,000 $2,000,000 $
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY			4489663	04/01/2020	04/01/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$2,000,000 $ $ $ $
B	UMBRELLA LIAB / X OCCUR X EXCESS LIAB / CLAIMS-MADE DED / X RETENTION $0			CX005FT20	04/01/2020	04/01/2021	EACH OCCURRENCE AGGREGATE $	$5,000,000 $5,000,000 $
C A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		015893685 (AOS) 015893686 (CA)	04/01/2020 04/01/2020	04/01/2021 04/01/2021	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
D	Professional Liab			B0146LDUSA2004949	04/01/2020	04/01/2021	Per Claim $2,000,000 Aggregate $2,000,000	

APPROVED
By Danielle Thorpe at 10:25 am, Apr 13, 2020

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

Re: Job #0409850xx; Professional Engineering & Related Services for an Update for the Pompano Beach Airpark Master Plan; L-60-16; Kevin Clarke. The City of Pompano Beach is named as an Additional Insured with respects to General Liability where required by written contract. Should any of the above described policies be cancelled by the issuing insurer before the expiration date thereof, 30 days' written notice (except 10 days for nonpayment of premium) will be provided to the Certificate Holder.

CERTIFICATE HOLDER

City of Pompano Beach
Risk Manager
1201 NE 5th Avenue
Pompano Beach, FL 33060-0000

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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