AGREEMENT

between

City of Fort Lauderdale

and

CRAVEN THOMPSON AND ASSOCIATES, INC.

for

CIVIL ENGINEERING SERVICES

RFQ No. 12637-421

AGREEMENT

THIS IS AN AGREEMENT made and entered into this ___day of _____, 2023, by and between:

CITY OF FORT LAUDERDALE, a Florida municipality, (hereinafter referred to as "CITY")

and

Craven Thompson & Associates, Inc. a, Florida corporation authorized to transact business in the State of Florida (hereinafter referred to as "CONSULTANT")

WHEREAS, the City Commission of the City of Fort Lauderdale, Florida at its meeting of February 21, 2023 authorized by motion the execution of this Agreement between CONSULTANT and CITY authorizing the performance of Civil Engineering Services, RFQ No. 12637-421, incorporated herein, (the "Agreement"); and

WHEREAS, the CONSULTANT is willing and able to render professional services for the compensation and on the terms hereinafter set forth;

NOW, THEREFORE, in consideration of the mutual covenants, agreements, terms, and conditions contained herein, the Parties hereto, do agree as follows:

ARTICLE 1
DEFINITIONS AND IDENTIFICATIONS

For the purposes of this Agreement and the various covenants, conditions, terms and provisions which follow, the DEFINITIONS and IDENTIFICATIONS set forth below are assumed to be true and correct and are therefore agreed upon by the Parties.

1.1 AGREEMENT: Means this document between the CITY and CONSULTANT dated _____, and any duly authorized and executed Amendments to Agreement.

1.2 BASIC SERVICES: Services performed by CONSULTANT for authorized scope of work for the Project phase described in this Agreement and listed in Exhibit "A," Scope of Services.

1.3 CHANGE ORDER: A written order, executed by both Parties, to the CONSULTANT and approved by the CITY, authorizing a revision of this Agreement between the CITY and CONSULTANT that is directly related to the original scope of work or an adjustment in the original contract price or the contract time directly related to the original scope of work, executed on or

after the effective date of this Agreement.

1.4 CITY: The City of Fort Lauderdale, a Florida municipality.

1.5 CITY MANAGER: The City Manager of the City of Fort Lauderdale, Florida.

1.6 COMMISSION: The City Commission of the City of Fort Lauderdale, Florida, which is the governing body of the CITY government.

1.7 CONSTRUCTION DOCUMENTS: Those working drawings and specifications and other writings setting forth in detail and prescribing the work to be done, the materials, workmanship and other requirements for construction of the entire Project, including any bidding information.

1.8 CONSULTANT: Craven Thompson & Associates, Inc., the CONSULTANT selected to perform professional services pursuant to this Agreement.

1.9 CONTRACT ADMINISTRATOR: The Public Works Director for the City of Fort Lauderdale, or his or her designee. In the administration of this Agreement, as contrasted with matters of policy, all parties may rely upon instructions or determinations made by the Contract Administrator, made within the scope of his/her authority.

1.10 CONTRACTOR: One or more individuals, firms, corporations or other entities identified as such by a written agreement with CITY ("Contract for Construction") to perform the construction services required to complete the Project.

1.11 DEPARTMENT DIRECTOR: The Director of the Public Works Department for the City of Fort Lauderdale.

1.12 ERROR: A mistake in design, plans and/or specifications that incorporates into those documents an element that is incorrect and is deficient from the standard of care that a professional engineer in similar circumstances, working on a similar project and location would have exercised. Also includes mistakes in design, plans, specifications and/or shop drawings review that lead to materials and/or equipment being ordered and/or delivered where additional costs are incurred.

1.13 NOTICE TO PROCEED: A written Notice to Proceed with the Project issued by the Contract Administrator.

1.14 OMISSION: A scope of work missed by CONSULTANT that is necessary for the Project, including a quantity miscalculation, which was later discovered and added by Change Order and which is deficient from the standard of care that a professional engineer in similar circumstances, working on a similar project and location would have exercised. Also includes design that was wrong, but was corrected after award to the Contractor, but before the construction process was materially affected.

1.15 PLANS AND SPECIFICATIONS: The documents setting forth the final design plans and specifications of the Project, including architectural, civil, structural, mechanical, electrical, communications and security systems, materials, lighting equipment, site and landscape design, and other essentials as may be appropriate, all as approved by CITY as provided in this Agreement.

1.16 PROJECT: The Civil Engineering Consultant Services set forth in a specific Task Order's scope of work. The services to be provided by CONSULTANT shall be as defined in this Agreement and further detailed in Task Orders for individual projects or combinations of projects. The Project planning, design and construction may occur in separate phases and Task Orders at the CITY'S discretion.

1.17 SPECIFICATIONS: The specifications referred to in this Agreement are the CONSTRUCTION STANDARDS AND SPECIFICATIONS, Office of the City Engineer, City of Fort Lauderdale, January 1982, including any revisions.

1.18 TASK ORDER: A document setting forth a negotiated detailed scope of services to be performed by CONSULTANT at fixed contract prices in accordance with this Agreement between the CITY and CONSULTANT.

1.19 TIME OF COMPLETION: Time in which the entire work shall be completed for each Task Order.

ARTICLE 2
PREAMBLE

In order to establish the background, context and frame of reference for this Agreement and to generally express the objectives and intentions of the respective Parties hereto, the following statements, representations and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions of this Agreement which follow and may be relied upon by the Parties as essential elements of the mutual considerations upon which this Agreement is based.

2.1 Pursuant to Section 287.055, Florida Statutes (2022), CITY has formed a Committee to evaluate CONSULTANT'S statement of qualifications and performance data to ensure that CONSULTANT has met the requirements of the Consultants' Competitive Negotiation Act, as set forth in Section 287.055, Florida Statutes (2022), and has selected CONSULTANT to perform services hereunder.

ARTICLE 3
SCOPE OF SERVICES

3.1 The CONSULTANT shall perform the following professional services: civil engineering services as more specifically described in Exhibit "A," Scope of Services, attached hereto and incorporated herein, and shall include, but not be

limited to, services as applicable and authorized by individual Task Orders for the individual projects in accordance with Article 6 herein. CONSULTANT shall provide all services set forth in Exhibit "A" including all necessary, incidental and related activities and services required by the Scope of Services and contemplated in CONSULTANT'S level of effort. CONSULTANT will perform the Services in accordance with standard industry practices, with the care, knowledge and skill expected of similar engineering firms. No other warranties, express or implied are made or intended.

3.2 CITY and CONSULTANT acknowledge that the Scope of Services does not delineate every detail and minor work tasks required to be performed by CONSULTANT to complete the Project. If, during the course of the performance of the services included in this Agreement, CONSULTANT determines that work should be performed to complete the Project, which is in CONSULTANT's opinion, outside the level of effort originally anticipated, whether or not the Scope of Services identifies the work items, CONSULTANT shall notify Contract Administrator and obtain written approval by the Contract Administrator before proceeding with the work. Notice to Contract Administrator does not constitute authorization or approval by CITY to perform the work. The CITY shall not pay for any work that is not approved by the Contract Administrator in writing. If CONSULTANT proceeds with said work without notifying the Contract Administrator, said work shall be deemed to be within the original level of effort, whether specifically addressed in the Scope of Services. Notice to Contract Administrator does not constitute authorization or approval by CITY to perform the work. Performance of work by CONSULTANT without prior written City approval is at CONSULTANT's sole risk.

ARTICLE 4
GENERAL PROVISIONS

4.1 Negotiations pertaining to the rates for professional services to be performed by CONSULTANT have been undertaken between CONSULTANT and CITY representatives pursuant to Section 287.055, Florida Statutes, and this Agreement incorporates the results of such negotiation.

4.2 CONSULTANT shall include CITY'S specific Task Order number as part of the heading on all correspondence, invoices and drawings. All correspondence shall be directed specifically to the Contract Administrator.

ARTICLE 5
PRIORITY OF PROVISIONS

5.1 The Contract Documents are intended to include all items necessary for the proper execution and completion of the Work by CONSULTANT. Any labor, services, materials, supplies, equipment or documentation that may reasonably be inferred from the Contract Documents or trade usage from prevailing custom as being required to produce the indicated result will be provided whether or not specifically

called for, at no additional cost to CITY. The Contract Documents are complementary, and wherever possible the provisions of the Contract Documents shall be construed in such manner as to avoid conflicts between provisions of the various Contract Documents. In the event of any inconsistency in the Contract Documents, where such inconsistency is not clarified by change order, addendum or amendment, the Contract Documents shall be construed according to the following priorities:

First priority: Approved Change Orders, Addendums or Amendments to all related documents.

Second priority: Specifications (quality) and Drawings (location and quantity) of CONSULTANT.

Third priority: This Agreement.

Fourth priority: City of Fort Lauderdale Request for Qualifications #12637-421.

Fifth priority: CONSULTANT'S response to City of Fort Lauderdale Request for Qualifications #12637-421.

5.2 Anything shown on the drawings and not mentioned in the specifications or mentioned in the specifications and now shown on the drawings, shall have the same effect as if shown or mentioned respectively in both. In the event of a conflict among the Contract Documents, the latest, most stringent, and more technical requirement(s), including, but not limited to, issues of quantities or cost of the Work shall control.

Reference to standard specifications, manuals, rules, regulations, ordinances, laws or codes of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, rule, regulation, ordinance, law or code in effect at the time of permit submittal.

ARTICLE 6
TASK ORDERS

6.1 The Project will be divided into "Tasks."

6.2 Task Orders shall be jointly prepared by the CITY and CONSULTANT defining the detailed scope of services to be provided for the particular Project. Each Task Order shall be separately numbered and approved in accordance with this Agreement and all applicable CITY code requirements.

6.3 Under all Task Orders and Projects, CITY may require the CONSULTANT, by specific written authorization, and for mutually agreed upon additional compensation, to provide or assist in obtaining one or more of the following special services. These services may include, at the discretion of the CITY, the following items:

6.3.1 Providing additional copies of reports, contract drawings and documents; and

6.3.2 Assisting CITY with litigation support services arising from the planning, development, or construction.

6.4 Prior to initiating the performance of any services under this Agreement, CONSULTANT must receive a written Notice to Proceed / Purchase Order from the CITY. The CONSULTANT must receive the approval of the Contract Administrator or his designee in writing prior to beginning the performance of services in any subsequent Task Order under this Agreement.

6.5 If, in the opinion of the CITY, the CONSULTANT is improperly performing the services under a specific Task Order, or if at any time the CITY shall be of the opinion that said Task Order is being unnecessarily delayed and will not be completed within the agreed upon time, the CITY shall notify the CONSULTANT in writing. The CONSULTANT has within ten (10) working days thereafter to take such measures as will, in the judgment of the CITY, ensure satisfactory performance and completion of the Task Order. If the CONSULTANT fails to cure within the ten (10) working days, the CITY may notify the CONSULTANT to discontinue all work under the specified Task Order. The CONSULTANT shall immediately respect said notice and stop said work and cease to have any rights in the possession of the work and shall forfeit the Task Order and any remaining monies. The CITY may then decide, after City Commission approval, to issue a new Task Order for the uncompleted work to another consultant using the remaining funds. Any excess costs arising therefrom over and above the original Task Order price shall be charged against CONSULTANT, as the original CONSULTANT.

ARTICLE 7
TERM OF AGREEMENT; TIME FOR PERFORMANCE

7.1 The initial Agreement term shall commence upon final execution of the Agreement by the City and shall expire two (2) years from that date. The City reserves the right to extend the Agreement for two (2) additional two (2) year terms providing all terms conditions and specifications remain the same, both Parties agree to the extension, and such extension is approved by the City.

7.2 CONSULTANT shall perform the services described in Task Orders within the time periods specified in the Task Order. Said time periods shall commence from the date of the Notice to Proceed for such services.

7.3 Prior to beginning the performance of any services under this Agreement, CONSULTANT must receive a Notice to Proceed. CONSULTANT must receive written approval from the Contract Administrator prior to beginning the performance of services in any subsequent phases of the Agreement. Prior to granting approval for CONSULTANT to proceed to a subsequent phase, the

Contract Administrator may, at his or her sole option, require CONSULTANT to submit itemized deliverables/documents for the Contract Administrator's review.

7.4 In the event CONSULTANT is unable to complete any services because of delays resulting from untimely review by CITY or other governmental authorities having jurisdiction over the Project, and such delays are not the fault of CONSULTANT, or because of delays which were caused by factors outside the control of CONSULTANT, CITY shall grant a reasonable extension of time for completion of the services. It shall be the responsibility of the CONSULTANT to notify CITY promptly in writing whenever a delay in approval by a governmental agency is anticipated or experienced, and to inform CITY of all facts and details related to the delay.

7.5 The time for the performance of services described in assigned Task Orders shall be negotiated by the CITY and the CONSULTANT as the services are requested and authorized by the CITY.

ARTICLE 8
COMPENSATION AND METHOD OF PAYMENT

8.1 AMOUNT AND METHOD OF COMPENSATION

8.1.1 Not To Exceed Amount Compensation

CITY agrees to pay CONSULTANT as compensation for performance of all services as related to each Task Order under the terms of this Agreement a Not to Exceed Amount as agreed upon per Task Order. This compensation does not include Reimbursables as described in Section 8.2. It is agreed that the method of compensation is that of "Not to Exceed Amount" which means that CONSULTANT shall perform all services set forth in each Task Order for total compensation in the amount of or less than that stated total. The hourly rate-billing schedule to be used in negotiating each Task Order is attached as Exhibit "B" to this Agreement. As described in Section 9.1, no modification, amendment, or alteration to Exhibit "B" shall be effective unless contained in a written document prepared with the same formality as this Agreement and executed by the CITY and CONSULTANT.

A not to exceed proposal shall be accompanied by the CONSULTANT'S estimate. The estimate shall detail the direct labor costs by categories of employees, work hours, and hourly rate; overhead; direct non-salary expenses including reimbursables; and profit, or as required by individual Task Order.

8.2 REIMBURSABLES

8.2.1 Direct non-salary expenses, entitled Reimbursables, directly attributable to the Project will be charged at actual cost. Reimbursable expenses are in addition to the compensation for basic services and include actual expenditures made by the CONSULTANT and the CONSULTANT'S

employees directly attributable to the Project and will be charged at actual cost, without reference to the professional service fees above. CITY shall not withhold retainage from payments for Reimbursable Expenses. CONSULTANT shall be compensated for Reimbursables associated with a particular Task Order only up to the amount allocated for such Task Order. Any reimbursable or portion thereof which, when added to the Reimbursables related to a particular Task Order previously billed, exceeds the amount allocated for such Task Order shall be the responsibility of the CONSULTANT unless otherwise agreed to in writing by the Contract Administrator. Travel and subsistence expenses for the CONSULTANT, his staff and subconsultants and communication expenses, long distance telephone, courier and express mail between CONSULTANT's and subconsultants' various offices are not reimbursable under this Agreement. Reimbursables shall include only the following listed expenses unless authorized in writing by the Contract Administrator:

A. Cost of reproduction, postage and handling of drawings and specifications which are required to deliver services set forth in this Agreement, excluding reproductions for the office use of the CONSULTANT. Reimbursable printing and photocopying expenses shall include only those prints or photocopies of original documents which are (i) exchanged among CONSULTANT, CITY and other third parties retained or employed by any of them or (ii) submitted to CITY for review, approval or further distribution. Documents, which are reproduced for CONSULTANT'S internal drafts, reviews, or other purposes, are not eligible for reimbursement.

B. Identifiable testing costs and special inspections approved by Contract Administrator.

C. All permit fees paid to regulatory agencies for approvals directly attributable to the Project. These permit fees do not include those permits required for the construction Contractor.

D. Overnight Delivery/Courier Charges (when CITY requires/requests this service).

8.2.2 Reimbursable subconsultant expenses are limited to the items described above when the subconsultant agreement provides for reimbursable expenses. A detailed statement of expenses must accompany any request for reimbursement. Local travel to and from the Project site or within the Tri-County Area will not be reimbursed.

8.2.3 It is acknowledged and agreed to by CONSULTANT that the dollar limitation set forth in each Task Order is a limitation upon, and describes the maximum extent of CITY's obligation to reimburse CONSULTANT for direct, non-salary expenses, but does not constitute a limitation, of any sort, upon CONSULTANT'S obligation to incur such expenses in the performance of services hereunder. If CITY or Contract Administrator requests

CONSULTANT to incur expenses not contemplated in the amount for Reimbursables, CONSULTANT shall notify Contract Administrator in writing before incurring such expenses. Any such expenses shall be reviewed and approved by CITY prior to incurring such expenses.

8.3 METHOD OF BILLING

8.3.1 Not To Exceed Amount Compensation

CONSULTANT shall submit billings, which are identified by the specific project number on a monthly basis in a timely manner for all salary costs and Reimbursables attributable to the Project. These billings shall identify the nature of the work performed for each phase, subtask, deliverable and item identified in the Exhibit "A" Scope of Services or Task Order, the total hours of work performed and the employee category of the individuals performing same. The statement shall show a summary of salary costs with accrual of the total and credits for portions paid previously. Subconsultant fees must be documented by copies of invoices or receipts, which describe the nature of the expenses and contain a project number or other identifier, which clearly indicates the expense, as identifiable to the Project. Except for meals and travel expenses, it shall be deemed unacceptable for the CONSULTANT to modify the invoice or receipt by adding a project number or other identifier. Internal expenses must be documented by appropriate CONSULTANT'S cost accounting forms with a summary of charges by category. When requested, CONSULTANT shall provide backup for past and current invoices that records hours and salary costs by employee category and subconsultant fees on a task basis, so that total hours and costs by task may be determined.

8.4 METHOD OF PAYMENT

8.4.1 CITY shall pay CONSULTANT in accordance with the Florida Prompt Payment Act. To be deemed proper, all invoices must comply with the requirements set forth in this Agreement and must be submitted on the form and pursuant to instructions prescribed by Contract Administrator.

8.4.2 CITY will review CONSULTANT'S invoices and, if inaccuracies or errors are discovered in said invoice, CITY will inform CONSULTANT within ten (10) working days by fax and/or by email of such inaccuracies or errors and request that revised copies of all such documents be re-submitted by CONSULTANT to CITY.

8.4.3 Payments are scheduled to be made by CITY to CONSULTANT using a credit card/CITY Procurement Card (P-Card).

8.4.4 Payment will be made to CONSULTANT at:

110 East Broward Blvd., Suite 700
Fort Lauderdale, FL 33301

ARTICLE 9
AMENDMENTS AND CHANGES IN SCOPE OF SERVICES

9.1 No modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written Amendment prepared with the same formality as this Agreement and executed by the CITY and CONSULTANT.

9.2 CITY or CONSULTANT may request changes that would increase, decrease, or otherwise modify the Scope of Services to be provided under a Task Order. Such changes must be contained in a written amendment, executed by the Parties hereto, with the same formality and of equal dignity herewith, prior to any deviation from the terms of the Task Order including the initiation of any additional services. CITY shall compensate CONSULTANT for such additional services as provided in Article 8.

9.3 In the event a dispute between the Contract Administrator and CONSULTANT arises over whether requested services constitute additional services and such dispute cannot be resolved by the Contract Administrator and GONSULTANT, such dispute shall be promptly presented to the City Manager for resolution. The City Manager's decision shall be final and binding on the Parties for amounts in the aggregate under $100,000. In the event of a dispute in an amount over $100,000, the Parties agree to use their best efforts to settle such dispute. To this effect, they shall consult and negotiate with each other, in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both Parties. If they do not reach such solution within a period of sixty (60) days, then upon notice to the other, either Party may commence litigation to resolve the dispute in Broward County, Florida. Any resolution shall be set forth in a written document in accordance with Section 9.2 above. During the pendency of any dispute, CONSULTANT shall continue to perform the disputed services.

ARTICLE 10
CONSULTANT'S RESPONSIBILITIES

10.1 The CONSULTANT, following the CITY'S approval of the Construction Documents and of the Final Statement of Probable Construction Costs, shall, when so directed and authorized by the CITY, assist the CITY in estimating construction costs, reviewing proposals, and assist in awarding agreements for construction. If requested, CONSULTANT shall review and analyze the proposals received by the CITY and shall make a recommendation for any award based on the City of Fort Lauderdale Procurement Ordinance.

10.2 Estimates, opinions of probable construction or implementation costs, financial evaluations, feasibility studies or economic analyses prepared by CONSULTANT will represent its best judgment based on its experience and available

information. The CITY recognizes that CONSULTANT has no control over costs of labor, materials, equipment or services furnished by others or over market conditions or CONSULTANT's methods of determining prices, and that any evaluation of a facility to be constructed or work to be performed is speculative. Accordingly, CONSULTANT does not guarantee that proposals, bids or actual costs will not vary from opinions, evaluations or studies submitted by CONSULTANT.

10.3 Should the lowest responsible, responsive proposal exceed the Final Statement of Probable Construction Costs by 10% or more, CONSULTANT shall, at the CITY'S direction, redesign each Project and/or work with the CITY to reduce the costs to within the Final Statement of Probable Construction Costs at no additional expense to the CITY. In such a circumstance, the CITY may at its sole discretion, exercise any one or more of the following options:

- CONSULTANT shall be required to amend at the sole cost and expense of CONSULTANT, the Construction Drawings, Technical Specifications and Supplemental Conditions to enable the project to conform to a maximum of ten (10%) above the Estimated Construction Costs of the project, such amendments to be subject to the written final acceptance and approval of same by the CITY;
- CONSULTANT shall be required to provide at the cost and expense of CONSULTANT, re-bidding services and related items (including costs associated with regulatory review and approval of revised documents) as many times as requested by the CITY until the base bid of at least one "best value" bid falls within the factor of ten (10%) of the Estimated Construction Cost of the project;
- The CITY may approve an increase in the Estimated Construction Cost of the Project;
- The CITY may reject all bids or proposals and may authorize re-bidding;
- The CITY may if permitted, approve a renegotiation of the Project within a reasonable time;
- The CITY may abandon the Project and terminate CONSULTANT'S work authorization and Services for the Project; or
- The CITY may select as many deductive alternatives as may be necessary to bring the award within ten percent (10%) of the Estimated Construction Costs of the Project.

It is expressly understood and agreed that the redesigning services required to keep the Project within 10% of the Estimated Construction Cost shall not be considered additional services and CONSULTANT agrees that it shall not seek compensation from the CITY for such Services.

10.4 The CONSULTANT may be requested to provide the CITY with a list of recommended, prospective proposers.

10.5 The CONSULTANT may be asked to attend all pre-bid / proposal conferences.

10.6 The CONSULTANT shall recommend any addenda, through the Contract Administrator, as appropriate to clarify, correct, or change proposal /bid documents.

10.7 If pre-qualification of proposers is required as set forth in the request for proposal, CONSULTANT shall assist the CITY, if requested, in developing qualification criteria, review qualifications and recommend acceptance or rejection of the proposers. If requested, CONSULTANT shall evaluate proposals and proposers, and make recommendations regarding any award by the CITY.

10.8 The CITY shall make decisions on claims regarding interpretation of the Construction Documents, and on other matters relating to the execution and progress of the work after receiving a recommendation from CONSULTANT. CONSULTANT may also assist in approving progress payments to the Contractor based on each Project Schedule of Values and the percentage of work completed.

10.9 The CITY shall maintain a record of all Change Orders which shall be categorized according to the various types, causes, etc. that it may be determined are useful or necessary for its purpose. Among those shall be Change Orders identified as architectural/engineering Errors or Omissions.

10.9.1 Unless otherwise agreed by both Parties in writing, it is specifically agreed that any change to the work identified as an Error on the part of CONSULTANT shall be considered for purposes of this Agreement to be an additional cost to the CITY which would not be incurred without the Error. Errors on the part of the CONSULTANT shall be rectified by the CONSULTANT with no additional cost to the CITY.

10.9.2 Unless otherwise agreed by both Parties in writing, it is further specifically agreed for purposes of this Agreement that fifteen percent (15%) of the cost of Change Orders for any item categorized as an Omission shall be considered an additional cost to the CITY which would not be incurred without the Omission. So long as the total of those two numbers (Change Order costs of Errors plus fifteen percent (15%) of Omissions) remains less than two percent (2%) of the total Construction Cost of the Project, the CITY shall not look to CONSULTANT for reimbursement for Errors and Omissions.

10.9.3 Should the sum of the two as defined above (cost of Errors plus fifteen percent (15%) of the cost of Omissions) exceed two percent (2%) of the Construction Cost, the CITY shall recover the full and total additional cost to the CITY as a result of CONSULTANT'S Errors and Omissions from CONSULTANT, that being defined as the cost of Errors plus fifteen percent (15%) of the cost of Omissions above two percent (2%) of the Construction Cost.

10.9.4 To obtain such recovery, the CITY shall deduct from CONSULTANT'S fee a sufficient amount to recover all such additional cost to the CITY.

10.9.5 In executing this Agreement, CONSULTANT acknowledges acceptance of these calculations and to the CITY'S right to recover same as stated above. The recovery of additional costs to the CITY under this paragraph shall not limit or preclude recovery for other separate and/or additional damages which the CITY may otherwise incur.

10.9.6 10.9.6 The Contract Administrator's decision as to whether a Change Order is caused by an Error or caused by an Omission, taking into consideration industry standards, shall be final and binding on both Parties for amounts in the aggregate under $100,000 per project, subject to Section 9.3. In the event of a dispute in an amount over $100,000, the Parties agree to use their best efforts to settle such dispute. To this effect, they shall consult and negotiate with each other, in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both Parties. If they do not reach such solution within a period of sixty (60) days, then upon notice to the other, either Party may commence litigation to resolve the dispute in Broward County, Florida.

ARTICLE 11
CITY'S RESPONSIBILITIES

11.1 CITY shall assist CONSULTANT by placing at CONSULTANT's disposal, all information CITY has available pertinent to the Project including previous reports and any other data relative to design or construction of the Project.

11.2 CITY shall arrange for access to, and make all provisions for, CONSULTANT to enter upon public and private property as required for CONSULTANT to perform its services.

11.3 CITY shall review the itemized deliverables/documents identified per Task Order.

11.4 CITY shall give prompt written notice to CONSULTANT whenever CITY observes or otherwise becomes aware of any development that affects the scope or timing of CONSULTANT'S services or any defect in the work of the Contractor.

ARTICLE 12
MISCELLANEOUS

12.1 OWNERSHIP OF DOCUMENTS

All documents including, but not limited to, drawings, renderings, models, and

specifications prepared or furnished by CONSULTANT, its dependent professional associates and consultants, pursuant to this Agreement shall be owned by the CITY.

Drawings, specifications, designs, models, photographs, reports, surveys and other data prepared in connection with this Agreement are and shall remain the property of the CITY whether the Project for which they are made is executed or not, and are subject to reuse by the CITY in accordance with Section 287.055(10), Florida Statutes (2022). They are not intended or represented to be suitable for reuse by the CITY or others on extensions of this Project or on any other project without appropriate verification or adaptation. Any reuse, except for the specific purpose intended hereunder, will be at the CITY's sole risk and without liability or legal exposure to CONSULTANT or its subcontractors. This does not, however, relieve CONSULTANT of liability or legal exposure for errors, omissions, or negligent acts made on the part of CONSULTANT in connection with the proper use of documents prepared under this Agreement. Any such verification or adaptation may entitle C O N S U L T A N T to further compensation at rates to be agreed upon by the CITY and CONSULTANT. This shall not limit the CITY'S reuse of preliminary or developmental plans or ideas incorporated therein, should the Project be suspended or terminated prior to completion.

12.2 TERMINATION

12.2.1 Termination for Cause. It is expressly understood and agreed that the CITY may terminate this Agreement at any time for cause in the event that the CONSULTANT (1) violates any provisions of this Agreement or performs same in bad faith or (2) unreasonably delays the performance of the services or does not perform the services in a timely and satisfactory manner upon written notice to the CONSULTANT. Notice of termination shall be provided in accordance with Section 12.27. In the case of termination by the CITY for cause, the CONSULTANT shall be first granted a 10-working day cure period after receipt of written notice from the CITY. In the event that the Agreement is terminated, the CONSULTANT shall be entitled to be compensated for the services rendered and accepted by the CITY from the date of execution of the Agreement up to the time of termination. Such compensation shall be based on the fee as set forth above, wherever possible. For those portions of services rendered to which the applicable fee cannot be applied, payment shall be based upon the appropriate rates for the actual time spent on the Project. In the event that the CONSULTANT abandons this Agreement or through violation of any of the terms and conditions of this Agreement, causes it to be terminated, CONSULTANT shall indemnify the CITY against any and all loss pertaining to this termination.

All finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs and reports prepared by CONSULTANT shall become the property of CITY and shall be delivered by CONSULTANT to

the CITY within five (5) days of CITY's request. Upon payment of such sum by CITY to CONSULTANT, CITY shall have no further duties or obligations pursuant to or arising from this Agreement.

12.2.2 This Agreement may also be terminated by CITY upon such notice as CITY deems appropriate in the event CITY or Contract Administrator determines that termination is necessary to protect the public health, safety, or welfare.

12.2.3 Notice of termination shall be provided in accordance with Section 12.26, NOTICES, except that Contract Administrator may provide a prior verbal stop work order if the Contract Administrator deems a stop work order of this Agreement in whole or in part is necessary to protect the public's health, safety, or welfare. A verbal stop work order shall be promptly confirmed in writing as set forth in Section 12.26, NOTICES.

12.2.4 Termination for Convenience. In the event this Agreement is terminated for convenience, CONSULTANT shall be paid for any services performed and accepted by the CITY to the date the Agreement is terminated. Compensation shall be withheld until all documents specified in Section 11.3 of this Agreement are provided to the CITY. Upon being notified of CITY'S election to terminate, CONSULTANT shall refrain from performing further services or incurring additional expenses under the terms of this Agreement. Under no circumstances shall CITY make payment for services which have not been performed or not accepted.

12.2.5 Termination by Consultant. CONSULTANT shall have the right to terminate this Agreement only based upon breach by the CITY of its obligation under this Agreement as to unreasonable delay in payment or non-payment of undisputed amounts. CONSULTANT shall have no right to terminate this Agreement for convenience of the CONSULTANT.

12.3 AUDIT RIGHT AND RETENTION OF RECORDS

CITY shall have the right to audit the books, records, and accounts of CONSULTANT that are related to this Project. CONSULTANT shall keep such books, records, and accounts as may be necessary in order to record complete and correct entries related to the Project.

CONSULTANT shall preserve and make available, at reasonable times and upon prior written notice for examination and audit by CITY all financial records, supporting documents, statistical records, and any other documents pertinent to this Agreement for the required retention period of the Florida Public Records Act (Chapter 119, Florida Statutes), if applicable, or, if the Florida Public Records Act is not applicable, for a minimum of three (3) years after termination of this Agreement. If any audit has been initiated and audit findings have not been resolved at the end of the retention period or three (3) years, whichever is longer,

the books, records, and accounts shall be retained until resolution of the audit findings. If the Florida Public Records Act is determined by CITY to be applicable to CONSULTANT'S records, CONSULTANT shall comply with all requirements thereof; however, no confidentiality or non-disclosure requirement of either federal or state law shall be violated by CONSULTANT. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for CITY'S disallowance and recovery of any payment upon such entry.

12.4 NON-DISCRIMINATION, EQUAL EMPLOYMENT OPPORTUNITY, AND AMERICANS WITH DISABILITIES ACT

CONSULTANT shall not unlawfully discriminate against any person in its operations and activities in its use or expenditure of the funds or any portion of the funds provided by this Agreement and shall affirmatively comply with all applicable provisions of the Americans with Disabilities Act (ADA) in the course of providing any services funded in whole or in part by CITY, including Titles I and II of the ADA (regarding nondiscrimination or the basis of disability), and all applicable regulations, guidelines, and standards.

CONSULTANT'S decisions regarding the delivery of services under this Agreement shall be made without regard to or consideration of race, age, religion, color, gender, sexual orientation, national origin, marital status, physical or mental disability, political affiliation, or any other factor which cannot be lawfully or appropriately used as a basis for service delivery.

CONSULTANT shall comply with Title I of the Americans with Disabilities Act regarding nondiscrimination on the basis of disability in employment and further shall not discriminate against any employee or applicant for employment because of race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability. In addition, CONSULTANT shall take affirmative steps to ensure nondiscrimination in employment against disabled persons. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship), and accessibility.

CONSULTANT shall take affirmative action to ensure that applicants are employed, and employees are treated without regard to race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability during employment. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship), and accessibility.

12.5 MINORITY AND DISADVANTAGED PARTICIPATION

Historically, the CITY has been able to achieve participation levels of approximately twelve percent (12%) by MBE/WBE firms in CITY projects, and in the purchase of goods and services. The CONSULTANT shall make a good faith effort to help the CITY maintain and encourage MBE/WBE participation levels consistent with such historical levels and market conditions. The CONSULTANT will be required to document all such efforts and supply the CITY with this documentation at the end of the Project, or in cases where projects are longer than one year, each CITY fiscal year.

12.6 PUBLIC ENTITY CRIMES ACT

In accordance with the Public Crimes Act, Section 287.133, Florida Statutes, a person or affiliate who is a contractor, consultant or other provider, who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to the City, may not submit a bid on a contract with the City for the construction or repair of a public building or public work, may not submit bids on leases of real property to the City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with the City, and may not transact any business with the City in excess of the threshold amount provided in Section 287.017, Florida Statutes, for category two purchases for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. Violation of this section by Consultant shall result in cancellation of the City purchase and may result in Consultant debarment.

12.7 SUBCONSULTANTS

12.7.1 CONSULTANT may subcontract certain items of work to subconsultant. The Parties expressly agree that the CONSULTANT shall submit pertinent information regarding the proposed subconsultant, including subconsultant's scope of work and fees, for review and approval by the CITY prior to subconsultant's proceeding with any work.

12.7.2 CONSULTANT shall utilize the subconsultants identified in the proposal that were a material part of the selection of CONSULTANT to provide the services for this Project. CONSULTANT shall obtain written approval of the Contract Administrator prior to changing or modifying the list of subconsultants submitted by CONSULTANT.

The list of subconsultants submitted is as follows:

- Cummins Cederberg, Inc.
- HBC Engineering Company
- Hillers Electrical Engineering, Inc.
- Inframap Corp.
- Manuel G. Vera & Associates
- RGD Consulting Engineers
- Tierra South Florida, Inc.

- TRC Worldwide Engineering

12.8 ASSIGNMENT AND PERFORMANCE

Neither this Agreement nor any interest herein shall be assigned, transferred, or encumbered without the written consent of the other Party, and CONSULTANT shall not subcontract any portion of the work required by this Agreement except as authorized pursuant to Section 12.7.

CONSULTANT represents that all persons delivering the services required by this Agreement have the knowledge and skills, either by training, experience, education, or a combination thereof, to adequately and competently perform the duties, obligations, and services set forth in the Scope of Services and to provide and perform such services to CITY's satisfaction for the agreed compensation.

CONSULTANT shall perform its duties, obligations, and services under this Agreement in a skillful and respectable manner. The quality of CONSULTANT'S performance and all interim and final product(s) provided to or on behalf of CITY shall meet or exceed all professional standards of the State of Florida.

12.9 INDEMNIFICATION OF CITY

12.9.1 CONSULTANT shall indemnify and hold harmless CITY, its officers and employees, from liabilities, damages, losses, and costs, including but not limited to reasonable attorneys' fees, to the extent caused by the negligence, recklessness or intentional misconduct of CONSULTANT and persons employed or utilized by CONSULTANT in the performance of this Agreement. These indemnifications shall survive the term of this Agreement. In the event that any action or proceeding is brought against CITY by reason of any such claim or demand, CONSULTANT, shall, upon written notice from CITY, resist and defend such action or proceeding by counsel approved by the CITY. In accordance with Florida Statues Chapter 558, the CITY acknowledges that no individual employee or agent shall be held individually liable for damages, resulting from his/her negligence occurring within the scope of this Agreement.

12.9.2 To the extent considered necessary by Contract Administrator and CITY, any sums due the CONSULTANT under this Agreement may be retained by CITY until all of the CITY's claims for indemnification pursuant to this Agreement have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by CITY.

12.9.3 The Indemnification provided above shall obligate CONSULTANT to defend at its own expense to and through appellate, supplemental or bankruptcy proceeding, or to provide for such defense, at CITY's option, any and all claims of liability and all suits and actions of every name and description covered by Section 11.9.1 above that may be brought against

CITY whether performed by CONSULTANT, or persons employed or utilized by CONSULTANT.

12.10 LIMITATION OF CITY'S LIABILITY

The CITY desires to enter into this Agreement only if in so doing the CITY can place a limit on the CITY'S liability for any cause of action arising out of this Agreement, so that the CITY'S liability for any breach never exceeds the sum of $1,000.00. For other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the CONSULTANT expresses its willingness to enter into this Agreement with the knowledge that the CONSULTANT'S recovery from the CITY to any action or claim arising from the Agreement is limited to a maximum amount of $1,000.00 less the amount of all funds actually paid by the CITY to the CONSULTANT pursuant to this Agreement. Accordingly, and notwithstanding any other term or condition of this Agreement that may suggest otherwise, the CONSULTANT agrees that the CITY shall not be liable to the CONSULTANT for damages in an amount in excess of $1,000.00, which amount shall be reduced by the amount actually paid by the CITY to the CONSULTANT pursuant to this Agreement, for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any manner intended either to be a waiver of the limitation placed upon the CITY'S liability as set forth in Section 768.28, Florida Statutes, or to extend the CITY'S liability beyond the limits established in said Section 768.28; and no claim or award against the CITY shall include attorney's fees, investigative costs, extended damages, expert fees, suit costs or pre-judgment interest. Notwithstanding the foregoing, the parties agree and understand that the provisions of this Article 12.10 do not apply to monies owed, if any, for services rendered to CONSULTANT by the CITY under the provisions of this Agreement.

12.11 INSURANCE

As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, the Consultant, at its sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of the Consultant. The Consultant shall provide the City a certificate of insurance evidencing such coverage. The Consultant's insurance coverage shall be primary insurance for all applicable policies. The limits of coverage under each policy maintained by the Consultant shall not be interpreted as limiting the Consultant's liability and obligations under this Agreement. All insurance policies shall be through insurers authorized or eligible to write policies in the State of Florida and possess an A.M. Best rating of A-, VII or better, subject to approval by the City's Risk Manager.

The coverages, limits, and/or endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be relied upon by the Consultant for assessing the extent or determining appropriate

types and limits of coverage to protect the Consultant against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the Consultant under this Agreement.

The following insurance policies and coverages are required:

Commercial General Liability
Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- $1,000,000 each occurrence and $2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- $1,000,000 each occurrence and $2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for contractual liability and independent contractors.

The City, a Florida municipal corporation, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of the Consultant. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Professional Liability
Coverage must be afforded for Wrongful Acts in an amount not less than $1,000,000 each claim and $2,000,000 aggregate.

Consultant must keep the professional liability insurance in force until the third anniversary of expiration or early termination of this Agreement or the third anniversary of acceptance of work by the City, whichever is longer, which obligation shall survive expiration or early termination of this Agreement.

Business Automobile Liability
Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than $1,000,000 combined single limit each accident.

If the Consultant does not own vehicles, the Consultant shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Workers' Compensation and Employer's Liability

Coverage must be afforded per Chapter 440, Florida Statutes (2022). Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statutes.

The Consultant waives, and the Consultant shall ensure that the Consultant's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

The Consultant must be in compliance with all applicable State and federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act and the Jones Act, if applicable.

Insurance Certificate Requirements

a. The Consultant shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
b. The Consultant shall provide to the City a Certificate of Insurance having a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the Consultant to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
d. In the event the Agreement term or any surviving obligation of the Consultant following expiration or early termination of the Agreement goes beyond the expiration date of the insurance policy, the Consultant shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.
e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.
f. The City shall be named as an Additional Insured on all liability policies, with the exception of Workers' Compensation.
g. The City shall be granted a Waiver of Subrogation on the Consultant's Workers' Compensation insurance policy.
h. The title of the Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:

City of Fort Lauderdale
100 N. Andrews Avenue

Fort Lauderdale, FL 33301

The Consultant has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at the Consultant's expense.

If the Consultant's primary insurance policy/policies do not meet the minimum requirements, as set forth in this Agreement, the Consultant may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

The Consultant's insurance coverage shall be primary insurance as respects to the City, a Florida municipal corporation, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, a Florida municipal corporation, its officials, employees, or volunteers shall be non-contributory.

Any exclusion or provision in any insurance policy maintained by the Consultant that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the contract work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage shall be considered breach of contract. In addition, Consultant must provide to the City confirmation of coverage renewal via an updated certificate should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of Consultant's insurance policies.

The Consultant shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement to the Consultant's insurance company or companies and the City's Risk Management office, as soon as practical.

It is the Consultant's responsibility to ensure that any and all of the Consultant's independent contractors and subconsultants comply with these insurance requirements. All coverages for independent contractors and subconsultants shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of the Consultant.

NOTE: CITY PROJECT NUMBER, PROJECT NAME AND BID NUMBER MUST APPEAR ON EACH CERTIFICATE, AND THE CITY OF FORT LAUDERDALE MUST BE NAMED ON THE CERTIFICATE AS AN "ADDITIONAL INSURED" ON REQUIRED LIABILITY POLICIES.

12.12 REPRESENTATIVE OF CITY AND CONSULTANT

12.12.1 The Parties recognize that questions in the day-to-day conduct of the Project will arise. The Contract Administrator, upon CONSULTANT'S request, shall advise CONSULTANT in writing of one (1) or more CITY employees to whom all communications pertaining to the day-to-day conduct of the Project shall be addressed.

12.12.2 CONSULTANT shall inform the Contract Administrator in writing of CONSULTANT'S representative to whom matters involving the conduct of the Project shall be addressed.

12.13 ALL PRIOR AGREEMENTS SUPERSEDED

This document incorporates and includes all prior negotiations, correspondence, conversations, agreements or understandings applicable to the matters contained herein; and the Parties agree that there are no commitments, agreements or understandings concerning the subject matter of this Agreement that are not contained in this document. Accordingly, the Parties agree that no deviation from the terms hereof shall be predicated upon any prior representations or agreements whether oral or written.

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 of equal dignity herewith.

12.14 CONSULTANT'S STAFF

CONSULTANT will provide the key staff identified in its proposal for the Project as long as said key staff are in CONSULTANT's employment.

CONSULTANT will obtain prior written approval of Contract Administrator to change key staff. CONSULTANT shall provide Contract Administrator with such information as necessary to determine the suitability of any proposed new key staff. Contract Administrator will be reasonable in evaluating key staff qualifications.

If Contract Administrator desires to request removal of any of CONSULTANT'S staff, Contract Administrator shall first meet with CONSULTANT and provide reasonable justification for said removal.

12.15 INDEPENDENT CONTRACTOR

CONSULTANT is an independent contractor under this Agreement. Services provided by CONSULTANT shall be subject to the supervision of CONSULTANT. In providing the services, CONSULTANT or its agents shall not be acting and shall not be deemed as acting 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 CONSULTANT. The Parties expressly acknowledge that it is not their intent to create any rights or obligations in any third person or entity under this Agreement.

12.16 THIRD PARTY BENEFICIARIES

Neither CONSULTANT nor CITY intends to directly or substantially benefit a third party by this Agreement. Therefore, the parties agree that there are no third-party beneficiaries to this Agreement and that no third party shall be entitled to assert a claim against either of them based upon this Agreement.

12.17 CONFLICTS

Neither CONSULTANT nor its employees shall have or hold any continuing or frequently recurring employment or contractual relationship that is substantially antagonistic or incompatible with CONSULTANT'S loyal and conscientious exercise of judgment related to its performance under this Agreement.

CONSULTANT agrees that none of its officers or employees shall, during the term of this Agreement, serve as expert witness against CITY in any legal or administrative proceeding in which he or she is not a party, unless compelled by court process, nor shall such persons give sworn testimony or issue a report or writing, as an expression of his or her expert opinion, which is adverse or prejudicial to the interests of CITY or in connection with any such pending or threatened legal or administrative proceeding. The limitations of this Section shall not preclude such persons from representing themselves in any action or in any administrative or legal proceeding.

In the event CONSULTANT is permitted to utilize subconsultants to perform any services required by this Agreement, CONSULTANT agrees to prohibit such subconsultants, by written contract, from having any conflicts as within the meaning of this Section.

12.18 CONTINGENCY FEE

CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONSULTANT, to solicit or secure this Agreement 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 CONSULTANT, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For a breach or violation of this provision, the CITY shall have the right to terminate this Agreement without liability at its discretion, or to deduct from the Agreement price or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.

12.19 WAIVER OF BREACH AND MATERIALITY

Failure by CITY to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement.

CITY and CONSULTANT agree that each requirement, duty, and obligation set forth herein is substantial and important to the formation of this Agreement and, therefore, is a material term hereof.

12.20 COMPLIANCE WITH LAWS

CONSULTANT shall comply with all applicable federal, state, and local laws, codes, ordinances, rules, and regulations in performing its duties, responsibilities, and obligations related to this Agreement.

12.21 SEVERANCE

In the event this Agreement or a portion of this Agreement is found by a court of competent jurisdiction to be invalid, the remaining provisions shall continue to be effective unless CITY or CONSULTANT elects to terminate this Agreement. The election to terminate this Agreement based upon this provision shall be made within seven (7) days after the findings by the court become final.

12.22 JOINT PREPARATION

Preparation of this Agreement has been a joint effort of CITY and CONSULTANT and the resulting document shall not, solely as a matter of judicial construction, be construed more severely against one of the parties than any other.

12.23 PRIORITY OF PROVISIONS

If there is a conflict or inconsistency between any term, statement, requirement, or provision of any exhibit attached hereto, any document or events referred to herein, or any document incorporated into this Agreement by reference and a term, statement, requirement, or provision of this Agreement, the term, statement, requirement, or provision contained in Articles 1-12 of this Agreement shall prevail and be given effect.

12.24 APPLICABLE LAW AND VENUE AND WAIVER OF JURY TRIAL

This Agreement shall be construed in accordance with and governed by the laws of the State of Florida. Venue for any lawsuit by either party against the other party or otherwise arising out of this Agreement and for any other legal proceeding shall be in Broward County, Florida, or in the event of federal jurisdiction, in 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 ISSUES RELATED TO OR ARISING OUT OF THIS AGREEMENT. AFTER WRITTEN NOTICE BY THE OTHER PARTY OF VIOLATION OF THIS SECTION, THE PARTY MAKING THE REQUEST FOR JURY TRIAL SHALL BE LIABLE FOR THE REASONABLE ATTORNEYS' FEES AND COSTS OF THE OTHER PARTY IN CONTESTING THE REQUEST FOR JURY TRIAL, AND SUCH AMOUNTS SHALL BE AWARDED BY THE COURT IN ADJUDICATING THE MOTION.

12.25 ONE ORIGINAL AGREEMENT

This Agreement shall be executed in one (1), signed Agreement, treated as an original.

12.26 NOTICES

Whenever either Party desires to give notice unto the other, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the Party for whom it is intended, at the place last specified, and the place for giving of notice in compliance with the provisions of this paragraph. For the present, the Parties designate the following as the respective places for giving of notice, to-wit:

CITY:
Rares Petrica
Project Manager
City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-8000
Email: RPetrica@fortlauderdale.gov

With a copies to:
City Manager
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5364

City Attorney
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5037

CONSULTANT:
Patrick J. Gibney
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Phone: (954) 739-6400
Email: pgibney@craventhompson.com

12.27 ATTORNEY FEES

If CITY or CONSULTANT incurs any expense in enforcing the terms of this Agreement through litigation, the prevailing party in that litigation shall be reimbursed for all such costs and expenses, including but not limited to court costs, and reasonable attorney fees incurred during litigation.

12.28 ENVIRONMENTAL, HEALTH AND SAFETY

CONSULTANT shall maintain a safe working environment during performance of the work. CONSULTANT shall comply, and shall secure compliance by its employees, agents, and subconsultants, with all applicable environmental, health, safety and security laws and regulations, and performance conditions in this Agreement. Compliance with such requirements shall represent the minimum standard required of CONSULTANT. CONSULTANT shall be responsible for examining all requirements and determine whether additional or more stringent environmental, health, safety and security provisions are required for the work. CONSULTANT agrees to utilize protective devices as required by applicable laws, regulations, and any industry or CONSULTANT'S health and safety plans and regulations, and to pay the costs and expenses thereof, and warrants that all such persons shall be fit and qualified to carry out the Work.

12.29 STANDARD OF CARE

CONSULTANT represents that it is qualified to perform the work, that CONSULTANT and its subconsultants possess current, valid state and/or local licenses to perform the Work, and that their services shall be performed in a manner consistent with that level of care and skill ordinarily exercised by other qualified consultants under similar circumstances. Consultant will perform the services in accordance with standard industry practices, with the care, knowledge and skill expected of similar engineering firms. No other warranties, express or implied are made or intended.

12.30 TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Agreement by CONSULTANT shall act as the execution of a Truth-in-Negotiation Certificate stating that wage rates and other factual unit costs supporting the compensation of this Agreement are accurate, complete, and current at the time of contracting. The original contract price and any additions thereto shall be adjusted to exclude any significant sums, by which the CITY determines that contract price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such contract adjustments must be made within 1 year following the end of the contract.

12.31 EVALUATION

The CITY maintains the right to periodically review the performance of the CONSULTANT. This review will take into account the timely execution of Task Orders, the quality of the work performed, the cost to the CITY and the good faith efforts made by the CONSULTANT to maintain MBE/WBE participation in CITY projects. Any deficiencies in performance will be described in writing and an opportunity afforded, where practicable, for the CONSULTANT to address and/or remedy such deficiencies.

12.32 STATUTORY COMPLIANCE

CONSULTANT shall prepare all documents and other materials for the Project in accordance with all applicable rules, laws, ordinances and governmental regulations of the State of Florida, Broward County, the City of Fort Lauderdale, Florida, and all governmental agencies having jurisdiction over the services to be provided by CONSULTANT under this Agreement or over any aspect or phase of the Project.

12.33 SCRUTINIZED COMPANIES

Prohibition Against Contracting With Scrutinized Companies: Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the CONSULTANT certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2022), as may be amended or revised. The CONSULTANT certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2022), as may be amended or revised, and that it is not engaged in a boycott of Israel. The City may terminate this Agreement at the City's option if the CONSULTANT is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2022), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2022), as may be amended or revised, or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2022), as may be amended or revised.

By submitting a proposal or response, the CONSULTANT, principals, or owners certify that it is not listed on the Scrutinized Companies with Activities in Sudan List or listed on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or is engaged in business operations in Cuba or Syria.

12.34 PUBLIC RECORDS

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (2022), TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY CLERK'S OFFICE, 100 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301, PHONE: 954-828-5002, EMAIL: PRRCONTRACT@FORTLAUDERDALE.GOV.

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 the 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 (2022), as may be amended or revised, 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 this Agreement if CONSULTANT does not transfer the records to the City.

4. Upon completion of the Agreement, transfer, at no cost to the City, all public records in possession of CONSULTANT or keep and maintain public records required by the City to perform the service. If CONSULTANT transfers all public records to the City upon completion of this Agreement, CONSULTANT shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If CONSULTANT keeps and maintains public records upon completion of this Agreement, 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.

12.35 INTELLECTUAL PROPERTY

CONSULTANT shall protect and defend at CONSULTANT'S expense, counsel being subject to the City's approval, and indemnify and hold harmless the City from

and against any and all losses, penalties, fines, damages, settlements, judgments, claims, costs, charges, royalties, expenses, or liabilities, including any award of attorney fees and any award of costs, in connection with or arising directly or indirectly out of any infringement or allegation of infringement of any patent, copyright, or other intellectual property right in connection with the CONSULTANT'S or the CITY'S use of any copyrighted, patented or un-patented invention, process, article, material, or device that is manufactured, provided, or used pursuant to this Agreement. If the CONSULTANT uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

12.36 RIGHTS IN DOCUMENTS AND WORK

Any and all reports, photographs, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of CITY; and CONSULTANT disclaims any copyright in such materials. In the event of and upon termination of this Agreement, any reports, photographs, surveys, and other data and documents prepared by CONSULTANT, whether finished or unfinished, shall become the property of City and shall be delivered by CONSULTANT to the CITY'S Contract Administrator within seven (7) days of termination of this Agreement by either Party. Any compensation due to CONSULTANT shall be withheld until CONSULTANT delivers all documents to the CITY as provided herein.

12.37 REPRESENTATION OF AUTHORITY

Each individual executing this Agreement on behalf of a Party hereto hereby represents and warrants that he or she is, on the date he or she signs this Agreement, duly authorized by all necessary and appropriate action to execute this Agreement on behalf of such Party and does so with full legal authority.

12.38 NON-DISCRIMINATION

The CONSULTANT shall not, in any of its activities, including employment, discriminate against any individual on the basis of race, color, national origin, age, disability, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, marital status or any other protected classification as defined by applicable law.

1. The CONSULTANT certifies and represents that it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as may be amended or revised, ("Section 2-187").

2. The failure of the CONSULTANT to comply with Section 2-187 shall be deemed to be a material breach of the Agreement, entitling the CITY to

pursue any remedy stated below or any remedy provided under applicable law.

3. The CITY may terminate this Agreement if the CONSULTANT fails to comply with Section 2-187.

4. The CITY may retain all monies due or to become due until the CONSULTANT complies with Section 2-187.

5. The CONSULTANT may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

12.39 E-Verify

As a condition precedent to the effectiveness of this Agreement, pursuant to Section 448.095, Florida Statutes (2022), as may be amended or revised, the CONSULTANT and its subcontractors shall register with and use the E-Verify system to electronically verify the employment eligibility of newly hired employees.

1. The CONSULTANT shall require each of its subconsultants, if any, to provide the CONSULTANT with an affidavit stating that the subconsultant does not employ, contract with, or subconsultant with an unauthorized alien. The CONSULTANT shall maintain a copy of the subconsultant's affidavit for the duration of this Agreement and in accordance with the public records requirements of this Agreement.

2. The City, the CONSULTANT, or any subconsultant who has a good faith belief that a person or entity with which it is contracting has knowingly violated Section 448.09(1), Florida Statutes (2022), as may be amended or revised, shall terminate the Agreement with the person or entity.

3. The City, upon good faith belief that a subconsultant knowingly violated the provisions of Section 448.095(2), Florida Statutes (2022), as may be amended or revised, but that the CONSULTANT otherwise complied with Section 448.095(2), Florida Statutes (2022), as may be amended or revised, shall promptly notify CONSULTANT and order the CONSULTANT to immediately terminate the contract with the subconsultant, and the CONSULTANT shall comply with such order.

4. An Agreement terminated under Sections 448.095(2)(c)1. or 2., Florida Statutes (2022), as may be amended or revised, is not a breach of contract and may not be considered as such. If the City terminates this Agreement under Section 448.095(2)(c), Florida Statutes (2022), as may be amended or revised, the CONSULTANT

may not be awarded a public contract for at least one year after the date on which the Agreement was terminated. The CONSULTANT is liable for any additional costs incurred by the City as a result of termination of this Agreement.

5. CONSULTANT shall include in each of its subconsultants, if any, the requirements set forth in this section, including this subparagraph, requiring any and all subconsultants, as defined in Section 448.095(1)(j), Florida Statutes (2022), as may be amended or revised, to include all of the requirements of this section in its subcontracts. CONSULTANT shall be responsible for compliance by any and all subconsultants, as defined in Section 448.095(1)(j), Florida Statutes (2022), as may be amended or revised, with the requirements of Section 448.095, Florida Statutes (2022), as may be amended or revised.

12.40 Force Majeure: No Party shall hold the other responsible for damages or for delays in performance caused by force majeure, acts of God, or other acts or circumstances beyond the control of the other party or that could not have been reasonably foreseen and prevented. For this purpose, such acts or circumstances shall include, but not be limited to weather conditions affecting performance, floods, epidemics, pandemics, war, act of Governmental Authority, state of emergency, riots, strikes, lockouts, or other industrial disturbances, or protest demonstrations. Should such acts or circumstances occur, the Parties shall use their best efforts to overcome the difficulties arising therefrom and to resume the Work as soon as reasonably possible with the normal pursuit of the Work.

Inclement weather, continuous rain for less than three (3) days or the acts or omissions of subcontractors, third-party contractors, materialmen, suppliers, or their subcontractors, shall not be considered acts of force majeure.

No Party shall be liable for its failure to carry out its obligations under the Agreement during a period when such Party is rendered unable by force majeure to carry out its obligation, but the obligation of the Party or Parties relying on such force majeure shall be suspended only during the continuance of the inability and for no longer period than the unexpected or uncontrollable event.

The CONSULTANT further agrees and stipulates, that its right to excuse its failure to perform by reason of force majeure shall be conditioned upon giving written notice of its assertion that a Force Majeure delay has commenced within ninety-six (96) hours after such an occurrence. The CONSULTANT shall use its reasonable efforts to minimize such delays. The CONSULTANT shall promptly provide an estimate of the anticipated additional time required to complete the Project.

IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written above.

CITY

CITY OF FORT LAUDERDALE, a Florida municipal corporation

By: _____
GREG CHAVARRIA
City Manager

Date: 3/24/23

ATTEST:

By: _____
DAVID R. SOLOMAN
City Clerk

Approved as to Legal Form:
D'Wayne M. Spence, Interim City Attorney

By: _____
RHONDA MONTOYA HASAN
Assistant City Attorney

WITNESSES:

Tammy Taylor

Print Name

Patricia A. Gilbert

Print Name

(CORPORATE SEAL)

Craven Thompson & Associates, Inc., a Florida corporation authorized to conduct business in the State of Florida,

By: _____

Patrick J. Gibney, P.E.,
Vice President, Engineering

STATE OF Florida:

COUNTY OF Broward:

The foregoing instrument was acknowledged before me by means of ☑ physical presence or ☐ online notarization, this 1st day of March, 2023, by Patrick J. Gibney, P.E. as Vice President, Engineering for Craven Thompson & Associates, Inc., a Florida Corporation authorized to conduct business in the State of Florida.

JENNIFER MACDONALD NOTARY PUBLIC MY COMMISSION EXPIRES 7-11-2026 STATE OF FLORIDA COMMISSION NUMBER HH 265961

Jennifer MacDonald

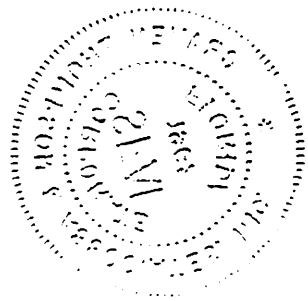
(Signature of Notary Public - State of Florida)

Jennifer MacDonald

(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally Known ✓ OR Produced Identification_____

Type of Identification Produced: _____





JENNIFER MACDONALD
NOTARY PUBLIC
MY COMMISSION
EXPIRES 7-11-2026
STATE OF FLORIDA
COMMISSION NUMBER HH 282581

EXHIBIT A
SCOPE OF SERVICES

3.1 Purpose

The City is seeking the services of a qualified consulting firm(s) to provide Professional Services related to a continuing contract for Civil Engineering consultant services. The following is a list of services that may be required on an as-needed basis as requested by the City which will be authorized by individual Task Orders for individual projects. This list shall not be construed as an exclusive list of activities that successful firm(s) may be engaged in. City shall have the right, in its sole and absolute discretion, to require additional services that are consistent with the scope of services and those activities typically performed by architects, engineers, and surveyors pursuant to Section 287.055 Florida Statutes, and for which the firm(s) are experience, qualified, and able to perform.

3.2 Scope of Services

The City is seeking statements of qualifications from capable and qualified engineering firms in response to this RFQ for the purpose of providing Civil Engineering Consultant Services for a variety of unspecified projects through a continuing services contract. Associated services typically required for complete public works projects are expected to be fulfilled by the selected firms. Multiple firms will be selected for this continuing services agreement. The City encourages small firms (based upon the U.S. Small Business Administration size standards requirements) as well as large firms and Minority Business Enterprises to submit qualifications.

The selected firms will assist with the design and implementation of municipal engineering projects. It is the intent of the City to use the selected consultants on an as-needed basis. The specific scope of work and fee schedule for each work will be individually agreed upon by the City and the consultant. The selected consultants must be able to provide all the services required of any civil engineering project and associated planning services through its own staff or subconsultants. The City reserves the right to award specific types of projects to firms with greater documented experience in the needed engineering specialty.

3.3 Tasks

The scope of services to be provided by the Consultant in the functional areas listed above shall include, but not be limited to, the following:

a) Prepare engineering designs, calculations, plans and specifications, contract bid documents, and cost estimates, within the functional areas of interest listed in this solicitation.
b) Prepare base maps, preliminary layouts, estimates of probable costs, engineering analysis and alternatives as requested.
c) Submit construction documents as needed to the City and other required agencies having an interest or jurisdiction over the project.
d) Review, analyze, and provide recommendations to utility budgets and capital improvement plans.
e) Provide updates on changes or proposed changes to laws/regulations that may impact City's water resources and supply, treatment, distribution and storage, wastewater collection and treatment.
f) Update of the large user's replacement and renewal funding for the wastewater treatment plant.
g) Update of the Capacity Analysis Report for the wastewater treatment plant.

h) Preform flood routing software modelling.
i) Prepare feasibility and conceptual planning documents.
j) Provide research, attendance at meetings, and preparation of presentation materials, reports and correspondence.
k) Prepare and/or assist with the preparation of grant applications and attendance at meetings with grant officials.
l) Provide public education/notification assistance.
m) Prepare short and long term planning documents, master plans, or provide input to the City's master plans, capital improvement program, and maintenance needs.
n) Participate in construction administration as required by the City.
o) Prepare formal or informal feasibility studies as necessary to assist the City in responding capital improvement needs.
p) Analysis of existing infrastructure and available capacity to serve proposed capital improvement projects.
q) Prepare legal descriptions, exhibits, and surveys.
r) Provide expert witness testimony.
s) Prepare appropriate permitting documents and obtain and/or assist the City in obtaining permits from applicable agencies.
t) Represent the City with regulatory agencies.
u) Prepare periodic project status reports.
v) Prepare and furnish bidding documents and assist the City in the preparation of other related documents.
w) Attend bid openings, prepare bid tabulation sheets, and assist the City in the evaluation of bids or proposals.
x) Issue addenda as appropriate to clarify, correct, or change the bidding documents.
y) Participate in pre-construction conference as requested by the City.
z) Review and determine acceptability of construction submittals, including shop drawings, progress schedule, schedule of values, etc.
aa) Review and provide recommendations to request for information, request for changes, and claims to the City arising during construction activities.
bb) Make periodic construction site visits for the purpose of determining general compliance with the approved drawings, plans, and specifications as requested by the City.
cc) Review as-built drawings provided by the construction contractor and provide written comments to the City.
dd) Provide project management services and act as an extension of the City's project management staff for the design, bidding, and construction management of municipal projects.

The consultant or its subconsultants shall be familiar with different agency's permitting regulations and requirements and the City's design criteria, standards and specifications.

3.4 Deliverables

The City intends to contract with multiple firms. The total amount of compensation will be negotiated with the selected consultant. No minimum amount of work or compensation will

be assured to the retained consultant(s). All work products becomes the property of the City. The City reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion.

3.5 Schedule
Consultant recognizes that **TIME IS OF THE ESSENCE**. The Work on each Task Order shall commence immediately upon the Consultant's receipt of an executed Task Order.

3.6 Background
Incorporated on March 27, 1911, encompassing more than 33 square miles with a population of 176,000, Fort Lauderdale is the largest of Broward County's 31 municipalities and the eighth largest city in Florida. The City covers approximately 23,000 acres of highly urbanized neighborhoods, with much of its costal area land area lying within the flood plain. The City is composed of several individual watershed areas ranging in size from 2,000 to 11,000 acres with low-lying topography and intersected by numerous canals and rivers.

3.7 Water Supply
The City of Fort Lauderdale obtains water from the Biscayne Aquifer via two (2) Well Fields. The Prospect Well Field supplies Fiveash Water Treatment Plan and the Peele Dixie Well Field supplies the Peele Dixie Membrane Plant.

3.8 Water Treatment
The City of Fort Lauderdale has two (2) Water Treatment Plants. The Fiveash Plant is a lime-softening plant that treats an average of 36 MGD and the Peele Dixie Plant is a nano-filtration plant that treats an average of 6 MGD.

3.9 Water Distribution
The City of Fort Lauderdale has approximately 780 miles of water mains, 16,000 valves, 5,500 fire hydrants, six (6) ground storage tanks, and one (1) elevated storage tank in the Water Distribution System. In addition, the City provides water for other municipalities in Broward County.

3.10 Storm Water and Wastewater Collection and Storage
The City of Fort Lauderdale operates and maintains a 330 mile wastewater collection system and a 127 mile storm water collection system serving 57,000 accounts within Fort Lauderdale, as well as several adjacent large user cities.

3.11 Wastewater Treatment
The City of Fort Lauderdale operates a regional wastewater treatment plant (G. T. Lohmeyer) with a design treatment capability of 55.7 MGD serving Fort Lauderdale and other adjacent municipalities throughout Broward County.

3.12 Effluent Disposal
The City of Fort Lauderdale operates a deep well injection site consisting of five (5) wells for effluent disposal where effluent is pumped to approximately 3,500 feet below ground.

3.13 Functional Areas of Interest
The consultant shall identify in its response to this RFQ the functional areas for which it particularly wishes to specialize. Multiple firms will be selected, and multiple firms may be selected for more than one (1) functional area.

a) Water and wastewater engineering (specifically pipeline and lift-station design)
b) Stormwater engineering
c) Transportation engineering
d) Structural engineering (specifically seawall, dock, and bridge design)
e) Environmental engineering
f) Surveying and mapping services
g) Photogrammetry and remote sensing
h) Geotechnical engineering
i) Coastal engineering
j) Water resources engineering
k) Hydrology and hydraulic engineering
l) Mechanical engineering
m) Construction engineering and inspection

The consultant and /or its sub consultants shall be familiar with different agency's permitting regulations and requirements and the City's design criteria, standards and specifications.

3.14 Quality Assurance/Quality Control

It is the intention of the City that the design consultant is held responsible for the quality control (QC) of their work and of its sub-consultants. All sub-consultant documents and submittals shall be submitted directly to the consultant for their independent QC review. The City shall only accept submittals for review and action from the consultant.

The consultant is responsible for the professional quality, technical accuracy and coordination of all pre-design services, designs, drawings, specifications, cost estimates and other services furnished by the consultant and their sub-consultants. It is the consultant's responsibility to independently and continually QC their plans, specifications, and all other project deliverables. Upon City request, the consultant shall provide the City with a marked up set of plans and specifications showing the consultant's QC review. The mark-ups submittals shall include the names of the consultant's staff that performed the QC review for each component or functional area (e.g., structures, roadway, drainage, etc.).

3.15 Document Submittal Format

All documents generated as a result of projects will become the property of the City of Fort Lauderdale. All projects documents shall be provided in a digital and hard copy format meeting all City of Fort Lauderdale format requirements. The project drawings shall be prepared in AutoCAD, in the version current to the City Engineering Division at the time that deliverables are due, and shall meet the requirements as set forth in the City's CADD specifications for project drawings current at the time of award of the project. Plot files shall also be prepared and submitted which meet the stated City standards.

EXHIBIT B
Billing Rates

RFQ 12637-421 Civil Engineer (CCNA)
Hourly Billing Rates for Task Orders
Craven Thompson & Associates

Classification	Hourly Rate
Civil Engineering Services	
Principal Engineer	$250
Senior Supervising Engineer	$220
Senior Engineer	$165
Project Engineer	$145
Principal Designer	$125
CADD Designer	$110
Land Surveying & Mapping Services	
Principal Surveyor	$200
Professional Land Surveyor	$155
Project Surveyor	$140
Survey CADD / GIS Tech	$105
Survey Field Crew (1-Man Crew)	$110
Survey Field Crew (2-Man Crew)	$155
Survey Field Crew (3-Man Crew)	$190
Survey Crew with Laser Scan (3-Man Crew)	$300
Landscape Architecture and Planning Services	
Principal Landscape Architect / Principal Planner	$200
Senior Supervising Landscape Architect	$185
Senior Landscape Architect/Planner	$160
Landscape Architect/Planner	$145
Construction Administration Services	
Director of Construction Management	$170
Construction Manager	$160
Senior Field Representative	$125
Field Representative	$100
Miscellaneous	
Clerical	$90

RFQ 12637-421 Civil Engineer (CCNA)
Hourly Billing Rates for Task Orders
Cummins Cederberg, Inc.

Classification	Hourly Rate
Civil Engineering Services	
Principal Engineer	$ 275
Senior Engineer	$ 200
Project Engineer	$ 165
CADD Designer	$ 130
Senior Project Manager	$ 200
Project Manager	$ 165
Chief Scientist	$ 200
Senior Scientist	$ 165
Project Scientist	$ 140
Associate Scientist II	$ 125
Associate Scientist I	$ 105
Associate Engineer II	$ 145
Associate Engineer I	$ 125

RFQ 12637-421 Civil Engineer (CCNA)

HBC Engineering Company
Hourly Billing Rates for Task Orders

Classification	Loaded Hourly Rate
Civil Engineering Services	
Principal Engineer	$ 238.55
Senior Supervising Engineer	$ 233.74
Senior Engineer	$ 200.00
Project Engineer	$ 165.00
Principal Designer	$ 165.00
CADD Designer	$ 126.70
Construction Administration Services	
Director of Construction Management	$ 200.00
Senior Field Representative	$ 150.00
Field Representative	$ 100.00
Miscellaneous	
Clerical	$ 86.18

RFQ 12637-421 Electrical Engineering (CCNA)
Hourly Billing Rates for Task Orders
Hillers Electrical Engineering, Inc.

Classification	Hourly Rate
Electrical Engineering Services	
Principal/Project Manager	$248.17
Professional Engineer	$196.60
Lead Engineer	$161.15
Engineer	$141.81
CADD/Technician	$100.00
Construction Coordinator	$138.59
Administrative Assistant	$80.58

RFQ 12637-421 Civil Engineer (CCNA)
City of Fort Lauderdale
Hourly Billing Rates for Task Orders
InfraMap Corp. 6/7/2022

Classification	Hourly Rate
Land Surveving & Mapping Services	
Professional Land Surveyor	$ 190.10
Utility Location Manager/Party Chief	$ 150.65
Survey CADD Technician	$ 100.43
Survey Instrument Operator/Technical Locator	$ 79.81
Miscellaneous	
Clerical	$ 86.08

InfraMap Corp.
10365 South Cedar Lane Glen Allen, VA 23059
1100 N Florida Mango Rd, Suite D, West Palm Beach, FL 33409

Standard Unit Rates – 2022

January 4, 2022

InfraMap Corp. is pleased to provide you with the below list of standard fees for traffic and roadway engineering services based on unit rates. These rates represent our usual and customary rates for the 2022 fiscal year.

Unit Priced Service:	Rate:	Unit:
1 Utility Test Hole 0-6'	$ 1,000.00	Per Hole
2 Utility Test Holes 0-6'	$ 750.00	Per Hole
3 or More Utility Test Holes 0-6'	$ 550.00	Per Hole
Excess Depth (Over 6')	$ 112.00	Per Foot
Mileage (IRS Rate)*	$ 0.585	Per Mile
Traffic Control – Arrow Board**	$ 75.00	Per Day

*InfraMap bills clients the IRS approved mileage rate for the fiscal year. Rates change as they are updated annually.

**InfraMap Corp. uses third party firms for traffic control measures including arrow boards, crash trucks, and other maintenance of traffic services as needed and or/required by law.

Thank you,

, P.E.

Jimmy Stewart, PE

Director, InfraMap Corp.

InfraMap Corp.
10365 South Cedar Lane Glen Allen, VA 23059
1100 N Florida Mango Rd, Suite D, West Palm Beach, FL 33409

June 7, 2022

Craven Thompson & Associates, Inc.
Pat Gibney, PE
Vice-President of Civil Engineering
pgibney@craventhompson.com

Re: RFQ 12637-421 Civil Engineering Services, Hourly Rates

Dear Mr. Gibney:

Please find the requested hourly rates listed below for the project referenced in the subject line.

Job Title	Hourly Rate Charged
Professional Land Surveyor	$ 190.10
Utility Location Manager/Party Chief	$ 150.65
Survey CADDTechnician	$ 100.43
Survey Inst. Operator/Technical Locator	$ 79.81
Clerical	$ 86.08

Accompanying this letter, you will also find our 2022 Standard Rates for unit priced services.

If there is anything further that you need, please feel free to reach out to us. We look forward to working with you on this contract.

Best regards,

P.E.

Jimmy Stewart, PE
Director, InfraMap Corp.

RGD
CONSULTING
ENGINEERS

Bill Rates

Principal Engineer	$	275.00
Senior Engineer III	$	250.00
Senior Engineer II	$	205.00
Senior Engineer I	$	185.00
Project Manager III	$	205.00
Project Manager II	$	165.00
Project Manager I	$	145.00
Engineer II	$	165.00
Engineer I	$	155.00
Designer III	$	145.00
Designer II	$	135.00
Designer I	$	125.00
Construction Coordinator II	$	150.00
Construction Coordinator I	$	135.00
Administrative/Clerical	$	90.00
Clerical	$	90.00
Marketing Coordinator	$	90.00

TRC Worldwide Engineering
1230 N. University Drive
Plantation, FL 33322
Phone: (954) 484-77
www.trcww.com CA No. 35826

WORLDWIDE ENGINEERING

RFQ 12637 - 421

RATE SCHEDULE

PERSONNEL	HOURLY RATE
Managing Principal	$215.00
Principal	$185.00
Registered Engineer / Senior Project Manger	$150.00
Project Manager	$125.00
Inspector	$90.00
BIM Manager / BIM Coordinator	$100.00
Administrative Support	$80.00
Expert Witness / Senior Principal	$350.00

PROJECT EXPENSES	RATE
Reproduction / Prints	$0.25/sf

Other Reimbursable Expense items which have been previously approved will be invoiced at direct charges plus a 5% carrying charge.

The hourly rates indicated above are 2022 rates and are being increased by 5% on January 1st every year thereafter.

RFQ# 12637-421 Civil Engineering, Continuing Services Contract		
City of Fort Lauderdale		
Tierra South Florida, Inc.		
Discipline	**Rate/unit**	**Unit**
Geotechnical Engineering/Inspections		
Project Manager	$225.00	Hour
Principal Engineer	$200.00	Hour
Senior Engineer	$195.00	Hour
Project Engineer	$150.00	Hour
Threshold Engineer	$195.00	Hour
Special Inspector Representative	$95.00	Hour
Senior Technician	$95.00	Hour
CADD	$95.00	Hour
Asphalt Plant Inspection	$90.00	Hour
Asphalt Field Inspection	$90.00	Hour
Technician - Soil Densities	$65.00	Hour
Technican - Concrete Testing	$65.00	Hour
Technican - Pile Driving Inspection	$95.00	Hour
Technican - Pre-stress Yard Inspection	$95.00	Hour
Field Investigation		
Mobilization of Men and Equipment		
Truck-Mounted Equipment	$450.00	Each
Specialized ATV/Mudbug	$1,200.00	Each
Support Vehicle	$150.00	Day
Barge-Mounted Equipment	$9,500.00	Day
Crane Rental	$250.00	Hour
Support Boat	$500.00	Day
Muck Probing (2-man crew)	$140.00	Hour
Standard Penetration Test Borings		
(By Truck-Mounted Equipment)		
Land: 0 - 50 ft depth	$14.00	Foot
50 - 100 ft depth	$16.00	Foot
Grout-Seal Boreholes		
(By Truck-Mounted Equipment)		
Land: 0 - 50 ft depth	$6.00	Foot
50 - 100 ft depth	$8.00	Foot
Casing Allowance		
(By Truck-Mounted Equipment)		
Land: 0 - 50 ft depth	$8.00	Foot
50 - 100 ft depth	$10.00	Foot
Standard Penetration Test Borings		
(By Barge-Mounted Equipment)		
Water: 0 - 50 ft depth	$20.00	Foot
50 - 100 ft depth	$27.00	Foot
Grout-Seal Boreholes		
(By Barge-Mounted Equipment)		
Water: 0 - 50 ft depth	$9.00	Foot
50 - 100 ft depth	$11.00	Foot
Casing Allowance		
(By Barge-Mounted Equipment)		
Water: 0 - 50 ft depth	$14.00	Foot
50 - 100 ft depth	$17.00	Foot
Rock Coring (Truck)	$70.00	Foot
Rock Coring (Barge)	$85.00	Foot
Field Permeability Tests (0-10 ft)	$400.00	Test
Field Permeability Tests (10-20 ft)	$500.00	Test
Pavement Cores, Asphalt	$200.00	Each
Pavement Cores, Concrete	$250.00	Each
MOT	$1,500.00	Set up
Laboratory Testing		
Natural Moisture Content Tests	$20.00	Test
Grain-Size Analysis - Full Gradation	$75.00	Test
Grain-Size Analysis - Single Sieve	$45.00	Test
Organic Content Tests	$50.00	Test
Atterberg Limit Tests	$85.00	Test
Field CBR	$850.00	Test
Lab CBR	$375.00	Test
LBR	$350.00	Test
Rock compression test	$150.00	Test
Split tension test	$150.00	Test
Grain-Size with Hydrometer	$125.00	Test
Proctor Test a) Modified	$125.00	Test
b) Standard	$115.00	Test
Bitumen Extraction	$175.00	Test
Bitumen Gradation	$175.00	Test
Corrosion Series (FDOT)	$195.00	Test

Friseta Davis

From: Erick Martinez
Sent: Wednesday, March 15, 2023 11:05 AM
To: Friseta Davis
Subject: FW: 12637-421 Civil Engineer RFQ CCNA (COI)
Attachments: 12637-421 - Civil Engineering (AECOM COI).pdf; Insurance Language - Civil Engineering Project Management.docx; 12637-421 - Civil Engineering (Chen Moore COI).pdf; 12637-421 - Civil Engineering (Craven Thompson COI).pdf; 12637-421 - Civil Engineering (Black & Veatch COI).pdf

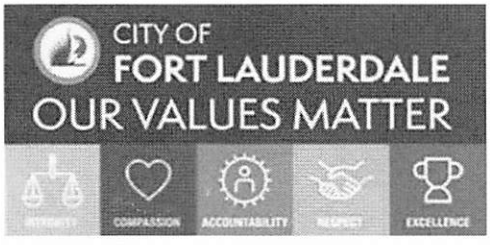
Categories: Red Category

Hello Friseta,

Please see the approvals from Risk below.

Thank you,

Erick Martinez
Senior Procurement Specialist
City of Fort Lauderdale | Procurement Services Division
100 N. Andrews Ave. | Fort Lauderdale FL 33301
P 954-828-4019 | F 954-828-5576| EMartinez@fortlauderdale.gov
Website: www.fortlauderdale.gov/departments/finance/procurement-services



Integrity – Compassion – Accountability – Respect – Excellence

WE BUILD COMMUNITY

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from city officials regarding City business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.

ARE YOU COMPETING FOR CITY BUSINESS? CLICK HERE TO REGISTER IN OUR NEW PROCUREMENT SOFTWARE SYSTEM.

From: Alisha Auth <AAuth@fortlauderdale.gov>
Sent: Wednesday, March 15, 2023 11:02 AM
To: Erick Martinez <EMartinez@fortlauderdale.gov>
Subject: RE: 12637-421 Civil Engineer RFQ CCNA (COI)

Hi Erick,

I have reviewed the insurance certificates as well as the insurance language provided. I have made notes next to each regarding approval.

- Chen Moore – the insurance meets the minimum requirements outlined in the attached document and is approved.
- Craven Thompson – the insurance meets the minimum requirements outlined in the attached document and is approved. Of note, the professional policy expires on 3/30/23 so we will want to ensure that we have confirmation of the renewal.
- Black & Veatch – the insurance meets the minimum requirements outlined in the attached document and is approved.
- AECOM – the insurance meets the minimum requirements outlined in the attached document and is approved. Of note, the policies expire 4/1/23 so we will want to ensure we have confirmation of the renewal.

Thank you!

Alisha Auth, ARM, AIC
City of Fort Lauderdale I Human Resources Department I Risk Management Division
100 N. Andrews Avenue, 3rd Floor I Fort Lauderdale, Florida 33301
Email: aauth@fortlauderdale.gov I Phone: (954) 828-5179 I Fax: (954) 828-5439



The City of Fort Lauderdale is a public entity subject to Chapter 119 of the Florida Statutes concerning public records. Email messages to and from employees or officials are covered under such laws and thus subject to public disclosure.

From: Erick Martinez <EMartinez@fortlauderdale.gov>
Sent: Wednesday, March 15, 2023 9:35 AM
To: Alisha Auth <AAuth@fortlauderdale.gov>
Subject: RE: 12637-421 Civil Engineer RFQ CCNA (COI)

Please also review the attached AECOM COI.

Thank you,

Erick Martinez
Senior Procurement Specialist
City of Fort Lauderdale | Procurement Services Division
100 N. Andrews Ave. | Fort Lauderdale FL 33301
P 954-828-4019 | F 954-828-5576| EMartinez@fortlauderdale.gov

Website: www.fortlauderdale.gov/departments/finance/procurement-services

Integrity – Compassion – Accountability – Respect – Excellence

WE BUILD COMMUNITY

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from city officials regarding City business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.

ARE YOU COMPETING FOR CITY BUSINESS? CLICK HERE TO REGISTER IN OUR NEW PROCUREMENT SOFTWARE SYSTEM.

From: Erick Martinez
Sent: Wednesday, March 15, 2023 8:54 AM
To: Alisha Auth <AAuth@fortlauderdale.gov>
Subject: 12637-421 Civil Engineer RFQ CCNA (COI)

Good morning Alisha,

Please see the attached Insurance Requirements and the following COIs for your review:

- Chen Moore
- Craven Thompson
- Black & Veatch

Please let me know if these are acceptable or if any changes are needed.

Thank you,

Erick Martinez
Senior Procurement Specialist
City of Fort Lauderdale | Procurement Services Division
100 N. Andrews Ave. | Fort Lauderdale FL 33301
P 954-828-4019 | F 954-828-5576| EMartinez@fortlauderdale.gov
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ARE YOU COMPETING FOR CITY BUSINESS? CLICK HERE TO REGISTER IN OUR NEW PROCUREMENT SOFTWARE SYSTEM.

-----Original Message-----
From: Alisha Auth <AAuth@fortlauderdale.gov>
Sent: Wednesday, January 26, 2022 11:28 AM
To: Mary Kleinpeter-Zamora <MKleinpeter-Zamora@fortlauderdale.gov>
Subject: RE: Emailing: CONTINUING SVCS CCNA [RFQ] Solicitation _12-13-2021

Hi Mary,

Please accept my apologies as I thought that I had responded to you on this request. The recommended insurance language is attached. Please let me know if you have any questions.

Thank you.

Alisha Auth
Senior Claims Adjuster
City of Fort Lauderdale
100 N Andrews Avenue, 3rd Floor
Fort Lauderdale, Florida 33301
Email: aauth@fortlauderdale.gov
Phone: 954-828-5179
Fax: 954-828-5439

The City of Fort Lauderdale is a public entity subject to Chapter 119 of the Florida Statutes concerning public records. Email messages to and from employees or officials are covered under such laws and thus subject to public disclosure.

-----Original Message-----
From: Mary Kleinpeter-Zamora <MKleinpeter-Zamora@fortlauderdale.gov>
Sent: Thursday, January 20, 2022 9:46 AM
To: Alisha Auth <AAuth@fortlauderdale.gov>
Subject: RE: Emailing: CONTINUING SVCS CCNA [RFQ] Solicitation _12-13-2021

Do you need additional information? If so, please don't hesitate to ask.

Thanks for your help.

Mary Kay Kleinpeter-Zamora C.P.M., CPPO Procurement Administrator City of Fort Lauderdale Direct line 954 828-5189

-----Original Message-----
From: Alisha Auth <AAuth@fortlauderdale.gov>
Sent: Wednesday, January 12, 2022 4:22 PM
To: Mary Kleinpeter-Zamora <MKleinpeter-Zamora@fortlauderdale.gov>

Subject: RE: Emailing: CONTINUING SVCS CCNA [RFQ] Solicitation _12-13-2021

Hi Mary,

Do you have the detailed scope of services? That will help me narrow down the recommended limits.

Thanks!

Alisha Auth
Senior Claims Adjuster
City of Fort Lauderdale
100 N Andrews Avenue, 3rd Floor
Fort Lauderdale, Florida 33301
Email: aauth@fortlauderdale.gov
Phone: 954-828-5179
Fax: 954-828-5439

The City of Fort Lauderdale is a public entity subject to Chapter 119 of the Florida Statutes concerning public records. Email messages to and from employees or officials are covered under such laws and thus subject to public disclosure.

-----Original Message-----
From: Mary Kleinpeter-Zamora <MKleinpeter-Zamora@fortlauderdale.gov>
Sent: Wednesday, January 12, 2022 1:07 PM
To: Alisha Auth <AAuth@fortlauderdale.gov>
Subject: Emailing: CONTINUING SVCS CCNA [RFQ] Solicitation _12-13-2021

Please advise insurance requirements.

Thanks for your help.

Mary Kay

Your message is ready to be sent with the following file or link attachments:

CONTINUING SVCS CCNA [RFQ] Solicitation _12-13-2021

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/01/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Brown & Brown of Florida, Inc. 1201 W Cypress Creek Rd Suite 130 Fort Lauderdale FL 33309	CONTACT NAME: Angela Nervi-Saketkoo PHONE (A/C, No, Ext): (954) 776-2222 FAX (A/C, No): (954) 776-4446 E-MAIL ADDRESS: angela.nervi@bbrown.com
INSURED Craven Thompson & Associates, Inc. 3563 NW 53rd Street Fort Lauderdale FL 33309	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : Hartford Fire Insurance Company — 19682 INSURER B : Hartford Insurance Company of the Midwest — 37478 INSURER C : Hartford Casualty Insurance Company — 29424 INSURER D : Continental Casualty Company — 20443 INSURER E : — INSURER F : —

COVERAGES **CERTIFICATE NUMBER:** 22-23 & 23-24 COI **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:	Y	Y	21UUNOL5298	12/01/2022	12/01/2023	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG Employee Benefits	$ 1,000,000 $ 300,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $ 1,000,000
B	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY			21UENOL5299	12/01/2022	12/01/2023	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) Medical payments	$ 1,000,000 $ $ $ $ 5,000
C	[X] UMBRELLA LIAB [X] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000			21XHUOL5300	12/01/2022	12/01/2023	EACH OCCURRENCE AGGREGATE 	$ 6,000,000 $ 6,000,000 $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [N] If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	21WBOL6H4G	01/01/2023	01/01/2024	[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 Liability incl. Pollution			591918336	03/30/2022	03/30/2023	Each Claim Aggregate	$3,000,000 $4,000,000

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

RE: Civil Engineering Services – RFQ No. 12637-421

City of Fort Lauderdale is included as Additional Insured with respects to General Liability as required by written contract. Waiver of Subrogation applies in favor of the certificate holder with respects to General Liability and Workers Compensation. 30 Days Notice of Cancellation applies except 10 days for non-payment of premium.

CERTIFICATE HOLDER

City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale FL 33301

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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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

Policy Number: 21 WB OL6H4G **Endorsement Number:**
Effective Date: 01/01/23 Effective hour is the same as stated on the Information Page of the policy.
Named Insured and Address: CRAVEN THOMPSON & ASSOCIATES INC.
3563 NW 53RD ST
FORT LAUDERDALE FL 33309

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

SCHEDULE

Any person or organization for whom you are required by contract or agreement to obtain this waiver from us. Endorsement is not applicable in KY, NH, NJ or for any MO construction risk

Countersigned by _____
Authorized Representative

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

Various provisions in this policy restrict coverage. Read the entire policy carefully to determine rights, duties and what is and is not covered.

Throughout this policy the words "you" and "your" refer to the Named Insured shown in the Declarations, and any other person or organization qualifying as a Named Insured under this policy. The words "we", "us" and "our" refer to the stock insurance company member of The Hartford providing this insurance.

The word "insured" means any person or organization qualifying as such under Section **II** – Who Is An Insured.

Other words and phrases that appear in quotation marks have special meaning. Refer to Section **V** –Definitions.

SECTION I – COVERAGES

COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY

1. Insuring Agreement

a. We will pay those sums that the insured becomes legally obligated to pay as damages because of "bodily injury" or "property damage" to which this insurance applies. We will have the right and duty to defend the insured against any "suit" seeking those damages. However, we will have no duty to defend the insured against any "suit" seeking damages for "bodily injury" or "property damage" to which this insurance does not apply. We may, at our discretion, investigate any "occurrence" and settle any claim or "suit" that may result. But:

(1) The amount we will pay for damages is limited as described in Section **III** – Limits Of Insurance; and

(2) Our right and duty to defend ends when we have used up the applicable limit of insurance in the payment of judgments or settlements under Coverages **A** or **B** or medical expenses under Coverage **C.**

No other obligation or liability to pay sums or perform acts or services is covered unless explicitly provided for under Supplementary Payments – Coverages **A** and **B.**

b. This insurance applies to "bodily injury" and "property damage" only if:

(1) The "bodily injury" or "property damage" is caused by an "occurrence" that takes place in the "coverage territory";

(2) The "bodily injury" or "property damage" occurs during the policy period; and

(3) Prior to the policy period, no insured listed under Paragraph **1.** of Section **II** – Who Is An Insured and no "employee" authorized by you to give or receive notice of an "occurrence" or claim, knew that the "bodily injury" or "property damage" had occurred, in whole or in part. If such a listed insured or authorized "employee" knew, prior to the policy period, that the "bodily injury" or "property damage" occurred, then any continuation, change or resumption of such "bodily injury" or "property damage" during or after the policy period will be deemed to have been known prior to the policy period.

c. "Bodily injury" or "property damage" will be deemed to have been known to have occurred at the earliest time when any insured listed under Paragraph **1.** of Section **II** – Who Is An Insured or any "employee" authorized by you to give or receive notice of an "occurrence" or claim:

(1) Reports all, or any part, of the "bodily injury" or "property damage" to us or any other insurer;

(2) Receives a written or verbal demand or claim for damages because of the "bodily injury" or "property damage"; or

(3) Becomes aware by any other means that "bodily injury" or "property damage" has occurred or has begun to occur.

d. Damages because of "bodily injury" include damages claimed by any person or organization for care, loss of services or death resulting at any time from the "bodily injury".

e. Incidental Medical Malpractice

(1) "Bodily injury" arising out of the rendering of or failure to render professional health care services as a physician, dentist, nurse, emergency medical technician or paramedic shall be deemed to be caused by an "occurrence", but only if:

(a) The physician, dentist, nurse, emergency medical technician or paramedic is employed by you to provide such services; and

(b) You are not engaged in the business or occupation of providing such services.

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(2) For the purpose of determining the limits of insurance for incidental medical malpractice, any act or omission together with all related acts or omissions in the furnishing of these services to any one person will be considered one "occurrence".

2. Exclusions

This insurance does not apply to:

a. Expected Or Intended Injury

"Bodily injury" or "property damage" expected or intended from the standpoint of the insured. This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

b. Contractual Liability

"Bodily injury" or "property damage" for which the insured is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages:

(1) That the insured would have in the absence of the contract or agreement; or

(2) Assumed in a contract or agreement that is an "insured contract", provided the "bodily injury" or "property damage" occurs subsequent to the execution of the contract or agreement. Solely for the purposes of liability assumed in an "insured contract", reasonable attorney fees and necessary litigation expenses incurred by or for a party other than an insured are deemed to be damages because of "bodily injury" or "property damage", provided:

(a) Liability to such party for, or for the cost of, that party's defense has also been assumed in the same "insured contract"; and

(b) Such attorney fees and litigation expenses are for defense of that party against a civil or alternative dispute resolution proceeding in which damages to which this insurance applies are alleged.

c. Liquor Liability

"Bodily injury" or "property damage" for which any insured may be held liable by reason of:

(1) Causing or contributing to the intoxication of any person;

(2) The furnishing of alcoholic beverages to a person under the legal drinking age or under the influence of alcohol; or

(3) Any statute, ordinance or regulation relating to the sale, gift, distribution or use of alcoholic beverages.

This exclusion applies only if you are in the business of manufacturing, distributing, selling, serving or furnishing alcoholic beverages.

d. Workers' Compensation And Similar Laws

Any obligation of the insured under a workers' compensation, disability benefits or unemployment compensation law or any similar law.

e. Employer's Liability

"Bodily injury" to:

(1) An "employee" of the insured arising out of and in the course of:

(a) Employment by the insured; or

(b) Performing duties related to the conduct of the insured's business; or

(2) The spouse, child, parent, brother or sister of that "employee" as a consequence of Paragraph (1) above.

This exclusion applies:

(1) Whether the insured may be liable as an employer or in any other capacity; and

(2) To any obligation to share damages with or repay someone else who must pay damages because of the injury.

This exclusion does not apply to liability assumed by the insured under an "insured contract".

f. Pollution

(1) "Bodily injury" or "property damage" arising out of the actual, alleged or threatened discharge, dispersal, seepage, migration, release or escape of "pollutants":

(a) At or from any premises, site or location which is or was at any time owned or occupied by, or rented or loaned to, any insured. However, this subparagraph does not apply to:

(i) "Bodily injury" if sustained within a building and caused by smoke, fumes, vapor or soot produced by or originating from equipment that is used to heat, cool or dehumidify the building, or equipment that is used to heat water for personal use, by the building's occupants or their guests;

(ii) "Bodily injury" or "property damage" for which you may be held liable, if you are a contractor and the owner or lessee of such premises, site or location has been added to your policy as an additional insured with respect to your ongoing operations performed for that additional insured at that premises, site or location and such premises, site or location is not and never was owned or occupied by, or rented or loaned to, any insured, other than that additional insured; or

(iii) "Bodily injury" or "property damage" arising out of heat, smoke or fumes from a "hostile fire";

(b) At or from any premises, site or location which is or was at any time used by or for any insured or others for the handling, storage, disposal, processing or treatment of waste;

(c) Which are or were at any time transported, handled, stored, treated, disposed of, or processed as waste by or for:

(i) Any insured; or

(ii) Any person or organization for whom you may be legally responsible;

(d) At or from any premises, site or location on which any insured or any contractors or subcontractors working directly or indirectly on any insured's behalf are performing operations if the "pollutants" are brought on or to the premises, site or location in connection with such operations by such insured, contractor or subcontractor. However, this subparagraph does not apply to:

(i) "Bodily injury" or "property damage" arising out of the escape of fuels, lubricants or other operating fluids which are needed to perform the normal electrical, hydraulic or mechanical functions necessary for the operation of "mobile equipment" or its parts, if such fuels, lubricants or other operating fluids escape from a vehicle part designed to hold, store or receive them. This exception does not apply if the "bodily injury" or "property damage" arises out of the intentional discharge, dispersal or release of the fuels, lubricants or other operating fluids, or if such fuels, lubricants or other operating fluids are brought on or to the premises, site or location with the intent that they be discharged, dispersed or released as part of the operations being performed by such insured, contractor or subcontractor;

(ii) "Bodily injury" or "property damage" sustained within a building and caused by the release of gases, fumes or vapors from materials brought into that building in connection with operations being performed by you or on your behalf by a contractor or subcontractor; or

(iii) "Bodily injury" or "property damage" arising out of heat, smoke or fumes from a "hostile fire"; or

(e) At or from any premises, site or location on which any insured or any contractors or subcontractors working directly or indirectly on any insured's behalf are performing operations if the operations are to test for, monitor, clean up, remove, contain, treat, detoxify or neutralize, or in any way respond to, or assess the effects of, "pollutants".

(2) Any loss, cost or expense arising out of any:

(a) Request, demand, order or statutory or regulatory requirement that any insured or others test for, monitor, clean up, remove, contain, treat, detoxify or neutralize, or in any way respond to, or assess the effects of, "pollutants"; or

(b) Claim or suit by or on behalf of a governmental authority for damages because of testing for, monitoring, cleaning up, removing, containing, treating, detoxifying or neutralizing, or in any way responding to, or assessing the effects of, "pollutants".

However, this paragraph does not apply to liability for damages because of "property damage" that the insured would have in the absence of such request, demand, order or statutory or regulatory requirement, or such claim or "suit" by or on behalf of a governmental authority.

g. Aircraft, Auto Or Watercraft

"Bodily injury" or "property damage" arising out of the ownership, maintenance, use or entrustment to others of any aircraft, "auto" or watercraft owned or operated by or rented or loaned to any insured. Use includes operation and "loading or unloading".

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage" involved the ownership, maintenance, use or entrustment to others of any aircraft, "auto" or watercraft that is owned or operated by or rented or loaned to any insured.

This exclusion does not apply to:

(1) A watercraft while ashore on premises you own or rent;

(2) A watercraft you do not own that is:

(a) Less than 51 feet long; and

(b) Not being used to carry persons for a charge;

(3) Parking an "auto" on, or on the ways next to, premises you own or rent, provided the "auto" is not owned by or rented or loaned to you or the insured;

(4) Liability assumed under any "insured contract" for the ownership, maintenance or use of aircraft or watercraft;

(5) "Bodily injury" or "property damage" arising out of the operation of any of the equipment listed in Paragraph **f.(2)** or **f.(3)** of the definition of "mobile equipment"; or

(6) An aircraft that is not owned by any insured and is hired, chartered or loaned with a paid crew. However, this exception does not apply if the insured has any other insurance for such "bodily injury" or "property damage", whether the other insurance is primary, excess, contingent or on any other basis.

h. Mobile Equipment

"Bodily injury" or "property damage" arising out of:

(1) The transportation of "mobile equipment" by an "auto" owned or operated by or rented or loaned to any insured; or

(2) The use of "mobile equipment" in, or while in practice for, or while being prepared for, any prearranged racing, speed, demolition, or stunting activity.

i. War

"Bodily injury" or "property damage", however caused, arising, directly or indirectly, out of:

(1) War, including undeclared or civil war;

(2) Warlike action by a military force, including action in hindering or defending against an actual or expected attack, by any government, sovereign or other authority using military personnel or other agents; or

(3) Insurrection, rebellion, revolution, usurped power, or action taken by governmental authority in hindering or defending against any of these.

j. Damage To Property

"Property damage" to:

(1) Property you own, rent, or occupy, including any costs or expenses incurred by you, or any other person, organization or entity, for repair, replacement, enhancement, restoration or maintenance of such property for any reason, including prevention of injury to a person or damage to another's property;

(2) Premises you sell, give away or abandon, if the "property damage" arises out of any part of those premises;

(3) Property loaned to you;

(4) Personal property in the care, custody or control of the insured;

(5) That particular part of real property on which you or any contractors or subcontractors working directly or indirectly on your behalf are performing operations, if the "property damage" arises out of those operations; or

(6) That particular part of any property that must be restored, repaired or replaced because "your work" was incorrectly performed on it.

Paragraphs **(1)**, **(3)** and **(4)** of this exclusion do not apply to "property damage" (other than damage by fire) to premises, including the contents of such premises, rented to you for a period of 7 or fewer consecutive days. A separate limit of insurance applies to Damage To Premises Rented To You as described in Section **III** – Limits Of Insurance.

Paragraph **(2)** of this exclusion does not apply if the premises are "your work" and were never occupied, rented or held for rental by you.

Paragraphs **(3)** and **(4)** of this exclusion do not apply to "property damage" arising from the use of elevators.

Paragraphs **(3)**, **(4)**, **(5)** and **(6)** of this exclusion do not apply to liability assumed under a sidetrack agreement.

Paragraphs **(3)** and **(4)** of this exclusion do not apply to "property damage" to borrowed equipment while not being used to perform operations at the job site.

Paragraph **(6)** of this exclusion does not apply to "property damage" included in the "products-completed operations hazard".

k. Damage To Your Product

"Property damage" to "your product" arising out of it or any part of it.

l. Damage To Your Work

"Property damage" to "your work" arising out of it or any part of it and included in the "products-completed operations hazard".

This exclusion does not apply if the damaged work or the work out of which the damage arises was performed on your behalf by a subcontractor.

m. Damage To Impaired Property Or Property Not Physically Injured

"Property damage" to "impaired property" or property that has not been physically injured, arising out of:

(1) A defect, deficiency, inadequacy or dangerous condition in "your product" or "your work"; or

(2) A delay or failure by you or anyone acting on your behalf to perform a contract or agreement in accordance with its terms.

This exclusion does not apply to the loss of use of other property arising out of sudden and accidental physical injury to "your product" or "your work" after it has been put to its intended use.

n. Recall Of Products, Work Or Impaired Property

Damages claimed for any loss, cost or expense incurred by you or others for the loss of use, withdrawal, recall, inspection, repair, replacement, adjustment, removal or disposal of:

(1) "Your product";

(2) "Your work"; or

(3) "Impaired property";

if such product, work, or property is withdrawn or recalled from the market or from use by any person or organization because of a known or suspected defect, deficiency, inadequacy or dangerous condition in it.

o. Personal And Advertising Injury

"Bodily injury" arising out of "personal and advertising injury".

p. Electronic Data

Damages arising out of the loss of, loss of use of, damage to, corruption of, inability to access, or inability to manipulate electronic data.

As used in this exclusion, electronic data means information, facts or programs stored as or on, created or used on, or transmitted to or from computer software, including systems and applications software, hard or floppy disks, CD-ROMS, tapes, drives, cells, data processing devices or any other media which are used with electronically controlled equipment.

q. Employment-Related Practices

"Bodily injury" to:

(1) A person arising out of any "employment–related practices"; or

(2) The spouse, child, parent, brother or sister of that person as a consequence of "bodily injury" to that person at whom any "employment-related practices" are directed.

This exclusion applies:

(1) Whether the insured may be liable as an employer or in any other capacity; and

(2) To any obligation to share damages with or repay someone else who must pay damages because of the injury.

r. Asbestos

(1) "Bodily injury" or "property damage" arising out of the "asbestos hazard".

(2) Any damages, judgments, settlements, loss, costs or expenses that:

(a) May be awarded or incurred by reason of any claim or suit alleging actual or threatened injury or damage of any nature or kind to persons or property which would not have occurred in whole or in part but for the "asbestos hazard";

(b) Arise out of any request, demand, order or statutory or regulatory requirement that any insured or others test for, monitor, clean up, remove, encapsulate, contain, treat, detoxify or neutralize or in any way respond to or assess the effects of an "asbestos hazard"; or

(c) Arise out of any claim or suit for damages because of testing for, monitoring, cleaning up, removing, encapsulating, containing, treating, detoxifying or neutralizing or in any way responding to or assessing the effects of an "asbestos hazard".

Damage To Premises Rented To You – Exception For Damage By Fire, Lightning Or Explosion

Exclusions **c.** through **h.** and **j.** through **n.** do not apply to damage by fire, lightning or explosion to premises while rented to you or temporarily occupied by you with permission of the owner. A separate limit of insurance applies to this coverage as described in Section **III** – Limits Of Insurance.

COVERAGE B PERSONAL AND ADVERTISING INJURY LIABILITY

1. Insuring Agreement

a. We will pay those sums that the insured becomes legally obligated to pay as damages because of "personal and advertising injury" to which this insurance applies. We will have the right and duty to defend the insured against any "suit" seeking those damages. However, we will have no duty to defend the insured against any "suit" seeking damages for "personal and advertising injury" to which this insurance does not apply. We may, at our discretion, investigate any offense and settle any claim or "suit" that may result. But:

(1) The amount we will pay for damages is limited as described in Section **III** – Limits Of Insurance; and

(2) Our right and duty to defend end when we have used up the applicable limit of insurance in the payment of judgments or settlements under Coverages **A** or **B** or medical expenses under Coverage **C.**

No other obligation or liability to pay sums or perform acts or services is covered unless explicitly provided for under Supplementary Payments – Coverages **A** and **B.**

b. This insurance applies to "personal and advertising injury" caused by an offense arising out of your business but only if the offense was committed in the "coverage territory" during the policy period.

2. Exclusions

This insurance does not apply to:

a. Knowing Violation Of Rights Of Another

"Personal and advertising injury" arising out of an offense committed by, at the direction or with the consent or acquiescence of the insured with the expectation of inflicting "personal and advertising injury".

b. Material Published With Knowledge Of Falsity

"Personal and advertising injury" arising out of oral, written or electronic publication of material, if done by or at the direction of the insured with knowledge of its falsity.

c. Material Published Prior To Policy Period

"Personal and advertising injury" arising out of oral, written or electronic publication of material whose first publication took place before the beginning of the policy period.

d. Criminal Acts

"Personal and advertising injury" arising out of a criminal act committed by or at the direction of the insured.

e. Contractual Liability

"Personal and advertising injury" for which the insured has assumed liability in a contract or agreement. This exclusion does not apply to liability for damages that the insured would have in the absence of the contract or agreement.

f. Breach Of Contract

"Personal and advertising injury" arising out of a breach of contract, except an implied contract to use another's "advertising idea" in your "advertisement".

g. Quality Or Performance Of Goods – Failure To Conform To Statements

"Personal and advertising injury" arising out of the failure of goods, products or services to conform with any statement of quality or performance made in your "advertisement".

h. Wrong Description Of Prices

"Personal and advertising injury" arising out of the wrong description of the price of goods, products or services.

i. Infringement Of Intellectual Property Rights

"Personal and advertising injury" arising out of any violation of any intellectual property rights such as copyright, patent, trademark, trade name, trade secret, service mark or other designation of origin or authenticity.

However, this exclusion does not apply to infringement, in your "advertisement", of:

(1) Copyright;

(2) Slogan, unless the slogan is also a trademark, trade name, service mark or other designation of origin or authenticity; or

(3) Title of any literary or artistic work.

j. Insureds In Media And Internet Type Businesses

"Personal and advertising injury" committed by an insured whose business is:

(1) Advertising, broadcasting, publishing or telecasting;

(2) Designing or determining content of web sites for others; or

(3) An Internet search, access, content or service provider.

However, this exclusion does not apply to Paragraphs **17.a., b.** and **c.** of "personal and advertising injury" under the Definitions Section.

For the purposes of this exclusion, placing an "advertisement" for or linking to others on your web site, by itself, is not considered the business of advertising, broadcasting, publishing or telecasting.

k. Electronic Chatrooms Or Bulletin Boards

"Personal and advertising injury" arising out of an electronic chatroom or bulletin board the insured hosts, owns, or over which the insured exercises control.

l. Unauthorized Use Of Another's Name Or Product

"Personal and advertising injury" arising out of the unauthorized use of another's name or product in your e-mail address, domain name or metatags, or any other similar tactics to mislead another's potential customers.

m. Pollution

"Personal and advertising injury" arising out of the actual, alleged or threatened discharge, dispersal, seepage, migration, release or escape of "pollutants" at any time.

n. Pollution-Related

Any loss, cost or expense arising out of any:

(1) Request, demand, order or statutory or regulatory requirement that any insured or others test for, monitor, clean up, remove, contain, treat, detoxify or neutralize, or in any way respond to, or assess the effects of, "pollutants"; or

(2) Claim or suit by or on behalf of a governmental authority for damages because of testing for, monitoring, cleaning up, removing, containing, treating, detoxifying or neutralizing, or in any way responding to, or assessing the effects of, "pollutants".

o. War

"Personal and advertising injury", however caused, arising, directly or indirectly, out of:

(1) War, including undeclared or civil war;

(2) Warlike action by a military force, including action in hindering or defending against an actual or expected attack, by any government, sovereign or other authority using military personnel or other agents; or

(3) Insurrection, rebellion, revolution, usurped power, or action taken by governmental authority in hindering or defending against any of these.

p. Internet Advertisements And Content Of Others

"Personal and advertising injury" arising out of:

(1) An "advertisement" for others on your web site;

(2) Placing a link to a web site of others on your web site;

(3) Content, including information, sounds, text, graphics, or images from a web site of others displayed within a frame or border on your web site; or

(4) Computer code, software or programming used to enable:

(a) Your web site; or

(b) The presentation or functionality of an "advertisement" or other content on your web site.

q. Right Of Privacy Created By Statute

"Personal and advertising injury" arising out of the violation of a person's right of privacy created by any state or federal act.

However, this exclusion does not apply to liability for damages that the insured would have in the absence of such state or federal act.

r. Violation Of Anti-Trust law

"Personal and advertising injury" arising out of a violation of any anti-trust law.

s. Securities

"Personal and advertising injury" arising out of the fluctuation in price or value of any stocks, bonds or other securities.

t. Discrimination Or Humiliation

"Personal and advertising injury" arising out of discrimination or humiliation committed by or at the direction of any "executive officer", director, stockholder, partner or member of the insured.

u. Employment-Related Practices

"Personal and advertising injury" to:

(1) A person arising out of any "employment–related practices"; or

(2) The spouse, child, parent, brother or sister of that person as a consequence of "personal and advertising injury" to that person at whom any "employment-related practices" are directed.

This exclusion applies:

(1) Whether the insured may be liable as an employer or in any other capacity; and

(2) To any obligation to share damages with or repay someone else who must pay damages because of the injury.

v. Asbestos

(1) "Personal and advertising injury" arising out of the "asbestos hazard".

(2) Any damages, judgments, settlements, loss, costs or expenses that:

(a) May be awarded or incurred by reason of any claim or suit alleging actual or threatened injury or damage of any nature or kind to persons or property which would not have occurred in whole or in part but for the "asbestos hazard";

(b) Arise out of any request, demand, order or statutory or regulatory requirement that any insured or others test for, monitor, clean up, remove, encapsulate, contain, treat, detoxify or neutralize or in any way respond to or assess the effects of an "asbestos hazard"; or

(c) Arise out of any claim or suit for damages because of testing for, monitoring, cleaning up, removing, encapsulating, containing, treating, detoxifying or neutralizing or in any way responding to or assessing the effects of an "asbestos hazard".

COVERAGE C MEDICAL PAYMENTS

1. Insuring Agreement

a. We will pay medical expenses as described below for "bodily injury" caused by an accident:

(1) On premises you own or rent;

(2) On ways next to premises you own or rent; or

(3) Because of your operations;

provided that:

(1) The accident takes place in the "coverage territory" and during the policy period;

(2) The expenses are incurred and reported to us within three years of the date of the accident; and

(3) The injured person submits to examination, at our expense, by physicians of our choice as often as we reasonably require.

b. We will make these payments regardless of fault. These payments will not exceed the applicable limit of insurance. We will pay reasonable expenses for:

(1) First aid administered at the time of an accident;

(2) Necessary medical, surgical, x-ray and dental services, including prosthetic devices; and

(3) Necessary ambulance, hospital, professional nursing and funeral services.

2. **Exclusions**

We will not pay expenses for "bodily injury":

a. **Any Insured**

To any insured, except "volunteer workers".

b. **Hired Person**

To a person hired to do work for or on behalf of any insured or a tenant of any insured.

c. **Injury On Normally Occupied Premises**

To a person injured on that part of premises you own or rent that the person normally occupies.

d. **Workers Compensation And Similar Laws**

To a person, whether or not an "employee" of any insured, if benefits for the "bodily injury" are payable or must be provided under a workers' compensation or disability benefits law or a similar law.

e. **Athletics Activities**

To a person injured while practicing, instructing or participating in any physical exercises or games, sports, or athletic contests.

f. **Products-Completed Operations Hazard**

Included within the "products-completed operations hazard".

g. **Coverage A Exclusions**

Excluded under Coverage **A**.

SUPPLEMENTARY PAYMENTS – COVERAGES A AND B

1. We will pay, with respect to any claim we investigate or settle, or any "suit" against an insured we defend:

a. All expenses we incur.

b. Up to $1,000 for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

c. The cost of appeal bonds or bonds to release attachments, but only for bond amounts within the applicable limit of insurance. We do not have to furnish these bonds.

d. All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to $500 a day because of time off from work.

e. All costs taxed against the insured in the "suit".

f. Prejudgment interest awarded against the insured on that part of the judgment we pay. If we make an offer to pay the applicable limit of insurance, we will not pay any prejudgment interest based on that period of time after the offer.

g. All interest on the full amount of any judgment that accrues after entry of the judgment and before we have paid, offered to pay, or deposited in court the part of the judgment that is within the applicable limit of insurance.

These payments will not reduce the limits of insurance.

2. If we defend an insured against a "suit" and an indemnitee of the insured is also named as a party to the "suit", we will defend that indemnitee if all of the following conditions are met:

a. The "suit" against the indemnitee seeks damages for which the insured has assumed the liability of the indemnitee in a contract or agreement that is an "insured contract";

b. This insurance applies to such liability assumed by the insured;

c. The obligation to defend, or the cost of the defense of, that indemnitee, has also been assumed by the insured in the same "insured contract";

d. The allegations in the "suit" and the information we know about the "occurrence" are such that no conflict appears to exist between the interests of the insured and the interests of the indemnitee;

e. The indemnitee and the insured ask us to conduct and control the defense of that indemnitee against such "suit" and agree that we can assign the same counsel to defend the insured and the indemnitee; and

f. The indemnitee:

(1) Agrees in writing to:

(a) Cooperate with us in the investigation, settlement or defense of the "suit";

(b) Immediately send us copies of any demands, notices, summonses or legal papers received in connection with the "suit";

(c) Notify any other insurer whose coverage is available to the indemnitee; and

(d) Cooperate with us with respect to coordinating other applicable insurance available to the indemnitee; and

(2) Provides us with written authorization to:

(a) Obtain records and other information related to the "suit"; and

(b) Conduct and control the defense of the indemnitee in such "suit".

So long as the above conditions are met, attorneys' fees incurred by us in the defense of that indemnitee,

necessary litigation expenses incurred by us and necessary litigation expenses incurred by the indemnitee at our request will be paid as Supplementary Payments. Notwithstanding the provisions of Paragraph **2.b.(2)** of Section **I** – Coverage **A** – Bodily Injury And Property Damage Liability, such payments will not be deemed to be damages for "bodily injury" and "property damage" and will not reduce the limits of insurance.

Our obligation to defend an insured's indemnitee and to pay for attorneys' fees and necessary litigation expenses as Supplementary Payments ends when:

a. We have used up the applicable limit of insurance in the payment of judgments or settlements; or

b. The conditions set forth above, or the terms of the agreement described in Paragraph **f.** above, are no longer met.

SECTION II – WHO IS AN INSURED

1. If you are designated in the Declarations as:

a. An individual, you and your spouse are insureds, but only with respect to the conduct of a business of which you are the sole owner.

b. A partnership or joint venture, you are an insured. Your members, your partners, and their spouses are also insureds, but only with respect to the conduct of your business.

c. A limited liability company, you are an insured. Your members are also insureds, but only with respect to the conduct of your business. Your managers are insureds, but only with respect to their duties as your managers.

d. An organization other than a partnership, joint venture or limited liability company, you are an insured. Your "executive officers" and directors are insureds, but only with respect to their duties as your officers or directors. Your stockholders are also insureds, but only with respect to their liability as stockholders.

e. A trust, you are an insured. Your trustees are also insureds, but only with respect to their duties as trustees.

2. Each of the following is also an insured:

a. Employees and Volunteer workers

Your "volunteer workers" only while performing duties related to the conduct of your business, or your "employees", other than either your "executive officers" (if you are an organization other than a partnership, joint venture or limited liability company) or your managers (if you are a limited liability company), but only for acts within the scope of their employment by you or while performing duties related to the conduct of your business.

However, none of these "employees" or "volunteer workers" are insureds for:

(1) "Bodily injury" or "personal and advertising injury":

(a) To you, to your partners or members (if you are a partnership or joint venture), to your members (if you are a limited liability company), to a co-"employee" while in the course of his or her employment or performing duties related to the conduct of your business, or to your other "volunteer workers" while performing duties related to the conduct of your business;

(b) To the spouse, child, parent, brother or sister of that co-"employee" or that "volunteer worker" as a consequence of Paragraph **(1)(a)** above;

(c) For which there is any obligation to share damages with or repay someone else who must pay damages because of the injury described in Paragraphs **(1)(a)** or **(b)** above; or

(d) Arising out of his or her providing or failing to provide professional health care services.

If you are not in the business of providing professional health care services, Paragraph **(d)** does not apply to any nurse, emergency medical technician or paramedic employed by you to provide such services.

(2) "Property damage" to property:

(a) Owned, occupied or used by,

(b) Rented to, in the care, custody or control of, or over which physical control is being exercised for any purpose by

you, any of your "employees", "volunteer workers", any partner or member (if you are a partnership or joint venture), or any member (if you are a limited liability company).

b. Real Estate Manager

Any person (other than your "employee" or "volunteer worker"), or any organization while acting as your real estate manager.

c. Temporary Custodians of Your Property

Any person or organization having proper temporary custody of your property if you die, but only:

(1) With respect to liability arising out of the maintenance or use of that property; and

(2) Until your legal representative has been appointed.

d. Legal Representative If You Die

Your legal representative if you die, but only with respect to duties as such. That representative will

have all your rights and duties under this Coverage Part.

e. Unnamed Subsidiary

Any subsidiary, and subsidiary thereof, of yours which is a legally incorporated entity of which you own a financial interest of more than 50% of the voting stock on the effective date of the Coverage Part.

The insurance afforded herein for any subsidiary not named in this Coverage Part as a named insured does not apply to injury or damage with respect to which an insured under this Coverage Part is also an insured under another policy or would be an insured under such policy but for its termination or the exhaustion of its limits of insurance.

3. Newly Acquired or Formed Organization

Any organization you newly acquire or form, other than a partnership, joint venture or limited liability company, and over which you maintain financial interest of more than 50% of the voting stock, will qualify as a Named Insured if there is no other similar insurance available to that organization. However:

a. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier;

b. Coverage **A** does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization; and

c. Coverage **B** does not apply to "personal and advertising injury" arising out of an offense committed before you acquired or formed the organization.

4. Mobile Equipment

With respect to "mobile equipment" registered in your name under any motor vehicle registration law, any person is an insured while driving such equipment along a public highway with your permission. Any other person or organization responsible for the conduct of such person is also an insured, but only with respect to liability arising out of the operation of the equipment, and only if no other insurance of any kind is available to that person or organization for this liability. However, no person or organization is an insured with respect to:

a. "Bodily injury" to a co-"employee" of the person driving the equipment; or

b. "Property damage" to property owned by, rented to, in the charge of or occupied by you or the employer of any person who is an insured under this provision.

5. Nonowned Watercraft

With respect to watercraft you do not own that is less than 51 feet long and is not being used to carry persons for a charge, any person is an insured while operating such watercraft with your permission. Any other person or organization responsible for the conduct of such person is also an insured, but only with respect to liability arising out of the operation of the watercraft, and only if no other insurance of any kind is available to that person or organization for this liability.

However, no person or organization is an insured with respect to:

a. "Bodily injury" to a co-"employee" of the person operating the watercraft; or

b. "Property damage" to property owned by, rented to, in the charge of or occupied by you or the employer of any person who is an insured under this provision.

6. Additional Insureds When Required By Written Contract, Written Agreement Or Permit

The following person(s) or organization(s) are an additional insured when you have agreed, in a written contract, written agreement or because of a permit issued by a state or political subdivision, that such person or organization be added as an additional insured on your policy, provided the injury or damage occurs subsequent to the execution of the contract or agreement.

A person or organization is an additional insured under this provision only for that period of time required by the contract or agreement.

However, no such person or organization is an insured under this provision if such person or organization is included as an insured by an endorsement issued by us and made a part of this Coverage Part.

a. Vendors

Any person(s) or organization(s) (referred to below as vendor), but only with respect to "bodily injury" or "property damage" arising out of "your products" which are distributed or sold in the regular course of the vendor's business and only if this Coverage Part provides coverage for "bodily injury" or "property damage" included within the "products-completed operations hazard".

(1) The insurance afforded the vendor is subject to the following additional exclusions:

This insurance does not apply to:

(a) "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;

(b) Any express warranty unauthorized by you;

(c) Any physical or chemical change in the product made intentionally by the vendor;

(d) Repackaging, except when unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;

(e) Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products;

(f) Demonstration, installation, servicing or repair operations, except such operations performed at the vendor's premises in connection with the sale of the product;

(g) Products which, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for the vendor; or

(h) "Bodily injury" or "property damage" arising out of the sole negligence of the vendor for its own acts or omissions or those of its employees or anyone else acting on its behalf. However, this exclusion does not apply to:

(i) The exceptions contained in Sub-paragraphs (d) or (f); or

(ii) Such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products.

(2) This insurance does not apply to any insured person or organization, from whom you have acquired such products, or any ingredient, part or container, entering into, accompanying or containing such products.

b. Lessors of Equipment

(1) Any person or organization from whom you lease equipment; but only with respect to their liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your maintenance, operation or use of equipment leased to you by such person or organization.

(2) With respect to the insurance afforded to these additional insureds this insurance does not apply to any "occurrence" which takes place after the equipment lease expires.

c. Lessors of Land or Premises

Any person or organization from whom you lease land or premises, but only with respect to liability arising out of the ownership, maintenance or use of that part of the land or premises leased to you.

With respect to the insurance afforded these additional insureds the following additional exclusions apply:

This insurance does not apply to:

1. Any "occurrence" which takes place after you cease to lease that land; or
2. Structural alterations, new construction or demolition operations performed by or on behalf of such person or organization.

d. Architects, Engineers or Surveyors

Any architect, engineer, or surveyor, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

(1) In connection with your premises; or

(2) In the performance of your ongoing operations performed by you or on your behalf.

With respect to the insurance afforded these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or the failure to render any professional services by or for you, including:

1. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
2. Supervisory, inspection, architectural or engineering activities.

e. Permits Issued By State Or Political Subdivisions

Any state or political subdivision, but only with respect to operations performed by you or on your behalf for which the state or political subdivision has issued a permit.

With respect to the insurance afforded these additional insureds, this insurance does not apply to:

(1) "Bodily injury", "property damage" or "personal and advertising injury" arising out of operations performed for the state or municipality; or

(2) "Bodily injury" or "property damage" included within the "products-completed operations hazard".

f. Any Other Party

Any other person or organization who is not an insured under Paragraphs **a.** through **e.** above, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

(1) In the performance of your ongoing operations;

(2) In connection with your premises owned by or rented to you; or

(3) In connection with "your work" and included within the "products-completed operations hazard", but only if

(a) The written contract or agreement requires you to provide such coverage to such additional insured; and

(b) This Coverage Part provides coverage for "bodily injury" or "property damage" included within the "products-completed operations hazard".

With respect to the insurance afforded to these additional insureds, this insurance does not apply to:

"Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

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

(2) Supervisory, inspection, architectural or engineering activities.

The limits of insurance that apply to additional insureds under this provision is described in Section **III** – Limits Of Insurance.

How this insurance applies when other insurance is available to the additional insured is described in the Other Insurance Condition in Section **IV** – Commercial General Liability Conditions.

No person or organization is an insured with respect to the conduct of any current or past partnership, joint venture or limited liability company that is not shown as a Named Insured in the Declarations.

SECTION III – LIMITS OF INSURANCE

1. The Most We will Pay

The Limits of Insurance shown in the Declarations and the rules below fix the most we will pay regardless of the number of:

a. Insureds;

b. Claims made or "suits" brought; or

c. Persons or organizations making claims or bringing "suits".

2. General Aggregate Limit

The General Aggregate Limit is the most we will pay for the sum of:

a. Medical expenses under Coverage **C;**

b. Damages under Coverage **A,** except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard"; and

c. Damages under Coverage **B.**

3. Products-Completed Operations Aggregate Limit

The Products-Completed Operations Aggregate Limit is the most we will pay under Coverage **A** for damages because of "bodily injury" and "property damage" included in the "products-completed operations hazard".

4. Personal and Advertising Injury Limit

Subject to **2.** above, the Personal and Advertising Injury Limit is the most we will pay under Coverage **B** for the sum of all damages because of all "personal and advertising injury" sustained by any one person or organization.

5. Each Occurrence Limit

Subject to **2.** or **3.** above, whichever applies, the Each Occurrence Limit is the most we will pay for the sum of:

a. Damages under Coverage **A;** and

b. Medical expenses under Coverage **C**

because of all "bodily injury" and "property damage" arising out of any one "occurrence".

6. Damage To Premises Rented To You Limit

Subject to **5.** above, the Damage To Premises Rented To You Limit is the most we will pay under Coverage **A** for damages because of "property damage" to any one premises, while rented to you, or in the case of damage by fire, lightning or explosion, while rented to you or temporarily occupied by you with permission of the owner.

In the case of damage by fire, lightning or explosion, the Damage to Premises Rented To You Limit applies to all damage proximately caused by the same event, whether such damage results from fire, lightning or explosion or any combination of these.

7. Medical Expense Limit

Subject to **5.** above, the Medical Expense Limit is the most we will pay under Coverage **C** for all medical expenses because of "bodily injury" sustained by any one person.

8. How Limits Apply To Additional Insureds

If you have agreed in a written contract or written agreement that another person or organization be

added as an additional insured on your policy, the most we will pay on behalf of such additional insured is the lesser of:

a. The limits of insurance specified in the written contract or written agreement; or

b. The Limits of Insurance shown in the Declarations.

Such amount shall be a part of and not in addition to Limits of Insurance shown in the Declarations and described in this Section.

The Limits of Insurance of this Coverage Part apply separately to each consecutive annual period and to any remaining period of less than 12 months, starting with the beginning of the policy period shown in the Declarations, unless the policy period is extended after issuance for an additional period of less than 12 months. In that case, the additional period will be deemed part of the last preceding period for purposes of determining the Limits of Insurance.

SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS

1. Bankruptcy

Bankruptcy or insolvency of the insured or of the insured's estate will not relieve us of our obligations under this Coverage Part.

2. Duties In The Event Of Occurrence, Offense, Claim Or Suit

a. Notice Of Occurrence Or Offense

You or any additional insured must see to it that we are notified as soon as practicable of an "occurrence" or an offense which may result in a claim. To the extent possible, notice should include:

(1) How, when and where the "occurrence" or offense took place;

(2) The names and addresses of any injured persons and witnesses; and

(3) The nature and location of any injury or damage arising out of the "occurrence" or offense.

b. Notice Of Claim

If a claim is made or "suit" is brought against any insured, you or any additional insured must:

(1) Immediately record the specifics of the claim or "suit" and the date received; and

(2) Notify us as soon as practicable.

You or any additional insured must see to it that we receive written notice of the claim or "suit" as soon as practicable.

c. Assistance And Cooperation Of The Insured

You and any other involved insured must:

(1) Immediately send us copies of any demands, notices, summonses or legal papers received in connection with the claim or "suit";

(2) Authorize us to obtain records and other information;

(3) Cooperate with us in the investigation or settlement of the claim or defense against the "suit"; and

(4) Assist us, upon our request, in the enforcement of any right against any person or organization which may be liable to the insured because of injury or damage to which this insurance may also apply.

d. Obligations At The Insureds Own Cost

No insured will, except at that insured's own cost, voluntarily make a payment, assume any obligation, or incur any expense, other than for first aid, without our consent.

e. Additional Insureds Other Insurance

If we cover a claim or "suit" under this Coverage Part that may also be covered by other insurance available to an additional insured, such additional insured must submit such claim or "suit" to the other insurer for defense and indemnity.

However, this provision does not apply to the extent that you have agreed in a written contract or written agreement that this insurance is primary and non-contributory with the additional insured's own insurance.

f. Knowledge Of An Occurrence, Offense, Claim Or Suit

Paragraphs **a.** and **b.** apply to you or to any additional insured only when such "occurrence", offense, claim or "suit" is known to:

(1) You or any additional insured that is an individual;

(2) Any partner, if you or an additional insured is a partnership;

(3) Any manager, if you or an additional insured is a limited liability company;

(4) Any "executive officer" or insurance manager, if you or an additional insured is a corporation;

(5) Any trustee, if you or an additional insured is a trust; or

(6) Any elected or appointed official, if you or an additional insured is a political subdivision or public entity.

This duty applies separately to you and any additional insured.

3. Legal Action Against Us

No person or organization has a right under this Coverage Part:

a. To join us as a party or otherwise bring us into a "suit" asking for damages from an insured; or

b. To sue us on this Coverage Part unless all of its terms have been fully complied with.

A person or organization may sue us to recover on an agreed settlement or on a final judgment against an insured; but we will not be liable for damages that are not payable under the terms of this Coverage Part or

that are in excess of the applicable limit of insurance. An agreed settlement means a settlement and release of liability signed by us, the insured and the claimant or the claimant's legal representative.

4. Other Insurance

If other valid and collectible insurance is available to the insured for a loss we cover under Coverages **A** or **B** of this Coverage Part, our obligations are limited as follows:

a. Primary Insurance

This insurance is primary except when **b.** below applies. If other insurance is also primary, we will share with all that other insurance by the method described in **c.** below.

b. Excess Insurance

This insurance is excess over any of the other insurance, whether primary, excess, contingent or on any other basis:

(1) Your Work

That is Fire, Extended Coverage, Builder's Risk, Installation Risk or similar coverage for "your work";

(2) Premises Rented To You

That is fire, lightning or explosion insurance for premises rented to you or temporarily occupied by you with permission of the owner;

(3) Tenant Liability

That is insurance purchased by you to cover your liability as a tenant for "property damage" to premises rented to you or temporarily occupied by you with permission of the owner;

(4) Aircraft, Auto Or Watercraft

If the loss arises out of the maintenance or use of aircraft, "autos" or watercraft to the extent not subject to Exclusion g. of Section **I** – Coverage A – Bodily Injury And Property Damage Liability;

(5) Property Damage to Borrowed Equipment Or Use Of Elevators

If the loss arises out of "property damage" to borrowed equipment or the use of elevators to the extent not subject to Exclusion **j.** of Section **I** - Coverage **A** - Bodily Injury And Property Damage Liability;

(6) When You Are Added As An Additional Insured To Other Insurance

Any other insurance available to you covering liability for damages arising out of the premises or operations, or products and completed operations, for which you have been added as an additional insured by that insurance; or

(7) When You Add Others As An Additional Insured To This Insurance

Any other insurance available to an additional insured.

However, the following provisions apply to other insurance available to any person or organization who is an additional insured under this coverage part.

(a) Primary Insurance When Required By Contract

This insurance is primary if you have agreed in a written contract or written agreement that this insurance be primary. If other insurance is also primary, we will share with all that other insurance by the method described in **c.** below.

(b) Primary And Non-Contributory To Other Insurance When Required By Contract

If you have agreed in a written contract, written agreement, or permit that this insurance is primary and non-contributory with the additional insured's own insurance, this insurance is primary and we will not seek contribution from that other insurance.

Paragraphs **(a)** and **(b)** do not apply to other insurance to which the additional insured has been added as an additional insured.

When this insurance is excess, we will have no duty under Coverages **A** or **B** to defend the insured against any "suit" if any other insurer has a duty to defend the insured against that "suit". If no other insurer defends, we will undertake to do so, but we will be entitled to the insured's rights against all those other insurers.

When this insurance is excess over other insurance, we will pay only our share of the amount of the loss, if any, that exceeds the sum of:

(1) The total amount that all such other insurance would pay for the loss in the absence of this insurance; and

(2) The total of all deductible and self-insured amounts under all that other insurance.

We will share the remaining loss, if any, with any other insurance that is not described in this Excess Insurance provision and was not bought specifically to apply in excess of the Limits of Insurance shown in the Declarations of this Coverage Part.

c. Method Of Sharing

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

5. **Premium Audit**
   a. We will compute all premiums for this Coverage Part in accordance with our rules and rates.
   b. Premium shown in this Coverage Part as advance premium is a deposit premium only. At the close of each audit period we will compute the earned premium for that period and send notice to the first Named Insured. The due date for audit and retrospective premiums is the date shown as the due date on the bill. If the sum of the advance and audit premiums paid for the policy period is greater than the earned premium, we will return the excess to the first Named Insured.
   c. The first Named Insured must keep records of the information we need for premium computation, and send us copies at such times as we may request.
6. **Representations**
   a. **When You Accept This Policy**

      By accepting this policy, you agree:

      (1) The statements in the Declarations are accurate and complete;

      (2) Those statements are based upon representations you made to us; and

      (3) We have issued this policy in reliance upon your representations.

   b. **Unintentional Failure To Disclose Hazards**

      If unintentionally you should fail to disclose all hazards relating to the conduct of your business that exist at the inception date of this Coverage Part, we shall not deny coverage under this Coverage Part because of such failure.
7. **Separation Of Insureds**

   Except with respect to the Limits of Insurance, and any rights or duties specifically assigned in this Coverage Part to the first Named Insured, this insurance applies:

   a. As if each Named Insured were the only Named Insured; and
   b. Separately to each insured against whom claim is made or "suit" is brought.
8. **Transfer Of Rights Of Recovery Against Others To Us**
   a. **Transfer of Rights Of Recovery**

      If the insured has rights to recover all or part of any payment, including Supplementary Payments, we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.

   b. **Waiver Of Rights Of Recovery (Waiver Of Subrogation)**

      If the insured has waived any rights of recovery against any person or organization for all or part of any payment, including Supplementary Payments, we have made under this Coverage Part, we also waive that right, provided the insured waived their rights of recovery against such person or organization in a contract, agreement or permit that was executed prior to the injury or damage.
9. **When We Do Not Renew**

   If we decide not to renew this Coverage Part, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less than 30 days before the expiration date.

   If notice is mailed, proof of mailing will be sufficient proof of notice.

SECTION V – DEFINITIONS

1. "Advertisement" means the widespread public dissemination of information or images that has the purpose of inducing the sale of goods, products or services through:
   a. **(1)** Radio;
      (2) Television;
      (3) Billboard;
      (4) Magazine;
      (5) Newspaper; or
   b. Any other publication that is given widespread public distribution.

   However, "advertisement" does not include:

   a. The design, printed material, information or images contained in, on or upon the packaging or labeling of any goods or products; or
   b. An interactive conversation between or among persons through a computer network.
2. "Advertising idea" means any idea for an "advertisement".
3. "Asbestos hazard" means an exposure or threat of exposure to the actual or alleged properties of asbestos and includes the mere presence of asbestos in any form.
4. "Auto" means a land motor vehicle, trailer or semitrailer designed for travel on public roads, including any attached machinery or equipment. But "auto" does not include "mobile equipment".
5. "Bodily injury" means physical:
   a. Injury;
   b. Sickness; or
   c. Disease

   sustained by a person and, if arising out of the above, mental anguish or death at any time.

6. "Coverage territory" means:
   a. The United States of America (including its territories and possessions), Puerto Rico and Canada;
   b. International waters or airspace, but only if the injury or damage occurs in the course of travel or transportation between any places included in **a.** above; or
   c. All other parts of the world if the injury or damage arises out of:
      (1) Goods or products made or sold by you in the territory described in **a.** above;
      (2) The activities of a person whose home is in the territory described in **a.** above, but is away for a short time on your business; or
      (3) "Personal and advertising injury" offenses that take place through the Internet or similar electronic means of communication

   provided the insured's responsibility to pay damages is determined in the United States of America (including its territories and possessions), Puerto Rico or Canada, in a "suit" on the merits according to the substantive law in such territory or in a settlement we agree to.
7. "Employee" includes a "leased worker". "Employee" does not include a "temporary worker".
8. "Employment-Related Practices" means:
   a. Refusal to employ a person;
   b. Termination of a person's employment; or
   c. Employment-related practices, policies, acts or omissions, such as coercion, demotion, evaluation, reassignment, discipline, defamation, harassment, humiliation or discrimination directed at a person.
9. "Executive officer" means a person holding any of the officer positions created by your charter, constitution, by-laws or any other similar governing document.
10. "Hostile fire" means one which becomes uncontrollable or breaks out from where it was intended to be.
11. "Impaired property" means tangible property, other than "your product" or "your work", that cannot be used or is less useful because:
   a. It incorporates "your product" or "your work" that is known or thought to be defective, deficient, inadequate or dangerous; or
   b. You have failed to fulfill the terms of a contract or agreement;

   if such property can be restored to use by:
   a. The repair, replacement, adjustment or removal of "your product" or "your work"; or
   b. Your fulfilling the terms of the contract or agreement.
12. "Insured contract" means:
   a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire, lightning or explosion to premises while rented to you or temporarily occupied by you with permission of the owner is subject to the Damage to Premises Rented To You Limit described in Section **III** – Limits of Insurance;
   b. A sidetrack agreement;
   c. Any easement or license agreement, including an easement or license agreement in connection with construction or demolition operations on or within 50 feet of a railroad;
   d. An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;
   e. An elevator maintenance agreement;
   f. That part of any other contract or agreement pertaining to your business (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for "bodily injury" or "property damage" to a third person or organization, provided the "bodily injury" or "property damage" is caused, in whole or in part, by you or by those acting on your behalf. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

      Paragraph **f.** includes that part of any contract or agreement that indemnifies a railroad for "bodily injury" or "property damage" arising out of construction or demolition operations, within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road-beds, tunnel, underpass or crossing.

      However, Paragraph **f.** does not include that part of any contract or agreement:
      (1) That indemnifies an architect, engineer or surveyor for injury or damage arising out of:
         (a) Preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
         (b) Giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage; or
      (2) Under which the insured, if an architect, engineer or surveyor, assumes liability for an injury or damage arising out of the insured's rendering or failure to render professional services, including those listed in **(1)** above and supervisory, inspection, architectural or engineering activities.
13. "Leased worker" means a person leased to you by a labor leasing firm under an agreement between you and the labor leasing firm, to perform duties related to the conduct of your business. "Leased worker" does not include a "temporary worker".
14. "Loading or unloading" means the handling of property:
   a. After it is moved from the place where it is accepted for movement into or onto an aircraft, watercraft or "auto";

b. While it is in or on an aircraft, watercraft or "auto"; or

c. While it is being moved from an aircraft, watercraft or "auto" to the place where it is finally delivered;

but "loading or unloading" does not include the movement of property by means of a mechanical device, other than a hand truck, that is not attached to the aircraft, watercraft or "auto".

15. "Mobile equipment" means any of the following types of land vehicles, including any attached machinery or equipment:

a. Bulldozers, farm machinery, forklifts and other vehicles designed for use principally off public roads;

b. Vehicles maintained for use solely on or next to premises you own or rent;

c. Vehicles that travel on crawler treads;

d. Vehicles, whether self-propelled or not, maintained primarily to provide mobility to permanently mounted:

(1) Power cranes, shovels, loaders, diggers or drills; or

(2) Road construction or resurfacing equipment such as graders, scrapers or rollers;

e. Vehicles not described in **a., b., c.** or **d.** above that are not self-propelled and are maintained primarily to provide mobility to permanently attached equipment of the following types:

(1) Air compressors, pumps and generators, including spraying, welding, building cleaning, geophysical exploration, lighting and well servicing equipment; or

(2) Cherry pickers and similar devices used to raise or lower workers;

f. Vehicles not described in **a., b., c.** or **d.** above maintained primarily for purposes other than the transportation of persons or cargo.

However, self-propelled vehicles with the following types of permanently attached equipment are not "mobile equipment" but will be considered "autos":

(1) Equipment, of at least 1,000 pounds gross vehicle weight, designed primarily for:

(a) Snow removal;

(b) Road maintenance, but not construction or resurfacing; or

(c) Street cleaning;

(2) Cherry pickers and similar devices mounted on automobile or truck chassis and used to raise or lower workers; and

(3) Air compressors, pumps and generators, including spraying, welding, building cleaning, geophysical exploration, lighting and well servicing equipment.

16. "Occurrence" means an accident, including continuous or repeated exposure to substantially the same general harmful conditions.

17. "Personal and advertising injury" means injury, including consequential "bodily injury", arising out of one or more of the following offenses:

a. False arrest, detention or imprisonment;

b. Malicious prosecution;

c. The wrongful eviction from, wrongful entry into, or invasion of the right of private occupancy of a room, dwelling or premises that a person occupies, committed by or on behalf of its owner, landlord or lessor;

d. Oral, written or electronic publication of material that slanders or libels a person or organization or disparages a person's or organization's goods, products or services;

e. Oral, written or electronic publication of material that violates a person's right of privacy;

f. Copying, in your "advertisement", a person's or organization's "advertising idea" or style of "advertisement";

g. Infringement of copyright, slogan, or title of any literary or artistic work, in your "advertisement"; or

h. Discrimination or humiliation that results in injury to the feelings or reputation of a natural person.

18. "Pollutants" mean any solid, liquid, gaseous or thermal irritant or contaminant, including smoke, vapor, soot, fumes, acids, alkalis, chemicals and waste. Waste includes materials to be recycled, reconditioned or reclaimed.

19. "Products-completed operations hazard":

a. Includes all "bodily injury" and "property damage" occurring away from premises you own or rent and arising out of "your product" or "your work" except:

(1) Products that are still in your physical possession; or

(2) Work that has not yet been completed or abandoned. However, "your work" will be deemed completed at the earliest of the following times:

(a) When all of the work called for in your contract has been completed.

(b) When all of the work to be done at the job site has been completed if your contract calls for work at more than one job site.

(c) When that part of the work done at a job site has been put to its intended use by any person or organization other than another contractor or subcontractor working on the same project.

Work that may need service, maintenance, correction, repair or replacement, but which is otherwise complete, will be treated as completed.

b. Does not include "bodily injury" or "property damage" arising out of:

(1) The transportation of property, unless the injury or damage arises out of a condition in or on a vehicle not owned or operated by you, and that condition was created by the "loading or unloading" of that vehicle by any insured;

(2) The existence of tools, uninstalled equipment or abandoned or unused materials; or

(3) Products or operations for which the classification, listed in the Declarations or in a policy schedule, states that products-completed operations are subject to the General Aggregate Limit.

20. "Property damage" means:

a. Physical injury to tangible property, including all resulting loss of use of that property. All such loss of use shall be deemed to occur at the time of the physical injury that caused it; or

b. Loss of use of tangible property that is not physically injured. All such loss of use shall be deemed to occur at the time of the "occurrence" that caused it.

As used in this definition, computerized or electronically stored data, programs or software are not tangible property. Electronic data means information, facts or programs:

a. Stored as or on;

b. Created or used on; or

c. Transmitted to or from;

computer software, including systems and applications software, hard or floppy disks, CD-ROMS, tapes, drives, cells, data processing devices or any other media which are used with electronically controlled equipment.

21. "Suit" means a civil proceeding in which damages because of "bodily injury", "property damage" or "personal and advertising injury" to which this insurance applies are alleged. "Suit" includes:

a. An arbitration proceeding in which such damages are claimed and to which the insured must submit or does submit with our consent; or

b. Any other alternative dispute resolution proceeding in which such damages are claimed and to which the insured submits with our consent.

22. "Temporary worker" means a person who is furnished to you to substitute for a permanent "employee" on leave or to meet seasonal or short-term workload conditions.

23. "Volunteer worker" means a person who

a. Is not your "employee";

b. Donates his or her work;

c. Acts at the direction of and within the scope of duties determined by you; and

d. Is not paid a fee, salary or other compensation by you or anyone else for their work performed for you.

24. "Your product":

a. Means:

(1) Any goods or products, other than real property, manufactured, sold, handled, distributed or disposed of by:

(a) You;

(b) Others trading under your name; or

(c) A person or organization whose business or assets you have acquired; and

(2) Containers (other than vehicles), materials, parts or equipment furnished in connection with such goods or products.

b. Includes

(1) Warranties or representations made at any time with respect to the fitness, quality, durability, performance or use of "your product"; and

(2) The providing of or failure to provide warnings or instructions.

c. Does not include vending machines or other property rented to or located for the use of others but not sold.

25. "Your work":

a. Means:

(1) Work or operations performed by you or on your behalf; and

(2) Materials, parts or equipment furnished in connection with such work or operations.

b. Includes

(1) Warranties or representations made at any time with respect to the fitness, quality, durability, performance or use of "your work", and

(2) The providing of or failure to provide warnings or instructions.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDER(S)

This policy is subject to the following additional Conditions:

A. If this policy is cancelled by the Company, other than for nonpayment of premium, notice of such cancellation will be provided at least thirty (30) days in advance of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

B. If this policy is cancelled by the Company for nonpayment of premium, or by the insured, notice of such cancellation will be provided within (10) days of the cancellation effective date to the certificate holder(s) with mailing addresses on file with the agent of record or the Company.

If notice is mailed, proof of mailing to the last known mailing address of the certificate holder(s) on file with the agent of record or the Company will be sufficient proof of notice.

Any notification rights provided by this endorsement apply only to active certificate holder(s) who were issued a certificate of insurance applicable to this policy's term.

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Craven Thompson
& Associates, Inc.
Project Management
Engineering
Landscape Architecture
Surveying & Planning

3563 NW 53rd Street
Fort Lauderdale, FL 33309
Phone: (954) 739-6400

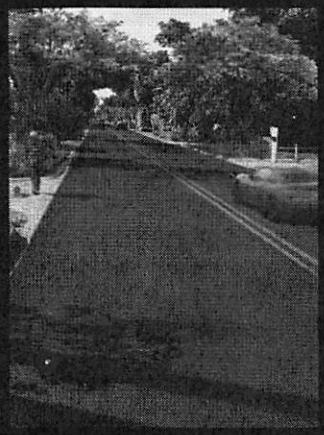
PREPARED FOR

CITY OF FORT LAUDERDALE

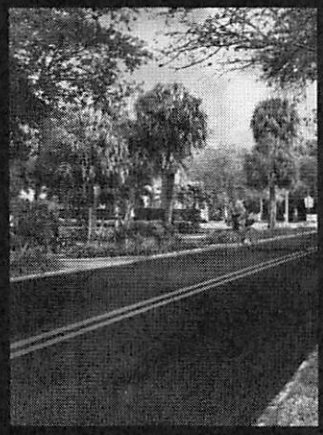
CIVIL ENGINEERING, CONTINUING SERVICES CONTRACT
RFQ # 12637-421

MARCH 28, 2022

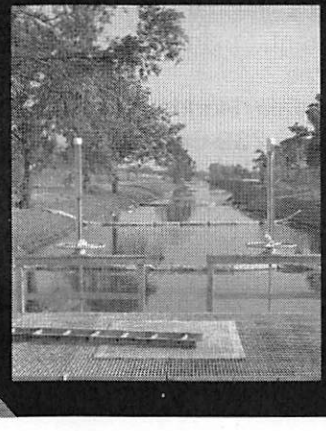
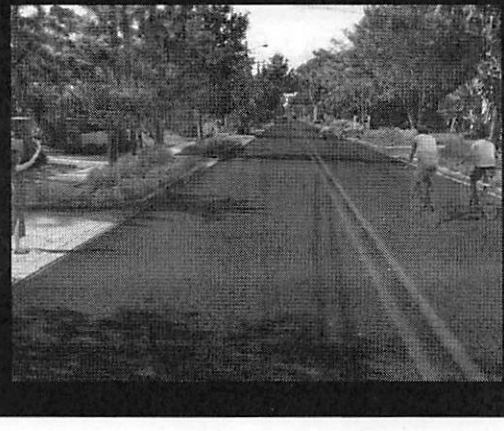










CTA

LETTER OF INTEREST

March 28, 2022

Attn: Ms. Mary K Kleinpeter-Zamora, Procurement Administrator
City of Fort Lauderdale
Procurement Services Division
100 N. Andrews Avenue, 6th Floor
Fort Lauderdale, Florida 33301

RE: CIVIL ENGINEERING CONTINUING SERVICES CONTRACT
CITY RFQ # 12637-421

Ms. Kleinpeter-Zamora and Selection Committee Members:

Craven Thompson and Associates, Inc. is pleased to submit this Statement of Qualifications for your consideration in response to the City of Fort Lauderdale's Request for Qualifications for *"Civil Engineering Continuing Services Contract".*

Over the years, we have provided civil engineering, surveying, landscape architecture and construction project management services to numerous municipalities and governmental agencies. We currently have Continuing Services Contracts with:

- City of Coconut Creek
- City of Coral Springs
- City of Deerfield Beach
- City of Delray Beach
- City of Dania Beach
- Dania Beach CRA
- City of Fort Lauderdale
- City of Greenacres
- City of Hallandale Beach
- Hallandale Beach CRA
- City of Hollywood
- City of Lauderdale Lakes
- City of Miami Beach
- City of Miami Gardens
- City of Miramar
- City of North Miami
- City of North Miami Beach
- City of Oakland Park
- Oakland Park CRA
- City of Pompano Beach
- City of Plantation
- City of Sunny Isles Beach
- City of Sunrise
- Town of Davie
- Davie CRA
- Town of Southwest Ranches
- Village of Palm Springs
- City of West Palm Beach
- Broward County Water and Wastewater Services
- Central Broward Water Control District
- Tindall Hammock Irrigation & Soil Conservation District

Authorized Representative/Principal-In-Charge/Project Manager:
Patrick J. Gibney, P.E., Vice President, Engineering
Craven Thompson & Associates, Inc.
3563 NW 53rd Street, Fort Lauderdale, Florida 33309
Phone: (954) 739-6400 / Fax: (954) 739-6409
Email: pgibney@craventhompson.com

We have teamed with sub-consultants, Hillers Electrical Engineering, for lighting and electrical engineering, and RGD Consulting Engineers for mechanical engineering, HBC Engineering for Transportation/Traffic Engineering, TRC Worldwide Engineering, Inc. for structural engineering, Cummins Cederberg for coastal engineering & environmental, Tierra South Florida, inc. for geotechnical services, Manuel G. Vera for photogrammetry/lidar, and InfraMap Corp for S.U.E. services for this contract.

The Craven Thompson team commits to providing the City of Fort Lauderdale with the highly experienced staff (identified in this response) necessary for the successful surveying, design, permitting, and management of the city's projects. We will provide all staff time and resources needed to meet the goals, objectives, expectations, schedule and budget prescribed by the City of Fort Lauderdale.

We sincerely appreciate the opportunity of providing this response to the City of Fort Lauderdale and hope to continue to build upon the relationship we have with the City and staff.

Sincerely,

CRAVEN THOMPSON & ASSOCIATES, INC.

PATRICK J. GIBNEY
Vice President, Engineering

PJG/tg

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Section 4.2.2: Executive Summary

EXECUTIVE SUMMARY

Craven Thompson was founded in 1962 and has a large group of professional engineers, graduate engineers, surveyors, G.I.S. specialists, landscape architects and planners. Craven Thompson has been providing civil engineering, surveying and CEI services for the past sixty (60) years, landscape architectural services for the past thirty-seven (37) years, and G.I.S. services for the past sixteen (16) years. Craven Thompson has seventy employees consisting of four landscape architects, one planner; twenty-seven civil engineers, twenty surveyors & GIS specialists (includes field crews), two construction managers, construction inspectors; AutoCAD technicians, and administrative support personnel.

Craven Thomspon is very experienced in surveying/GIS, roadway, stormwater/drainage, water, sanitary sewer, and reuse water design, permitting, and CEI services. Craven Thompson has completed a large number of water and sanitary sewer projects including:

- Numerous sections of the Utility Zone Analysis (UAZ) Program (UAZs 108, 122, 123, 124, 308, & 310 including roadway reconstruction, water – including rear to front of lot service conversions) and sanitary sewer/septic tank elimination)
- Numerous County Neighborhood Improvement projects comprised of over 5,000 acres (including roadway reconstruction, stormwater/drainage improvements, watermain services from rear to front, approximately 90,000 linear feet of reuse main extension, and septic tank conversion)
- City of Hollywood John U. Lloyd Watermain Directional Drilling Project
- City of Boca Raton Chatham Hills Watermain
- City of Greenacres 10th Avenue North Sanitary Sewer
- City of Plantation Historical Area Watermain Improvements
- City of Plantation Gardens Phase IIB Watermain Replacement
- City of Oakland Park Watermain and Sanitary Replacement;
- City of Hollywood Watermain Replacement and Septic Tank Conversion
- Davie Eastside Infrastructure Phases 2 & 3
- Numerous Broward County Water & Wastewater Services Septic Tank Elimination projects

We have also designed over forty-five (45) lift stations over the past ten years. These include such stations as; Lift Stations: W-14, A-6, E-02, A-07, A-13, A-15 and A-16 for the City of Hollywood; Lift Stations: 50B, 50B1, 50B3, 50C, 50C1, 224, 226, 24E1, 22, 30E, 30T, 30U and 50K2 for Broward County Water and Wastewater Services; Pump station A-13 for the City of Fort Lauderdale, Pump Station 8 for the City of Hallandale Beach and Lift Stations: A2, C1, 5 & 8 for the City of Oakland Park.

The following table demonstrates our extensive experience within the past ten years in the potable water & sanitary design discipline:

Governmental Entity	Watermain (Linear Feet)	Sanitary (Linear Feet)	Forcemain (Linear Feet)	ROW Rest. (Linear Feet)	Water Services (Each)	Septic Tank Conversion (Each)
Broward County	540,000	360,000	57,000	900,000	9,000	6,400
Boca Raton	100,000	0	0	100,000	1200	0
Davie	28,000	12,750	3,000	29,800	260	275
Hollywood	246,000	238,000	19,000	123,000	1,500	4,200
Oakland Park	49,000	7,000	7,000	41,200	800	0
Lake Worth Beach	20,000	0	0	14,300	510	0
North Miami Beach	14,500	0	0	4,600	170	0
Plantation	55,000	0	0	43,500	520	0
TOTAL	1,052,500	617,750	86,000	1,256,400	13,960	10,875

Craven Thompson has prepared comprehensive stormwater management plans for the cities of Aventura, North Lauderdale, North Miami Beach, Hallandale Beach, Sunrise, Miami Gardens, Greenacres, and portions of Miramar and Fort Lauderdale. In addition, we are the drainage engineers for Tindall Hammock Irrigation and Soil Conservation District (THISCD), and the Central Broward Water Control District (CBWCD) providing planning, capital improvements costs, design and construction administration services which resolved flooding and environmental concerns for the Cities. Craven Thompson has performed major and minor stormwater basin studies and has implemented recommendations of those studies through design, permitting, and CEI of basin-wide improvements. Our stormwater master planning projects include computer modeling using Streamline Technologies ICPR Software as well as PCSWMM, the commercial version of US EPA SWMM5 Software. Craven Thompson has used the ICPR for the past twenty (20) years, and utilizes the latest update, V4.



We have designed and permitted over 500,000 linear feet of storm sewer and exfiltration trench in the past 10 years. These designs have included sustainable practices such as the design of bio-swales, exfiltration trench, tidal backflow devices, STORMCEPTORS, and wetland/retention preserve areas. We are currently finalizing the Historic Miramar Areawide Drainage Improvements, Phase I, and the Durrs and River Oaks Neighborhood Drainage Improvement Projects in Fort Lauderdale. We have completed the Park East Drainage Improvements; Historic District Drainage Improvements; Plantation Isles Drainage Improvements; Royal Palm Estates Drainage Improvements; El Dorado Estates Drainage Improvements; and the Plantation Golf Estates Drainage Improvements in Plantation, and also preparing the Hollywood Reservation stormwater master plans for the Seminole Tribe of Florida.

In summary, a sample of our recent stormwater/drainage design projects include:

- Original Section Drainage Improvements, Phases 1 – 6, Greenacres
- River Oakes & Durrs Neighborhood Improvement Project, Fort Lauderdale
- SFWMD C-17 Outfall Replacement, Lake Park
- Historic Miramar Infrastructure Improvements – Phase IV
- Hallandale Beach CDBG Swale, Sidewalk, and Drainage Improvements
- N-17 Culvert Replacement, Davie
- Miami Gardens Livable Neighborhood Improvements
- N-29A Canal Connector Project, Davie
- NE 191st Street Drainage Improvements, Aventura
- Six neighborhood drainage projects in Plantation including: Royal Palm Neighborhood Drainage Improvements, Historical Area Neighborhood Drainage Improvements, Park East Neighborhood Drainage Improvements, Plantation Gold Estates Neighborhood Drainage Improvements, Plantation Isles Neighborhood Drainage Improvements, and El Dorado Neighborhood Drainage Improvements.

Craven Thompson has designed many projects that are roadway projects involving the addition of travel lanes and auxiliary lanes or simple roadway reconstruction and/or roadway milling and resurfacing. Designs have included roadway, sidewalks, driveway harmonization, water quality BMPs, swale regrading, storm drainage, stormwater quality & stormwater management, ADA improvements, water distribution system upgrades, sanitary lift stations, sanitary sewer lining, sanitary collection system upgrades, and force main replacement.

Additional roadway projects over the past ten years includes:

- 6th Avenue South Roadway and Streetscape Improvements, Lake Worth Beach
- NE 34th Court Complete Streets Project, Oakland Park
- NW 38th Street Complete Streets Project, Oakland Park
- SW 36th Street Improvements, Davie, Florida
- NE 191st Street Drainage Project, Aventura
- Kimberly Boulevard Complete Streets Project, North Lauderdale
- Miramar Historic Area – Phase II Complete Streets Project, Miramar
- Floranada Road Traffic Calming Improvements, Oakland Park
- NW 38th Street Improvements, Oakland Park
- Three Island Boulevard Traffic Calming Improvements, Hallandale Beach
- NE 14th Avenue Streetscape Project, Hallandale Beach
- NE 5th Avenue Streetscape Project, Oakland Park
- Spangler Boulevard Improvements, Port Everglades
- McIntosh Road Improvements, Port Everglades
- NW 21st Avenue, Broward County

Providing Surveying services has been, and continues to be, an important portion of Craven Thompson's business since 1962. Through selection and training of personnel and a program to obtain the best equipment available, we have developed a skilled and technically equipped Surveying Department, capable of conducting almost any type of survey. In addition to conventional boundary topographic and construction surveys, we have the experience to provide the latest in 3D Laser Scanning – High-Definition Surveying, Geodetic Control, PLSS Retracement, Hydrographic, Cadastral, Photogrammetric Control, Mobile LiDAR Surveys (with our subconsultants), Right-of-Way and Construction Surveys. Through the utilization of our Global Positioning System, 3D Laser Scanner and total stations with state-of-the-art data collectors, our survey data can be imported into a CADD environment which can be plotted or transferred to our clients via e-mail or on a thumb drive. Craven Thompson continues to refine and adapt CADD and GIS to a broad spectrum of uses. This blend of high technology with personalized service forms the core of every Craven Thompson project.

Our recent GIS project experience includes G.I.S. and Surveying Storm Sewer System Data Collection for North Miami Beach, G.I.S. and Surveying Storm Sewer System Data Collection for Fort Lauderdale, the City of North Miami Beach Water & Sewer G.I.S., the City of Fort Lauderdale Sanitary G.I.S. and Survey Data Collection, and many other smaller scale projects. In addition, we have developed high resolution LiDAR and mobile LiDAR to create surveying level topography and digital terrain models for a Master Stormwater Study for Hallandale Beach, North Miami Beach, and Aventura.

The Craven Thompson personnel designated for this project have extensive experience in surveying & GIS, roadway design, stormwater/drainage, watermain, sanitary sewer, and public facilities civil engineering. As a Fort Lauderdale based firm, we have been performing surveying and civil engineering design work for the City of Fort Lauderdale on a regular basis since 1962.

Section 4.2.3: Firm Qualifications and Experience

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
Civil Engineering, Continuing Services Contract, Fort Lauderdale, Florida

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
February 25, 2022	RFQ No. 12637-421

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Patrick J. Gibney, P.E., Vice President, Engineering

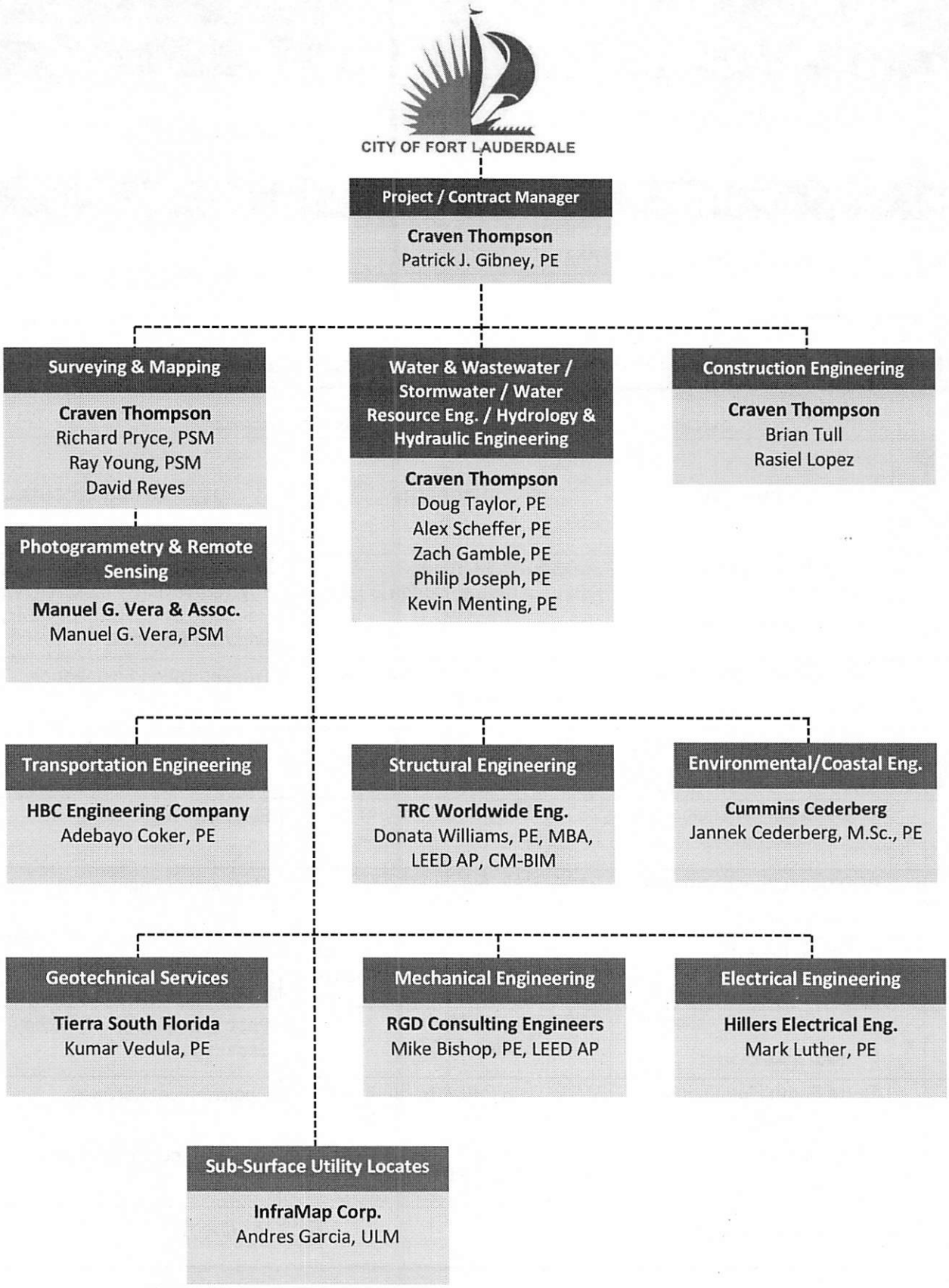
5. NAME OF FIRM
Craven Thompson & Associates, Inc.

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
(954) 739-6400	(954) 739-6409	pgibney@craventhompson.com

C. PROPOSED TEAM
(Complete this section for the prime contractor and all key subcontractors.)

	(Check) PRIME	(Check) J-V PARTNER	(Check) SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			Craven Thompson & Associates, Inc. ☐ CHECK IF BRANCH OFFICE	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Water/Wastewater Eng./Stormwater Eng./Surveying & Mapping/Water Resource Eng./Hydrology & Hydraulic Eng./CEI Services
b.			X	HBC Engineering Company ☐ CHECK IF BRANCH OFFICE	8935 NW 35th Lane, Suite 201 Doral, Florida 333172	Transportation Engineering
c.			X	TRC Worldwide Engineering ☒ CHECK IF BRANCH OFFICE	1230 North University Drive Plantation, Florida 33322	Structural Engineering
d.			X	Hillers Electrical Engineering ☐ CHECK IF BRANCH OFFICE	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Electrical Engineering
e.			X	RGD Consulting Engineers ☐ CHECK IF BRANCH OFFICE	2151 S. Alt. AIA, Suite 2000 Jupiter, Florida 33477	Mechanical Engineering
f.			X	Cummins Cederberg ☐ CHECK IF BRANCH OFFICE	888 S. Andrews Ave., Suite 206 Fort Lauderdale, Florida 33316	Environmental Engineering / Coastal Engineering
g.			X	Manuel G. Vera & Assoc. ☐ CHECK IF BRANCH OFFICE	1396 SW 47th Street Miami, Florida 33175	Photogrammetry and Remote Sensing
h.			X	Tierra South Florida, Inc. ☐ CHECK IF BRANCH OFFICE	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Geotechnical Services
i.			X	InfraMap Corp. ☒ CHECK IF BRANCH OFFICE	1100 N. Florida Mango Rd. #D West Palm Beach, Florida 33409	Sub-Surface Utility Locates

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☒ *(Attached)*


CITY OF FORT LAUDERDALE
Project / Contract Manager
Craven Thompson
Patrick J. Gibney, PE
Surveying & Mapping
Craven Thompson
Richard Pryce, PSM
Ray Young, PSM
David Reyes
Photogrammetry & Remote Sensing
Manuel G. Vera & Assoc.
Manuel G. Vera, PSM
Water & Wastewater / Stormwater / Water Resource Eng. / Hydrology & Hydraulic Engineering
Craven Thompson
Doug Taylor, PE
Alex Scheffer, PE
Zach Gamble, PE
Philip Joseph, PE
Kevin Menting, PE
Construction Engineering
Craven Thompson
Brian Tull
Rasiel Lopez
Transportation Engineering
HBC Engineering Company
Adebayo Coker, PE
Structural Engineering
TRC Worldwide Eng.
Donata Williams, PE, MBA, LEED AP, CM-BIM
Environmental/Coastal Eng.
Cummins Cederberg
Jannek Cederberg, M.Sc., PE
Geotechnical Services
Tierra South Florida
Kumar Vedula, PE
Mechanical Engineering
RGD Consulting Engineers
Mike Bishop, PE, LEED AP
Electrical Engineering
Hillers Electrical Eng.
Mark Luther, PE
Sub-Surface Utility Locates
InfraMap Corp.
Andres Garcia, ULM

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Patrick J. Gibney, P.E.	Project/Contract Manager	35	29

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Rutgers, The State University, Bachelor of Science, Civil Engineering (1987)	Professional Engineer - Florida No. 49428 (1995)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
American Society of Civil Engineers, FDOT Pre-Qualified Roadway Construction Engineering Inspection

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*: River Oaks Neighborhood Drainage Project, Fort Lauderdale, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2016 - 2018; CONSTRUCTION *(If applicable)*: 2022 - 2023
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Improvements included: 12,677 LF of swale re-grading, 5,346 LF of pipe removal, removal of 251 structures, installation of 90 LF of 15" storm sewer, 4,374 LF of 18" storm sewer, 4,675LFt of 24" storm sewer, 1,771 LF of 36" storm sewer, 145 LF of 48" storm sewer, 3,129 LF of 66" diameter storm sewer, 1,056 LF of 72" storm sewer, 2,640 LF of 24" exfiltration trench, 236 drainage structures, 2 - STORMCEPTER water quality structures, a TIDEFLEX backflow prevention valve, and 4,219 LF of sidewalk, one small stormwater pump station, & one large stormwater pump station.

b.
(1) TITLE AND LOCATION *(City and State)*: NW 10th Avenue Improvement Project, Oakland Park, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 - 2020; CONSTRUCTION *(If applicable)*: 2021 - 2022
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
The scope of work includes design of 2,900 linear feet of roadway, landscaping, irrigation, photo-metrics, coordination, drainage, LAP services, etc. for the NW 10th Avenue Roadway Project from Park Lane West (NW 33rd Street) to Prospect Road, including preparation of contract documents and permitting. Generally, improvements include the addition of bike lanes, curbing, six (6) feet wide sidewalk on the west side of the roadway, landscaping and irrigation system, swale and street lighting improvements.

c.
(1) TITLE AND LOCATION *(City and State)*: Las Olas Watermain and Forcemain Design Criteria Package, Fort Lauderdale, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2015; CONSTRUCTION *(If applicable)*: 2016
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
The purpose of this $3.1 Million project, completed in December 2016, was to deepen a critical 20-inch water main crossing of the ICW along with adding a new 16-inch sewage force main to enhance system reliability.

d.
(1) TITLE AND LOCATION *(City and State)*: Pump Station A-13 & Sewer Redirection East of Federal Highway, Fort Lauderdale, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2015; CONSTRUCTION *(If applicable)*: 2019
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
This project was for the construction of Lift Station A-13, located at the southeast corner of Southeast 2nd Court and Southeast 8th Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.

e.
(1) TITLE AND LOCATION *(City and State)*: El Dorado Neighborhood Drainage Improvements, Plantation, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017- 2019; CONSTRUCTION *(If applicable)*: 2020
3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Improvements included: 3,072 linear feet of swale re-grading, 1,963 linear feet of storm pipe removal, installation of 930 linear feet of 15" diameter storm sewer, 160 linear feet of 18" diameter storm sewer, 768 linear feet of 24" diameter storm sewer, 105 linear feet of 30" diameter storm sewer, installation of 48 – 30" diameter ADS drainage structures. Restoration of the disturbed right-of-way areas was also included.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Douglas R. Taylor, P.E.	Civil Engineer	38	11

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
University of Illinois (UIUC) Bachelor of Civil Engineering (1984)	Professional Engineer - Florida No. 50569 (1996) Professional Engineer - IL No. 44542 (1988)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
-FEMA ICS 100,200,700,800 - FEMA G300, G400) -Florida Green Building Council -Florida Redevelopment Association, APWA

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Miramar Historic Area Complete Streets Project – Phase II Miramar, Florida	2018 - 2019	2019

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager - Craven Thompson was selected by the City for Phase II of their Historical Area Complete Streets Project. The project included surveying, landscape and engineering design, permitting and construction services for complete streets in the Historic Area. The project included six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape.

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
SW 36th Street Improvements Davie, Florida	2015	2019

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Senior Engineer - The project consisted of roadway, roadway drainage, utility and landscape/hardscape improvements to SW 36th Street in Davie, Florida. The existing roadway section was approximately 22' wide and was expanded to 25' wide. SW 36th Street was designed as a two (2) lane divided boulevard from College Avenue to SW 76th Avenue within a 75-foot public right-of-way width.

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Kimberly Boulevard Complete Streets Project North Lauderdale, Florida	2018 - 2019	2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager for the Design and permitting of 1.2 miles of roadway, bicycle lane, median enhancements, a roundabout, landscaping, hardscape and lane reduction for an existing four-lane roadway subject to speeding and traffic accidents between autos, pedestrians, and bicyclists, Craven Thompson is providing survey, civil engineering, landscape architecture and construction administration and inspection.

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Plantation Golf Estates Neighborhood Drainage Improvements, Plantation, Florida	2017 - 2019	2020 - 2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Mr. Taylor is assisting with the design and permitting Improvements of the project which includes: 1,000 LF of swale re-grading, 913 LF of storm pipe removal, installation of 532 LF of 15" storm sewer, 352 LF of 18" storm sewer,29 LF of 72" storm sewer, dredging of 4,875 LF of existing canal, installation of 28 – 30" diameter ADS drainage structures. Restoration of the disturbed right-of-way areas was also included.

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Historic Miramar Drainage Infrastructure Improvements Project - Phase IV, Miramar, Florida	2018 - 2021	2022 - 2023

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Senior Engineer - The improvements constructed to alleviate the flooding included: 85,942 linear feet of re-graded swales, 205 new drainage structures, 17,598 linear feet of valley gutter, 3,000 linear feet of 15" diameter RCP storm sewer, 19,141 linear feet of 24" diameter exfiltration trench, pavement milling and overlay, 8 outfall replacement / rehabilitations, driveway removal and replacement, pavement marking & signage, various other right-of-way restoration improvements.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Alex Scheffer, P.E., LEED Green Associate	Civil Engineer	16	10

15. FIRM NAME AND LOCATION *(City and State)*

Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
University of Florida, Bachelor of Science in Civil Engineering (2006)	Professional Engineer - Florida No. 73802 (2012)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

LEED Green Associate - ID No. 10850250

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Design/Build Redundant Bypass Line (Zone 4B & 4C) - 54" Force Main, Fort Lauderdale, Florida	2020 - 2021	2020 - 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Senior Engineer. Mr. Scheffer assisted with design of the installation of 54" nominal OD HDPE Force Main by Horizontal Directional Drill (HDD), with sections of open cut trench installation of 16" HDPE Force Main. The total length of Horizontal Directional Drill (HDD) 54" OD HDPE Force Main is 3,223 LF in length which was proposed to minimize the disturbance to the community and limit the amount of pavement restoration, with an additional 653 LF of 16" HDPE Force Main installed by open cut trench.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	2016	2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

The project included the construction of a sanitary sewer collection system consisting of 19,345 linear feet - 8" gravity main; 1,350 linear feet - 10" gravity main; 4,800 linear feet - 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 linear feet - 6" main; 10,875 linear feet - 8" main; 5,205 linear feet - 10" main; 3,690 linear feet - 12" main; 630 linear feet - 16" main.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Durrs Neighborhood Drainage Improvements Fort Lauderdale, Florida	2019 - 2021	2022 - 2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Senior Civil Engineer - Improvements include: 22,506 linear feet of swale re-grading, 29,650 linear feet of storm pipe removal, removal of 260 storm drainage structures, installation of 13,104 linear feet of 15" diameter storm sewer, 8,358 linear feet of 18" diameter storm sewer, 5,790 linear feet of 24" diameter storm sewer, 1,014 linear feet of 30" diameter storm sewer, 1,794 linear feet of 36" diameter storm sewer, 200 linear feet of 48" diameter storm sewer, 3,500 linear feet of 24" diameter exfiltration trench, installation of 293 new drainage structures, 3,520 square yards of permeable pavement, 2 - nutrient separating baffle boxes (NSBB), and 31,440 linear feet of sidewalk. Restoration of the disturbed right-of-way areas was also included.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Design/Build South Middle River Force Main Crossing - 16" Redundant Pipe, Fort Lauderdale, Florida	2020 - 2021	2020 - 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Mr. Scheffer managed the project which involved the installation of 16" nominal OD HDPE Force Main under the South Middle River Waterway, with sections of open cut trench installation of 16" PVC Force Main. The total length of subaqueous crossing of 16" HDPE Force Main is 1092 Linear Feet (LF) in length, with an additional 832 Linear Feet (LF) of 16" PVC Force Main installed by open cut trench.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Leonard "Zach" Gamble, P.E.	Civil Engineer	20	16

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 4723 W. Atlantic Avenue, Suite 12A, Delray Beach, Florida 33445

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
North Carolina State University (2002) Bachelor of Science in Mechanical Engineering	Professional Engineer - Florida No. 65921 (2007)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Swain Boulevard Complete Streets Project Greenacres, Florida	2014 - 2015	2016

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager - Mr. Gamble is managing the design and permitting of the Swain Boulevard Complete Streets Project which is a 4,500 linear foot project running from Lake Worth Road to 10th Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. Project also includes traffic circles at 1st Street, and 4th Street.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Original Section Drainage Improvements – Phases 1 - 6 Greenacres, Florida	2014 - 2020	2015 - 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager – The Original Section Project encompasses 246 acres. The Phase 1 project required installation of 500 LF of 36" RCP storm pipe, 1,010 LF of 24" RCP Storm Pipe, 156 LF of 18" RCP Storm Pipe, 156 LF of 12"x18" RCP Storm Pipe, significant ditch reshaping, sidewalk replacement, and replacement of outfall to LWDD canal; Phase 2 included 6,200 LF of ditch grading and 4 culvert crossings; Phase 3 included 1,000 LF of drainage pipe; Phase 4 involved ditch reshaping and 5 culvert crossings; Phase 5 encompassed the replacement of 6 outfalls, and the restoration of 120 LF of canal; Phase 6 included the replacement of 9 outfalls, drainage pipe, and canal restoration.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2nd Street Traffic Circle and Sidewalk Improvements Greenacres, Florida	2019	2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager - Craven Thompson designed and permitted a traffic circle at 2nd Street and Swain Boulevard in Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb & gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, and ADA improvements as well as drainage design for drainage in conflict with proposed sidewalk.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Chatham Hills Infrastructure Upgrade Boca Raton, Florida	2018	2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager - Project involves relocation and upsizing (where needed) approximately twenty-four thousand five hundred (24,500') feet of existing domestic water mains from the rear yards to the rights-of-way. This includes abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the structure as well as restoration of private and public property.

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Ramblewood Drainage Greenacres, Florida	2014	2015

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager - The project required 615 linear feet of drainage piping, 351 linear feet of exfiltration trench, 1,000 linear feet of sidewalk, and numerous driveway restorations within the neighborhood road rights-of-ways. Significant pavement restoration was also required.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Philip Joseph, P.E.	Civil Engineer	27	17

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
- FAU, Boca Raton - Master - Business Administration (2001) - FAU, Boca Raton - MS in Mechanical Engineering (1993)	Professional Engineer - Florida No. 50825 (1996)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Member, American Society of Mechanical Engineers, Computer Skills: AutoCAD, MicroStation, SewerCAD, WaterCAD,

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Government Center Commercial Alleyways 2" Watermain Replacement - Phase 1, North Miami Beach, Florida	2017	2020

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Engineer – Mr. Joseph provided design and permitting services for the upgraded Government Center system including: 4,830 linear feet of 4" diameter main, 67 water services, and 12 gate valves along with 2,800 square yards of pavement restoration.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lift Station A-6 Upgrade Hollywood, Florida	2015	2017

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Engineer. This project involved the reconstruction of sanitary sewer Lift Station A6 which included the replacement of the existing suction lift pump station with a new wet well, submersible pumps, converting the existing wet well into a manhole, valve vault, panels, SCADA system as well as hardscape and landscaping. The pumps were designed as variable frequency drives in order to meet the flow-pressure requirements provided by the city.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lift Station E-2 Rehabilitation Project Hollywood, Florida	2013 - 2014	2015

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

The lift station was equipped with three - 22 horsepower pumps, which were upgraded to 46.94 horsepower pumps. The final design upgraded the pumps to three - 45 horsepower pumps to meet the build-out increased sanitary flow and the current DEP standards. All the 8-inch piping and valves were upgraded to 12-inch size.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Triplex Lift Station 50B Rehabilitation Lauderdale Lakes, Florida	2020 -2021	2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Mr. Joseph assisted with design, permitting, bidding, and construction management/administration of the 12' diameter wet well, replacement of the valve pit, all new internal piping and valves, a new emergency generator, and replacement of the control panel. This project involved the construction of a submersible triplex station including *new 20 HP HOMA submersible pumps*, 10" diameter piping, a 12' diameter wet well, valve box, control panel and *a new emergency generator*. The station was designed to pump 1,760 gallons per minute at 51 feet of head.

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Utility Analysis Zone Improvement Program (UAZ) 310 Broward County, Florida	2011 - 2016	2014 - 2016

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Mr. Joseph designed, and permitted a complete water distribution system consisting of 2,120 linear feet - 6" main, 38,502 linear feet - 8" main and 6,895 linear feet - 12" D.I.P. main. The construction also included sixty-three (63) new fire hydrants.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Kevin Menting, P.E.	Civil Engineer	7	7

15. FIRM NAME AND LOCATION *(City and State)*

Craven Thompson & Associates, Inc., 4723 W. Atlantic Avenue, Suite 12A, Delray Beach, Florida 33445

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Florida Atlantic University, Boca Raton, Florida (2015) Bachelor of Science - Civil Engineering	Professional Engineer - Florida No. 92016 (2021)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Boca Villas Infrastructure Upgrade Boca Raton, Florida	2019	2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Engineer - The water distribution system improvements include:1,100 linear feet – 4" main, 19,605 linear feet – 6" main, 16,459 linear feet – 8" main, 6,453 linear feet – 12" main, 2,982 linear feet – 16" main, 36 fire hydrants, the abandonment and grouting of 28,700 linear feet of existing watermain, and the construction of 600 water services.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Chatham Hills Infrastructure Upgrade Boca Raton, Florida	2018	2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Engineer - Project involved relocation and upsizing (where needed) approximately twenty-four thousand five hundred (24,500') feet of existing domestic water mains from the rear yards to the rights-of-way. This included abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the structure as well as restoration of private and public property.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lake Worth 2" Watermain Replacement - Phase 2 Lake Worth Beach, Florida	2016	2018

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Phase 2 consisted of: 11,859 linear feet of 4" diameter main, 4,902 linear feet of 6" diameter main, 509 water services, 16 fire hydrants, 78 gate valves, and the restoration of the right-of-way including 11,141 linear feet of roadway and curb & gutter and sidewalk.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lake Worth 2" Watermain Replacement - Phase 3 Lake Worth Beach, Florida	2017	2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Engineer- Mr. Menting was involved in the preparation of Contract Documents, Permitting and Construction Services for Phase 3 of this project. Phase 3 consisted of: 7,480 linear feet of 4" diameter main, 5,330 linear feet of 6" diameter main, 600 linear feet of 8" diameter man, 370 water services, 14 fire hydrants, 30 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lake Worth 2" Watermain Replacement - Phase 4 Lake Worth Beach, Florida	2018	2020

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Engineer - Phase 4 consisted of: 10,206 linear feet of 4" diameter main, 10,870 linear feet of 6" diameter main, 600 water services, 19 fire hydrants, 62 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Brian Tull	Construction Manager	22	15

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Certified for Troxler Nuclear Testing (2009) United States Navy - Mechanical and Safety Inspector on F-14 Tomcat Aircraft	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Tull is a Senior Construction Inspector with 22 years of experience in all phases of construction in civil design and inspections on residential, commercial, and governmental projects.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Sistrunk Blvd. Streetscape and Enhancement Project, Fort Lauderdale, Florida	N/A	2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Responsible for Construction Engineering Inspection services for Sistrunk Boulevard Streetscape and Enhancement Project. The project was funded and managed by the Fort Lauderdale CRA and included streetscape improvements consisting of landscape, median, paver sidewalk, lighting, drainage and other improvements. Work included close coordination with existing businesses during construction, public relations to keep all parties informed of improvements, maintenance of traffic coordination to ensure access to all properties throughout construction and a full time RPR on-site managing the project. The project was federally funded including LAP funding.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Westside Drainage Improvements Davie, Florida	2017	2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Responsible for construction management. The storm sewer was 3,225 linear feet, the exfiltration trench was 1,270 linear feet, the roadway, 6,100 linear feet and the sidewalk 2,300 linear feet. The main storm sewer trunk line system for the area has been design and permitted by Craven Thompson & Associates.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
SW 36th Street Improvements Davie, Florida	2015	2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Senior Construction Inspector - The project consisted of roadway, roadway drainage, utility & landscape/ hardscape improvements to SW 36th Street in Davie, Florida. The existing roadway section was expanded form 22' to 25' wide. SW 36th Street was designed as a two-lane divided boulevard from College Ave. to SW 76th Avenue within a 75-foot public ROW width.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Davie Road Phase I Roadway Improvements – CEI Services Davie, Florida	N/A	2015 -2016

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Construction Inspector - This project involved the construction engineering inspection services to re-construct a public roadway known as Davie Road Phase 1 within public right-of-way owned by Broward County extending from the State Road 84 Right-of-Way to Nova Drive. The length of the reconstruction was approximately 2,640 linear feet. The construction project consisted of pavement, base and sub-grade reconstruction, curb & gutter construction, bike lane construction, sidewalk construction, median construction, driveway reconstruction within the R.O.W., drainage system construction, landscaping & irrigation construction, pavement marking & signage, traffic signal modification at Reese Road and at Nova Drive, street lighting, and coordination with utility companies.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Rasiel Lopez	Senior Construction Inspector	22	12

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
MOT Intermediate certified, Troxler Nuclear safety gauge certified, Asphalt paving level I certified Earthwork level I certified, CTQP Currently training for the following certifications: Asphalt paving level II, Earthwork level II, FDOT Concrete Field Tech, Final Estimates I and II, MDC: Fire and Building Safety Codes, OSHA 10hr certified, Stormwater Management Inspector

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*: Utility Analysis Zone (UAZ) 122, Lauderdale Lakes, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2016 — CONSTRUCTION *(If applicable)*: 2021
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Senior Construction Inspector - The project included the construction of a sanitary sewer collection system consisting of: 19,345 linear feet - 8" gravity main; 1,350 linear feet - 10" gravity main; 4,800 linear feet - 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 linear feet - 6" main; 10,875 linear feet - 8" main; 5,205 linear feet - 10" main; 3,690 linear feet - 12" main; 630 linear feet - 16" main.

b.
(1) TITLE AND LOCATION *(City and State)*: Pines Village Watermain Phase I Post Deign Services, Pembroke Pines, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(If applicable)*: 2019
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Craven Thompson provided post design services for the Pines Village Watermain Improvements Phase I. The Pines Village Water Main Improvements Project Phase I consisted of the removal and replacement of the existing water mains within the Phase I limits. These improvements included water main replacement, new water services from main in the roadway to either the existing meter location or the house connection location.

c.
(1) TITLE AND LOCATION *(City and State)*: Master Lift Station W-14 Upgrade, Hollywood, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2014 — CONSTRUCTION *(If applicable)*: 2021 - 2022
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
The project involved the replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, and replacement of motor control panels.

d.
(1) TITLE AND LOCATION *(City and State)*: Utility Analysis Zone (UAZ) 108, Lauderdale Lakes, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2016 — CONSTRUCTION *(If applicable)*: 2021
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Senior Construction Inspector - The sanitary collection system consisted of: 26,875 linear feet – 8" gravity main, 1,395 linear feet – 10" gravity main, 2,790 linear feet – 12" gravity main, 1,530 linear feet – 6" force main, 3,630 linear feet – 8" force main, 1,350 linear feet - 10" force main, 1,140 linear feet - 16" force main, 452 service laterals, and two lift stations. The water distribution system improvements included: 24,560 linear feet – 6" main, 8,450 linear feet – 8" main, 6,300 linear feet – 10" main, 975 linear feet – 12" main, 150 linear feet – 16" main, 1,425 linear feet – 20" main.

e.
(1) TITLE AND LOCATION *(City and State)*: Utility Analysis Zone (UAZ) 124, Lauderdale Lakes, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2007 — CONSTRUCTION *(If applicable)*: 2012
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Included was a sanitary sewer system consisting of 25,446 linear feet – 8" gravity main, 302 linear feet – 10" gravity main, 2,003 linear feet – 12" gravity main, and 46 linear feet – 16" gravity main. The sanitary force main system consisted of 2,350 linear feet – 8" main, and 3,790 linear feet 12" main. The water distribution system additions included 28,810 linear feet – 6" main, 4,440 linear feet – 8" main and 5,380 linear feet – 10" main.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Richard D. Pryce, P.S.M.	Professional Surveyor	49	16

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Associates of Science in Criminal Justice, BCC (1978) Certificate in advanced GIS & Remote Sensing, BCC (2002)	Professional Surveyor and Mapper Florida No. 4038 (1983)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
- Current Director, Broward County Chapter of Florida Surveying Mapping Society

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Fort Lauderdale Storm Water Geodetic & Control Survey and GIS Fort Lauderdale, Florida	2016 - 2017	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Survey Project Manager. Responsible for Geodetic & Control Survey, and LiDAR of the City, As-built/Inventory 5,400 Stormwater Features for GIS Model.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
SW 190th Avenue Topographic Survey Southwest Ranches, Florida	2016	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal Survey Manager - Craven Thompson prepared a topographic survey of SW 190th Avenue, from one hundred (100) feet south of SW 49th Street, to the north edge of pavement of Griffin Road, approximately 1,215 linear feet in length. The survey consisted of the existing twenty (20) foot wide of platted right-of-way, and a minimum of thirty (30) feet west and twenty-five (25) feet east of the existing right-of-way, for locations and topographic elevations. The locations included up to one hundred (100) feet east and west of each intersection.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Pine Island Road Drainage As-builts for BCHCED Broward County, Florida	2018	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal Survey Manager - Craven Thompson prepared Record Drawing of Drainage Structures on Pine Island Road for Broward County Highway Construction & Engineering Division. We established horizontal control points within the project area. All survey control horizontal locations were tied into the State Plane, Florida East Zone, NAD 83/90 Coordinate system.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Fort Lauderdale Sanitary Sewer Mapping– GIS and Surveying Fort Lauderdale, Florida	2018 - 2019	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal Survey /GIS Manager. Responsible for establishing Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory, 5,917 Sanitary Manholes, 190 pump Stations, 15 meters, and 80 miles of force mains and their associated valves.

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Margate Hydrographic Canal Survey Margate, Florida	2016	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Craven Thompson provided professional Surveying services for the proposed canal rehabilitation and pedestrian path. Craven Thompson prepared Boundary, Topographic and Hydrographic Survey of the canal lying along the east side of Parcel "A", "Margate Third Addition". The north-south canal was extremely overgrown with Brazilian Pepper and Australian Pines which made it difficult to locate edge of water, top of bank and deep cut line.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Raymond Young, P.S.M.	Professional Surveyor	41	29

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
	Professional Surveyor and Mapper Florida No. 5799 (1998)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Florida Society of Professional Surveyors and Mappers

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Hollywood Seminole Reservation Stormwater Data Collection/GIS, Hollywood, Florida	2020 - 2021	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, age, and structure condition were obtained in the field.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Storm Sewer Outfall Replacement to SFWMD C-17 Canal Survey, Lake Park, Florida	2017	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Survey Project Manager - He prepared an As-built survey of the 2 outfalls and 2 drainage structures in the City of Lake Park, and including 1 structure at the car wash property and the next 4 drainage structures upstream from and south of the Firestone property within the North Lake Blvd. R.O.W. The survey included 3 hydrographic cross-sections of a portion of SFWMD Canal C-17 at the 2 outfall locations to show the existing bank slope above and below the water out to the edge of water of the canal. .

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Hydrographic and Storm Water Infrastructure Survey Greenacres, Florida	2016	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Surveyor. Along with our sub-consultant, Craven Thompson created a survey from high-resolution, low-level LiDAR and ground surveying. The survey included roadways and canal cross-sections for proposed Drainage Improvements. Also, included Right-of-way surveys, storm drains, canals and ditches along 1st Street in the Original Section area of the City of Greenacres and a portion of Lake Worth Canal E-3 (cross sectioned).

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Topographic/Hydrographic Surveys for Boat Ramps Improvements, Sunrise, Florida	2018	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Prepared topographic survey, including elevations obtained from a hydrographic survey, at six (6) different canal locations. The survey limits consisted of only those canal locations for the purpose of engineering design for eight (8) boat ramps.

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Greenacres - Digital Topographic Mapping for FEMA Flood Map, Greenacres, Florida	2015	Not Applicable

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Craven Thompson created a survey from high-resolution, low-level LiDAR and ground surveying. The survey included roadways and canal cross-sections for proposed Drainage Improvements. Also, included Right-of-way surveys, storm drains, canals, and ditches along 1st Street in the Original Section area of the City of Greenacres and a portion of Lake Worth Canal E-3 (cross sectioned).

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
David Reyes	Senior GIS/Survey Technician	30	8

15. FIRM NAME AND LOCATION *(City and State)*
Craven Thompson & Associates, Inc., 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Multiple Continuing Education programs in Surveying, GIS, and Mapping technologies.	Certified Survey Technician Level III, FL, 2003 FDOT Maintenance of Traffic, FL

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
- Member, CAICE Users Group - Member, Florida GPS Users Group - Member, Florida Local Users Group
- MicroStation Community - Secretary, Florida Surveying & Mapping Society, Broward County Chapter 2004
- Member, Florida Surveying & Mapping Society, Indian River County Chapter 2008

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*: Fort Lauderdale Sanitary Sewer System GIS & Surveying, Fort Lauderdale, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 - 2019; CONSTRUCTION *(If applicable)*: Not Applicable
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Craven Thompson established Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory of Manholes, Pump Stations, meters, valves, air valves and 80 miles of force mains.

b.
(1) TITLE AND LOCATION *(City and State)*: Fort Lauderdale Stormwater Master Plan – GIS & Surveying, Fort Lauderdale, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2016 - 2017; CONSTRUCTION *(If applicable)*: Not Applicable
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile Lidar computer extraction and Digital Terrain Model development.

c.
(1) TITLE AND LOCATION *(City and State)*: City-Wide Digital Topographic Mapping, Greenacres, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2014; CONSTRUCTION *(If applicable)*: Not Applicable
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
The project consisted of Aerial LiDAR mapping of the portion of the City of Greenacres lying north of Lake Worth Road for submittal to FEMA to be included in the latest Flood Mapping updates. The survey included a GPS network of control to meet horizontal & vertical accuracies to 0.10 feet on all hard surfaces in the project area.

d.
(1) TITLE AND LOCATION *(City and State)*: Stormwater GIS/Data Collection Project, North Miami Beach, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 - 2018; CONSTRUCTION *(If applicable)*: Not Applicable
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Data Collection and G.I.S. Specialist - The City is divided into six (6) zones and that structure/pipe data was collected within each zone and identified by zone and structure numbers. GIS data was collected and processed utilizing the City's existing Unit ID naming system in the geodatabase. The Craven Thompson data was collected by a Unique ID. We provided the city with a copy of the updated geodatabase with all the proposed data fields to be collected for review.

e.
(1) TITLE AND LOCATION *(City and State)*: Central Broward Water Control District - East Basin Project - Aerial LiDAR & DTM, Town of Davie and Southwest Ranches, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2013 - 2014; CONSTRUCTION *(If applicable)*: Not Applicable
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, and CAD Technician for final drawings and computations for Hydrographic & topographic surveys. Also included Digital Terrain Model development.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
River Oaks Neighborhood Drainage Improvements Fort Lauderdale, Florida	2016 - 2018	2022 - 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Rares Petrica, MBA, P.E. Senior Project Manager	Phone: (954) 828-6720 Email: RPetrica@fortlauderdale.gov

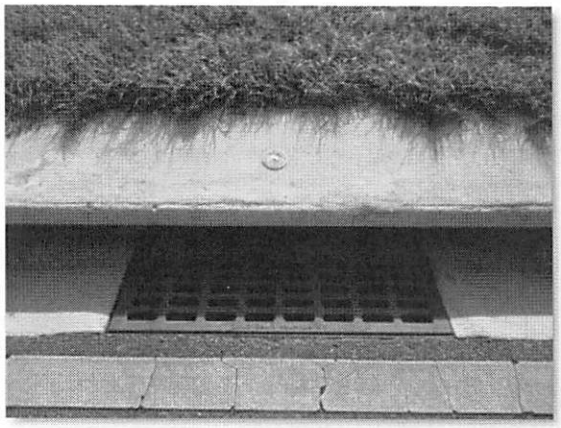
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The River Oaks neighborhood is located east of I-95 and South Fork New River and is bounded by State Road 84 to the south, Davie Road to the north, and SW 9th Avenue to the east. The neighborhood occupies a total area of approximately 518-acres.

A major objective was to collect the runoff from the low areas. Selective pipe upsizing, pipe interconnections, the installation of permeable pavement and exfiltration trench was used to reduce road flooding in the residential areas. The improvements reduced flood stages and time of inundation above road crowns for a 10 year-24-hour design storm event and to protect against structural flooding in a 100 year-72-hour storm event. Craven Thompson developed construction documents (design, permitting, and CEI services) for the neighborhood. Our design included new piping & structures (conveyance system), exfiltration trench, sea level rise – backflow prevention and seawall height. In addition, we designed nutrient separating baffle boxes (NSBB), and STORMCEPTOR water quality structures.

Improvements included:

- 12,677 linear feet of swale re-grading,
- 5,346 linear feet of storm pipe removal,
- removal of 251 storm drainage structures,
- installation of 90 linear feet of 15" diameter storm sewer,
- 4,374 linear feet of 18" diameter storm sewer,
- 4,675 linear feet of 24" diameter storm sewer,
- 1,771 linear feet of 36" diameter storm sewer,
- 145 linear feet of 48" diameter storm sewer,
- 3,129 linear feet of 66" diameter storm sewer,
- 1,056 linear feet of 72" diameter storm sewer,
- 2,640 linear feet of 24" diameter exfiltration trench,
- installation of 236 new drainage structures,
- 2 - STORMCEPTER water quality structures,
- one TIDEFLEX backflow prevention valve,
- and 4,219 linear feet of sidewalk.



The project also included one small duplex stormwater pump station, and one large stormwater pump station.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Sub-consultant – Stormwater Management, Storm System Design, Permitting, Survey, GIS, and Stormwater Modeling
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
c.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Durrs Neighborhood Drainage Improvements Fort Lauderdale, Florida	2019 - 2021	2022 - 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Rares Patricia, MBA, P.E. Senior Project Manager	Phone: (954) 828-6720 Email: RPetrica@fortlauderdale.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Durrs Neighborhood is located on the western side of central Fort Lauderdale, bounded by Interstate 95 (I-95) on the west, Sunrise Boulevard (State Road 845) on the north, NW 12th Avenue on the east, and Sistrunk Boulevard/NW 6th Street on the south. The neighborhood is comprised of approximately 237-acres.

A major objective is to collect the runoff from the low areas. Selective pipe upsizing, pipe interconnections, the installation of permeable pavement and exfiltration trench will be used to reduce road flooding in the residential areas. Proposed improvements are intended to reduce flood stage and time of inundation above road crowns for a 10 year-24-hour design storm event and to protect against structural flooding in a 100 year-72-hour storm event. Craven Thompson is developing construction documents (design, permitting, & CEI services) for the neighborhood. Our design includes new piping & structures (conveyance system), exfiltration trench, sea level rise – backflow prevention and seawall height. In addition, we are designing nutrient separating baffle boxes (NSBB), and STORMCEPTOR water quality structures.

Improvements include:

- 22,506 linear feet of swale re-grading,
- 29,650 linear feet of storm pipe removal,
- removal of 260 storm drainage structures,
- installation of 13,104 linear feet of 15" diameter storm sewer,
- 8,358 linear feet of 18" diameter storm sewer,
- 5,790 linear feet of 24" diameter storm sewer,
- 1,014 linear feet of 30" diameter storm sewer,
- 1,794 linear feet of 36" diameter storm sewer,
- 200 linear feet of 48" diameter storm sewer,
- 3,500 linear feet of 24" diameter exfiltration trench,
- installation of 293 new drainage structures,
- 3,520 square yards of permeable pavement,
- 2 - nutrient separating baffle boxes (NSBB),
- and 31,440 linear feet of sidewalk.



Restoration of the disturbed right-of-way areas was also included.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Sub-consultant – Stormwater Management, Storm System Design, Permitting, Survey, GIS, and Stormwater Modeling
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
c.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*		20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Historic Miramar Drainage Infrastructure Improvements Project - Phase IV, Miramar, Florida	2018 - 2021	2022 - 2023

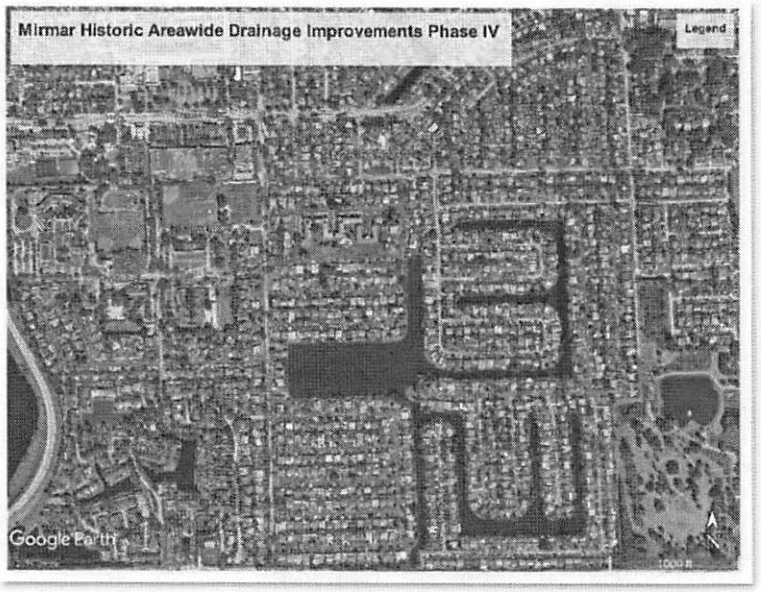
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Miramar	Ms. Marilyn Markwei, M.S., P.E., Public Works Streets and Drainage Engineer	Phone: (954) 883-6806 Email: mmmarkwei@miramarfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Historic Miramar Areawide Drainage - Phase IV, approximately 298 acres in area, is located in the general area bounded by SW 64th Avenue to the east, County Line Road to the south, Florida Turnpike to the west and Miramar Parkway to the north. The project area was poorly-drained and experienced significant flooding due to inadequate stormwater management facilities. The drainage basin depended upon percolation and evaporation in the grass swales along the roadways to remove excess stormwater runoff. Many of these grass swales had been filled in by residents to create landscape areas thus reducing storage and the effectiveness of percolation. Inlets and outfalls were limited in this area of the project.

The improvements constructed to alleviate the flooding included:

- 85,942 linear feet of re-graded swales,
- 205 new drainage structures,
- 17,598 linear feet of valley gutter,
- 3,000 linear feet of 15" diameter RCP storm sewer,
- 19,141 linear feet of 24" diameter exfiltration trench,
- pavement milling and overlay,
- 8 outfall replacement / rehabilitations, driveway removal and replacement,
- pavement marking & signage,
- various other right-of-way restoration improvements.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Civil Engineering / Drainage Design, ICPR Computer Modeling, Plan and Specification Production, Permitting, Bid Assistance, Construction Related Services, CWSRF Loan Administration Assistance, and Grant Writing
b.	(1) FIRM NAME InfraMap Corp	(2) FIRM LOCATION *(City and State)* 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Sub-consultant - Sub-Surface Utility Locates
c.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION *(City and State)* 2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	(3) Role Sub-consultant - Geotechnical Services
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 4

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Original Section Drainage Improvements – Phases 1-6 Greenacres, Florida	2014 -2019	2020

23. PROJECT OWNER'S INFORMATION

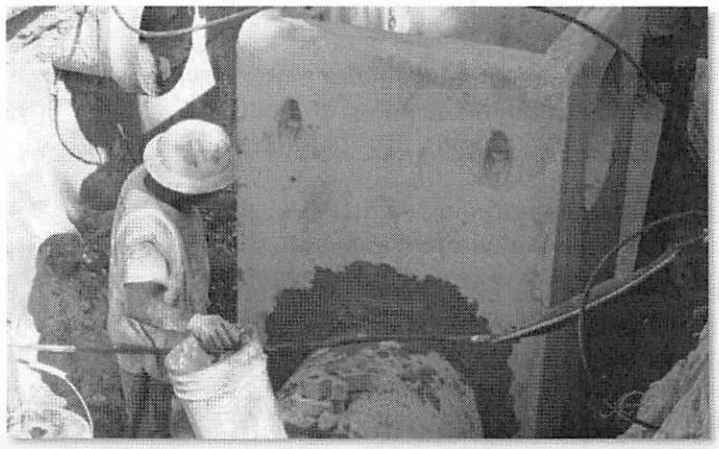
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Greenacres	Ms. Kara L. Irwin-Ferris, AICP, Building, Planning and Engineering Director	Phone: (561) 642-2054 Email: kferris@greenacresfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Original Section Drainage Improvements project located in the City of Greenacres is a master planned drainage improvement project for an existing 246 - acre neighborhood between Jackson Avenue and Fleming Avenue from Lake Worth Road to 10th Avenue North. The Master Plan included the modeling of existing and proposed drainage improvements using ***Interconnected Channel and Pond Routing*** **(ICPR)** software and developing phased improvements for the area. The project required over 6,500 LF of drainage pipe, 21,615 LF of ditch re-shaping, long lengths of sidewalk replacement, driveway restorations, and pavement restoration. Project challenges included improving a neighborhood without a typical modern drainage system in and working with numerous franchise utility conflicts.

- The Phase 1 project required installation of 500 LF of 36" RCP storm pipe, 1,010 LF of 24" RCP Storm Pipe, 156 LF of 18" RCP Storm Pipe, 156 LF of 12"x18" RCP Storm Pipe, significant ditch reshaping, sidewalk replacement, and replacement of outfall to LWDD canal;
- Phase 2 included 6,200 LF of ditch grading and 4 culvert crossings;
- Phase 3 included 1,000 LF of drainage pipe;
- Phase 4 involved ditch reshaping and 5 culvert crossings;
- Phase 5 encompassed the replacement of 6 outfalls, and the restoration of 120 LF of canal;
- Phase 6 included the replacement of 9 outfalls, the installation of drainage pipe, and canal restoration.

Each phase was permitted through the Lake Worth Drainage District (LWDD)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	Prime – Surveying, Stormwater Modeling, Drainage Design, Permitting, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 5

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Royal Palm Estates Neighborhood Drainage Improvements, Plantation, Florida	2017 - 2019	2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Plantation	Mr. Joseph DeGirolmo Engineering 1	Phone: (954) 797-2277 Email: jdegirolmo@plantation.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Royal Palm Estates Neighborhood. The neighborhood is 512 acres in size and is bounded by the El Dorado Neighborhood to the north, SW 63rd Avenue. to the east, S. University Drive to the west, and I-595 to the south.



Improvements included:

- 12,080 linear feet of swale re-grading,
- 11,279 linear feet of storm pipe removal,
- removal of 177 storm drainage structures,
- the installation of 4,093 linear feet of 15" diameter storm sewer,
- 2,483 linear feet of 18" diameter storm sewer,
- 4,691 linear feet of 24" diameter storm sewer,
- 371 linear feet of 30" diameter storm sewer,
- the removal and replacement of 3 outfalls,
- the installation of 154 – 30" diameter ADS drainage structures,
- 5 - type "C" catch basins,
- 5 - 4' diameter drainage structures,
- and 10 - 5' diameter drainage structures.

The project also included the dredging and re-shaping of 5,078 linear feet of existing canals. Restoration of the disturbed right-of-way areas was also included.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Stormwater Asset Assessment, Stormwater Modeling, Design, Construction Plans, Bid Assistance, Permitting, and CEI Services
b.	InfraMap Corp	1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 6

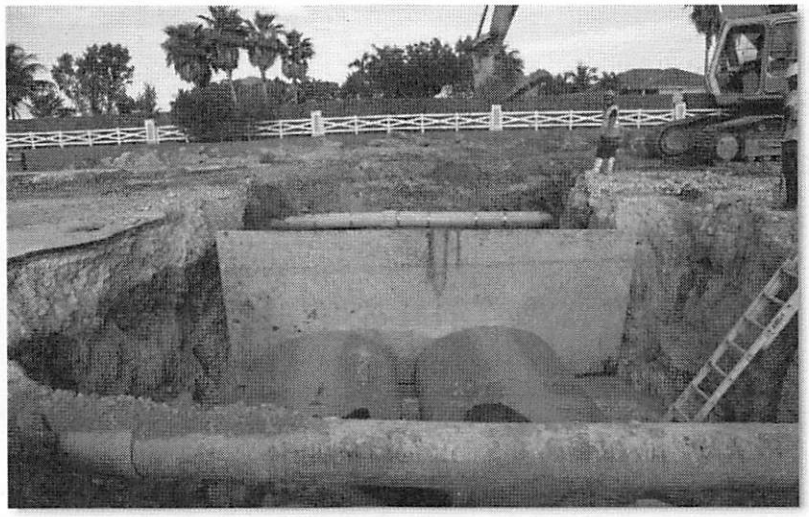
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Central Broward Water Control District – District Engineer, Davie, Florida	2007 - Present	Varies

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Central Broward Water Control District	Mr. Michael Crowley District Manager	Phone: (954) 432-5110 Email: districtmanager@centralbrowardwcd.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates has served as the District Engineer for the Central Broward Water Control District (CBWCD) since March 2007. In this capacity, we review and recommend approval of all drainage projects within the District; review variance requests; serve on the Development Review Committee; attend Board meetings; and prepare construction plans for capital improvement projects. Services to the District include plan and Constructability Review; engineering studies and reports; plan review, surveying; design & permitting for capital improvement projects; construction services; inspection services; and meeting attendance.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Stormwater Modeling, Design, Capital Improvement Development, Plan Review, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
c.	TRC Worldwide Engineering, Inc.	1230 N. University Drive Plantation, Florida 33322	Sub-consultant - Structural Engineering
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 7

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Plantation Golf Estates Neighborhood Drainage Improvements, Plantation, Florida	2017-2019	2020 - 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Plantation	Mr. Joseph DeGirolmo Engineer 1	Phone: (954) 797-2277 Email: jdegirolmo@plantation.org

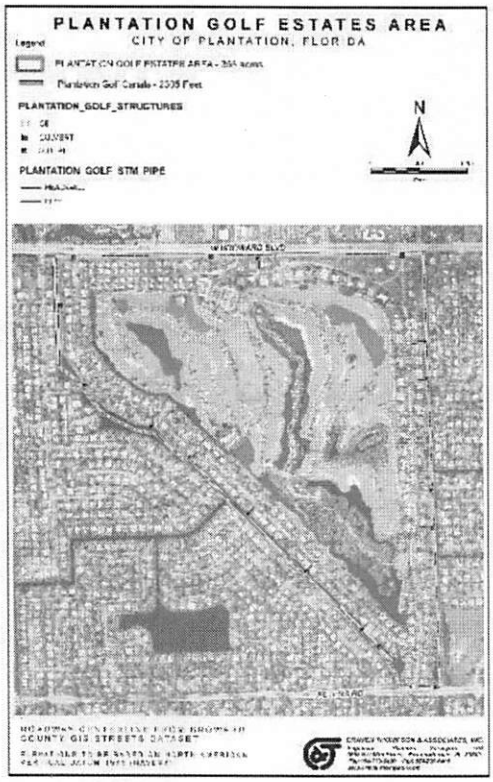
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Plantation Golf Estates Neighborhood. The neighborhood is 355 acres in size and is bounded by the El Dorado Neighborhood to the southwest, West Broward Boulevard to the north, the Plantation Park Neighborhood to the east, and West Broward Boulevard to the south.

Improvements include:

- 1,000 linear feet of swale re-grading,
- 913 linear feet of storm pipe removal,
- installation of 532 linear feet of 15" diameter storm sewer,
- 352 linear feet of 18" diameter storm sewer,
- 29 linear feet of 72" diameter storm sewer,
- dredging of 4,875 linear feet of existing canal,
- installation of 28 – 30" diameter ADS drainage structures.

Restoration of the disturbed right-of-way areas was also included.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Stormwater Asset Assessment, Stormwater Modeling, Design, Construction Plans, Bid Assistance, Permitting, and CEI Services
b.	InfraMap Corp	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 8

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City of Miami Gardens Livable Neighborhood Improvement Project – Vista Verde Phases 1D, 2, and 3 Miami Gardens, Florida	2018	2019 - 2020

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Miami Gardens	Mr. Tom Ruiz, CGC, CFM Public Works Director	Phone: (786) 279-1260 Email: truiz@miamigardens-fl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Vista Verde Phase 1D, 2, 3 Improvements project is located within the City of Miami Gardens bordered by NW 213th Street to the north, NW 207th Lane to the south, NW 37th Avenue (Douglas Road) to the east, and a vacant plot of land to the west. This is a drainage improvements project for the City of Miami Gardens.

Improvements include, but are not limited to the following:

- 7,280 linear feet of storm sewer,
- 5,640 linear feet of exfiltration trench,
- 140 drainage structures,
- 30,050 SY of roadway milling & resurfacing,
- and 29,900 SY of roadway reconstruction.



The project involved the design, permitting of Improvements for multiple phases within the Vista Verde neighborhood in the City of Miami Gardens. Craven Thompson processed permit applications with Miami Dade Department of Environmental Resources Management. Prepared bid documents. Craven Thompson provided all of the survey services, all civil engineering, and will provide construction management for the project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Stormwater Modeling, Drainage Design, Permitting, and CEI Services
b.	InfraMap Corp	1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
c.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 9

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Nova Southeastern University - Drainage Zone 2 Davie, Florida	2015 - 2016	Not Applicable

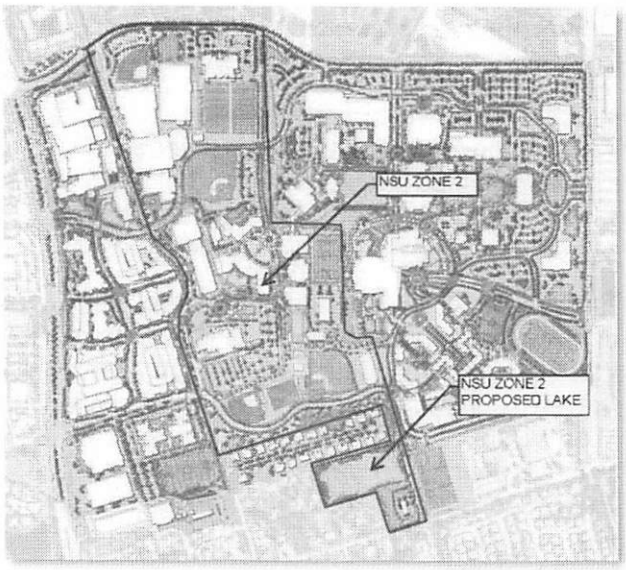
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Nova Southeastern University	Mr. Randall Seneff, Executive Director of Design and Construction	Phone: (954) 262-8805 Email: rseneff@nova.edu

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Zone 2 drainage basin consists of 73.50 acres and is divided into 10 major sub-basins. For analysis purposes (using ICPR), the Zone 2 drainage basin was further subdivided into twenty-eight (28) minor drainage basins (twenty-six (26) from the previous analysis and the 2 new basins). Craven Thompson generated the new analysis to accommodate the following:

- Eliminating underground/retention storage previously proposed under the proposed University School baseball fields, tennis courts and parking lot.
- Adding a lake on the Campus Commons Plat property (4.81 acres located at the SW corner of Nova Road and SW 72nd Avenue).
- Adding development on the FAA parcel (1.89 acres located at the NW corner of SW 39th Street and SW 73rd Avenue).
- Adding 1.53 acres of building on the existing parking lot west of the Dolphins' indoor training facility.
- Adding 1.20 acres of building on the existing baseball field west of the Dolphins' indoor training facility.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, GIS, Water Resources, Stormwater modeling
b.	InfraMap Corp	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **10**

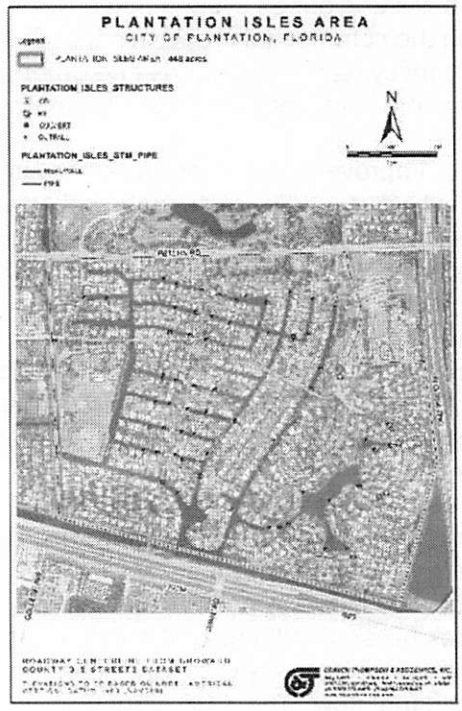
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Plantation Isles Neighborhood Drainage Improvements, Plantation, Florida	2017-2019	2020 - 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Plantation	Mr. Joseph DeGirolmo Engineer 1	Phone: (954) 797-2277 Email: jdegirolmo@plantation.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Plantation Isles Neighborhood. The neighborhood is 448 acres in size and is bounded the Peters Road to the north, the Florida Turnpike to the east, Royal Palm Estates to the west, and I-595 to the south.



Improvements include:

- 3,150 LF of swale re-grading,
- 5,359 LF of storm sewer removal,
- removal of 161 storm drainage structures,
- the installation of 2,217 LF of 15" diameter storm sewer,
- 471 LF of 18" diameter storm sewer,
- 429 LF of 24" diameter storm sewer,
- 576 LF of 30" diameter storm sewer,
- 828 LF of 36" diameter storm sewer,
- 321 LF of 42" diameter storm sewer,
- 101 LF of 48" diameter storm sewer,
- 116 LF of 72" diameter storm sewer.
- removal and replacement of 5 outfalls,
- installation of 160 – 30" diameter ADS drainage structures.

The project also included C.I.P.P. lining of:

- 1,213 LF of 12" diameter storm sewer,
- 3,488 LF of 15" diameter storm sewer,
- 1,839 LF of 18" diameter storm sewer,
- 487 LF of 21" diameter storm sewer,
- 1,540 LF of 24" diameter storm sewer,
- 244 LF of 30" diameter storm sewer,
- 482 LF of 42" diameter storm sewer,
- pipe bursting consisting of:
  - 93 LF of 12" diameter pipe with 15" pipe,
  - 56 LF of 15" diameter pipe with 18" pipe,
  - 166 LF of 21" diameter pipe with 24" pipe.
- Restoration of the disturbed right-of-way areas was also included.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Stormwater Asset Assessment, Stormwater Modeling, Design, Construction Plans, Bid Assistance, Permitting, and CEI Services
b.	InfraMap Corp	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
c.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 11

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Kingfisher Canal Outfall Treatment Structure Project Deerfield Beach, Florida	2017	2019

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Deerfield Beach	Mr. Tom Good, Director of Environmental Services	Phone: (954) 480-4432 Email: tgood@deerfield-beach.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The existing outfall system had several connections from adjacent properties such as US 1, areas west of US 1, and the commercial properties that the pipe traverses easterly toward the canal. This system is very susceptible to conveying floating debris and other pollutants to the canal due to US 1 curb inlets allowing floatables to pass from the inlets into the pipe without impediment.

The improvements consisted of combining both the twenty-four (24") inch and seventy-two (72") inch systems together in SE 9th Avenue. Installation of a CDS, water quality structure in-line with the seventy-two (72") inch pipe after the two systems combine was completed. The work included removing the existing drainage structure on the seventy-two (72") inch pipe at SE 9th Avenue and replacing it with a large structure to accommodate both pipes and the installation of the CDS structure.



The in-line system has an internal by-pass within the water quality treatment device. If there is ever a blockage in the by-pass within the device, the system will back up and spill out of the catch basins located along both drainage systems and drain into the canal by overland flow. The CDS structure is ten (10') foot in diameter and will accommodate the combined flow from both systems.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Stormwater Management, Storm System Design, Permitting, Survey, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **12**

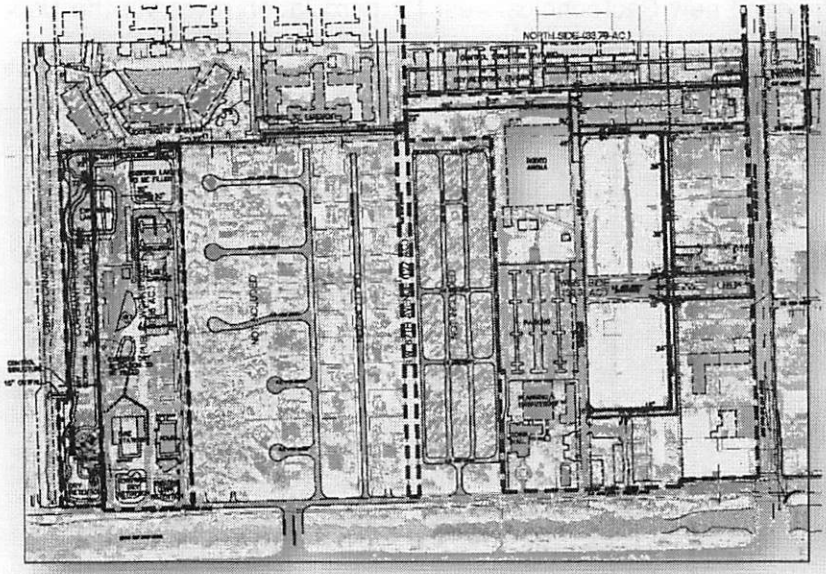
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Westside Drainage Improvements Davie, Florida	2017	2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Davie	Mr. Jonathon Vogt, P.E. Town Engineer	Phone: (954) 797-1137 Email: jonathan_vogt@davie-fl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson completed the Westside Infrastructure Improvements within the CRA, west of Davie Road and north of Orange Drive. The site is approximately thirty-four (33.79) acres and is bounded by SW 41st Court on the south, SW 67th Avenue on the west, SW 39th Street on the north, and Davie Road on the east. The project required an ICPR stormwater modeling analysis. The new control structure was placed in the dry retention area near the northern end of the Covenant House Park Site and has a 5.40-inch weir slot at invert elevation 3.55' NAVD to limit the discharge to the canal and provides the required water quality for the Public Works Site, Covenant House Park Site, and the West Side. The North Side has its own dry retention area for water quality and control structure with a weir elevation of 3.10' NAVD, prior to discharging to the main trunk line. The storm sewer was 3,225 linear feet, the exfiltration trench was 1,270 linear feet, the roadway, 6,100 linear feet and the sidewalk 2,300 linear feet. The main storm sewer trunk line system for the area has been design and permitted by Craven Thompson & Associates.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Stormwater Computer Modeling, Drainage Design, Permitting, Bid Assistance and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
c.	InfraMap Corp	1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 13

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hillsboro Pines Drainage Study Pompano Beach, Florida	2015 - 2016	Not Applicable

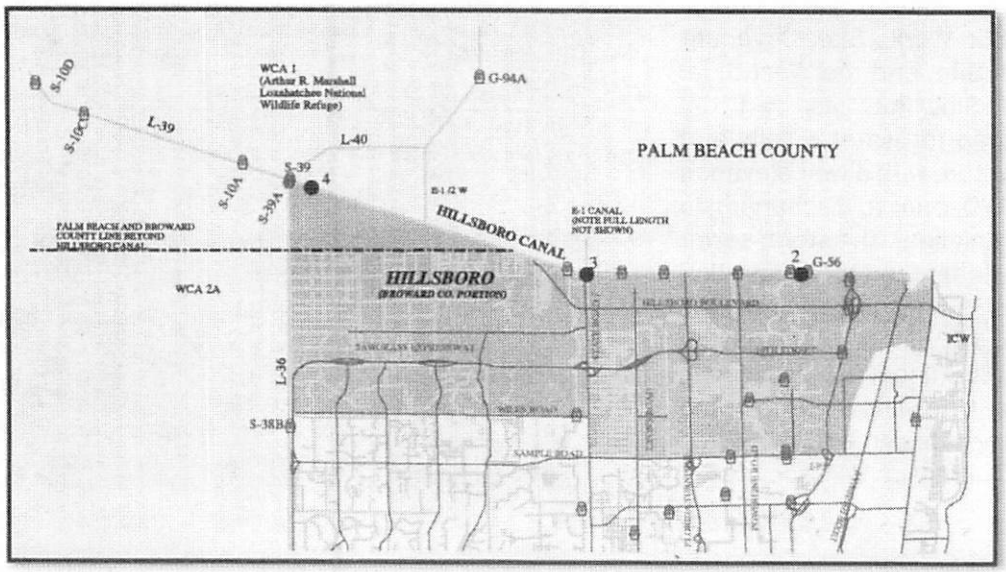
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Water & Wastewater Services	Mr. Patrick MacGregor Expansion Project Administrator	Phone: (954) 831-0904 Email: pamacgregor@broward.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson provided professional engineering services to County for the preparation of a Study as described below:

- Prepared a revised flood routing ICPR model to reflect the current vertical datum of NAVD 88 and incorporate plan revisions into model.
- Provided plan review services for proposed improvements.
- Provided new Geotechnical Test for percolation rates via the Usual Open Hole and Double Ring Infiltrometer Tests.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Stormwater Study, Water Resources, Stormwater Modeling
b.			
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **14**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
El Dorado Neighborhood Drainage Improvements Plantation, Florida	2017-2019	2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Plantation	Mr. Joe DeGirolmo Engineer 1	Phone: (954) 797-2277 Email: jdegirolmo@plantation.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the El Dorado Neighborhood. The neighborhood is 123 acres in size and is bounded by the Plantation Golf Estates Neighborhood to the northeast, West Broward Boulevard to the north, South University Drive to the west, and the Royal Palm Estates neighborhood to the south.

Improvements include:

- 3,072 linear feet of swale re-grading,
- 1,963 linear feet of storm pipe removal,
- installation of 930 linear feet of 15" diameter storm sewer,
- 160 linear feet of 18" diameter storm sewer,
- 768 linear feet of 24" diameter storm sewer,
- 105 linear feet of 30" diameter storm sewer,
- installation of 48 – 30" diameter ADS drainage structures.

Restoration of the disturbed right-of-way areas was also included.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Stormwater Asset Assessment, Stormwater Modeling, Design, Construction Plans, Bid Assistance, Permitting, and CEI Services
b.	InfraMap Corp	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Sub-Surface Utility Locates
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 15

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Tindall Hammock Irrigation & Soil Conservation District District Engineer, Broward County, Florida	2004 - Present	Varies

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Tindall Hammock Irrigation & Soil Conservation District	Mr. H. Collins Forman Chairman	Phone: (954) 566-6241 Email: collinsforman@hotmail.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates has served as the District Engineer for the Tindall Hammock Irrigation & Soil Conservation District since 2004. In this capacity, we review and recommend approval of all drainage projects within the District; review variance requests; review of Plats, attend Board meetings; and prepare construction plans for capital improvement projects. Services to the District include plan review; engineering studies and reports; surveying; design & permitting for capital improvement projects; construction services; inspection services; and meeting attendance.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Stormwater Modeling, Design, Capital Improvement Development, Plan Review, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects. if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 16

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Utility Analysis Zone (UAZ) 108 Lauderdale Lakes, Florida	2016	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Water & Wastewater Services	Mr. Patrick MacGregor Expansion Project Administrator	Phone: (954) 831-0904 Email: pamacgregor@broward.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

UAZ 108, a two hundred and twenty (220) acre area, is bounded by NW 44th Street to the north, NW 31st Avenue to the east, the SFWMD C-13 Canal to the south, and State Road 7 to the west in the City of Lauderdale Lakes, Florida.

The project included the construction of a sanitary sewer collection system consisting of:

- 26,875 linear feet – 8" gravity main,
- 1,395 linear feet – 10" gravity main,
- 2,790 linear feet – 12" gravity main,
- 1,530 linear feet – 6" force main,
- 3,630 linear feet – 8" force main,
- 1,350 linear feet - 10" force main,
- 1,140 linear feet - 16" force main,
- and 452 service laterals.
- Two lift stations



The water distribution system improvements included:

- 24,560 linear feet – 6" main,
- 8,450 linear feet – 8" main,
- 6,300 linear feet – 10" main,
- 975 linear feet – 12" main,
- 150 linear feet – 16" main,
- 1,425 linear feet – 20" main,
- the abandonment and grouting of 35,575 linear feet of existing watermain,
- and the construction of 441 water services (200 of which were back to front conversions).

In addition, 36,000 linear feet of roadway reconstruction was included along with right-of-way restoration.

Craven Thompson modeled the water and sewer systems using SewerCAD and WaterCAD as well as created the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Utility Modeling, Civil Engineering, Permitting, Bid Assistance, CEI/Construction Management & Inspection Services
b.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
c.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 17

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Design/Build Redundant Bypass Line (Zone 4B & 4C) - 54" Force Main, Fort Lauderdale, Florida	2020	2021

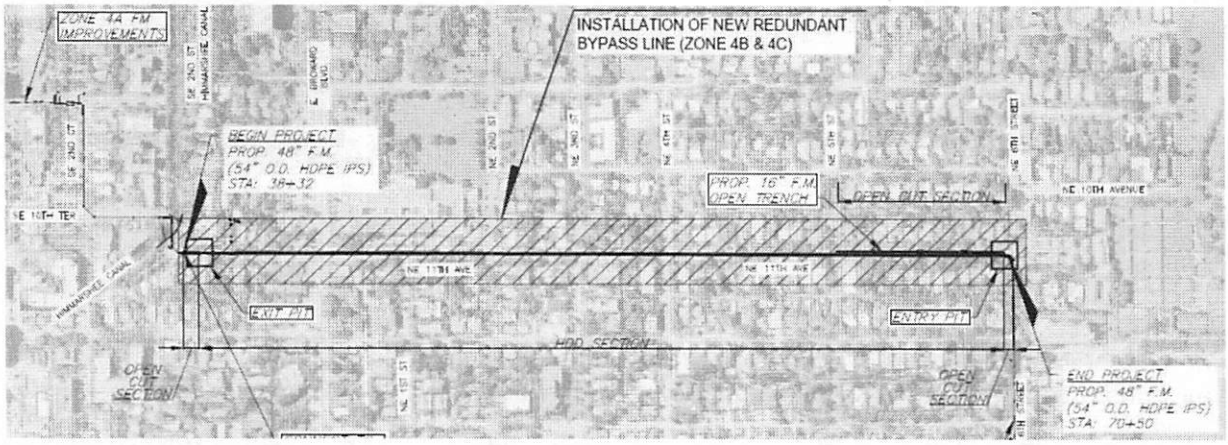
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Omar Castellon, P.E., PMP, ENV SP Acting Assistant Director – Public Works	Phone: (954) 828-5064 Email: ocastellon@fortlauderdale.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project involved the installation of 54" nominal OD HDPE Force Main by Horizontal Directional Drill (HDD), with sections of open cut trench installation of 16" HDPE Force Main. The total length of Horizontal Directional Drill (HDD) 54" OD HDPE Force Main is 3,223 Linear Feet (LF) in length which was proposed to minimize the disturbance to the community and limit the amount of pavement restoration, with an additional 653 Linear Feet (LF) of 16" HDPE Force Main installed by open cut trench. CTA provided full time construction management and inspection staff to monitor contractor adherence to schedule, resolve disputes and conflicts, process and respond to requests for information (RFIs), evaluate Change Order Requests and process valid requests, ensure that construction was performed in conformance with plans and specifications, review as-built plans and shop drawings, process monthly pay applications, complete substantial and final inspections, and certify the project.

The City of Fort Lauderdale awarded the Design Build Contract for the installation of redundant piping to DMSI, Inc. Craven Thompson & Associates was the Engineer of Record and DMSI, Inc. was the contractor on this Project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Subconsultant – Design, permitting, CEI
b.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
c.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Services
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 18

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Eastside Master Infrastructure Project – Phases 2 & 3 Davie, Florida	2015	2018

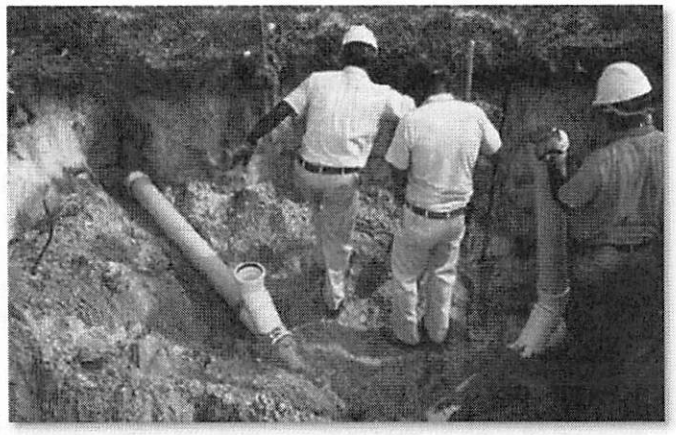
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Davie	Mr. Jonathon Vogt, P.E. Town Engineer	Phone: (561) 797-1137 Email: jonathan_vogt@davie-fl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project is composed of approximately 340 acres within the Town's CRA.

The water distribution included:

- 14,800 linear feet of 6" diameter main
- 5,075 linear feet of 8" diameter main
- 5,140 linear feet of 12" diameter main
- Abandon & grout 11,450 LF of existing watermain in place
- 50 fire hydrants
- 154 gate valves
- 40,400 linear feet of water service piping on private property



The sanitary improvements included:

- 11,455 linear feet of 8" diameter pipe,
- 40 sanitary manholes
- 2,945 linear feet of 16" diameter forcemain

The drainage/roadway work consisted of:

- 22,763 linear feet of roadway reconstruction
- 41,000 square yards of swale regrading
- 18,940 linear feet of storm sewer
- 12,450 square yards of sidewalk
- 7,400 square yards of driveway restoration
- 146 storm structures
- 3 outfalls
- 1 control structure
- The work also includes landscaping.

Craven Thompson & Associates performed surveying, subsurface locates, civil design and permitting, landscape architecture, prepared construction documents, bid assistance, and construction engineering services.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Stormwater Modeling, Drainage Design, Landscape Design, Water and Sewer Design, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering and Testing Services
c.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 19

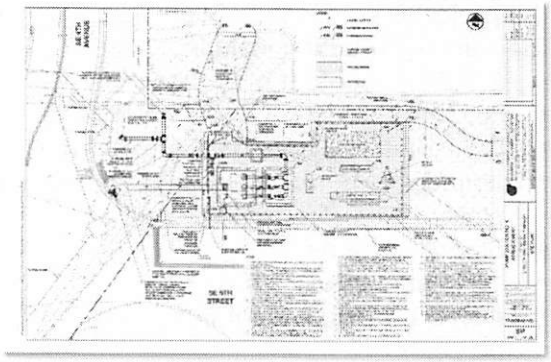
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Wastewater Pump Station No. 8 Design Criteria Package Hallandale Beach, Florida	2017	2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hallandale Beach	Mr. Peter Kunen City Engineer	Phone: (954) 457-3042 Email: pkunen@cohb.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates, Inc. provided surveying and developed the Design Criteria Package for Hallandale Beach Lift Station No. 8. The Design Criteria Package included:



- Prepared a written background information and general project description, including conceptual drawings (30%) and technical specifications to assist the Design Build Firm (DBF).
- Showed existing underground utilities provided by the City and Franchise Utilities within the vicinity of the proposed pump station which was incorporated in the DCP.
- Sewer CADD analysis was performed on wastewater transmission system using existing available information provided by City.
- Provided a Title Search on the adjacent parcel of land to the east of the existing PS 08 to determine the right to install a new station on the Post Office Land.
- The DCP included criteria related to the responsibility for utility locating, permits, and utility connections.
- Prepared general performance-based specifications for the work. The specifications identified the minimum requirements for execution of the work.
- Stipulation of responsibility for meeting environmental regulations were included in the DCP. The selected DBF was required to maintain full responsibility for meeting environmental regulations and conditions for all applicable permits.
- The DCP required that all drawings produced by the selected DBF be submitted in electronic (DWG & PDF) format.
- The DCP identified a project implementation schedule in Microsoft Project format, with design and construction milestone dates.
- Geotechnical Analysis was performed and included two 30' Soil Borings in the vicinity of the proposed pump station location.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime–Surveying, design, wastewater modeling, permitting, and CEI services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering and Testing Services
c.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **20**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
East Las Olas Boulevard Watermain and Forcemain DCP Fort Lauderdale, Florida	2015	2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Jorge Holguin Senior Project Manager	Phone: (954) 828-5675 Email: JHolguin@fortlauderdale.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City of Fort Lauderdale retained Craven Thompson & Associates, Inc. and Hazen and Sawyer to develop the design criteria package documents and obtain all long-lead permits for crossing of the ICW. This team's permitting expertise was critical to meeting the City's Deadline. The purpose of this $3.1 Million project, completed in December 2016, was to deepen a critical 20-inch water main crossing of the ICW along with adding a new 16-inch sewage force main to enhance system reliability. The impetus for this project was a Florida Inland Navigation District (FIND) plan to deepen the Intracoastal Waterway navigation channel from 10 to 17 feet below the water surface to stimulate economic development of the region's marine industry. This existing water main was buried at a shallow depth below the ICW channel bottom. Hence, replacement of the water main, by December 2016, prior to FIND's dredging, was critical to maintaining water service to the beach customers. The successful completion of the Intracoastal Waterway Crossings at Las Olas Boulevard project allowed the City of Fort Lauderdale to meet FIND's deadline for lowering this critical water main in advance of FIND's dredging. As result of this project, the City of Fort Lauderdale can continue to provide superior service to its water customers. Furthermore, the addition of redundancy in its sewer force main network will support economic development for many years. This project is the City's first use of design-build procurement, and is an example of the use of the Design-Build delivery system to successfully execute a project with a very tight schedule. The design-build team was retained in July 2016 and the new water main placed into service in November 2016.





<u>Scope of Project</u>

Florida Inland Navigation District's (FIND) implementation of the Intracoastal Waterway (ICW) Deepening Project began in May 2016. The ICW navigation channel was deepened in Broward County from 10 to 17 feet below the water surface from the 17th Street Causeway to Sunrise Boulevard. A deeper Intracoastal will stimulate economic development in the commercial and recreational marine industry, which will benefit all South Florida residents.

The City of Fort Lauderdale owns and operates a 16-inch subaqueous water main that crosses the ICW on the north side of the Las Olas Boulevard Bridge. This critical link in the City's water system would be negatively impacted by the dredging (illustrated in Figure 2-1) and therefore needed to be relocated in advance of the dredging. It was critical that the water main relocation be completed on time to maintain service to the beach customers.

The City and its consultants rapidly developed design criteria package (DCP) documents for the water main replacement.

The City also elected to expand the project scope to include the addition of a new sewer force main crossing of the ICW, to enhance its service reliability. To accelerate the project schedule, the City had its DCP consultant team obtain all permits and easements needed for crossing the ICW.

The major scope of work included:

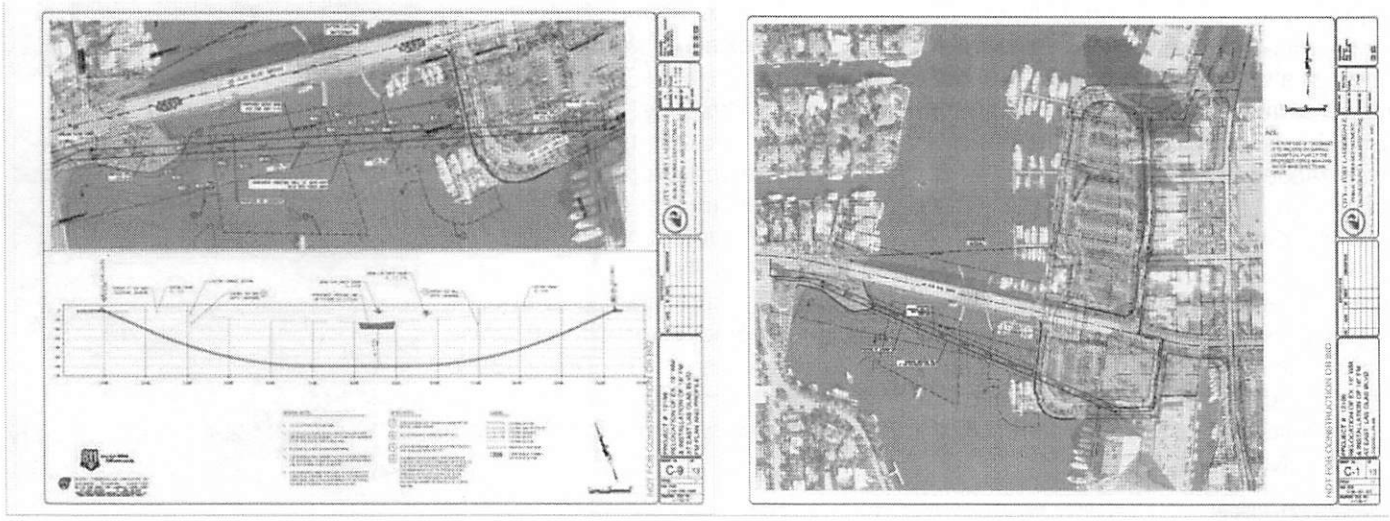
- Construction of 1,220 feet of 20-inch diameter water main crossing of the ICW, using high-density polyethylene (HDPE) pipe installed via horizontal directional drilling (HDD) at a depth of about 60 feet below water surface.
- Construction of 1,220 feet of 16-inch diameter force main crossing of the ICW, using high-density polyethylene

pipe installed via HDD at a depth of about 60 feet below water surface.

- Drilling was performed from the Las Olas Marina. After reaming, the HDPE pipe was strung out along Las Olas Boulevard (west of the bridge) in four pipe segments that were fused "on the fly" during the pullback.
- Construction of about 2,000 feet of 16-inch diameter AWWA C-905 PVC was installed via open-cut to connect the existing water main and force main to the newly installed directionally-drilled pipes. The new force main on the west side of the ICW was capped for a future connection.
- Once the new 20-inch water main was placed into service, the existing 16-inch water main on the north side of Las Olas Boulevard Bridge was cut and capped and abandoned in place.

Task Order No. 6

- Design Build Criteria Package for Water and Forcemain Installation at Las Olas and ICW
- 1,200 linear feet of 20" HDPE Watermain & 1,200 linear feet of 16"
- HDPE Forcemain Directional Drill Under ICW
- Coordination With FDOT, ACOE, FDEP & FIND
- DMSI is the Design Build firm for the project
- Cost $3,100,000
- Project Duration - 1 Year
- Dredging Operation to begin and potentially uncover the existing 16" Watermain Crossing



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION *(City and State)* 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Forcemain Design - Water & Wastewater Engineering, CEI / Construction Services
b.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION *(City and State)* 2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	(3) Role Sub-consultant - Geotechnical Engineering and Testing Services
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **21**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Chatham Hills Infrastructure Upgrade Boca Raton, Florida	2018 - 2019	2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Boca Raton	Ms. Lauren Burack, P.E. Capital Improvements Project Manager	Phone: (561) 338-7329 Email: lburack@myboca.us

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project included infrastructure improvements for the Chatham Hills neighborhood. Chatham Hills is bounded by NE 32nd Street on the north, Federal Highway on the east, NE 28th Street on the south and Dixie Highway on the west.

The improvements included: Relocation and upsizing of existing domestic water mains from the rear yards to the rights-of-way. This included abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the structure as well as restoration of private and public property. The new water main along Federal Highway interconnects to the existing infrastructure to the east. More specifically, the water distribution system improvements included:



- 10,971 linear feet – 6" main
- 7,387 linear feet – 8" main
- 1,607 linear feet – 12" main
- 2,596 linear feet – 16" main
- 28 fire hydrants
- abandonment and grouting of 15,700 linear feet of existing watermain
- and the construction of 280 water services (**All were rear of lot to front of lot conversions**)

In addition, the project included 19,900 linear feet of mill & overlay along with right-of-way restoration. Work also included sidewalk removal and replacement due to trip hazards, infill of missing segments of sidewalks to complete network, installation/replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements.

Specific tasks included survey, design, permitting, construction documents, bidding. and CEI services.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime– Surveying, Water Modeling, Water Design, Permitting, and CEI Services
b.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 22

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Lake Worth 2" Watermain Replacement Phase 3 Lake Worth Beach, Florida	2017 - 2018	2018 - 2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Lake Worth Beach	Ms. Julie Parham, P.E. Assistant Director of Water Utilities	Phone: (561) 586-1798 Email: jparham@lakeworthbeachfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Lake Worth Beach is a City situated in far eastern Palm Beach County with aging and undersized infrastructure. The City developed a program for the replacement of all 2" diameter watermains throughout the City. This is to be accomplished in six (6) yearly phases. The City sought and secured a FDEP Drinking Water State Revolving Fund loan for the project. Craven Thompson was retained by the City to provide survey, design, permitting, DWSRF loan assistance and construction services for Phases 2 – 6 of the project.



Phase 3 consisted of:

- 7,480 linear feet of 4" diameter main,
- 5,330 linear feet of 6" diameter main,
- 600 linear feet of 8" diameter man,
- 370 water services,
- 14 fire hydrants,
- 30 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime– Surveying, Water Modeling, Water Design, Permitting, DWSRF Loan Assistance. and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering and Testing Services
c.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **23**

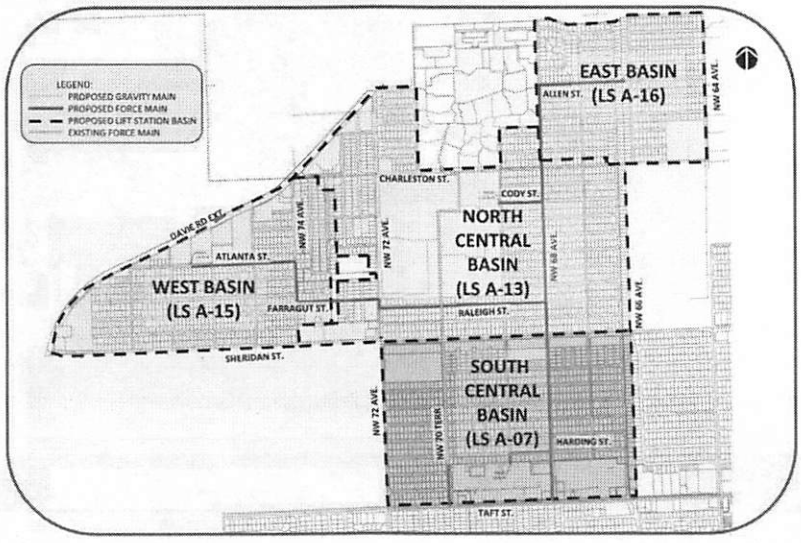
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Driftwood Septic to Sewer Conversion & Watermain Replacement – Phase 1, Hollywood, Florida	2018 - 2021	2022-2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Jeff Jiang, P.E. Assistant Director ECSD	Phone: (954) 921-3930 Email: fjiang@hollywoodfl.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This was part of the City-wide conversion of existing private sewer septic tank systems by expanding the city operated and maintained public sanitary sewer collection system. Craven Thompson created a Basis of Design Report and preliminary design layout splitting the service area into two (2) sewer basins. The layout provided expanded sanitary sewer service to approximately 1,828 single family residences, 222 multifamily residences and 981,000 SF of commercial property; for a total Average Daily Flow (ADF) of 733,900 GPD. Craven Thompson performed mobile LiDAR surveying, water meter use analysis, gravity sanitary sewer and force main system modeling and calibration, design, permitting and limited construction inspection of approximately 81,654 linear feet of 8" to 18" gravity sewer main, 16,598 linear feet of 8" to 30" force main, 9,416 linear feet of 16" reclaimed water main design, water main replacement, and 274 structures. Craven Thompson coordinated with the lot owners on easement requirements and connection details. This project also includes the removal and decommissioning of 11 existing lift stations, providing new service laterals and right-of-way restoration including pavement marking and signage.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Watermain Design, Permitting
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering and Testing Services
c.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **24**

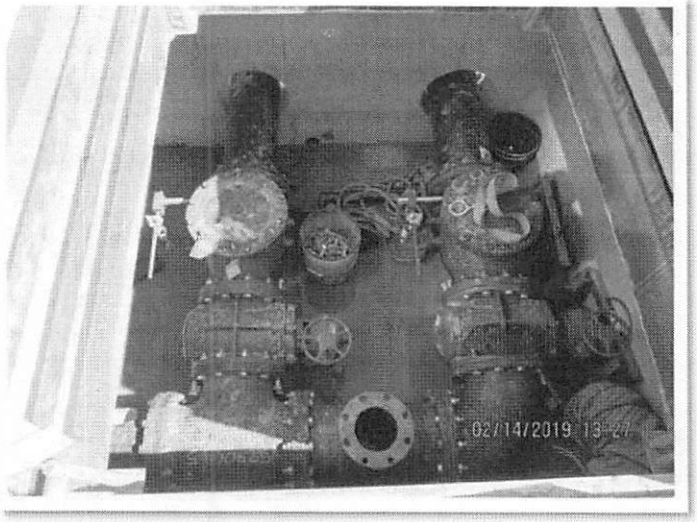
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Pump Station A-13 & Sewer Redirection East of Federal Highway, Fort Lauderdale, Florida	2015	2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Jorge Holguin Senior Project Manager	Phone: (954) 828-5675 Email: JHolguin@fortlauderdale.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This project was for the construction of Lift Station A-13, located at the southeast corner of Southeast 2nd Court and Southeast 8th Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station. The project also included the construction of a submersible triplex sewage pump station and valve vault with electric control panels and appurtenances. The Pump Station included a "Living Wall," located on the north, west, and east sides of the pump station site; this requires the removal of two trees, shrubs, and the restoration of the existing irrigation system. The project also included construction of a 14-inch diameter force main, within the right-of-way of Southeast 2nd Court from the proposed Pump Station to an existing 48-inch diameter force main at the intersection of Southeast 2nd Court and Southeast 9th Avenue. Services included survey, utility locates, geotechnical, electrical engineering for pump station, sanitary sewer design, permitting, bid documents and construction services.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime– Surveying, Wastewater Modeling, Wastewater Design, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering and Testing Services
c.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
d.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 25

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	2016	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Water & Wastewater Services	Mr. Patrick MacGregor Expansion Project Administrator	Phone: (954) 831-0904 Email: pamacgregor@broward.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

UAZ 122 is a one hundred and sixty (160) acre area bounded by the SFWMD C-13 Canal to the north, NW 47th Avenue to the east, West Oakland Park Boulevard to the south and the Florida Turnpike to the west in the City of Lauderdale Lakes, Florida.

The project included the construction of a sanitary sewer collection system consisting of:

- 19,345 linear feet - 8" gravity main
- 1,350 linear feet - 10" gravity main
- 4,800 linear feet - 8" force main
- and 105 service laterals
- Two lift stations



The water distribution system improvements included:

- 11,190 linear feet - 6" main
- 10,875 linear feet - 8" main
- 5,205 linear feet - 10" main
- 3,690 linear feet - 12" main
- 630 linear feet - 16" main
- abandonment and grouting of 25,435 linear feet of existing watermain
- and the construction of 66 water services

In addition, 30,600 linear feet of roadway reconstruction along with right-of-way restoration was constructed. Craven Thompson modeled the systems using SewerCAD and WaterCAD as well as created the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Utility Modeling, Civil Engineering, Permitting, Bid Assistance, CEI/Construction Management & Inspection Services
b.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
c.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **26**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Plantation Historical Area Watermain Plantation, Florida	2014 - 2015	2015 - 2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Plantation	Mr. Dan Pollio Assistant Utilities Director	Phone: (954) 797-2209 Email: dpollio@plantation.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Plantation Historical Area is located generally between Palm Tree Road, the Turnpike, Broward Boulevard, and Holly Lane. This project included the demolition of existing utilities, installation of water main and roadway/right-of-way restoration. The project included 33,200 linear feet of water main, the installation of 41 new fire hydrants, and the installation of 270 new water services. Craven Thompson provided mobile LiDAR surveying, design, permitting as well as CEI services.





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime– Surveying, Water Modeling, Water Design, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering and Testing Services
c.			
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 27

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Design/Build South Middle River Force Main Crossing - 16" Redundant Pipe, Fort Lauderdale, Florida	2020 - 2021	2020 - 2021

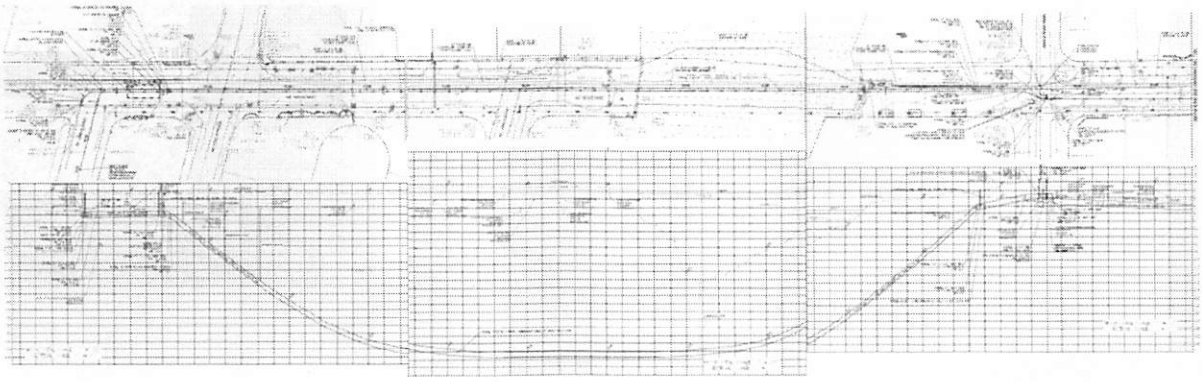
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Omar Castellon, P.E., PMP, ENV SP, Acting Assistant Director – Public Works	Phone: (954) 828-5064 Email: ocastellon@fortlauderdale.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project involved the installation of 16" nominal OD HDPE Force Main under the South Middle River Waterway, with sections of open cut trench installation of 16" PVC Force Main. The total length of subaqueous crossing of 16" HDPE Force Main is 1092 Linear Feet (LF) in length, with an additional 832 Linear Feet (LF) of 16" PVC Force Main installed by open cut trench. Craven Thompson provided full time construction management and inspection staff to monitor contractor adherence to schedule, resolve disputes and conflicts, process and respond to requests for information (RFIs), evaluate Change Order Requests and process valid requests, ensure that construction was performed in conformance with plans and specifications, review as-built plans and shop drawings, process monthly pay applications, complete substantial and final inspections, and certify the project.

The City of Fort Lauderdale awarded the Design Build Contract for the installation of redundant piping to Man-Con, Inc. Craven Thompson was the Engineer of Record and Man-Con, Inc. was the contractor on this Project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime– Surveying, Design, Permitting, and CEI Services
b.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
c.			
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **28**

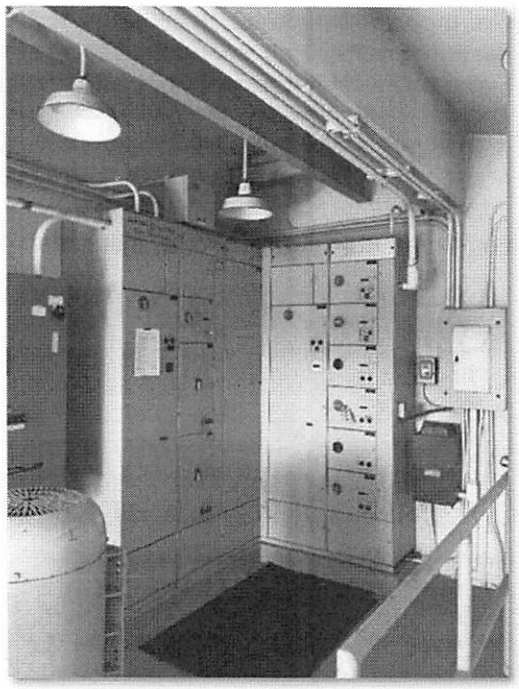
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Master Lift Station W-14 Upgrade Hollywood, Florida	2016	2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Jeff Jiang, P.E. Assistant Director ECSD	Phone: (954) 921-3930 Email: fjiang@hollywoodfl.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The rehabilitation for sanitary sewer Lift Station W14 included the modification of the existing station by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replacement of electrical meter and main, replacement of motor control panels and rewire new pumps, new RTU, new SCADA, rewiring and replacement of branch wiring outlets and fixtures, generator with double wall tank with leak detection, etc.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Wastewater Modeling, Wastewater Design, Permitting, and CEI Services
b.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
c.	TRC Worldwide Engineering, Inc.	1230 N. University Drive Plantation, Florida 33322	Sub-consultant - Structural Engineering
d.	RGD Consulting Engineers	2151 S. Alt. A1A, Suite 2000 Jupiter, Florida 33477	Sub-consultnat - M/E/P Services
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **29**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
District 2 - Sample Road 12" Water Main Aerial Crossing Lighthouse Point, Florida	2018	2019

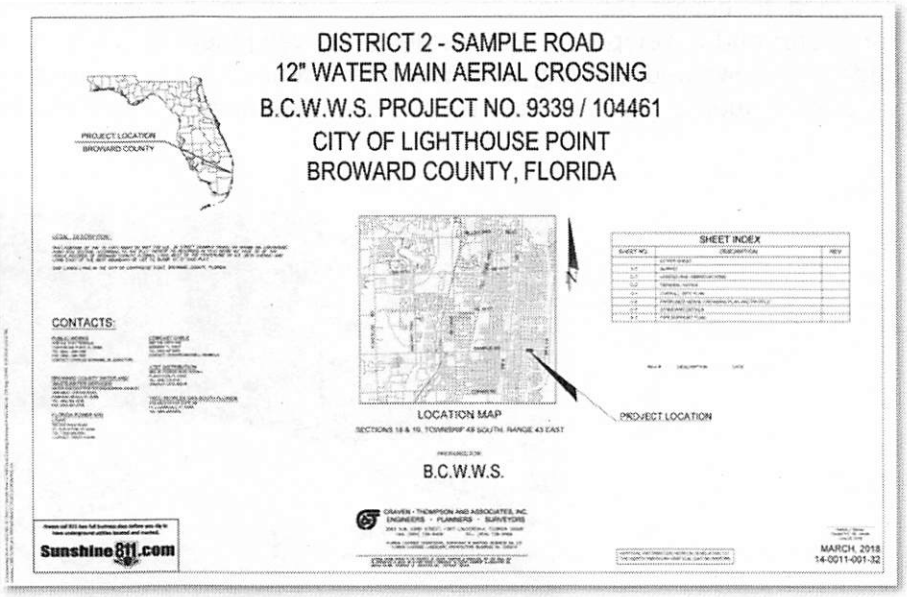
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Water & Wastewater Services	Mr. Patrick MacGregor Expansion Project Administrator	Phone: (954) 831-0904 Email: pamacgregor@broward.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates, Inc. provided professional consulting services to County for design and regulatory permitting services for the Project Sample Road Aerial Crossing of the Captain Knight Bayou Canal as described below:

The project involved permitting and design of a new aerial water main canal crossing of the Captain Knight Bayou Canal on Sample Road in Lighthouse Point. Engineering Services included structural, environmental, permitting, landscape, geotechnical, geo-referenced roadway, utility and benthic survey services required for a new pile supported aerial water main crossing.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Water Design, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
c.			
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*		20. EXAMPLE PROJECT KEY NUMBER 30
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Lift Station A-6 Upgrade Hollywood, Florida	2015	2017

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Jeff Jiang, P.E. Assistant Director ECSD	Phone: (954) 921-3930 Email: fjiang@hollywoodfl.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This project involved the reconstruction of sanitary sewer Lift Station A6 which included the replacement of the existing suction lift pump station with a new wet well, submersible pumps, converting the existing wet well into a manhole, valve vault, panels, SCADA system as well as hardscape and landscaping. The new lift station was designed to accept City standard transfer switch for a generator. The work included coordination with the contractor and developer for the residential development to west. The coordination included accounting for the additional flows and allowing for a temporary connection to the existing wet well. The pumps were designed as variable frequency drives in order to meet the flow-pressure requirements provided by the City.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Wastewater Modeling, Wastewater Design, Permitting, and CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
c.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 31

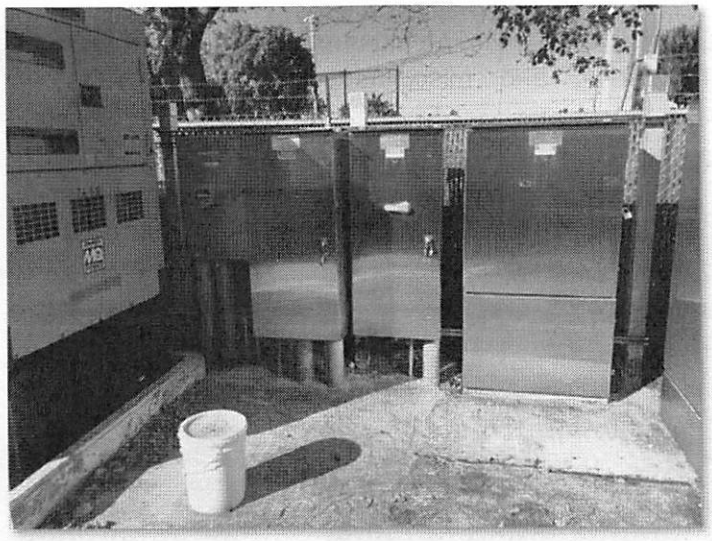
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Triplex Lift Station 50B Rehabilitation Lauderdale Lakes, Florida	2020	2020 - 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Water & Wastewater Services	Mr. Patrick MacGregor Expansion Project Administrator	Phone: (954) 831-0904 Email: pamacgregor@broward.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project includes the rehabilitation of the existing 50B tri-plex station. The rehabilitated 50B station improvements included rehabilitation of the 12' diameter wet well, replacement of the valve pit, all new internal piping and valves, a new emergency generator, and replacement of the control panel. Craven Thompson designed, permitted, and is providing construction engineering and inspection services for the construction of the submersible triplex station including *new 20 HP HOMA submersible pumps*, 10" diameter piping, a 12' diameter wet well, valve box, control panel and *a new emergency generator*. The station was designed to pump 1,760 gallons per minute at 51 feet of head.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Sanitary Modeling, Lift Station Design, Permitting, Bid Assistance, CEI/Construction Management & Inspection Services
b.	Hillers Electrical Engineering.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant – Electrical Engineering, Instrumentation & Controls
c.	InfraMap Corp.	1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 32

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
SW 36th Street Improvements Davie, Florida	2015	2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Nova Southeastern University/ Town of Davie	Mr. Randall Seneff Executive Director, Design & Construction	Phone: (954) 262-8805 Email: rseneff@nova.edu

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project consisted of roadway, roadway drainage, utility and landscape/hardscape improvements to SW 36th Street in Davie, Florida. The existing roadway section was approximately 22' wide and was expanded to 25' wide. SW 36th Street was designed as a two (2) lane divided boulevard from College Avenue to SW 76th Avenue within a 75-foot public right-of-way width. The roadway was raised in order to comply with SFWMD criteria. The improvements included roadway design and reconstruction, stormwater/drainage piping and structures, water distribution mains, coordination with franchise utilities, landscaping, pavers, pavement, sidewalks, fences and other miscellaneous items. Craven Thompson & Associates provided Civil Engineering, Landscape Architecture, Construction Engineering Inspection, and miscellaneous Survey services for the project.

Construction Cost: $4,876,483.00





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Surveying, Roadway Design, Drainage Design, Utility, Landscape / Hardscape, Design, Permitting, and CEI Services
b.	InfraMap Corp.	1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
c.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 33

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2nd Street Traffic Circle and Sidewalk Improvements Greenacres, Florida	2019	2021

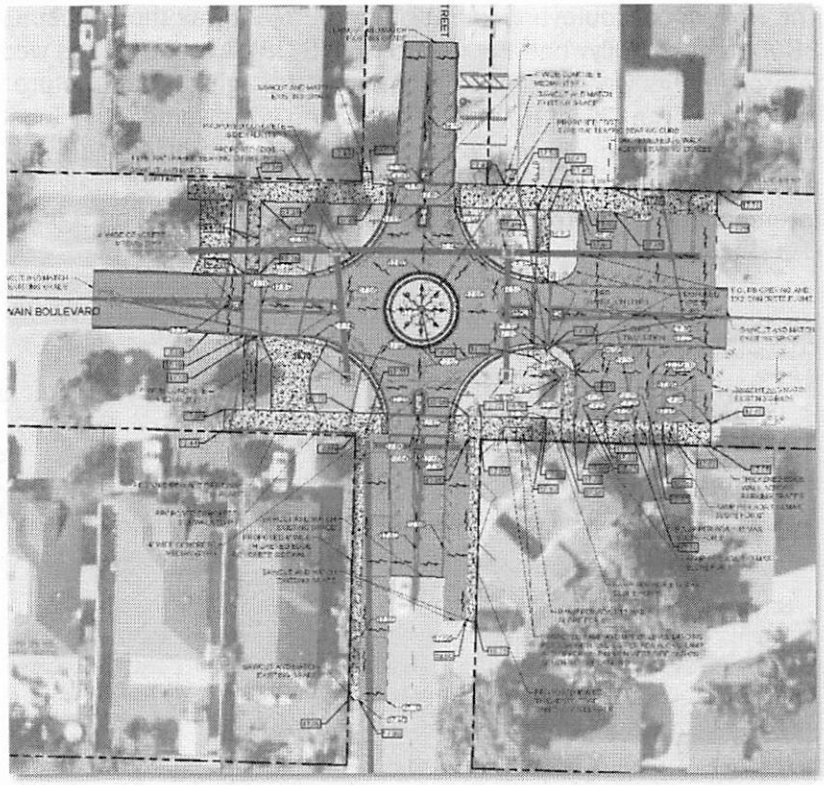
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Greenacres	Ms. Kara L. Irwin Ferris, AICP, Building, Planning and Engineering Director	Phone: (561) 642-2054 Email: kferris@greenacresfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson designed and permitted a traffic circle at 2nd Street and Swain Boulevard in Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb & gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, & ADA improvements as well as drainage design for drainage in conflict with proposed sidewalk. The project was permitted through the Lake Worth Drainage District (LWDD).

Construction Cost: $1.78 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	Prime – Surveying, Roadway Design, Traffic Calming, Drainage ADA
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 34

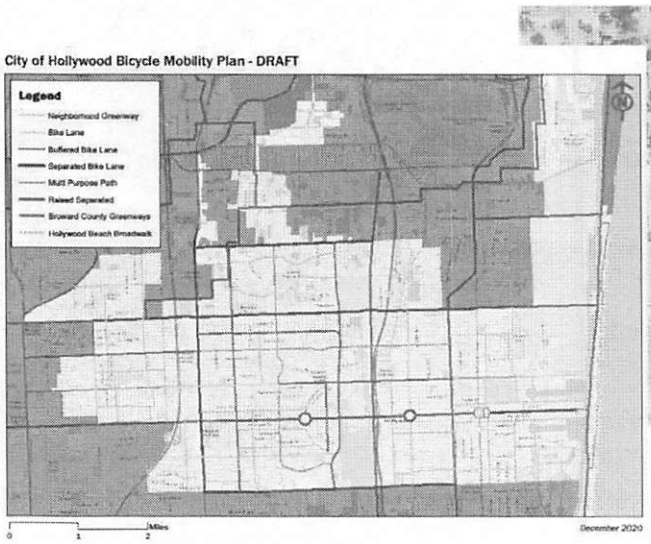
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hollywood Blvd. Conceptual Master Rehabilitation Plan Hollywood, Florida	2020 - 2021	NA

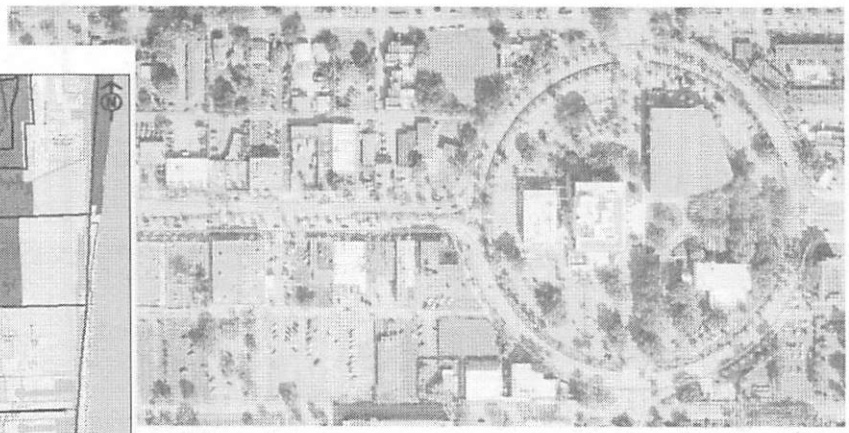
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Ms. Heather Guenot, P.E. Senior Project Manager	Phone: (954) 649-4389 Email: hguenot@hollywoodfl.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Hollywood Boulevard Rehabilitation Project was the conceptual design for the reconstruction of approximately 3800' feet of Hollywood Boulevard from S 28th Avenue on the west, to the east side of City Hall Circle. A number of improvements were designed to improve the aging infrastructure and promote multi-modal transportation through the heart of the City of Hollywood. Proposed improvements included reconstruction of the asphalt roadway, buffered bicycle lanes throughout the project corridor, improving sidewalk connectivity and ADA compliance, replacing the existing paver crosswalks with colored asphalt crosswalks, reconfiguring intersection geometry at two (2) intersections to improve safety, and improving the existing signage.





- Provide bicyclists with a safe and effective connection through the heart of the City's long-term bicycle mobility plan.
- Encourage bicycle use through corridor to reduce traffic and impact on

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Landscape Architecture / Master Plan, Streetscape, Roadway Design, ADA
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
c.			
d.			

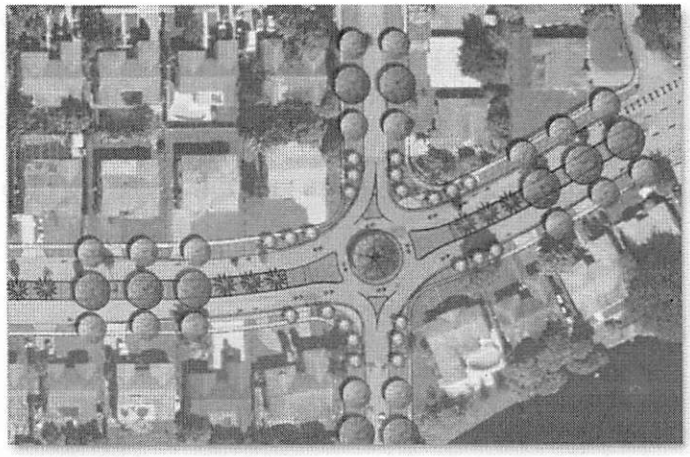
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **35**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Kimberly Boulevard East Complete Streets Project North Lauderdale, Florida	2019 - 2021	Estimated 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of North Lauderdale	Mr. Samuel May Public Works/Utilities Director	Phone: (954) 597-4756 Email:smay@nlauderdale.org

4. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



The project is known as the Kimberly Boulevard Complete Streets Improvements from State Road 7 to Rock Island Road. The total length of roadway is 5,900 linear feet and consisted of four total two lanes, both two eastbound and two westbound and a landscaped median. The improvements included roadway reconstruction, milling & overlay, safety enhancements including modifying existing sidewalk access ramps for ADA compliance, the construction of a roundabout at SW 64th Terrace, the addition of traffic calming devices, curbing of identified existing medians, drainage modifications, and the reduction from two to one lane both eastbound and westbound plus the addition of bicycle lanes in each direction from SW 70th Avenue to SW 10th. The existing pavement displayed alligator cracking, block cracking, transverse cracking and rutting at many locations within the project limits. Craven Thompson along with geotechnical sub-consultant, Absolute Civil Engineering Solutions performed and evaluated cores of the existing pavement. As a result of this, various segments were completely reconstructed while others were simply milled and overlaid. **Construction Cost: $1,988,630.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

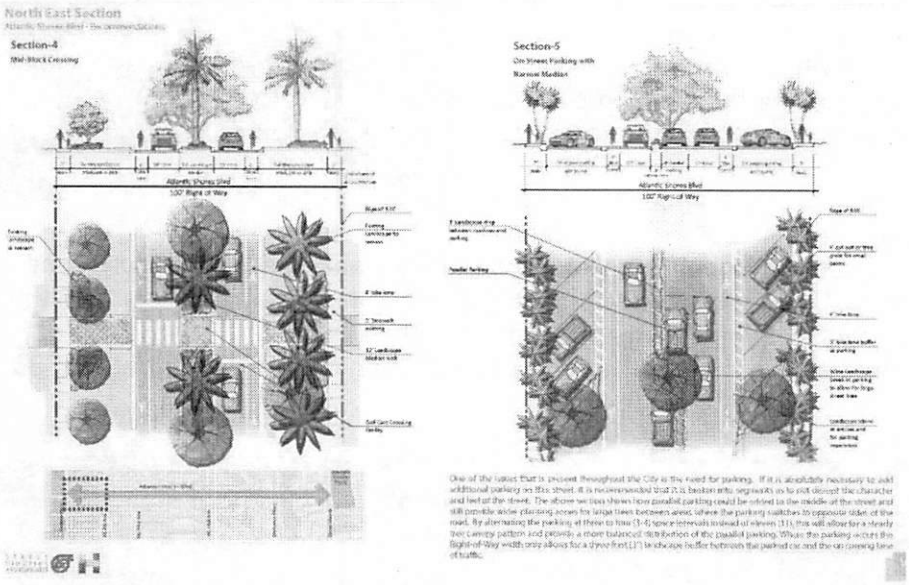
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Roadway Design, Drainage, Permitting, Traffic Calming, Complete Streets, Landscape Architecture
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*		20. EXAMPLE PROJECT KEY NUMBER 36
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City-Wide Master Plan (BODR) - Streetscape & Complete Streets, Hallandale Beach, Florida	2015 - 2016	Not Applicable

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hallandale Beach	Mr. Peter Kunen, P.E. City Engineer	Phone: (954) 457-3042 Email: pkunen@cohb.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City of Hallandale Beach hired Craven Thompson & Associates, Inc. (CTA) to produce a city-wide master plan that functions as a comprehensive document that assessed various infrastructure improvements, both underground and surface, and utilizes the outcome as a basis for preparing construction documents and acquiring funding. This includes City-Wide Master Planning for the 2,800 acres including sidewalk, landscaping, hardscape, median enhancement, complete streets, bike lanes, local roads, sidewalk, and lighting. CTA provided recommendations for future streetscape corridors, bike lane and greenway planning, and schematic landscape for the City.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION *(City and State)* 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime - Streetscape, Complete Streets, Landscape Architecture
b.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION *(City and State)* 2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	(3) Role Sub-consultant - Geotechnical Engineering
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

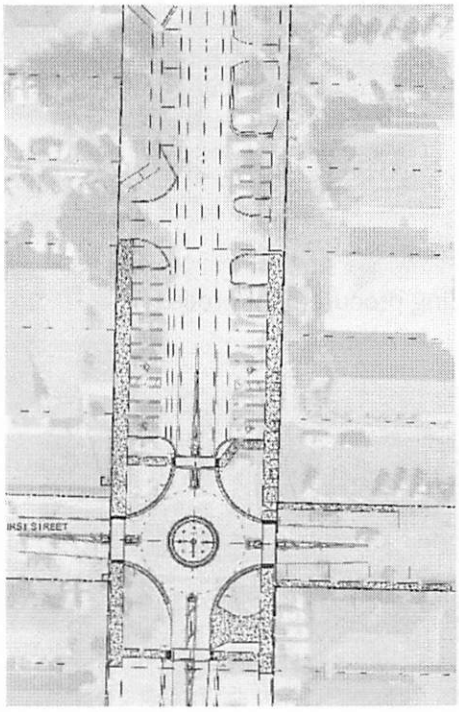
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*		20. EXAMPLE PROJECT KEY NUMBER **37**
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Swain Boulevard Complete Street Project Greenacres, Florida	2021	Est. 2023

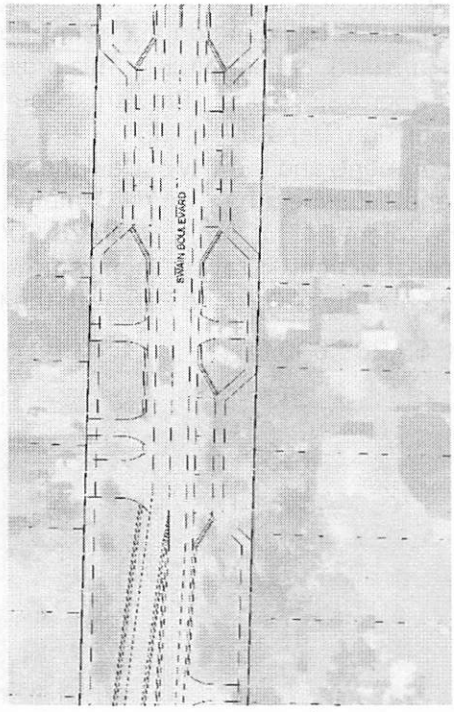
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Greenacres	Ms. Kara L Irwin-Ferris, AICP Planning and Engineering Director	Phone: (561) 642-2054 Email: kferris@greenacresfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson is designing and permitting this project in Greenacres. The Swain Boulevard Complete Streets is a 4,500 linear foot project running from Lake Worth Road to 10th Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1st Street, and 4th Street. Craven Thompson is providing planning, surveying, roadway design, drainage design, permitting and landscape architecture for the project.

Construction Cost: estimated at $3.8 million





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	Prime – Surveying, Roadway Design, Traffic Calming, Landscape Architecture, Drainage ADA
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 38

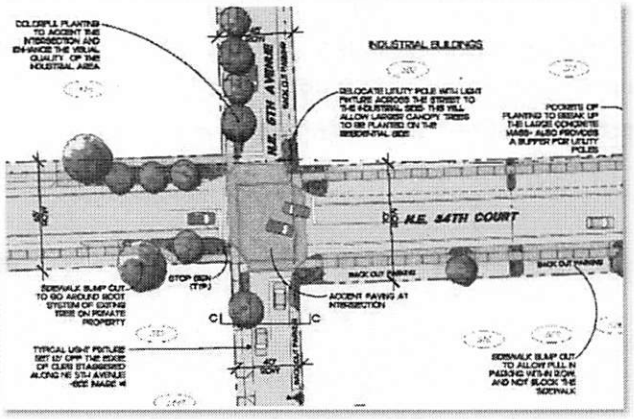
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
NE 34th Court Complete Streets Project Oakland Park, Florida	2012 - 2013	2013 - 2015

23. PROJECT OWNER'S INFORMATION

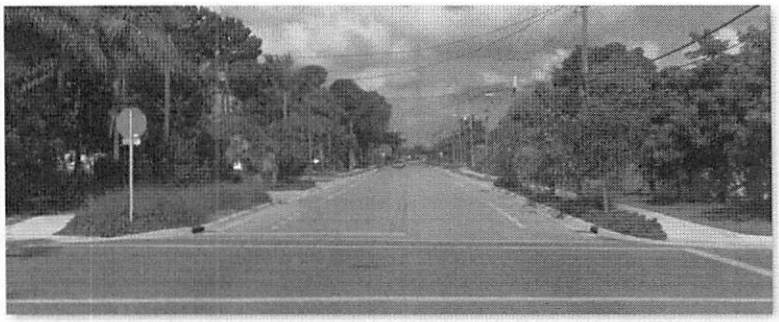
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Oakland Park	Ms. Jennifer Frastai, ICMA-CM Director Engineering & Community Development	Phone: (954) 630-4477 Email: Jenniferf@oaklandparkfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This project involved full consulting services for surveying, design and permitting of approximately 0.70 miles of streetscape & roadway improvements on NE 34th Court from NE 2nd Avenue to Dixie Highway. The consulting services included landscape and streetscape enhancement, full roadway reconstruction design, stormwater management ADICPR modeling and design, storm sewer design, utility coordination and relocation, and all associated jurisdictional permitting. This project required permit approvals from Broward County Environmental Protection Department (EPD), Broward County Health Department, and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction. Craven Thompson and Associates assisted the City of Oakland Park with the funding procurement process.



Construction Cost: $3,255,630.00



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Complete Streets/ Landscape Architecture, Survey, Roadway, Civil Engineering, Traffic, Drainage
b.	InfraMap Corp.	1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
c.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
d.	TRC Worldwide Engineering, Inc.	1230 N. University Drive Plantation, Florida 33322	Sub-consultant - Structural Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 39

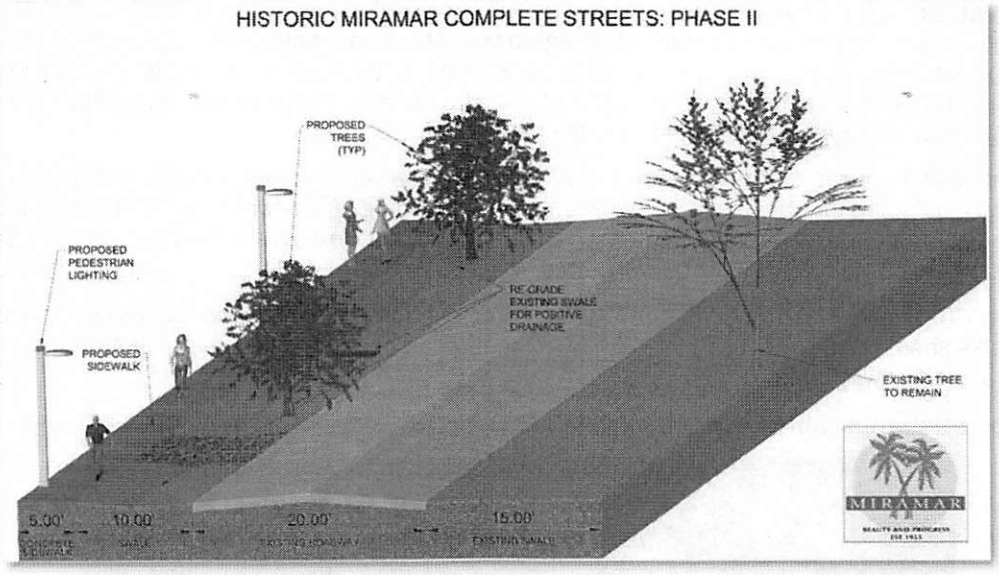
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Miramar Historic Area Complete Streets Phase II Miramar, Florida	2017	2019

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Miramar	Mr. Salvador Zuniga, P.E. City Engineer	Phone: (954) 602-3323 Email: sezuniga@miramarfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project included surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project included six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.

Construction Cost: $1.9 Million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Landscape Architecture / Complete Streets, Streetscape, Roadway Design, ADA
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION *(City and State)* 1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	(3) Role Sub-consultant - Subsurface Utility Locates
c.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION *(City and State)* 2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	(3) Role Sub-consultant - Geotechnical Engineering
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*		20. EXAMPLE PROJECT KEY NUMBER 40
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Washington Road Basis of Design Review West Palm Beach, Florida	2014	Not Applicable

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of West Palm Beach	Ms. Laura Le, P.E Public Utilities Engineer	Phone: (561) 494-1093 Email: lle@wpb.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Basis of Design Report (BODR) for the Washington Road (Monceaux Road to Edgewood Drive) study area provided a preliminary master plan for the construction of infrastructure improvements.

Water Distribution - Recommended improvements include replacement of all three-inch (3") and four-inch (4") diameter water mains and transit/asbestos cement pipe with an interconnected twelve-inch (12") diameter water main along with the installation of fire hydrants to meet minimum spacing requirements per City Code.

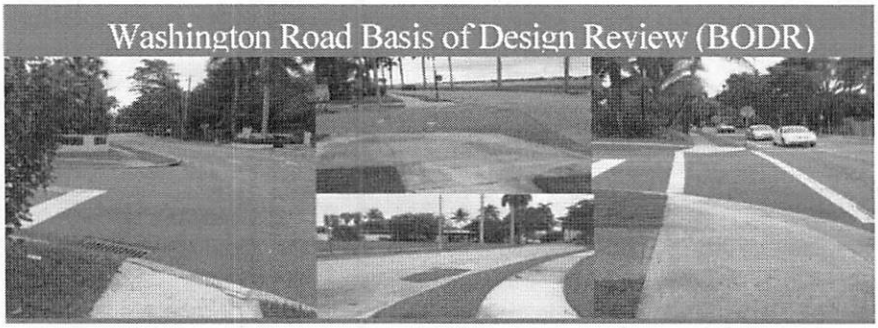
Wastewater Collection - The City of West Palm Beach owns the wastewater collection system within the Washington Road right-of-way. Within the right-of-way, a majority of the existing gravity sewer mains consist of deteriorating vitrified clay pipe at substandard slopes and therefore were recommended to be replaced.

Stormwater Management - The proposed drainage system will consist of a new 36" outfall adjacent to Royal Palm Drive, curb inlets TIDEFLEX gate valve to prevent backflow, drainage pipes, storm manholes and a STORMCEPTOR structure for water quality. The proposed design will allow higher elevated sub-basins to discharge directly into the Lake Worth Lagoon and by-pass the proposed drainage system along Washington Road. The proposed by-pass will reduce the hydraulic impacts on the proposed drainage system during high tail water conditions.

Roadway - The installation of sanitary sewer, water main and storm sewer will result in extensive excavations throughout the existing right-of-way including through the existing pavement. Re-grading of roadway is warranted to improve the longitudinal profile and upgrade surface water runoff characteristics. Due to the utility excavation and the need for profile changes in the roadway, reconstruction of the roadway will be warranted.

Sidewalks - Craven Thompson recommends that the City remove and re-place all existing sidewalks within the right-of-way. Proposed sidewalks should be five-foot (5') in width, with pedestrian access ramps, meeting Americans with Disabilities Act (ADA) standards at all roadway intersections.

Construction cost: Not Applicable



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	Prime – Preliminary Engineering, Basis of Design Review
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 41

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
NE 14th Avenue Streetscape Improvements Hallandale Beach, Florida	2015	2018

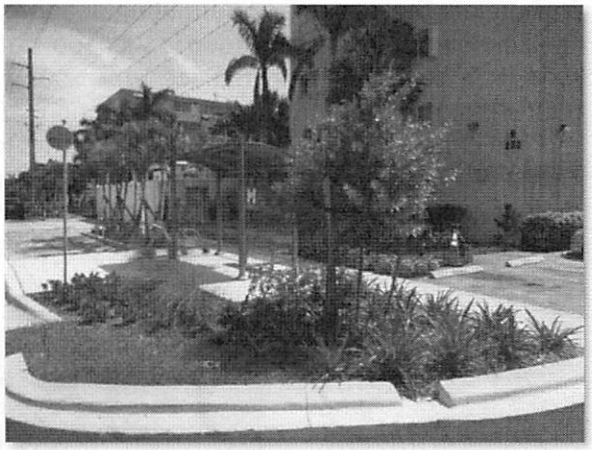
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hallandale Beach	Mr. Manga Ebbe Project Manager	Phone: (954) 457-3043 Email: mebbe@hallandalebeachfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project area is along NE 14th Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project included: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14th Avenue; landscape screening along north, south, and west sides of the two (2) storm water pump stations. Landscaping along the west side of the enclosure is limited due to the close proximity of the screen fence to the existing sidewalk; PaveDrain concrete block access drives on each side of the two (2) storm water pump stations; mid-block crosswalks; and resting areas (benches, trash cans, etc.). Craven Thompson provided Surveying, Landscape Architectural, Civil Engineering, and Construction Engineering Inspection Services.

Construction Cost: $1,157,206.00





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Roadway Design, Permitting, Landscape Architecture, CEI/Construction Management & Inspection Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
c.	InfraMap Corp.	1100 N. Florida Mango Rd., #D West Palm Beach, Florida 33409	Sub-consultant - Subsurface Utility Locates
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 42

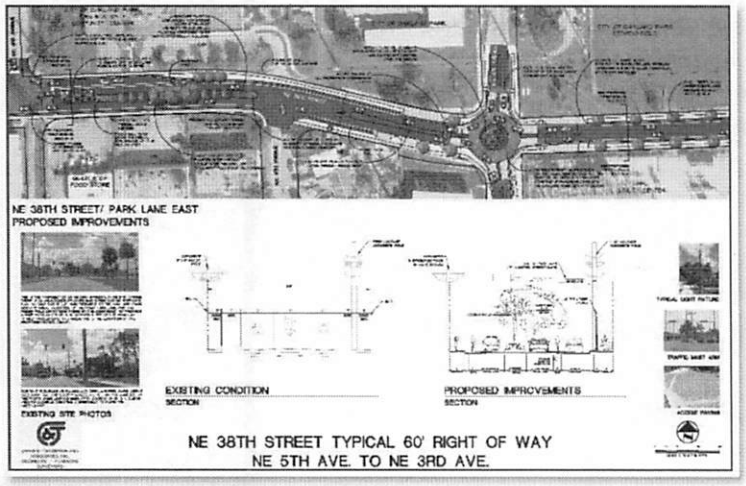
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
NE 38th Street Complete Streets Project Oakland Park, Florida	2012 - 2013	2013 - 2015

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Oakland Park	Ms. Jennifer Frastai, ICMA-CM Director Engineering & Community Development	Phone: (954) 630-4477 Email: Jenniferf@oaklandparkfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This project the design and permitting of approximately 0.90 miles of roadway / streetscape improvements. The consulting services included landscape, hardscape, and streetscape enhancement, a complete storm sewer system, a roundabout to replace an existing traffic signal, traffic calming devices, utility coordination and relocation, and full roadway reconstruction. The main Project objective was to discourage truck traffic and redirect cut-through traffic from NE 38th Street to alternate routes between Andrews Avenue and NE 11th Avenue. This project required permit approvals from Broward County Environmental Protection Department (EPD), and the City of Oakland Park Public Works and Engineering and Community Development Departments. This project utilized FDOT LAP funding for construction. **Construction Cost: $3,147,22500**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Complete Streets/ Landscape Architecture, Survey, Roadway, Civil Engineering, Traffic, Drainage
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
c.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 43	
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
NW 10th Avenue Roadway Improvements Oakland Park, Florida	2018 - 2020	2021 - 2022

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Oakland Park	Mr. Chris Lips, P.E. Assistant Public Works Director	Phone: (954) 630-4441 Email: ChrisL@oaklandparkfl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The scope of work includes design of 2,900 linear feet of roadway, landscaping, irrigation, photo-metrics, coordination, drainage, LAP services, etc. for the NW 10th Avenue Roadway Project from Park Lane West (NW 33rd Street) to Prospect Road, including preparation of contract documents and permitting. The roadway design with all infrastructure adjustments were based on the Conceptual Design Plans prepared by CTA and approved by the City. Generally, improvements include the addition of bike lanes, curbing, six (6) feet wide sidewalk on the west side of the roadway, landscaping and irrigation system, swale and street lighting improvements.
Construction cost: $947,775.00



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION *(City and State)* 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime –Surveying, Roadway Design, Permitting, Landscape Architecture
b.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION *(City and State)* 2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	(3) Role Sub-consultant - Geotechnical Engineering
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 44

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
NE 29th Place Roadway Project Aventura, Florida	2015 - 2016	2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Aventura	Mr. Joseph Kroll, Public Works / Transportation Director	Phone: (305) 466-8970 Email: jkroll@cityofaventura.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project included surveying, design, permitting, and construction services for the milling and resurfacing of existing roadway, installation of curb and gutter, pavement marking, signage, and traffic signal loops drainage installation, cleaning and videoing of drainage system, sidewalk construction, tree removal and installation, and light pole modifications on NE 29th Place (North) from Aventura Boulevard to NE 203rd Street. This includes permitting through the City of Aventura Public Works Permit for work in the public right-of-way, and a Miami-Dade County DERM Drainage Permit.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Surveying, Civil Engineering, Roadway Design, Drainage Design, Permitting, CEI Services
b.	Tierra South Florida, Inc.	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411	Sub-consultant - Geotechnical Engineering
c.	Hillers Electrical Engineering, Inc.	23257 State Road 7, Suite 100 Boca Raton, Florida 33428	Sub-consultant - Electrical Engineering
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **45**

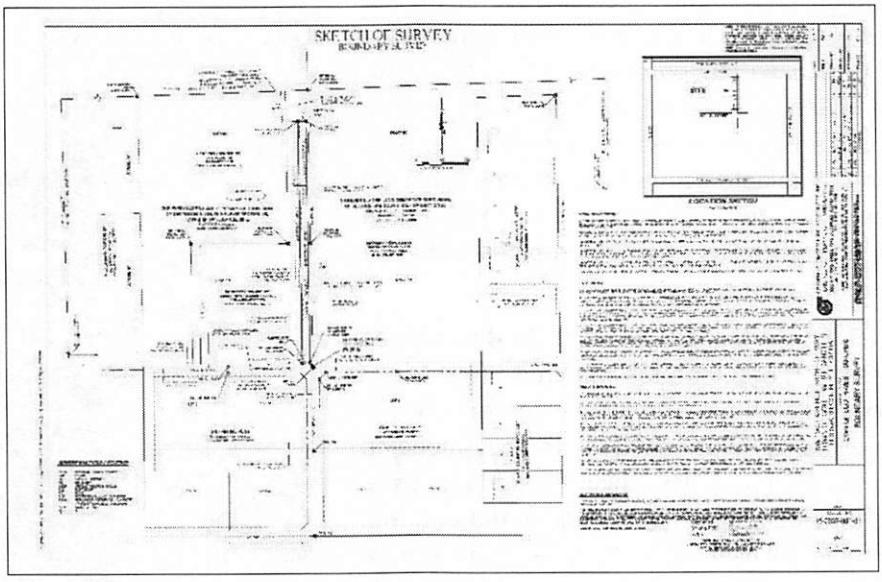
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
SW 190th Avenue Topographic Survey Southwest Ranches, Florida	2016	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Southwest Ranches	Ms. Emily McCord-Aceti Community Services Manager	Phone: (954) 343-7453 Email: eaceti@southwestranches.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson prepared a topographic survey of SW 190th Avenue, from one hundred (100) feet south of SW 49th Street, to the north edge of pavement of Griffin Road, approximately 1,215 linear feet in length. The survey consisted of the existing twenty (20) foot wide of platted right-of-way, and a minimum of thirty (30) feet west and twenty-five (25) feet east of the existing right-of-way, for locations and topographic elevations. At the intersections of Griffin Road and SW 49th Street, the locations included up to one hundred (100) feet east and west of each intersection.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Topographic/Specific Purpose Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 46

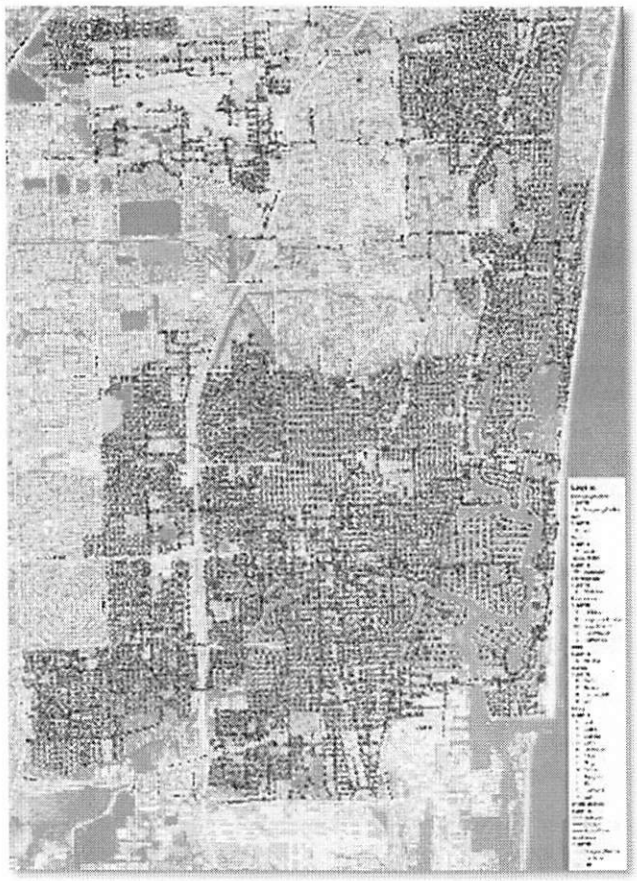
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Fort Lauderdale Sanitary Sewer System GIS & Surveying, Fort Lauderdale, Florida	2018 - 2019	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Ms. Brandy Leighton Senior Project Manager	Phone: (954) 828-5326 Email: bleighton@fortlauderdale.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson established Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory of Manholes, pump Stations, meters, valves, air valves and 80 miles of force mains. During Sewer Mapping Phase I, the Benchmarks and GPS Control monuments were established for each of the 52 Data Collection Zones (DCZ). The benchmarks and monuments were utilized with a GPS base station during the feature data acquisition phase. Phase II included multiple feature data acquisitions for the City's GIS System and for certain areas to be thoroughly modeled. The data acquisition features collected as part of this Phase included 5908 manholes, 190 Pump Stations, 15 Meters, and 80 miles of pressure pipes with 752 valves and 285 Air release valves.



The initial work on this phase focused on the 5,908 manholes identified under Phase I. These features required the most of the field work and acquisition time. The manholes were divided into two categories, those that needed to be modeled completely, including 1,163 manholes which needed complete horizontal and vertical as-built information inside and out, and another 4,745 manholes which need only a minimum of horizontal and vertical information, being the rim and the inside bottom of structure.

Craven Thompson collected and updated manhole GIS geodatabase. We utilized the Trimble Terraflex program to extract the database fields from the GIS manhole feature class inside of an electronic data collector (Samsung or IPad) for collecting the structure and pipe information inside of each manhole, pump stations and valve vaults.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Sub-consultant – Surveying and Data Collection
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 47

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Las Olas Boulevard and Walkability Design Survey Fort Lauderdale, Florida	2017	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale Transportation & Mobility Dept.	Ms. Catherine Prince, PMP, LEED AP, STP, Mobility Project Manager	Phone: (954) 828-5000 Email: atcprince@fortlauderdale.gov

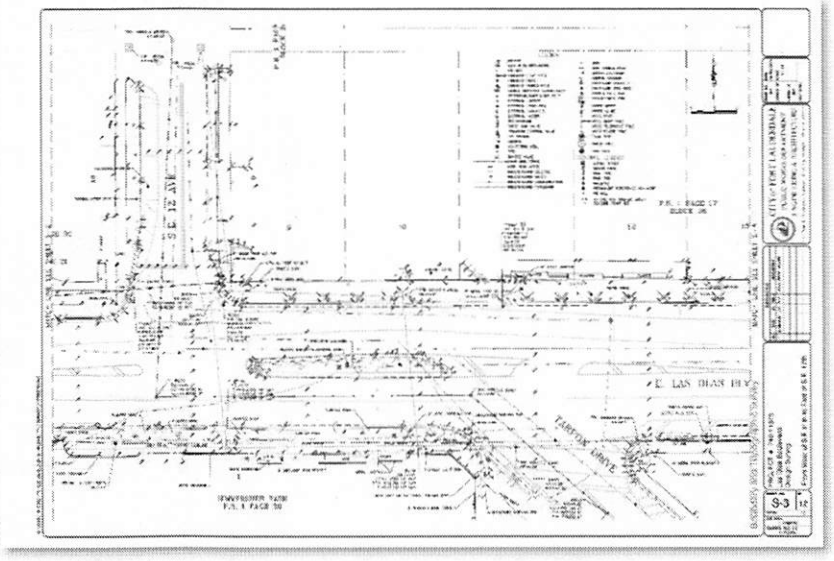
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Under this Work Authorization, Craven Thompson surveyed the following roads and intersections:

- Las Olas Blvd. (full right-of-way) from SE 11th Avenue to the bridge east of SE 17th Avenue, including the following intersecting side streets:
  - SE 12th Avenue (100 feet north of Las Olas Blvd.)
  - SE 13th Avenue (100 feet north of Las Olas Blvd.)
  - SE 15th Avenue (200 feet south of Las Olas Blvd. to 100 feet north of Broward Blvd.
  - SE 15th Avenue at SE 2nd Street (100 feet east and west)
  - SE 15th Avenue at Broward Blvd. (100 feet east and west)

And also:

- Intersection SE 12th Avenue & SE 1st Street (100 feet north, south and east)
- Intersection SE 13th Avenue & SE 1st Street (100 feet north, south east and west)
- Intersection SE 13th Avenue & SE 2nd Court (100 feet north, south east and west)
- Intersection SE 16th Avenue & SE 1st Street (100 feet north, south east and west)
- Intersection SE 16th Avenue & SE 2nd Court (100 feet north, south east and west)
- 400 feet of NE 1st Street centered between Andrews Avenue and NE 3rd Avenue



- NE 3rd Avenue from 50 feet south of NE 2nd St to 50 feet north of NE 3rd Street including 50 feet east and west of NE 3rd Avenue at NE 2nd and 3rd Streets
- Intersection E. Las Olas Blvd & SE 4th Ave. (50 feet north, south, east and west)
- SE 2nd Street from east side of SE 3rd Avenue to Federal Highway Tunnel wall including 50 feet north and south of the intersection with SE 4th Avenue

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Specific Purpose Survey, Topographic Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 48

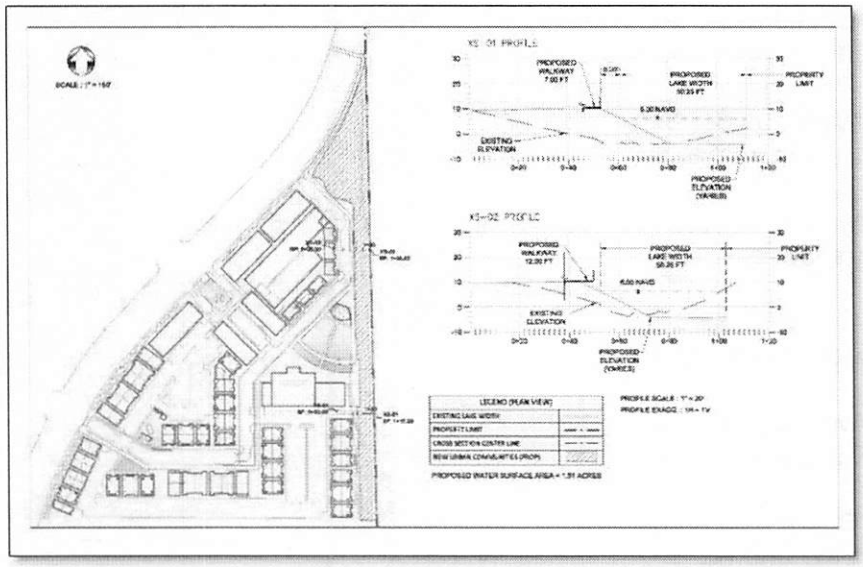
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Margate Hydrographic Canal Survey Margate, Florida	2016	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Margate Community Redevelopment Agency	Mr. Cotter Christian Project Engineer/Manager	Phone: (954) 935-5458 Email: cchristian@margatefl.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates provided professional Surveying services for the proposed canal rehabilitation and pedestrian path. We prepared Boundary, Topographic and Hydrographic Survey of the canal lying along the east side of Parcel "A", "Margate Third Addition". The north-south canal was extremely overgrown with Brazilian Pepper and Australian Pines which made it difficult to locate edge of water, top of bank and deep cut line. Clearing these items were essential to the topographic data collection. This increased the accuracy of the survey and decreased the labor effort needed to obtain the as-built conditions. The survey met all the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as defined in Chapter 5J-17, Florida Administrative Code.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime - Hydrographic Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **49**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hollywood Seminole Reservation Stormwater Data Collection/GIS, Hollywood, Florida	2020 - 2021 (Data Collection)	Not Applicable

23. PROJECT OWNER'S INFORMATION

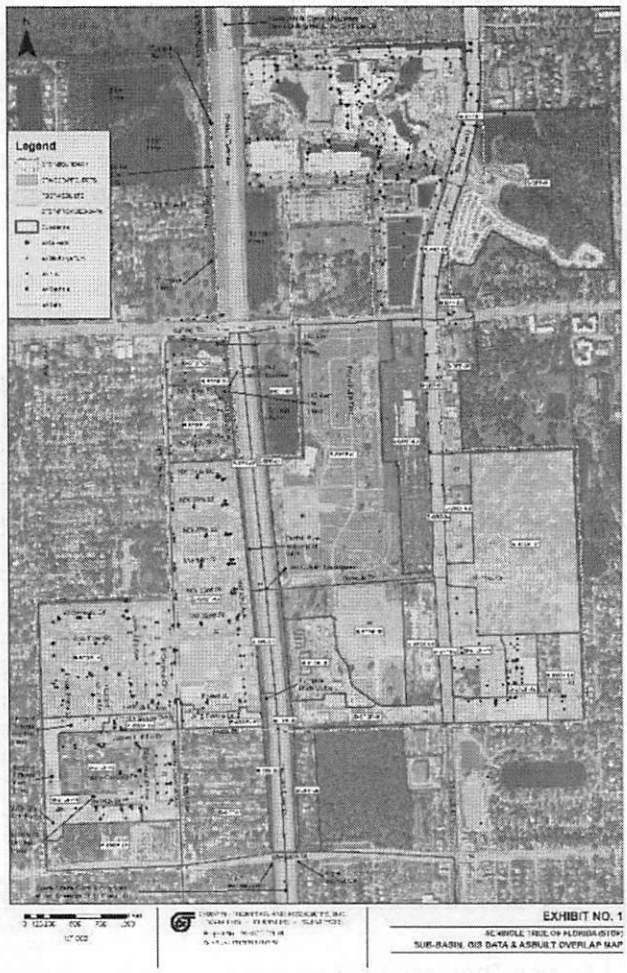
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Seminole Tribe of Florida	Mr. Ray Sciortino, P.E. Jacobs Stormwater Program Manager	Phone: (561) 352-1662 Email: raymond.sciortino@jacobs.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Hollywood Seminole Reservation is generally bounded by Stirling Road on the north and by Sheridan Street on the south and includes the Hard Rock Hotel and Casino which is located north of Stirling Road. The east and west boundaries are formed by existing residential neighborhoods in the City of Hollywood. Craven Thompson updated the Tribe's stormwater GIS information through entering as-built data, and surveying the hundreds of stormwater/drainage structures located on the reservation

Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. We reviewed existing storm sewer surveys and as-builts that could assist with GIS location and with this information our survey crew measured each structure to get accurate horizontal and vertical information for the Tribe's GIS system. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, age, and structure condition were obtained in the field.

We modified the Tribes; GIS database to include new relevant information and to include all information from the data collection efforts and condition assessment.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – G.I.S/Surveying & Mapping
b.			
c.			
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **50**

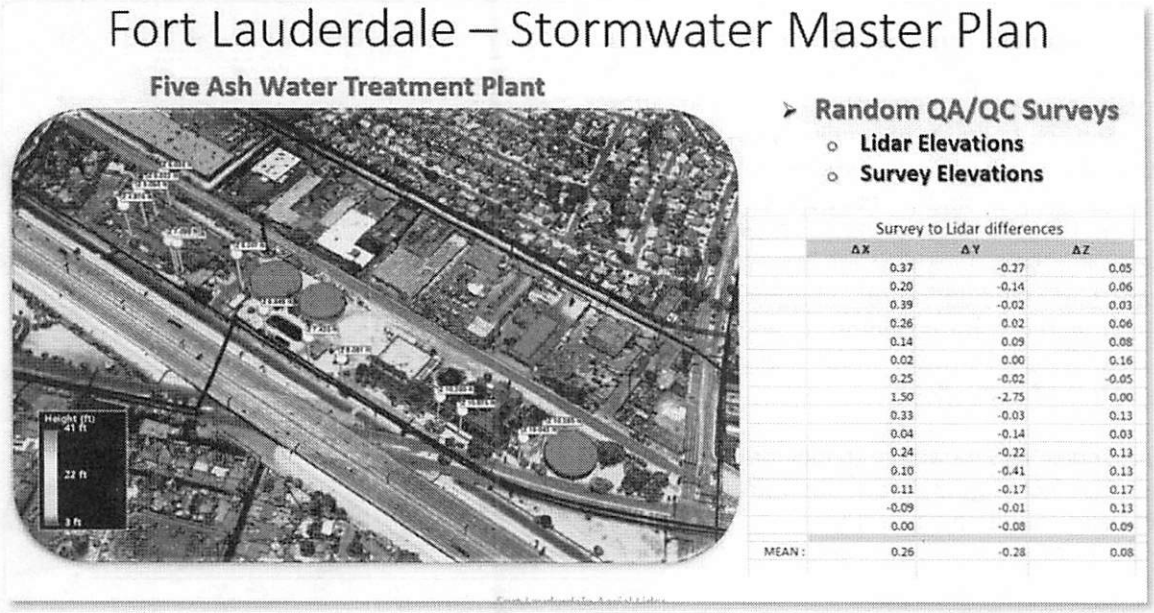
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Fort Lauderdale Storm Water Master Plan - GIS & Surveying Fort Lauderdale, Florida	2016 - 2017 (Data Collection)	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale (Owner) Hazen & Sawyer (Client)	Mr. Rares Petrica, PE, Sr. Project Mgr. Ms. Patrcia Carney, V.P.	(954) 828-6720 / RPetrica@fortlauderdale.gov (954) 987-0066 / pcarney@hazenandsawyer.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson performed surveying, and an As-built/Inventory 5,400 Stormwater Features for GIS City-Wide Stormwater Model. The survey limits of this project are described as the entire City limits of Fort Lauderdale. The City was flown with high density aerial LiDAR to a vertical accuracy of 0.15 feet across the entire City. From the Lidar we created a 2-foot grid Digital Elevation Model of the ground for modeling drainage flow. This required a GPS Control Network, and 309 ground control for the flight, performed over 5,000 verification shots on hard surfaces at major roadways across the city. The second part of this survey was to collect and evaluate 5,400 storm structures with Rims, Inverts, Pipe Size, material, and research Asbuilt records of the City in the Stormwater system and provide the data to the City in ArcGIS Geodatabase conforming to their GIS Model Schema.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Sub-consultant – G.I.S./Surveying & Mapping
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c..	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 51

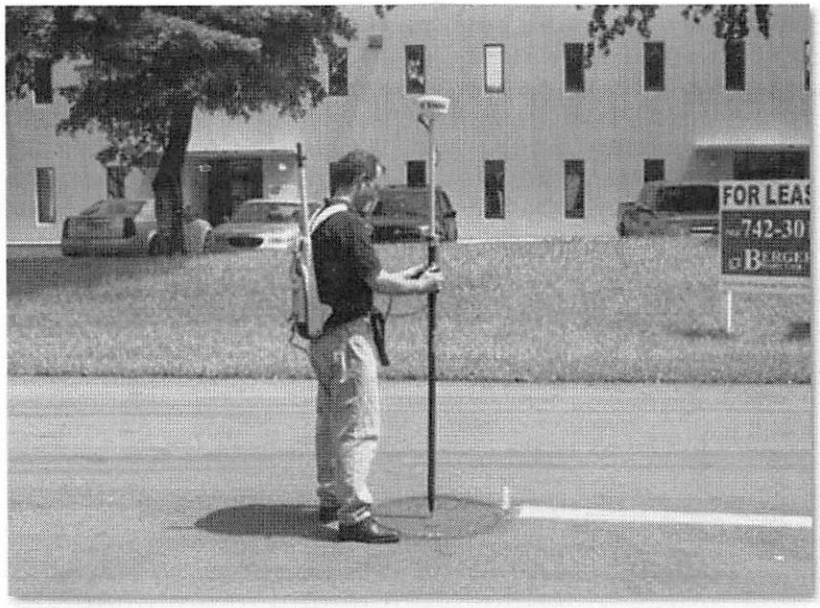
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Stormwater GIS/Data Collection Project North Miami Beach, Florida	2017 - 2018 (Data Collection)	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of North Miami Beach	Ms. Judeen Johnson, P.E. Director of Public Works	Phone: (305) 948-2967 Email: Judeen.Johnson@citynmb.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City is divided into six (6) zones and that structure/pipe data was collected within each zone and identified by zone and structure numbers. GIS data was collected and processed utilizing the City's existing Unit ID naming system in the geodatabase. The Craven Thompson data was collected by a Unique ID. Craven Thompson provided the City with a copy of the updated geodatabase with all the proposed data fields to be collected for review. The GIS data collected consists of: Structure type (junction, inlet, control structure, drainage well): Pipes, Culvert and Outfalls, and Headwalls and Seawalls.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – G.I.S/Surveying & Mapping
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

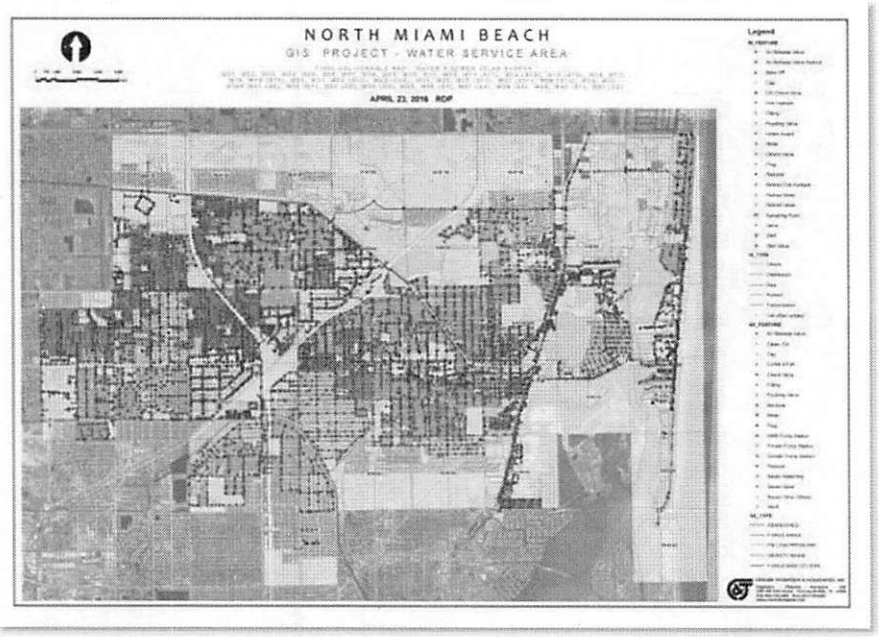
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 52

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
North Miami Beach Water & Sewer Service Area GIS & Mapping North Miami Beach, Florida	2014 - 2016	Not Applicable

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
NMB Water / Jacobs	Mr. Karim Rossy Development Engineer 3	Phone: (305) 948-2980, Ext. 7962 Email: karim.rossy@jacobs.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The purpose of the 25,600 Acre Service Area Project was to provide the City with the complete GIS product of their water and sanitary system. This involved the conversion of the City's existing water and sanitary sewer infrastructure, from an AutoCAD drawing file format to the industry standard, Environmental Systems Research Institute (ESRI) Geographic Information System (GIS) format. The Project included the entire North Miami Beach Utility service area. The process included conversion of existing AutoCAD files, into the same coordinate system as the GIS, so that future updates will be more easily transferred between the two systems, for updates and maintenance. The project involved setting up a GIS Network file structure for the City to insert existing and future documentation into, as well as, adding GIS database information in the future.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION *(City and State)* 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime – G.I.S/Surveying & Mapping
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 53

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hallandale Beach City-Wide Geodetic and Control Survey for Aerial LiDAR, Hallandale Beach, Florida	2015 - 2016	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hallandale Beach	Ms. Beatriz Alvarez, E.I., LEED AP Projects Manager	Phone: (954) 457-1333 Email: balvarez@cohb.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project consisted of Surveying & Mapping with Aerial LiDAR for a Basis of Design Report - Drainage Study for the City of Hallandale Beach, Florida. The survey included a GPS control network to meet horizontal and vertical accuracies to 0.10 feet on all hard surfaces within the City Limits. This included setting 188 aerial targets to control an area of about 26,000 acres from Pembroke Road, south to the Broward / Miami-Dade County line and from the Atlantic Ocean west to Interstate 95. Our survey crews then ran level loops and cross-sections over 862 ground truth checks on hard surfaces at 80 street intersections across the City with accuracy of 0.05 feet at 67% (one sigma) and 0.10 feet accuracy at 95% (two sigma). The LiDAR was flown by our subcontractor, Pickett & Associates, Inc., and checked by Craven Thompson & Associates. The Survey included 2-inch pixel resolution aerials, identifying and mapping overall drainage flows across the City for drainage basin designation, including review of outfalls and drainage structures upstream.

Consultant Surveying Fees: $43,398.00



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Geodetic Survey, Control Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **54**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Central Broward Water Control District West Basin Canal Survey, Broward County, Florida	2015-2016	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Central Broward Water Control District	Mr. Michael Crowley District Manager	Phone: (954) 432-5110 Email: districtmanager@centralbrowardwcd.org

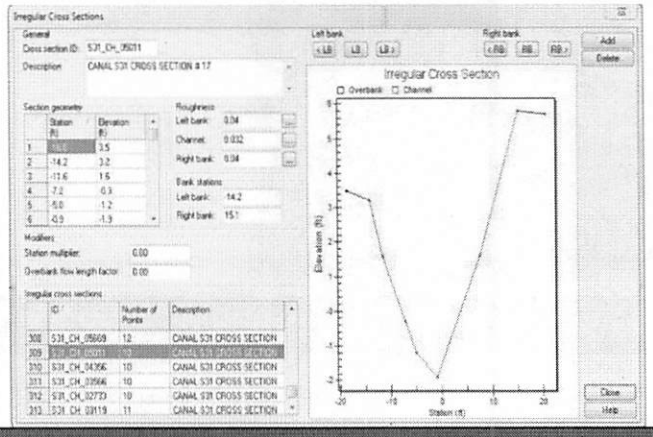
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson surveyed, cross-sectioned, and created a Storm Water Master Report using PCSWMM for 37 CBWCD maintained canals in the west basin covering 15,952 acres for the purpose of updating the Facilities Report

The Survey work included:

- Established a GPS geodetic Control Network for horizontal and vertical positioning for the entire west basin.
- Location and cross-section all 37 Canals (500 cross-sections)
- Located and verified all sizes and material of 400 Culverts
- Provided over 6,000 elevations
- Entered all survey data into Autodesk Storm & Sanitary Analysis Project
- Exported into EPA PC SWMM software for modeling





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Hydrographic and Topographic Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **55**

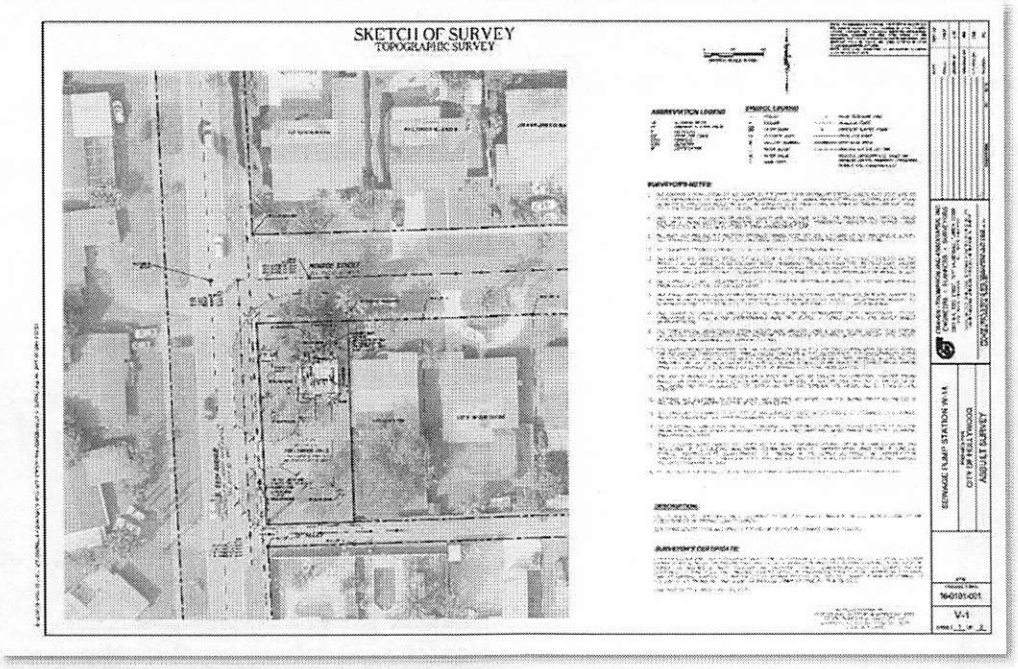
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Lift Station W14 As-Built Survey Hollywood, Florida	2017	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Jeff Jiang, P.E. Assistant Director - ECSD	Phone: (954) 921-3930 Email: fjiang@hollywoodfl.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson obtained field survey information and prepared an as-built survey for the existing sewage Lift Station W14 using the 3D Laser Scanner. The survey information included detailed dimensions on pipes, pumps, panels, tanks, etc.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – As-Built Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 56

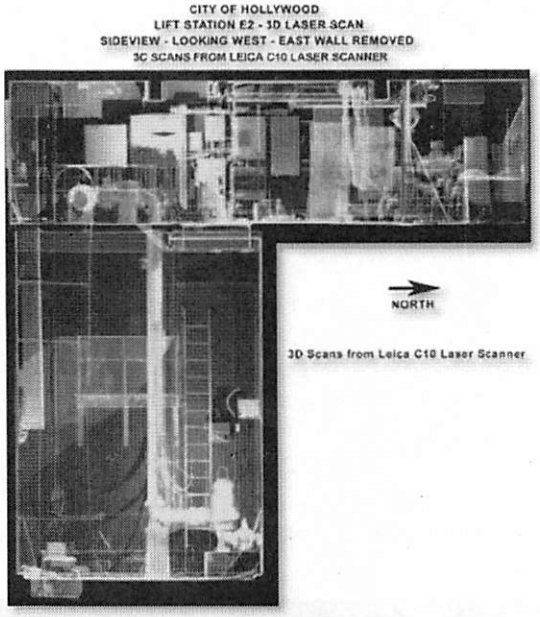
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Lift Station E-2 As-Built Laser Scan Survey Hollywood, Florida	2013	Not Applicable

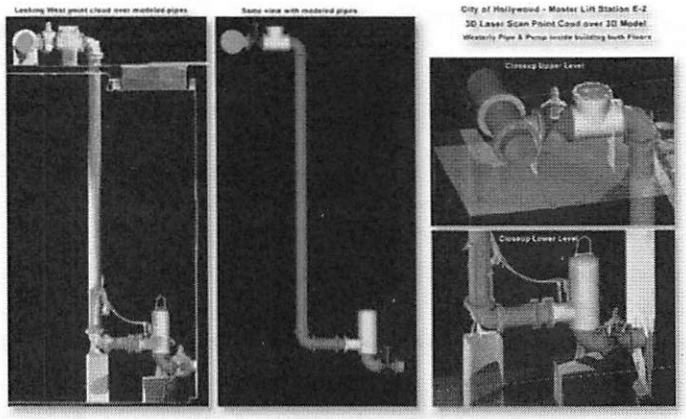
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Jeff Jiang, P.E. Assistant Director - ECSD	Phone: (954) 921-3930 Email: fjiang@hollywoodfl.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson surveyed the existing above and below ground elements of the station was performed using a Leica C-10 3D Laser Scanner. The scanner obtained millions of points that defined the existing piping, structural elements, and mechanical elements of the station. An extremely accurate as-built survey of the station was created for design purposes. The existing lift station was equipped with three - 22 horsepower pumps, which were upgraded to 45 horsepower pumps. The final design upgraded the pumps to three - 45 horsepower pumps to meet the build-out increased sanitary flow and the current DEP standards. All the 8-inch piping and valves in the lift station were upgraded to 12-inch size. These upgrades increased the lift station capacity from approximately 1,700 gallons per minute to 3,500 gallons per minute. The additional upgrades provided odor control through additional high stack vent and new wet well hatch with odor reduction gaskets.





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – As-Built/Design Survey
b.			
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **57**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hydrographic and Storm Water Infrastructure Survey Greenacres, Florida	2016	Not Applicable

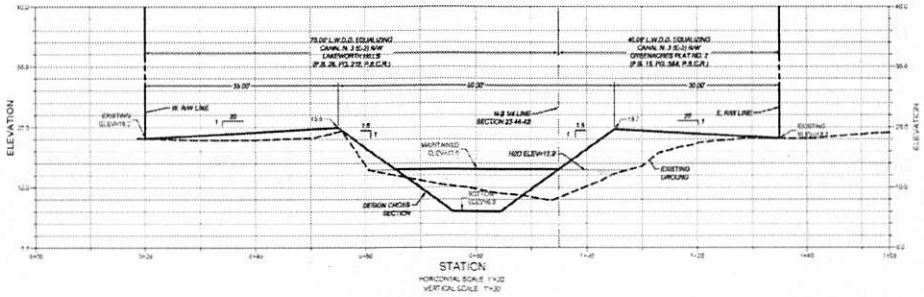
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City Greenacres	Mr. Carlos I. Cedeño Public Works Director	Phone: (561) 642-2074 Email: ccedeno@greenacresfl.gov

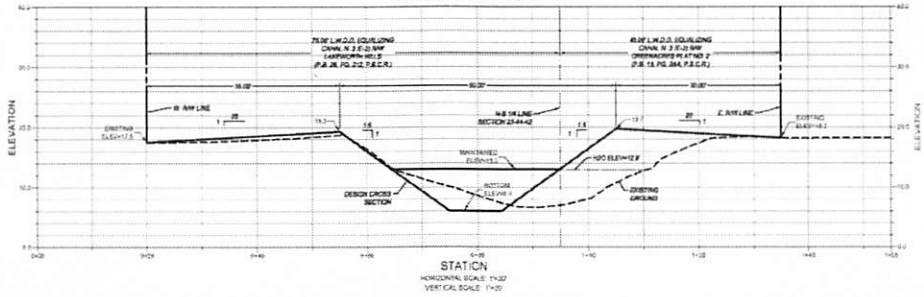
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Along with our sub-consultant, Craven Thompson & Associates created a survey from high-resolution, low-level LiDAR and ground surveying. The survey included roadways and canal cross-sections for proposed Drainage Improvements. Also, included Right-of-way surveys, storm drains, canals and ditches along 1st Street in the Original Section area of the City of Greenacres and a portion of Lake Worth Canal E-3 (cross sectioned).

N-CROSS-SECTION



S-CROSS-SECTION



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Prime – Hydrographic Survey
b.			
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 58

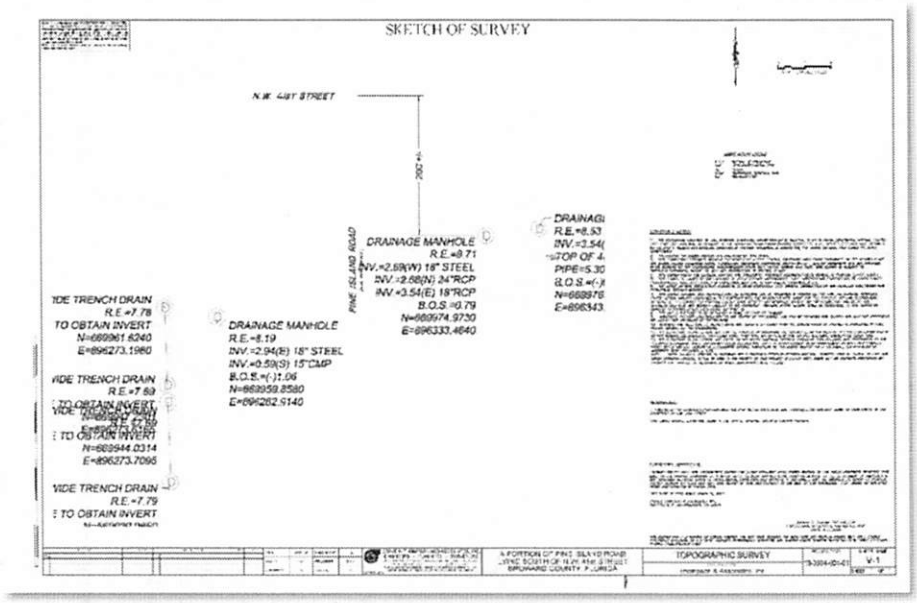
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Pine Island Road Drainage As-builts for BCHCED Broward County, Florida	2018	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Client: Thompson & Associates Owner: BCHECD	Mr. Darren Badore Vice President	Phone: (954) 761-1073 Email: darren@thompson-inc.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson prepared Record Drawing of Drainage Structures on Pine Island Road for Broward County Highway Construction & Engineering Division. We established horizontal control points within the project area. All survey control horizontal locations were tied into the State Plane, Florida East Zone, NAD 83/90 Coordinate system. The vertical datum was established on the horizontal control points, based on the elevations relative to North American Vertical Datum of 1988 (NAVD88), as tied into NGS control points along the C-13 Canal, south of Oakland Park Boulevard. We obtained horizontal location, rim elevations, invert elevations, and pipe sizes of three (3) drainage structures. Craven Thompson obtained location, dimensions and rim elevations of trench drain, located on the west side of Pine Island Road, connected to the structures noted above. The deliverable of the data collected, was plotted on the CADD files, as provided by County.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Sub-Consultant – As-Built Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 59

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Topographic/Hydrographic Surveys for Boat Ramps Improvements, Sunrise, Florida	2018	Not Applicable

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Sunrise	Mr. Tery Glunt, P.E., S.I, Principal Client: Stantec Consulting Services	Phone: (954) 481-2812 Email: Tery.Glunt@stantec.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

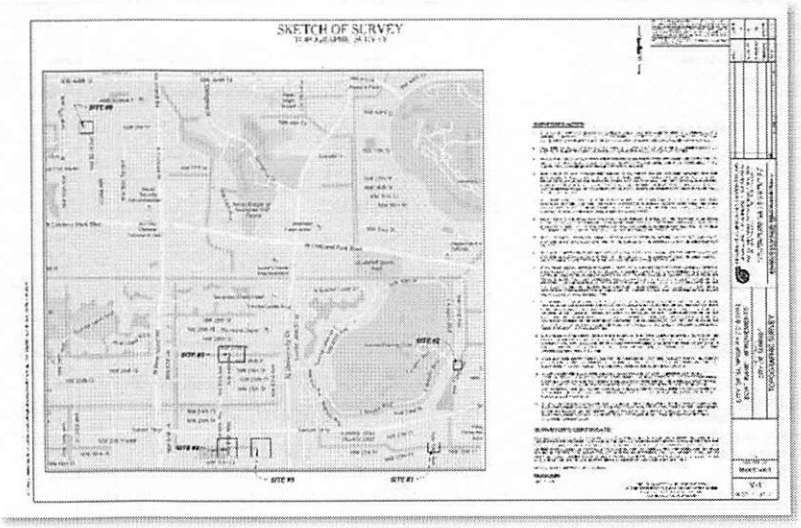
Prepared topographic survey, including elevations obtained from a hydrographic survey, at six (6) different canal locations. The survey limits consisted of only those canal locations for the purpose of engineering design for eight (8) boat ramps.

Site 1: A portion of the east half of right-of-way of NW 74th Avenue, south of NW 21st Street, and north of NW 20th Court. Together with a portion of the canal lying to the east of NW 74th Avenue. Approximately 100' x 100'.

Site 2: A portion of the full right-of-way of East Aragon Boulevard, lying between NW 73rd Avenue and NW 72nd Avenue. Together with a portion of the canal lying NE and SW of East Aragon. Approximately 100' x 175'.

Site 3: A portion of the full right-of-way of NW 83rd Avenue, lying south of NW 21st Court and north of NW 21st Street. Together with a portion of the canal lying adjacent to, and west of NW 83rd Avenue. Approximately 100' x 100'.

Site 4: A portion of the full right-of-way of NW 84th Way, lying south of NW 21st Court and north of NW 21st Street. Together with a portion of the canal lying adjacent to, and west of NW 84th Way. Approximately 100' x 100'.



Site 5: A portion of the full right-of-way of NW 84th Way, lying south of NW 27th Place and north of NW 26th Place. Together with a portion of the canal lying adjacent to, and east and west of NW 84th Way. Approximately 150' x 100'.

Site 6: This site is located at the SW corner of Oak Hammock Park, being a portion of the unimproved westerly extension of NW 41st Street, lying west of NW 91st Lane. Together with a portion of the canal lying adjacent to, and west of NW 41st Street. Approximately 100' x 100'.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role
a.	Craven Thompson & Associates, Inc.	3563 NW 53rd Street Fort Lauderdale, Florida 33309	Subconsultant - Hydrographic & Topographic Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) Role

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

| 26. NAMES OF KEY PERSONNEL (From Section E, Block 12) | 27. ROLE IN THIS CONTRACT (From Section E, Block 13) | 28. EXAMPLE PROJECTS LISTED IN (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.) | | |

SECTION H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Craven Thompson & Associates, Inc. has been an industry leader in the South Florida area since our inception in 1962. With our office located in South Florida, we have established a high-profile presence through the years with a reputation of excellent service to many varied clients, performing the full range of professional services. We have worked closely with many governmental agencies to provide services such as roadway design, landscape architecture, neighborhood improvements, water and wastewater design, GIS/Mapping, surveying, planning, storm water management, streetscape, roadway beautification and construction management.

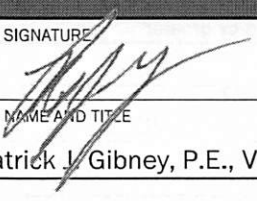
Craven Thompson has been providing professional services to the Tri-County area since the formation of the firm. Craven Thompson has been involved in the design, permitting, surveying, contract administration and construction management of numerous infrastructure rehabilitation projects, redevelopment projects and Capital Improvement Projects, including roadway design, the replacement and upgrade of water and sewer lines, new infrastructure, sewage pump stations, storm water drainage projects, and waterway projects. Our experience includes the design and construction of parks, roadways with streetscape, roadway beautification, complete streets, traffic calming, all levels of stormwater management and drainage and municipal facilities. All of these projects included surveying, studies, modeling, cost estimating, design drawings, technical specifications and construction management for the replacement/rehabilitation of existing roadways and infrastructure and the construction of new drainage facilities, pavement and landscaping

Craven Thompson presents many distinct and unique advantages which will assure timely and cost-effective completion of projects. These advantages include the following:

- An experienced team: Craven Thompson staff has extensive experience with various types of unusual and difficult projects.
- Full-service firm: Craven Thompson can provide all of the civil engineering, surveying landscape architecture, planning, GIS and construction support services needed in-house.
- Project management: Organization lines and responsibilities are clearly defined for each project, ensuring that the best qualified individual is matched to a particular assignment.
- Familiarity with South Florida agencies and engineering practices.
- Continuity: The Resources and staff available at Craven Thompson ensure responsive service and continuity throughout all phases of projects.

I. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts

31. SIGNATURE



32. DATE
March 28, 2022

33. NAME AND TITLE
Patrick J. Gibney, P.E., Vice President, Engineering.

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
RFQ No. 12637-421

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Craven, Thompson & Associates, Inc.	3. YEAR ESTABLISHED 1962
2b. STREET 3563 NW 53rd Street	4. DUNS NUMBER 06-362-4910
2c. CITY / 2d. STATE / 2e. ZIP CODE Fort Lauderdale / Florida / 33309	5. OWNERSHIP a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE Patrick J. Gibney, P.E., Vice President, Engineering	b. SMALL BUSINESS STATUS N/A
6b. TELEPHONE NUMBER (954) 739-6400	6c. E-MAIL ADDRESS pgibney@craventhompson.com
	7. NAME OF FIRM *(If block 2a is a branch office)* Same
8a. FORMER FIRM NAME(S) *(If any)* Davis & Craven, Inc. / Davis, Craven, Thompson, Inc.	8b. YR. ESTABLISHED 1962 / 1975
	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	8	
12	Civil Engineers	24	3
15	Construction Inspectors	7	
16	Const. Management	1	
38	Land Surveyor	20	
39	Landscape Architect	4	
47	Planners; Urban/Regional	1	
	Other Employees		
	Total	65	3

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*	a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Term. & Hangars	1	O01	Office Bldgs.; Industrial Parks	1
B02	Bridges	1	P05	Planning (Comm., Regional)	1
C10	Commercial Bldg.; Shopping	4	P08	Prisons & Correctional	1
C11	Community Facilities	1	P13	Public Safety Facilities	1
D07	Dining Halls; Clubs; Rest.	1	R03	Railroad; Rapid Transit	1
E02	Educational Facilities	3	R04	Rec. Fac. (Parks, Marinas)	5
E09	Environmental Impact Studies	1	R11	Rivers; Canals; Waterways	1
F02	Field Houses; Gyms; Stadiums	1	S04	Sewage Collection, Treatment	4
G01	Garages; Vehicle Maint. Fac.	2	S07	Solid Wastes; Incin.; Landfill	2
G04	Geographic Info. System	2	S13	Storm Water Handling & Fac.	5
H01	Harbors; Ship Terminal Fac.	3	T03	Traffic & Trans. Engineer	1
H07	Hwys.; Streets; Parking Lots	4	T04	Topo. Survey & Mapping	1
H09	Hospital & Medical Facilities	1	U02	Urban Renewals; Comm. Dev.	4
H10	Hotels; Motels	2	W01	Warehouses & Depots	1
H11	Housing (Residential, M-F)	4	W02	Water Resources; Hydrology	1
I01	Industrial Buildings	2	W03	Water Supply; Treatment	5
J01	Judicial & Courtroom Fac.	1			
L04	Libraries; Museums; Galleries	1			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE

b. DATE
March 28, 2022

Dc. NAME AND TITLE
Patrick J. Gibney, P.E., Vice President, Engineering

Standard Form 330: City of Fort Lauderdale, Bid RFQ 12637-421

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person)

12. NAME	**13.** ROLE IN THIS CONTRACT	**14.** YEARS EXPERIENCE	
		a. TOTAL	**b.** WITH CURRENT FIRM
Adebayo Coker, PE	Roadway & Transportation Planning Engineer	28	13

15. FIRM NAME AND LOCATION *(City and State)*

HBC Engineering Company, Doral, Florida

16. EDUCATION *(Degree and Specialization)*	**17.** CURRENTLY PROFESSIONAL REGISTRATION *(State and Discipline)*
Bachelor of Science in Civil Engineering, Florida International University - 1992	Florida, Professional Engineer - No. 55322

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organization, Training, Awards, etc.)*

Asphalt Paving Level I & II, CTQP QA/QC Manager, TTC Advanced #38977

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	**(2)** YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
SW 30th Ave. from Griffin Rd. to SW 45th St. 821 RRR Broward County, FL	2014-2019	
(3) BRIEF DESCRIPTION *(scope, size, cost, etc.)* and SPECIFIC ROLE	X Check if project performed with current firm	

Project Manager in charge of design for ADA compliance, widening to add sidewalk, lighting, minor drainage adjustments, MOT and extensive utility coordination. Signalization improvements include new signal loops and assemblies, traffic signal heads, pedestrian signal heads and detectors, sign panels including internally illuminated signs, traffic controller assemblies, and new mast arm structures. Existing traffic controllers were modified with new concrete poles and aluminum pedestals.

b.

(1) TITLE AND LOCATION *(City and State)*	**(2)** YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
SR 858/Hallandale Bch. Blvd. from SR 7 to Lakeshore Dr. Broward County, FL	2012-2019	
(3) BRIEF DESCRIPTION *(scope, size, cost, etc.)* and SPECIFIC ROLE	X Check if project performed with current firm	

Adebayo Coker, PE, served as project manager for this FDOT project.

c.

(1) TITLE AND LOCATION *(City and State)*	**(2)** YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
I-595 Corridor Roadway Improvements Public Private Partnership (P3) Project Broward County, FL	2009-2014	
(3) BRIEF DESCRIPTION *(scope, size, cost, etc.)* and SPECIFIC ROLE	X Check if project performed with current firm	

Performed interdisciplinary coordination of structural, geotechnical, utility coordination, drainage, MOT, SUE, and surveying for this Private-Public Partnership project (P3) which extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TTCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities. Supervised project scheduling, cost estimate, weekly design meeting, permits, design of landscaping, roadway and ITS, procurement and implementation of Geotechnical report recommendations and design of miscellaneous structures and bridges, emergency access gate design, and review of power design plan submittal packages.

Standard Form 330: City of Fort Lauderdale, Bid RFQ 12637-421

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 1

21. TITLE AND LOCATION (City and State)
I-595 Expressway Corridor Roadway Improvements Project
Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2014	2014

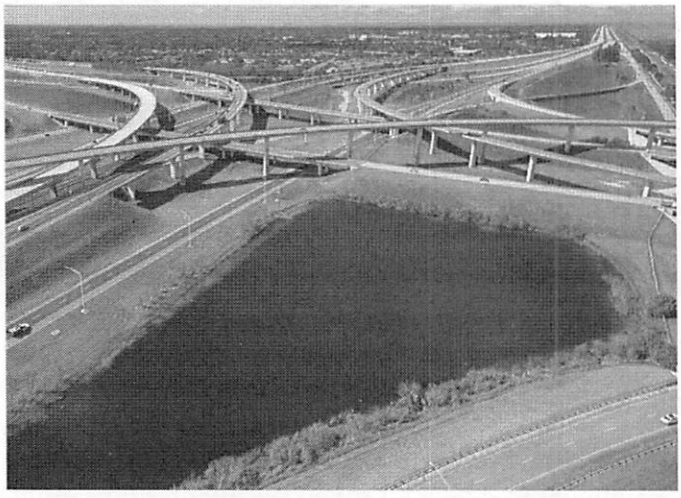
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
FDOT District 4	Michael Shapiro, PE	(954) 513-3838

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project Description:
HBC Engineering Company (HBC) was contracted to provide design support services to AECOM for the reconstruction of the PPP I-595 corridor as well as all associated improvements to adjacent crossroads, frontage roads, and ramps from the I-75/ Sawgrass Expressway interchange to the I-595/I-95 interchange on I-595 and from Peters road to Griffin road on Florida's turnpike, for a total project length of 13 miles. Highlights of the major improvements include tolled reversible ground level express lanes serving express traffic from/to I-75 with a direct connection to median of Florida turnpike, geometric improvements to I-595/Florida turnpike interchange, addition of auxiliary lanes on the eastbound and westbound I-595 and SR-84.

Responsibilities:
HBC personnel served as interdisciplinary coordinator for the entire project, Zone 3 design lead, and responsible for QA/QC of the miscellaneous walls, lighting design, production of drainage structures sheet for Zone 7 using ASAD and Geopak, site development for the ITS HUB building. HBC was also responsible for the overall coordination of utility activities and generated the utilities design base files utilized by all the zones (Zones 1 through 8).





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**HBC Engineering Company**	Fort Lauderdale, Florida	Transportation Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

Standard Form 330: City of Fort Lauderdale, Bid RFQ 12637-421

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 2

21. TITLE AND LOCATION (City and State)
SW 30th Ave. from Griffin Rd. to SW 45th St.
Broward County

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2017	N/A

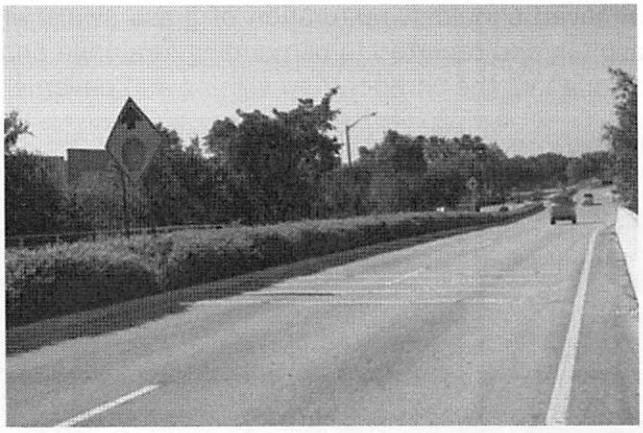
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
FDOT District 4	Brent Lee Shue Ling	(954) 777-4075

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project Description:
HBC Engineering Company (HBC) was selected by the Florida Department of Transportation to provide design services for widening SW 30th Ave., from two (2) lanes to four (4) lanes, from Griffin Road to SW 45th St., and new signing and pavement markings from SW 45th St. to 42nd St. SW 30th Ave., is a Broward County operated and maintained facility and will remain so after the completion of this project. The intent of this project was to extend service life, improve operating characteristics and conditions and enhance safety. Improvements included new bike lanes, filling in missing sidewalk gaps, addressing ADA deficiencies, upgrades to lighting, upgrade drainage systems, signalization retrofits, new signing and pavement markings and landscaping.

Responsibilities:
Typical duties and responsibilities performed by HBC's Team to accomplish the scope of design services include but were not limited to:



- Field reviews and kickoff meeting with FDOT's Project Manager. and key staff to define and set the project Scope of Work.
- Prepared and submitted a Community Awareness Plan (CAP).
- Initial utility contact and utility coordination and updating plans to reflect utility mark-ups.
- Coordinating environmental permits.
- Roadway analysis and plans.
- Coordinated geotechnical boring and pavement work.
- Prepared and submitted pavement design, typical section and design exception/variation packages during initial engineering.
- Coordination drainage design and calculations and drainage layout including inlets/pipes and drainage cross sections.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**HBC Engineering Company**	Fort Lauderdale, Florida	Transportation Engineering
b.			
c.			

Standard Form 330: City of Fort Lauderdale, Bid RFQ 12637-421

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 3

21. TITLE AND LOCATION (City and State)
SR-858 Hallandale Bch Blvd from SR-7 to Lakeshore Dr
Hallandale Beach, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2014	N/A

23. PROJECT OWNER'S INFORMATION

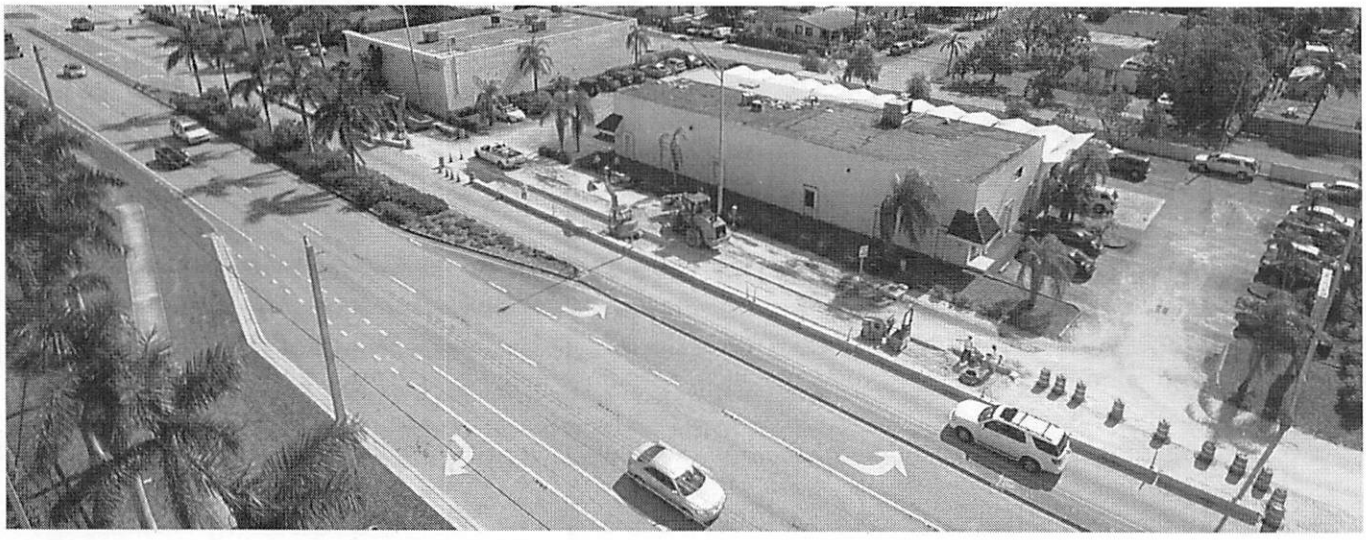
a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
FDOT District 4	Jim Hughes, PE	(954) 777-4419

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project Description:

HBC Engineering Company (HBC) was selected by the Florida Department of Transportation to provide design services for the milling and resurfacing project on Hallandale Beach Blvd. from east of SR 7 (MP 0.233) to west of Lakeshore Drive (MP 2.176). The length of the project is approximately 1.943 miles (10,259 feet).

Within the project limits, Hallandale Beach Blvd. is a divided four-lane roadway with two 12' wide lanes in each direction, a raised inside median, and 6' shoulders (5' paved and 1' unpaved) and 5' sidewalk on both sides. HBC serving as prime consultants managed the preparation of the master plan and design and construction documents for the RRR milling and resurfacing project including ADA ramp and sidewalk upgrade, widening of the existing shoulder as necessary to provide 5' paved (for bicycle lane) and 1' unpaved shoulder, restoration of grass swale where possible in sections that have been filled in with asphalt and reported to be ponding, drainage analysis and design to address existing flooding conditions throughout the corridor, new signing and pavement marking, and signalization replacement.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**HBC Engineering Company**	Fort Lauderdale, Florida	Transportation Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: City of Fort Lauderdale RFQ # 12637-421

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (*or Branch Office*) NAME: HBC Engineering Company	3. YEAR ESTABLISHED: 2006 / 4. UNIQUE ENTITY IDENTIFIER: 801830535
2b. STREET: 5200 NW 33rd Avenue, Suite # 211	5. OWNERSHIP
2c. CITY: Fort Lauderdale / 2d. STATE: FL / 2e. ZIP CODE: 33309	a. TYPE: Corporation
6a. POINT OF CONTACT NAME AND TITLE: Adebayo Coker, PE, President	b. SMALL BUSINESS STATUS: Active CBE, DBE, LDB, MBE, & SBE
6b. TELEPHONE NUMBER: (305) 232-7932 / 6c. EMAIL ADDRESS: acoker@hbcengineeringco.com	7. NAME OF FIRM *(If Block 2a is a Branch Office)*: HBC Engineering Company

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
N/A	N/A	N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	3	
08	CADD Technician	5	
12	Civil Engineer	7	2
15	Construction Inspector	6	
16	Construction Manager	1	
18	Cost Estimator	1	
21	Electrical Engineer	2	
30	Geologist	3	
48	Project Manager	4	
57	Structural Engineer	2	1
60	Transportation Engineer	2	
62	Water Resource Engineer	2	
	Other Employees	5	
	Total	43	3

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C15	Construction Management	4
C18	Cost Estimating	4
D04	Design-Build - Preparation of RFPs	5
E03	Electrical Studies and Design	1
G06	Graphic Design	1
I04	Intelligent Transportation Systems	3
I06	Drainage	3
L06	Lighting (Streets)	4
P06	Planning (Site/Installation/Project)	3
T03	Traffic/Transportation Engineering	4
W02	Water Resources; Ground Water	5
W03	Water Supply; Treatment and Dist.	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	6
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE: 3/28/2022

c. NAME AND TITLE: Adebayo Coker, PE, President

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Donata Williams, PE, SI, MBA, LEED AP, CM-BIM	Project Principal	19	>1

15. FIRM NAME AND LOCATION *(City and State)*
Jenkins and Charland Inc., DBA TRC Worldwide Engineering - Plantation, FL

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B.S in Civil Engineering MS in Architectural Engineering (Structures Concentration) Master in Business Administration	Professional Engineer: FL, NC, NY Special Inspector of Threshold Buildings - FL LEED Accredited Professional CM-BIM Certification

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
(FSEA) Florida Structural Engineers Association
(AISC) American Institute of Steel Construction

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
School Board of Broward County / Miami-Dade County Public Schools / School District of Palm Beach County GOB Projects

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
2016	In Design/Construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Manage more than 25 projects for Broward County and 2 for Miami-Dade and Palm Beach County Schools under their individual General Obligation Bonds for the deferred maintenance and renovations of various Broward County Schools. o Curbs and attachments for replaced mechanical equipment. Analysis of the existing structure for new equipment. Wind pressure diagrams and jamb/linter reinforcing for new windows and doors. Wind pressure diagrams for re-roofing. Miscellaneous structural repairs. Structural coordination for the repairs or renovations under other A/E disciplines. Project Role: Project Manager

b.

(1) TITLE AND LOCATION *(City and State)*
Overtown Youth Center
Miami-Dade, County

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
2019	Under construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

New 3-story, 55,000SF charter school and community building for the city of Overtown, built in conjunction with Miami-Dade Public Schools, composed of shallow foundations, cast-in-place concrete, precast structural concrete, and storefront.
Project Role: Project Manager, Structural Engineering

c.

(1) TITLE AND LOCATION *(City and State)*
Bluesten Park
Hallandale Beach, FL

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
2017	2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Structural engineering design services for this 50,000 sq. ft. community center along with five surrounding single-story buildings that ranged from 400 to 2,000 sq. ft. Structural systems included steel joists, structural steel beams and columns, tilt up panels and reinforced masonry walls; going for LEED certification.
Project Role: Project Manager, Structural Engineering

d.

(1) TITLE AND LOCATION *(City and State)*
Project Venus, LegoLand Orlando
Winter Haven, FL

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
2019	2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

New theme park "land" at LegoLand Orlando in Winter Haven, FL. Design consisted of foundations for rides, canopies, and theming elements as well as for new building structures. Project consists of the design of various materials, concrete, light gauge steel, wood, and masonry.
Project Role: Project Manager, Structural Engineering

e.

(1) TITLE AND LOCATION *(City and State)*
ECF Engineering Consultants Office Building
West Palm Beach, FL

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
2021	In construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Design of new 21,000 square foot, two-story office building. Structural framing includes tilt-up bearing walls, steel columns, and composite steel floor framing
Project Role: Project Manager, Structural Engineering.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Town of Sewall's Point Mandalay Island Private Bridge, Martin County, FL	2021	IN CONSTRUCTION

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
private individual		

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Mandalay Bridge project involves the design and construction of a new 250 ft bridge to be built over a lagoon off the Indian River to a private island, to replace the existing wood bridge. The new bridge is framed with concrete supported by prestressed concrete piles. The bridge is designed based on FDOT standards.

Due to the location of this bridge, the bridge needs to be able to support the crane during construction. TRC worked closely with the civil engineer, owner and contractor to review possible construction methods and provide analysis for multiple crane size options. Consideration also needed to be given to power lines adjacent to the work area.

TRC's scope of work included:

(A) Provide structural engineering design and preparation of construction drawings.
(B) Coordinate with building code officials and other appropriate public agencies.
(C) Prepare statements of Special Inspection
(D) Assist with bidding as necessary and respond to permit comments.
(E) Perform typical construction administration tasks, including but not limited to: shop drawings, requests for information, site visits during construction, review of testing and inspection reports, etc.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Cypress Creek Rehydration & Natural Storage project	2021	in construction

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
St Lucie County		

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project objective was to restore some historical flows to the Cypress Creek hydric forest on the north and south side of SR-70 in western St. Lucie County. The project includes the construction of two sheet pile weirs, one with an operable split gate and catwalk and one fixed weir, as well as adding a concrete cap to an existing sheet pile weir within an FDOT drainage canal along SR-70.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Sullivan Park, Deerfield Beach	2015	2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Deerfield Beach		

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

TRC performed structural design, construction phase, and inspection services on a new $4.9M park. Situated on the Intracoastal Waterway, project included (1) structures at the marina, including a seawall and docks, (2) picnic shelter and children's playground, (3) an all-steel stairway structure leading upward from the park to the Hillsboro Blvd (intracoastal) bridge; and (4) Restroom structure with poured concrete flat slab roof on concrete columns and shallow foundations; attached shading structure is hallow steel tubes.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 12637-421

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME: Jenkins and Charland Inc., DBA TRC Worldwide Engineering

3. YEAR ESTABLISHED: 1969

4. DUNS NUMBER:

2b. STREET: 1230 North University Drive

5. OWNERSHIP

a. TYPE: Corporation

2c. CITY: Plantation

2d. STATE: FL

2e. ZIP CODE: 33322

b. SMALL BUSINESS STATUS: No

6a. POINT OF CONTACT NAME AND TITLE: Donata Williams, PE, SI, MBA, LEED-AP, CM-F=BIM
Managing Principal

7. NAME OF FIRM *(If block 2a is a branch office)*: TRC Worldwide Engineering

6b. TELEPHONE NUMBER: 954-484-7777

6c. E-MAIL ADDRESS: dwilliams@trcww.com

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. DUNS NUMBER
Jenkins & Charland/TRC Worldwide Engineering, Inc.	2000	
TRC Worldwide Engineering, Inc.	2006	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	(2) BRANCH
57	Structural Engineers	24	3
08	CADD Technician	12	1
15	Construction Inspector	6	2
02	Administrative	6	1
	Restoration Project Managers	3	1
	Other Employees		
	Total	51	8

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
E02	Educational Facilities; Classrooms	3
O01	Office Buildings; Industrial Parks	2
H06	High Rise; Air-Rights-Type Bldgs.	2
L04	Libraries; Museums; Galleries	1
S09	Structural Design; Special Structures	2
A11	Auditoriums & Theaters	1
G01	Garages; Vehicles Maintenance Facilities; Parking Decks	2
H10	Hotels; Motels	3
H11	Housing (Residential, Multi-Family, Apartments; Condominiums)	2
B02	Bridges	2
D07	Dining Halls; Clubs; Restaurants	1
W01	Warehouses & Depots	1
R06	Rehabilitation (Buildings; Structures; Facilities)	3
R04	Recreation Facilities (Parks, Marinas)	1
P13	Public Safety Facilities	3
F02	Field Houses; Gyms; Stadiums	1
C10	Commercial Building (low rise); Shopping Centers	2
H09	Hospital & Medical Facilities	3

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	0
b. Non-Federal Work	6
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE: Donata Williams

b. DATE: 3/21/2022

c. NAME AND TITLE: Donata Williams, P.E., S.I., MBA, LEED AP, CM-BIM

STANDARD FORM 330 (REV. 8/2016)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jannek Cederberg, PE	**Principal-in-charge, Senior Coastal Engineer**	**17**	**12**

15. FIRM NAME AND LOCATION (City and State)
Cummins Cederberg, Inc. *(South Miami, FL)*

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
MSc Coastal Engineering, Technical University of Denmark	PE 69839 *(Florida, Professional Engineer)*

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Jannek is originally from Denmark and earned his master's degree in coastal engineering from the Technical University of Denmark. Prior to relocating to South Florida 17 years ago, he worked in Denmark for two large international consulting firms in their respective coastal and marine engineering departments. During his graduate studies, he also spent time at the Danish Hydraulic Institute - now named DHI Water & Environment. Jannek has completed engineering analyses and designs for a variety of shore protection, beach nourishment, riverine, cruise-ship, marina and waterfront projects throughout South Florida. He has prepared construction plans and specifications for shore protection works including beach nourishment, jetties, groins, revetments, breakwaters, and bulkheads.

19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION *(City and State)*

Matheson Hammock Park Sea Level Rise and Flood Mitigation Plan, *Coral Gables, FL*

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2018	**NA**

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project Manager. Prepared a Sea Level Rise Flood Mitigation Plan to analyze the impacts of sea level rise on the park's infrastructure and operations, as well as develop flood mitigation concepts for planning and budgeting. Compiled existing survey data within the Park and LiDAR data for the area to prepare a general topographic map for the Park; assessed the condition of existing infrastructure to understand conditions, remaining service life and adaption feasibility relative to sea level rise; performed an assessment of the environmental conditions on site to generally understand and document current conditions, as it would relate to environmental permitting; conducted an engineering analysis to provide extreme tide water levels; developed flood mitigation concepts and preliminary cost estimates; coordinated stakeholder involvement; developed an implementation strategy; final report of findings and strategy.

b. (1) TITLE AND LOCATION *(City and State)*

Haulover Park Sea Level Rise and Flood Mitigation Analysis, *Miami Beach, FL*

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2020	**NA**

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project Manager. Prepared a Sea Level Rise Flood Mitigation Analysis to analyze the impacts of sea level rise on the park's infrastructure and operations, as well as develop flood mitigation concepts for planning and budgeting. Compiled existing survey data within the Park and LiDAR data for the area to prepare a general topographic map for the Park; assessed the condition of existing infrastructure to understand conditions, remaining service life and adaption feasibility relative to sea level rise; performed an assessment of the environmental conditions on site to generally understand and document current conditions, as it would relate to environmental permitting; conducted an engineering analysis to provide extreme tide water levels; developed flood mitigation concepts and preliminary cost estimates; coordinated stakeholder involvement; developed an implementation strategy; final report of findings and strategy.

c (1) TITLE AND LOCATION *(City and State)*

Miami Beach Truck Haul, *Miami Beach, FL*

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2015	**NA**

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project Manager. Performed surveying, data collection, volumetric and equilibrium toe of fill analysis based on available historical beach profiles for four segments of beach. This information was utilized in designing the expansion of beach segments for maintenance nourishment.

d. (1) TITLE AND LOCATION *(City and State)*

MSC Cruises Ocean Cay, *Bimini Islands, The Bahamas*

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Ongoing	**NA**

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project Manager. Topographic and bathymetric surveying rectified aerial photography and mapping for proposed out-island cruise destination. Environmental resource surveys and preparation of Environmental Impact Assessment (EIA) for proposed land and marine works. Detailed coastal engineering analysis, including numerical modeling of hurricane impacts. Engineering design of beach improvements and shoreline stabilization of reshaped island perimeter. Processing of EIA through government regulatory agencies.

e. (1) TITLE AND LOCATION *(City and State)*

Hillsboro Club Emergency Dune Repair, *Hillsboro Beach, FL*

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2017	**NA**

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project Manager. Emergency dune restoration and repair services, as well as sand studies. Performed pre-construction sediment testing, design plans, permit application packages, and coordinated with the Town of Hillsboro Beach. Design plans were prepared based on maximizing the volume of sand seaward of the project property. Sand samples were obtained, and sand testing and analysis was performed to find available dune sand sources for replacement. A neighboring dredging project was taking place, and Cummins Cederberg was able to perform sand testing prior to the beginning of the dredging project, including collection of sand samples from the existing dune/berm area, to determine if the sand source could be used for the dune repair, making the project more economically feasible for the client.

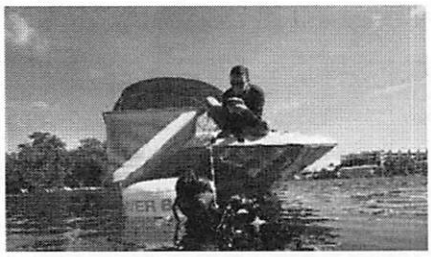
F. Example projects which best illustrate proposed team's qualifications for this contract: *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. Example project key number: 1

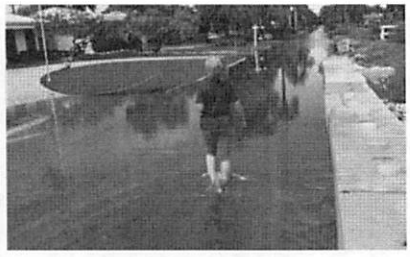
21. Title and location: (City and State)	22. Year completed:	
Title of Project *(City, State)* **Hollywood Tidal Flooding Mitigation and Shoreline Protection,** *Hollywood, FL*	Professional services:	Construction (If applicable):
	Ongoing	NA

23. Project owner's information:

A. Project owner:	B. Points of contact name:	C. Point of contact telephone number:
City of Hollywood	Juan Jose Figueroa	954-921-3410

24. Brief description of project and relevance to this contract *(Include scope, size, and cost)*





Cummins Cederberg is assisting the City with their *Tidal Flooding Mitigation and Shoreline Protection* project. The project consists of evaluating 22 areas, covering over 10,000 linear feet of shoreline, along the areas known as North and South Lake in the City of Hollywood. Each area will have specific solutions to address seasonal flooding challenges, which may entail the design and implementation of varied shoreline protection infrastructure such as of living shorelines, rock revetments, and bulkheads, to meet the requirements of the new Broward County ordinance. The scope of services includes biological resource surveys, above and below water engineering assessments, coastal and marine engineering, environmental permitting, bidding assistance, and construction administration.

Our team of marine biologists recently completed a benthic resource survey of the submerged lands adjacent to the 22 project areas. The survey was conducted using SCUBA during the seagrass growing season and identified important protected resources. Resources observed included shoal grass, paddle grass, and the threatened Johnson's seagrass. This survey will inform project design to ensure impacts to these important resources are avoided and minimized to the maximum extent practicable and will support environmental permit applications. Biologists also assess the vegetation to identify protected and invasive vegetation in the 22 areas. This information will inform project design and support permit applications. Eradication of the exotic vegetation delineated during the survey may also provide ecological mitigation to offset unavoidable project impacts.

Upland and in-water engineering site inspections were recently performed at City owned shorelines in North Lake, South Lake, the southern end of West Lake, and along both sides of the ICW to evaluate conditions of existing seawalls and revetments. Tide gauges were deployed in North Lake, South Lake, and the Hollywood Marina to determine tidal prisms, lag time, and water level elevation differences between each lake and the ICW. This information will be utilized for design of tidal flood mitigation structures to protect from king tide and sea level rise flooding. This project will enable the City to mitigate the severe flooding that occurs during king tides in the neighborhoods surrounding North and South Lakes.

25. Firms from Section C involved with this project:

a. (1) Firm Name	(2) Firm Location (City and State)	(3) Role
Cummins Cederberg, Inc.	South Miami, FL	Subconsultant (TY Lin)

F. Example projects which best illustrate proposed team's qualifications for this contract: *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. Example project key number: 2

21. Title and location: (City and State)	22. Year completed:	
Title of Project *(City, State)* **Dade Boulevard/ Collins Canal Shoreline Stabilization & Seawall Replacement** *Miami Beach, Florida*	Professional services:	Construction (If applicable):
	2012	2012

23. Project owner's information:

A. Project owner:	B. Points of contact name:	C. Point of contact telephone number:
Harbour Construction, Inc	Guy Lessor	605-603-9944

24. Brief description of project and relevance to this contract *(Include scope, size, and cost)*

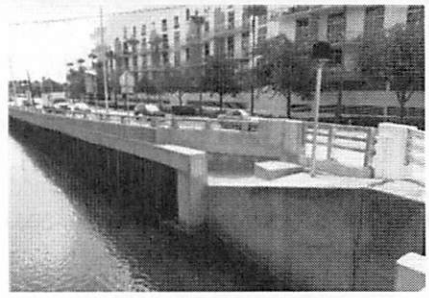
Dade Boulevard, located in Miami Beach, is situated alongside the Collins Canal. It is an east-west connecting road and thus crosses many of the main avenues on the barrier island. As part of the construction of a bike path along the road, shoreline stabilization was required.

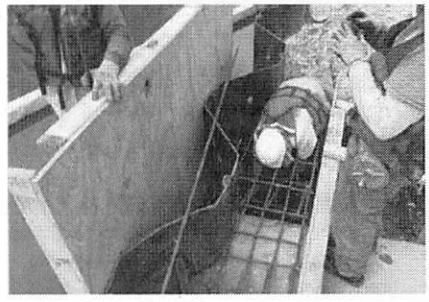
Cummins Cederberg was retained to design the 2,670 feet of steel sheet pile bulkhead along the canal, including a concrete cap. Due to the proximity of the seawall to the road, a concrete crash barrier capable of withstanding vehicle impacts was also incorporated.

The bulkhead design was further complicated by extensive below ground utilities in the area. These included main sewer, water, and high-voltage electrical lines connecting the northern and southern parts of Miami Beach. Some of the utilities were of significant age, thus limited information relative to dimensions, locations, and depth were available. In these cases, the contractor and engineer were required to hand excavate to physically locate the lines and subsequently maintain a safe buffer during pile driving. Incorporating the required buffers from existing utilities required innovative structural designs to ensure these sections of wall without piles could retain the anticipated earth and vehicle loads.

The south side of the canal generally consisted of older residences, approximately 50 feet from the proposed bulkhead. To ensure no impacts to these structures during vibratory installation of the steel sheet piles, Cummins Cederberg was retained to conduct vibration monitoring throughout construction.







25. Firms from Section C involved with this project:

a.	(1) Firm Name	(2) Firm Location (City and State)	(3) Role
	Cummins Cederberg, Inc.	South Miami, FL	Subconsultant

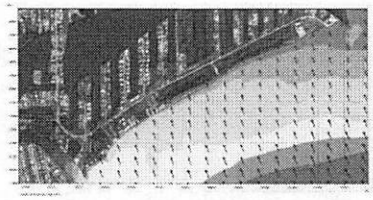
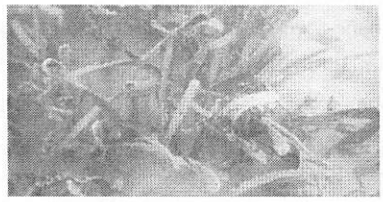
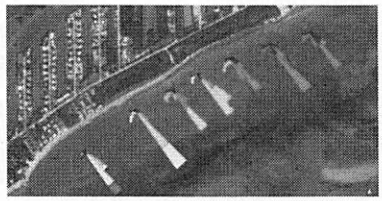
F. Example projects which best illustrate proposed team's qualifications for this contract: *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. Example project key number: 3

21. Title and location: (City and State)	22. Year completed:	
Title of Project *(City, State)* **Coco Plum Beach Erosion Study and Design,** *Marathon, FL*	Professional services:	Construction (If applicable):
	2017	NA

23. Project owner's information:

A. Project owner:	B. Points of contact name:	C. Point of contact telephone number:
City of Marathon	Carlos Solis, PE	305-289-5008

24. Brief description of project and relevance to this contract *(Include scope, size, and cost)*

Coco Plum Beach is located along the southeast coast of Marathon in the Florida Keys. The beach is one of few beaches in the Florida Keys and popular among residents and tourists. However, the beach has historically experienced significant erosion requiring costly beach fill projects, along with the nuisance of construction, and periods with limited beach use area. The beach is exposed to the Atlantic Ocean but is fronted by extensive shallow seagrass habitat, reducing direct exposure to ocean waves.

Cummins Cederberg was retained to conduct an erosion study, prepare a beach design involving coastal structures to provide long term stability, as well as conduct a benthic survey to quantity potential impacts to the nearshore seagrass habitat. As part of the erosion study, a detailed statistical analysis of offshore wave data was conducted along with a wave propagations study. Sediment transport and potential erosion are typically governed by the wave conditions.

Utilizing the advanced MIKE21 wave model, the wave transformation from offshore to nearshore was analyzed. The detailed wave modelling allowed for detailed review and comparison of the wave climate along the beach as well as assessing sediment transport rates.

Based on the results of the wave modeling and sediment transport assessment the underlying coastal processes of the erosion trends were documented and utilized in the beach and coastal structure design process. The area triggering the beach erosion was identified and solutions for stabilizing this area, while still providing sandy beach access were developed. Understanding the underlying coastal processes allowed for an efficient design that works with the natural processes, thus reducing long term maintenance typically associated with projects working against nature.

Construction Amount: $1.5M (estimated)

25. Firms from Section C involved with this project:

a.	(1) Firm Name	(2) Firm Location (City and State)	(3) Role
	Cummins Cederberg, Inc.	South Miami, FL	Subconsultant (TY Lin)

F. Example projects which best illustrate proposed team's qualifications for this contract: *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. Example project key number: 4

21. Title and location: (City and State)	22. Year completed:	
Title of Project *(City, State)* **Haulover Park Sea Level Rise and Flood Mitigation Roadmap,** *Miami, FL*	Professional services:	Construction (If applicable):
	2020	NA

23. Project owner's information:

A. Project owner:	B. Points of contact name:	C. Point of contact telephone number:
Miami-Dade County	Joe Garcia	305-755-5456

24. Brief description of project and relevance to this contract *(Include scope, size, and cost)*

Haulover Park is located along the eastern shoreline of Miami, between the City of Sunny Isles and Bal Harbour Village. Cummins Cederberg was engaged by Miami-Dade County Parks, Recreation & Open Spaces to prepare a sea level rise and flood mitigation study relative to Haulover Park in Miami Beach. The primary objective was to analyze the impacts of sea level rise on the park's infrastructure and operations, as well as develop flood mitigation concepts for planning and budgeting purposes. Seven specific areas within the park were identified as priority areas.

1. Inlet shoreline stabilization (interior seawall and revetment)
2. Upland beach
3. Atlantic Way Path and associated facilities
4. Marine Center and boat ramps
5. Western shoreline stabilization
6. Bill Bird Marina
7. Parking lots

The scope of work included compiling existing survey and LiDAR data to prepare a topographic map; site condition assessment (including environmental resources); engineering analyses with extreme tide water levels; flood mitigation concept development; stakeholder involvement; and concept evaluations for budget and planning.

By incorporating flood mitigation measures into the County's park maintenance schedule, the cumulative additional cost of adapting to sea level rise is significantly less. Through a coastal engineering analyses, Cummins Cederberg was able to provide guidance on planning and connecting individual components based on anticipated service life, construction costs, and projected sea level rise.

Construction Amount: $72M (estimated)

25. Firms from Section C involved with this project:

a.	(1) Firm Name	(2) Firm Location (City and State)	(3) Role
	Cummins Cederberg, Inc.	South Miami, FL	Prime

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Cummins Cederberg, Inc.			**2010**	**962526153**
2b. STREET			5. OWNERSHIP	
888 S Andrews Ave			a. TYPE	
2c. CITY	2d. STATE	2e. ZIP CODE	**Corporation**	
Fort Lauderdale	**FL**	**33316**	b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE			**Broward County CBE**	
Jannek Cederberg, PE			7. NAME OF FIRM *(If block 2a is a branch office)*	
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS		NA	
305-741-6155	**jcederberg@CumminsCederberg.com**			
8a. FORMER FIRM NAME(S) *(If any)*			8b. YR. ESTABLISHED	8c. DUNS NUMBER
NA			NA	NA

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	6	1
07	Biologist	5	1
08	CADD Technician	3	1
12	Civil Engineer (Marine & Coastal)	15	2
16	Construction Manager	2	1
24	Environmental Scientist	7	2
29	GIS Specialist	1	0
	Other Employees	2	0
	Total	41	8

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C07	Coastal Engineering	4
C15	Construction Management	2
D08	Dredging Studies and Design	2
E09	Environmental Impact Studies	3
E10	Environmental Resource Mapping	2
E11	Environmental Planning	2
G04	GIS Services, Data Collection	2
H01	Harbors; Jetties, Piers, Ship Term.	2
H13	Hydrographic Surveying	1
R11	Rivers; Canals; Waterways; Flood	1
S09	Structural Design; Special Structures	4
S10	Flood Plain Studies; Mapping	2
T04	Topographic Survey and Mapping	1

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	6
c. Total Work	6

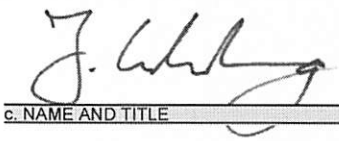
PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less Than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE



b. DATE

03/23/2022

c. NAME AND TITLE

Jannek Cederberg, President

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
MIKE BISHOP PE, LEED AP	VICE PRESIDENT OF ENGINEERING	24	18

15. FIRM NAME AND LOCATION *(City and State)*

RGD Consulting Engineers 2151 S. Highway Alt A1A, Suite 2000, Jupiter, Florida 33477

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Bachelor of Science in Industrial Engineering University of Florida	Florida PE# 73000

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

American Society of Heating, Refrigeration and Air Conditioning Engineers, American Society of Mechanical Engineers

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)* 2.

PBC Emergency Operations Center (EOC)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2018	2018

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Upgrade Dispatcher Work Stations/Flooring

b.

(1) TITLE AND LOCATION *(City and State)* PBC North County 3.

PBC North County Government Center Fire Alarm Replacement

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2018	TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Created MEP/FP Design for the upgrade of Fire Alarm systems for the North County Government Center.

c.

(1) TITLE AND LOCATION *(City and State)*

PBC Animal Care & Control Study & Design

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2019	TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Addition of a 12,600 sf 2 story structure to house the spay/neuter clinic and administration area; Creation of a physically separated isolation holding area for cats and dogs within the existing structures; Addition of 3,650 sf to create a cattery to include an adoption processing lobby, cat nursery, cat adoption temporary holding, grooming room, a free roaming cat adoption/display suite and an outside cat patio areas; Addition of 7,350 sf for ACC Field Operations; Renovation of approximately 90% of the building including renewal/replacement of the existing building to accommodate a more robust and productive clinic; and Installation of the infrastructure required for temporary seasonal HVAC solution.

d.

(1) TITLE AND LOCATION *(City and State)*

PBC Fleet Management HVAC Replacement

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2019	2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

RGD is providing, mechanical, electrical and FP for PBC Fleet Management.

e.

(1) TITLE AND LOCATION *(City and State)*

Palm Beach County Homeless Resource Center Health Clinic | Lake Park, FL

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2019	2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

RGD provided MEP design for new HCAV design and change out for the Homeless Resource Center Health Clinic.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE ROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
St. Lucie County Sherriff's Administration Building Fort Pierce, Florida	2015	*2016*

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
St. Lucie County	Bernie Volk, FPL Services LLC	561-681-3044

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project for St. Lucie County under FPL Services LLC. The project involved energy savings analysis and construction drawings. The project scope involved the following replacement of the air cooled chiller and installation of dedication RTU and replacement of existing electric hot water heat with high efficiency gas fire unit.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	RGD Consulting Engineers	Jupiter, Florida	Structural, Mechanical, Electrical & Plumbing Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
		Jupiter, Florida	
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER	

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Jupiter Community Park Phase II Jupiter, Florida	2014	2014-2015

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Jupiter	Mark Beatty, Architect Architecture Green	561-398-2109

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Design-Build project for the City of Jupiter. RGD was the structural, mechanical, electrical and plumbing engineering sub-consultant for this project.

There was one air conditioned 4,500 SF building consisting of a concession stand, men and women's bathrooms, meeting room, storage and an office. RGD's team provided design of the MEP systems for the building including the lightening protection plan, fiber optic cable from phase I to data rack and surveillance equipment.

Structurally, RGD's team designed the building's foundation and primary building system.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	RGD Consulting Engineers	Jupiter, Florida	Structural, Mechanical, Electrical & Plumbing Engineer
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER	

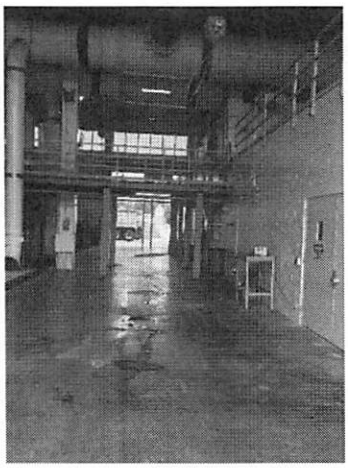
21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Palm Beach County Water Utilities Department's Southern Regional Water Reclamation Facility (SRWRF) Solids Building HVAC Boynton Beach, Florida	2015	

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Capital Improvement Division Palm Beach County	Anthony Longo, Facilities System Project Manager	561-233-0219

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The existing air conditioning units had outlived their useful life span, were outdated technology and in need of replacement. RGD was involved in the design of replacing the existing equipment with the latest technology and energy ratings for better efficiency and ease in maintenance.

RGD worked closely with Palm Beach County project manager to conduct discovery, conduct calculations and provide design of engineering construction documents for the HVAC replacement. The project was completed through construction documents and put on hold due to expanded scope.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	RGD Consulting Engineers	Jupiter, Florida	Mechanical, Electrical & Plumbing Engineer
b.		Jupiter, Florida	
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
St. Lucie County Sherriff's Administration Building Fort Pierce, Florida	2015	*2016*

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
St. Lucie County	Bernie Volk, FPL Services LLC	561-681-3044

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project for St. Lucie County under FPL Services LLC. The project involved energy savings analysis and design documents for bidding. The project scope is as follows:

Replace Air Cooled Chiller and Install Dedicated RTU

- Replace existing 2005 125 ton air cooled chiller with Trane scroll or rotary chiller (based on best value) with heat recovery option.
- Install a rooftop unit (RTU) for a critical area (approximately 2000 sq. ft.) to provide 24/7 temperature and humidity control.
- Provide structural analysis and design as required for installation of RTU.
- Integrate chiller heat recovery into existing heat recovery/chilled water piping loop.
- Integrate new chiller and RTU into existing Siemens control system. Provide override controls to start chilled water system in off hours for a designated time period.
- Provide new roof curb and structural attachment for RTU, including roofing details.
- Provide new electrical service to RTU.

Replace Existing Electric Hot Water heater with High Efficiency Gas Fired Unit

- Replace existing 120 gallon electric domestic water heater with a high efficiency natural gas fired unit. Existing gas service is already in place from previous hot water heater which was removed.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	RGD Consulting Engineers	Jupiter, Florida	Structural, Mechanical, Electrical & Plumbing Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)* Jupiter, Florida	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

RGD
CONSULTING
ENGINEERS

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME			3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER
RGD Consulting Engineers			1988	622899805
2b. STREET			5. OWNERSHIP	
2151 S Alt A1A #2000				
2c. CITY	2d. STATE	2e. ZIP CODE	a. TYPE	
Jupiter	FL	33458	S-Corporation	
6a. POINT OF CONTACT NAME AND TITLE			b. SMALL BUSINESS STATUS	
Nate Davenport | President			Yes	
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS		7. NAME OF FIRM *(If block 2a is a branch office)*	
561-743-0193 ext 102	nate.davenport@rgdengineers.com			

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
21	Electrical PE	2	
21	Electrical EIT	1	
42	Mechanical Engineer PE	4	
42	Mechanical Engineer EIT	2	
57	Structural Engineer PE	2	
57	Structural Engineer EIT	2	
08	CADD Drafter	20	
48	Project Manager	6	
02	Administrative	10	
	Total	49	

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A11	Auditorium & Theaters	1
C06	Churches; Chapels	4
C10	Commercial Buildings	6
C11	Community Facilities	6
C13	Computer Facilities	1
D07	Dining Halls; Clubs; Restaurants	6
E02	Educational Facilities	1
E03	Electrical Studies & Design	1
E07	Energy Conversion; New Energy	1
F02	Field Houses; Gyms; Stadiums	1
F03	Fire Protection	1
G02	Gas Systems	7
H04	Heating; Ventilating; A/C	6
H09	Hospital & Medical Facilities	3
H10	Hotels; Motels	7
H11	Housing	2
O02	Office Buildings	2
P06	Planning	2
P07	Plumbing & Piping Designs	1
R04	Recreation Facilities	1
R06	Rehabilitation	4

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	6
b. Non-Federal Work	7
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $ 1 million
5. $1 million to less than $ 2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	b. Date
Nate Davenport	1/1/2022
c. Nate Davenport | President	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Mark Luther, PE, Senior VP	**Chief Electrical Engineer**	**35**	**25**

15. FIRM NAME AND LOCATION *(City and State)*

Hillers Electrical Engineering, Inc., Boca Raton, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BSEE, Electrical Engineering	PE / FL – Electrical Engineering

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mark Luther brings over 35 years of electrical, instrumentation, communication, and control system design experience to this contract. He has actively performed electrical, lighting, communication, fire alarm and instrumentation and control system design/SCADA, upgrade and project engineering for government, transportation, facility, and utility business sectors. Designed complete electrical distribution, secondary systems and instrumentation systems for large water and wastewater treatment facilities. Designed emergency stand by power systems for industrial, commercial facilities, completed startups, testing of electrical systems, cost estimates and master plan electrical studies. Skills include value engineering, cost analysis, specification creation, energy analysis, on-site inspections, condition assessment, QA/QC reviews and electrical system fault and coordination studies. Proficiency with SKM Power Tools for Windows DAPPER, CAPTOR, TMS and ARC FLASH; AutoCAD, LitePRO.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: **Palm Beach County Water Utilities – SRWRF Headworks and Effluent Transfer Pumping Improvements, Boynton Beach, FL**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION *(if applicable)*: Under Construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Provided electrical, instrumentation and control engineering and design for upgrades to pretreatment process including new band screens, conveyors, grit classifier, odor control and upgrade to 4160-480V power distribution equipment in the Pretreatment Building. Designed new VFD; power distribution and control systems for additional effluent transfer pump to existing Reclaim System.

Specific Role: Electrical, Instrumentation & Control Engineer of Record.

b.

(1) TITLE AND LOCATION *(City and State)*: **City of Sunrise Utilities – Springtree WWTP Headworks Upgrade, Sunrise, FL**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(if applicable)*: Under Construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Performed Electrical, Instrumentation and Control Design for Upgrade of existing plant influent pretreatment process including screens, grit removal and classification. **Specific Role:** Electrical, Instrumentation & Control Engineer of Record.

c.

(1) TITLE AND LOCATION *(City and State)*: **Palm Beach County Water Utilities -SRWRF Secondary Clarifier and Effluent Filtration Improvements, Boynton Beach, FL**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(if applicable)*: Under Construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Provided electrical, instrumentation and control engineering and design for upgrades to eight existing clarifiers and upgrades/additions to the existing effluent filtration system including new filters, pumps, instruments, and power distribution equipment.

Specific Role: Electrical, Instrumentation & Control Engineer of Record.

d.

(1) TITLE AND LOCATION *(City and State)*: **City of Sunrise Utilities- Sawgrass Train A Replacement**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2019 — CONSTRUCTION *(if applicable)*: Under Construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Performed Electrical, Instrumentation and Control Design for Replacement of existing Blower Building No.1 and associated Aeration Basins. Project entails constructing new Blower Building No.1 while maintaining existing Blower Building No.1 in service until decommissioned. Project includes new redundant electrical power distribution system, new PLC based control system, new instrumentation, implementation of VFDS on new blowers, repowering existing plant process equipment not upgraded but powered from existing Blower Building No.1.

Specific Role: Lead Electrical, Instrumentation and Controls Engineer

e.

(1) TITLE AND LOCATION *(City and State)*: **Broward County Water and Wastewater Services – NRWWTP Reclaim System Expansion, Pompano Beach, FL**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION *(if applicable)*: Under Construction

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Designed Instrumentation and Control System for 22MGD reclaimed process upgrade. Project included new filters; new filter feed pumps, new chlorine contact chamber; reclaimed water storage and distribution and hypochlorite chemical system.

Specific Role: Instrumentation and Control Engineer of Record

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
City of Fort Lauderdale Comprehensive Utility Strategic Master Plan	2017	N/A

23. PROJECT OWNER'S INFORMATION

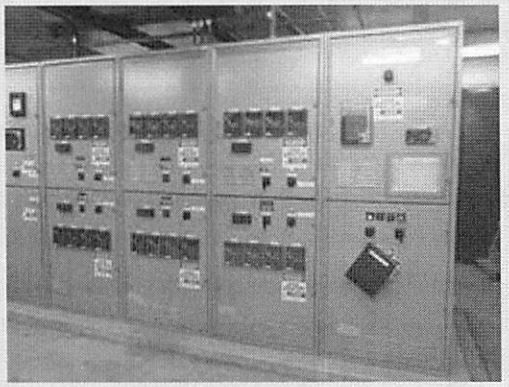
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Steve Hillberg, P.E.	(954) 828-5076

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Hillers Electrical Engineering, Inc. (HEE) supplied the master planning and limited assessment of the existing systems relating to the electrical, Instrumentation and Control (I&C), programmable logic controllers (PLC), and Supervisory Control and Data Acquisition (SCADA) for City of Ft. Lauderdale existing Water Treatment Plants (WTP's), Wastewater Treatment Plants (WWTP's), Wellfields, Lift Stations, and other pump station systems.

Project Highlights:

- Perform site visit to all the existing WTP's, WWTP's, wellfields, lift stations, and pump stations systems and provide limited assessment of the existing electrical, I&C, and SCADA systems
- Review the existing as-built documents, earlier study, and other analysis reports
- Review the existing electrical power distribution system at each plant and report deficiencies of each system along with recommendations for short-term improvements and long-term improvements
- Review the existing electrical equipment based on field conditions and age of equipment to determine their useful lifespan, safety, and reliability concern, etc. and provide recommendations for improvements or replacements
- Review existing networking and PLC/SCADA system and provide recommendations for short-term improvements and long-term improvements
- Coordinated with the City personnel to assess their difficulties of maintaining the existing electrical, I&C, and SCADA related systems and provide recommendations for short-term improvements and long-term improvements
- Provide projected costs for 1-5 years improvements, 6-10 years improvements, 11-15 years improvements, and 16-20 years improvements for both electrical, I&C, and PLC/SCADA systems





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Hillers Electrical Engineering, Inc.	Boca Raton, Florida	Development of Master Plan
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
City of Hollywood, Lift Station W-14	2018	N/A

23. PROJECT OWNER'S INFORMATION

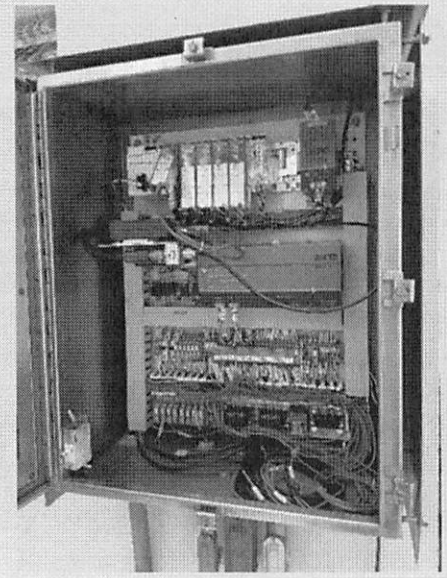
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Pat Gibney	954-739-6400

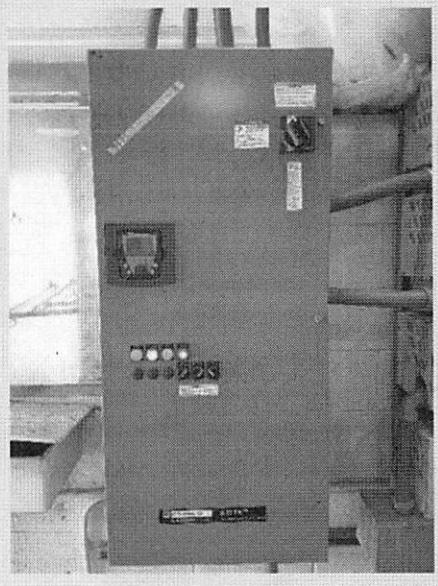
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Hillers Electrical Engineering provided electrical, instrumentation and control/RTU design services for the Lift Station W-14 Upgrade.

Project Highlights:

- Demolish existing lift station motor control center (MCC), variable frequency drives (VFDs), emergency standby generator, remote telemetry unit (RTU), control panels, lighting systems, and conventional power systems.
- Coordinate upgraded electrical service with Florida Power and Light.
- Design complete electrical distribution system and instrumentation and control systems per the current City of Hollywood standards. Includes increase from a two-pump to a three-pump station, new motor control center (MCC), variable frequency drives (VFDs), emergency standby generator, remote telemetry unit (RTU), portable generator connection box, airflow monitoring system, control panels, lighting systems, and conventional power systems.





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Hillers Electrical Engineering, Inc.	Boca Raton, Florida	Electrical and Instrumentation and Control/RTU Design
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT	20. EXAMPLE PROJECT KEY NUMBER 3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
Palm Beach County Water Utilities Department **Glades Priority 1 Lift Station Rehabilitation Project**	2016	2018

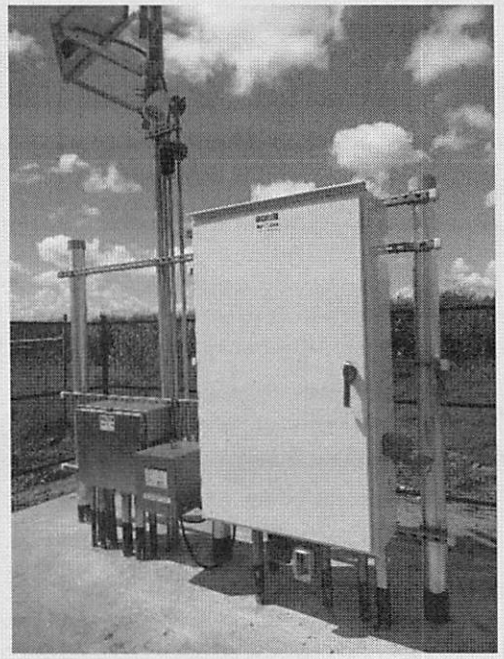
23. PROJECT OWNER'S INFORMATION

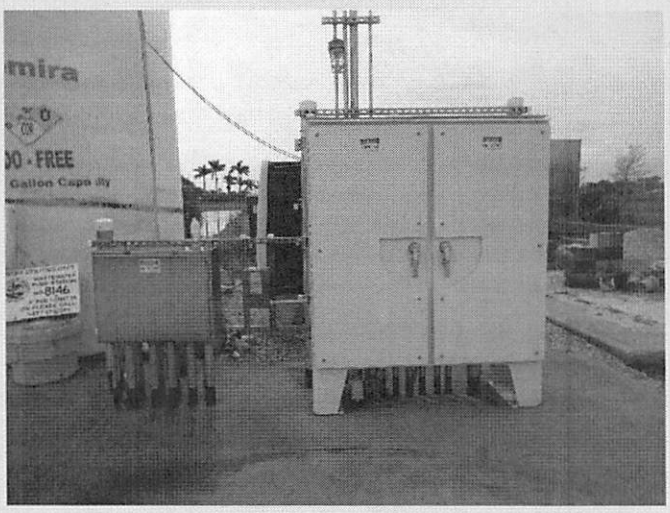
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Palm Beach County Water Utilities Department	Mr. Duane Palumbo	561-493-6000

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Hillers Electrical Engineering provided electrical and instrumentation design and construction inspection services for the wastewater lift stations rehabilitation project which included lift station No. 8118, 8130, 8135, 8146 and 8148.
Project Highlights:

- **Design lift stations per PBC Lift Station Standards**
- **Review shop drawings**
- **Inspect underground electrical installation**
- **Inspect new control panel installation**
- **Inspect communication of RTU**
- **Test the operation and functionality of lift stations**





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Hillers Electrical Engineering, Inc.	Boca Raton, Florida	Electrical and Instrumentation Design and Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

ARCHITECT–ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If Any)*:

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME: Hillers Electrical Engineering, Inc.		3. YEAR ESTABLISHED: 1994	4. UNIQUE ENTITY IDENTIFIER: 876227059
2b. STREET: 23257 State Road 7, Suite 100		5. OWNERSHIP	
2c. CITY: Boca Raton	2d. STATE: Florida / 2e. ZIP CODE: 33428	a. TYPE: Corporation	
		b. SMALL BUSINESS STATUS: Active	
6a. POINT OF CONTACT NAME AND TITLE: Paul Hillers, President		7. NAME OF FIRM *(If block 2a is branch office)*	
6b. TELEPHONE NUMBER: 561-451-9165	6c. E-MAIL ADDRESS: phillers@hillersee.com		
8a. FORMER FIRM NAME(S) *(If any)*: NA		8b. YR. ESTABLISHED: NA	8c. UNIQUE ENTITY IDENTIFIER: NA

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
21	Electrical & Instrumentation Design Engineers	7	
16	Electrical Construction Manager	5	
08	CADD Technician	2	
02	Administrative	1	
14	Computer Programmer	1	
	Other Employees		
	Total	16	

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
E03	Electrical Studies and Design	4
W03	Water Supply; Treatment and Distribution (Electrical and Instrumentation Design)	6
C15	Construction Management	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	5
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000	6. $2 million to less than $5 million
2. $100,00 to less than $250,000	7. $5 million to less than $10 million
3. $250,000 to less than $500,000	8. $10 million to less than $25 million
4. $500,000 to less than $1 million	9. $25 million to less than $50 million
5. $1 million to less than $2 million	10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE: P. Hillers	b. DATE: 3/15/2022
c. NAME AND TITLE: Paul Hillers, President	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Manuel G. Vera, Jr., PSM	Principal / Chief Surveyor	a. TOTAL 38	b. WITH CURRENT FIRM 38

15. FIRM NAME AND LOCATION (City and State)
Manuel G. Vera & Associates, Inc. Miami, FL

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Bachelor of Science, Legal Studies, Nova Southeastern University, 1994 Associates of Science, Land Surveying, Miami Dade College, 1988	Professional Surveyor & Mapper, Florida, PSM#5291 (1994)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Vera Jr., a registered Land Surveyor has over 38 years of experience with the company and throughout the state of Florida. He has managed a variety of survey contracts and projects for the Florida Department of Transportation, Miami-Dade County, Miami-Dade Expressway Authority, City of Miami, and numerous Engineering and Design firms. Mr. Vera has performed and managed all types of surveying services including: Design Surveys, Right-of-Way Control Surveys, Right-of-Way Mapping, Platting, Construction Layout, As-built Surveys, Drainage Surveys, etc. Mr. Vera is a Chief Surveyor and Mapper as well as our Chief Executive Officer. He has extensive experience in the management and coordination of survey projects involving a variety of surveying techniques such as Aerial Surveys, Conventional Ground Surveying, Utilities designation, etc. Professional Affiliation: Florida Surveying & Mapping Society

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
Districtwide Continuing Services for Survey, Mapping, and SUE (C-9T24) FDOT District 4 (Broward, Martin, Indian River, Palm Beach & St. Lucie County FL)	2022	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Task driven contract. Surveying and mapping services for this contract include: Mobile Lidar, Field Surveys, Maintenance of Traffic (MOT), Historical Baseline and Existing ROW Determination, Global Positioning System (GPS) Surveys, Monumentation Surveys, Bathymetric surveys (which includes single beam, multi beam and side scanner sonar capabilities), Utility Designation and Excavation (including Underwater Utilities), Tree Surveys (trees identified by an Arborist or Landscape Architect), ROW Control Survey Maps, ROW Maps, Maintenance Maps, ROW Monumentation Maps, Boundary Surveys, Quality Assurance Reviews, Expert Witness Testimony, Title Search Plotting Maps, Title Document Review and Analysis, Sketched, Parcel Staking, and Legal Descriptions. $5Million. Role: Principal-in-Charge

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
SR-9/I-95 from north of Gateway Boulevard to south of Lantana Road FDOT District 4 (Palm Beach County, Florida)	2018	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

MGV was responsible for providing the following services: the establishment of horizontal (NAD 83/90) and vertical control (NAVD 88) networks, Alignment and Existing Right of Way Lines, Reference Points, Topographic survey and Digital Terrain Model (DTM/3D) in 3D laser scanning, Planimetrics, Roadway Cross Sections/Profiles, Side Street Surveys, Underground Utilities, Drainage Survey, Jurisdiction Line Survey, Sectional Grant Survey, Subdivision Location, Miscellaneous Surveys, Supplemental Surveys, Document Research, Field Review, Quality Assurance/Quality Control, Supervision, and Coordination. $256,828.40. Role: Chief Surveyor

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
Miami to Miami Beach Light Rail / Modern Street Car (Miami Beach Corridor Connector) PD&E MDC Department of Transportation & Public Works (Miami-Dade County, FL)	2019	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Limits: Miami Transit Connector from Alton Road and 5th Street in Miami Beach west along the Macarthur Causeway (I-395), south along Biscayne Boulevard to Government Center station and north along NW/NE 1st Avenue and North Miami Avenue to NE 41st Street in Midtown Miami. MGV is performing adequate research to graphically establish the existing right of way for planning purposes of the Miami portion of the project limits, and design survey tasks will be performed: horizontal project network control; survey baseline and right of way; topographic/DTM survey performed along the MacArthur Causeway; topographic (2D) survey will be performed from right of way to right of way and will extend to the radius return on all intersecting side-streets along the project limits; sectional survey and subdivision locations for survey baseline and right of way lines; miscellaneous survey locating vertical clearances over pavement signaling mast arms, bridges and signs; PNC sheets with horizontal values only, as well as station and off-set for the entire project limits; and provide work zone safety. $550,948.67. Role: Chief Surveyor

d

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If Applicable)*
Continuing Services for Survey, Mapping, and SUE – 27 Intersections for Traffic Design (TWO #51) FDOT District 4 (Palm Beach County, Florida)	2018	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

MGV is responsible for establishing graphical right of way lines for 27 intersections based on existing plat, right of way map and section corner information. Work Zone safety is also provided as needed. A recent addendum (No.1) was issued, and includes: establishing secondary control utilizing FPRN as necessary at each intersection, updating the right of way for 11 intersections, surveying 22 subdivision blocks for 11 intersections in order to establish the existing right of way, and work zone safety as required. $42,543.66. Role: Principal-in-Charge

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Districtwide Continuing Services for Survey, Mapping & SUE (Broward, Indian River, Martin, Palm Beach, and St. Lucie Counties, Florida)	2022	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
FDOT - District 4	Jeffrey Smith, PSM	954-777-4560

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Contract Amount: $5 Million
Project Length: task driven

FDOT District Four
Contract: C-9T24

Project Description: Task driven contract performing miscellaneous survey tasks in Broward, Indian River, Martin, Palm Beach, and St. Lucie Counties, and all municipalities within the district. Surveying and mapping services for this contract include, but are not limited to: Mobile Lidar, Field Surveys, Maintenance of Traffic (MOT), Historical Baseline and Existing Right of Way Determination, Global Positioning System (GPS) Surveys, Monumentation Surveys, Bathymetric surveys (which includes single beam, multi beam and side scanner sonar capabilities), Utility Designation and Excavation (including Underwater Utilities), Tree Surveys (trees identified by an Arborist or Landscape Architect), Right of Way Control Survey Maps, Right of Way Maps, Maintenance Maps, Right of Way Monumentation Maps, Boundary Surveys, Quality Assurance Reviews, Expert Witness Testimony, Title Search Plotting Maps, Title Document Review and Analysis, Sketched, Parcel Staking, and Legal Descriptions.

Task Work Orders under this contract: 130

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Manuel G. Vera & Associates, Inc.	Miami, FL	Prime
b.			
c.			
d.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Districtwide Survey and Mapping Production Support (Broward, Indian River, Martin, Palm Beach, and St. Lucie Counties, Florida)	2019	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
FDOT - District 4	Jeffrey Smith, PSM	954-777-4560

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Contract Amount: $1.5 Million
Project Length: task driven

FDOT District Four
Contract: C-9D58

Project Description: Task driven contract performing miscellaneous survey tasks in Broward, Indian River, Martin, Palm Beach, and St. Lucie Counties, and all municipalities within the district. Recent tasks have included all aspects of Preliminary Engineering including establishing horizontal (NAD 83/90) and vertical control (NAVD 88) networks using GPS and conventional methods, establishing historical survey baseline and right of way, Topographic Surveys, Bridge Surveys, Drainage Surveys, Boundary and Right of Way Surveys, parcel sketches and legal descriptions for acquisitions parcels, construction easements, aerial easements, etc. including titles searches and reports.

Task Work Orders under this contract: 60

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Manuel G. Vera & Associates, Inc.	Miami, FL	Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Fort Lauderdale Field Station #2 Subsurface Utility Engineering Services (Broward County, Florida)	2017	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Bowman Consulting Group, Inc.	Robert Bernes Jr, PSM	772-283-1413

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Subcontract Amount: $11,000

South Florida Water Management District

Project Description: MGV is responsible for preparing a complete Design survey, which includes the establishment of horizontal (NAD 83/90) and vertical control (NAVD 88) networks, survey baseline and right of way, and the creation of Topographic surveys and Digital Terrain Model (DTM/3D) in 3D laser scanning, as well as provide Subsurface Utility Designations, and Utility Locates.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Manuel G. Vera & Associates, Inc.	Miami, FL	Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*:

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (*or Branch Office*) NAME: Manuel G. Vera & Associates, Inc.	3. YEAR ESTABLISHED: 1977
	4. UNIQUE ENTITY IDENTIFIER: 032194151
2b. STREET: 13960 SW 47th Street	5. OWNERSHIP
2c. CITY: Miami	2d. STATE: FL
2e. ZIP CODE: 33175	a. TYPE: Corporation
6a. POINT OF CONTACT NAME AND TITLE: Manuel G. Vera, Jr., PSM Chief Executive Officer	b. SMALL BUSINESS STATUS
6b. TELEPHONE NUMBER: (305) 221-6210	6c. E-MAIL ADDRESS: mverajr@mgvera.com
	7. NAME OF FIRM *(If Block 2a is a Branch Office)*

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	4	
08	CADD Technician	6	3
38	Land Surveyors	5	6
58	Technician/Analyst	28	13
	Other Employees		
	Total	43	22

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	0
b. Non-Federal Work	6
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE: 3/21/22

c. NAME AND TITLE: Manuel G. Vera, Jr., PSM Chief Executive Officer

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LCATION *(City and State)*

Civil Engineering, Continuing Services Contract, City of Fort Lauderdale

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
	12637-421

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Raj Krishnasamy, P.E., President/ Principal Engineer

5. NAME OF FIRM

Tierra South Florida, Inc. dba TSFGeo

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
(561) 687-8536	(561) 687-8570	Raj@TSFGeo.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check) PRIME	(Check) J-V PARTNER	(Check) SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.			☒	TSFGEO ☐ CHECK IF BRANCH OFFICE	2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411	Geotechnical Engineering Services
b.				☐ CHECK IF BRANCH OFFICE		
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☐ *(Attached)*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Kumar Vedula, P.E.	**Principal Engineer**	a. TOTAL: 26	b. WITH CURRENT FIRM: 16

15. FIRM NAME AND LOCATION *(City and State)*
TSFGeo, West Palm Beach, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Bachelor of Engineering, Andhra University, India, 1992 MS Civil Engineering, University of Memphis, 1995	Professional Engineer, Florida No. 54873

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
American Society of Civil Engineers, Past President
Augered Cast-in-Place and Driven Pre-stressed Concrete Pile Field Performance Comparison, Frizzi, R. P, & Vedula, R.V, Published in FHWA Resource Center, 83rd Annual Transportation Research Board Meeting, Washington D.C., January 2004

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*: **54-inch Force Main, Broward County, Florida**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(If applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Mr. Vedula was the Geotechnical Principal Engineer of the Geotechnical Engineering Services for the 54-inch Force Main project. Provided a geotechnical engineering report including geotechnical evaluations and recommendations regarding site preparation above existing pipes, site preparation with sufficient cover, construction excavation and dewatering, vibration, and settlement monitoring and pre and post construction survey, excavations, and lateral Earth pressures. ***✓Completed on time ✓Within budget***

b.
(1) TITLE AND LOCATION *(City and State)*: **Copans Road Wastewater Replacement Project, Coconut Creek, Florida**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION *(If applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Mr. Vedula was the Geotechnical Principal Engineer of the Geotechnical Engineering Study for the Copans Road Wastewater Replacement Project. The project consists of the replacement of the existing force main for a length of about 11,500 linear feet. Provided geotechnical evaluations and recommendations regarding excavations, trench backfill, lateral earth pressure and related construction considerations. ✓ ***Completed on time ✓ Within budget***

c.
(1) TITLE AND LOCATION *(City and State)*: **Control Structure N-17, Davie, Florida**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(If applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Mr. Vedula was the Principal Engineer of the Geotechnical Engineering Services for the upgrade of the Control Structure N-17. The purpose of this study was to provide Geotechnical input to the design team to assist in evaluation of the merits of the replacement alternatives. Provided a geotechnical engineering report including geotechnical evaluations and recommendations regarding headwalls. ✓ ***Completed on time ✓ Within budget***

d.
(1) TITLE AND LOCATION *(City and State)*: **Pump Station #8 Replacement, City of Hallandale Beach, Florida**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION *(If applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Mr. Vedula was the Principal Engineer for the Geotechnical Engineering Study for Pump Station #8. The project includes replacement of existing waterline and construction of pump stations. Provided a geotechnical engineering report including geotechnical evaluations and recommendations regarding site preparation, foundations, excavations, trench backfill, lateral Earth pressures, and other considerations regarding preconstruction conditions survey. ✓ ***Completed on time ✓ Within budget***

e.
(1) TITLE AND LOCATION *(City and State)*: **Miramar Wastewater Reclamation Facility Expansion, Miramar, Florida**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(If applicable)*: 2019
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Mr. Vedula was the Geotechnical Principal Engineer of the Geotechnical Engineering and Construction Material Testing Services for the Miramar Wastewater Reclamation Facility Expansion project. The Miramar Wastewater Reclamation Facility Expansion consisted of a new Reuse Storage Tank, Chlorine Contact Basin, and Filters, and roadway improvements along Pembroke Road. Provided a geotechnical engineering report including geotechnical engineering evaluations and recommendations regarding foundation design, foundation soil preparation requirements; general site development, and comments regarding factors that may impact construction and performance of the construction. TSFGeo also provided Construction Material Testing Services for the project. ***✓Completed on time ✓Within budget***

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Pines Village Water Main Improvements Phase II & Septic Tank Conversion, City of Pembroke Pines, Florida	**2021**	**N/A**

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Pembroke Pines c/o Kimley-Horn	Mr. Gary R. Ratay, P.E	(954) 535-5100

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

TSFGeo provided a Geotechnical Engineering Study for the Pines Village Water Main Improvements Phase II and Septic Tank Conversion located in the City of Pembroke Pines, Florida.

The project consisted of utility improvements.

TSFGeo's geotechnical field study included SPT borings.

Provided a geotechnical engineering report including geotechnical engineering evaluations and recommendations regarding excavations, trench backfill, and lateral Earth pressures.

✓ ***This project was completed on time and within budget.***
TSFGeo Consultant Fees: $24,949.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	TSFGeo	West Palm Beach, Florida	Geotechnical Engineering Services

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Hollywood Utility Infrastructure Improvements Phase 1, Broward County Florida	**2021**	**N/A**

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County c/o Tetra Tech | US Infrastructure Division	Mr. Kenneth L. Caban, P.E., VP	(954) 308-3511

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

TSFGeo provided Geotechnical Engineering Services for the Hollywood Utility Infrastructure Improvements Phase I project.

The project included improvements to sections of Sheridan St (SR 822) W Lake Dr to SR A1A, and SR A1A from Sheridan St to E Dania Beach Blvd.

The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans for the improvements.

TSFGeo's geotechnical field study included SPT hand auger borings; estimated the seasonal high groundwater table; reviewed readily available published topographic and soils information obtained from the "Soil Survey of Broward County, Florida," published by the United States Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS) and USGS Maps; classified soil samples in the laboratory using the AASHTO Soil Classification System, soil samples were used for testing in the laboratory to establish the soil properties and confirm the visual classification. The laboratory testing included Atterberg limit tests, grain size analysis tests, and moisture content tests.

Provided a geotechnical engineering report including geotechnical engineering evaluations and recommendations regarding excavations, groundwater control, pavement design considerations, on-site soil suitability, monitor existing structures, geofabrics, pavement cores, roadway general information, coring process, cracking, rut depths, cross slopes, and roadway surface conditions.

✓ ***This project was completed on time and within budget.***
TSFGeo Consultant Fees: $101,656.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	TSFGeo	West Palm Beach, Florida	Geotechnical Engineering Services

QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	NUMBER 3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Broward County Water and Wastewater (BCWWS), Pompano Beach, Florida	**2020**	**N/A**

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Palm Beach c/o Stephen Boruff, AIA Architects & Planners, Inc.	Mr. Stephen Boruff, President	561-471-8520

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

TSFGeo performed a Geotechnical Engineering Study for the BCWWS – Gravity Sewer, Force Main, and Lift Station, UAZ 235 Improvement project in Pompano Beach, Florida.

The Broward County Septic Tank Elimination Program District 2 Area 2-G, UAZ 235 project includes the construction of Gravity Sewer, Force Main, and Lift Stations. The project is located between NW 16th Lane and NW 17th lane, just north of West Copans Road in the City of Pompano Beach, Florida.

The purpose of the study was to explore the subsurface conditions at the site to enable an evaluation of acceptable construction and site development considerations.

TSFGeo's geotechnical field study included SPT borings.

Provided geotechnical evaluations and recommendations regarding site preparation, foundation design, excavations, trench backfill, lateral Earth pressures and related construction considerations.

✓ ***This project was completed on time and within budget.***
TSFGeo Consultant Fees: $12,163.19

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	TSFGeo	West Palm Beach, Florida	Construction Material Testing Services

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Company Profile

Tierra South Florida, Inc. d/b/a TSFGeo is a full-service consulting geotechnical engineering, construction materials testing and inspections firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and Microstation plan sheets, laboratory soils testing, and construction materials testing. Our services also include threshold/special inspections and roofing inspection services.

The geotechnical and materials engineering services provide clients with the comprehensive range of siting, planning, design, construction, and quality control disciplines required for major construction projects.

Mr. Raj Krishnasamy, P.E. qualifies as a minority by Federal Guidelines. Mr. Krishnasamy is a licensed Engineer with 34 years of experience in geotechnical, material engineering and inspection services. TSFGeo is a certified **Disadvantaged Business Enterprise (DBE)** with the *Florida Department of Transportation* and a certified **Minority Business Enterprise (MBE)** with the *State of Florida's Office of Supplier Diversity.* Additionally, TSFGeo is a certified **Small Business Enterprise (SBE)** with the *SFWMD and Pinellas County.* Our main office is in West Palm Beach, Florida with branch offices in Miami Lakes, Tampa and Orlando, Florida.

Geotechnical Engineering

TSFGeo can provide a complete range of geotechnical engineering services. These services include site assessments, planning, field and laboratory investigations, design specifications and recommendations, quality control, instrumentation, and performance studies. TSFGeo will evaluate and then develop recommendations regarding both existing structures and new construction. Applications are for all types of buildings, airport facilities, transportation systems, landfills, dams, and other civil and private projects. TSFGeo's primary market is minority business set aside by City, County, State and Federal agencies.

Construction Materials Engineering and Testing

TSFGeo offers materials engineering, testing and inspection services applicable to the governmental, construction and manufacturing industries. During construction, monitoring and quality control services will cover every phase of construction and all materials used. Our field and laboratory technicians hold industry-recognized certifications (ACI/CTQP/PCI/FPCA) for aggregates, asphalt, concrete, and earthwork testing as well as drilled shaft, augercast pile, and pile driving monitoring.

Laboratory Facilities

TSFGeo owns and operates three fully equipped in-house soils, concrete, aggregate, and asphalt testing laboratories certified by Construction Materials Engineering Council (CMEC). TSFGeo labs follow American Society for Testing and Materials (ASTM) and American Association of State Highway and Transportation Officials (AASHTO) standards and our West Palm Beach laboratory is also validated by FDOT and the United States Army Corp of Engineers (USACE). These laboratories provide specialized testing services associated with geotechnical engineering, and construction materials to better meet the needs of its clients. TSFGeo's laboratory facilities are designed and operated to provide fast, reliable information to assure the meeting of client's needs. The trained and certified laboratory staff will routinely perform physical properties testing of soil, rock, concrete, steel, asphalt, and composite building materials. These testing services are performed in support of all project phases, including site investigations and assessments, design, and construction.

Corporate and Project Management Philosophy

The TSFGeo organization is committed to minimizing corporate administrative control which allows both branch management and specific technical teams to take correct and timely actions to meet the objectives of their clients. Employees stress quality, responsive services in which they will take a great deal of pride. Client satisfaction with the quality of TSFGeo's work, past and future, will result in a large percentage of work to be performed for repeat clients.

Interaction with Regulatory Agencies

TSFGeo has an excellent working relationship with the FDOT as well as the SFWMD. When working within right of way of these agencies, TSFGeo will submit an application for request of work permit and obtain the proper authorization prior to proceeding with work. TSFGeo will then follow up with a meeting to explain the scope in detail and notify the agency at completion.

The foregoing is a statement of facts.

31. SIGNATURE	32. DATE
	March 9, 2022

33. NAME AND TITLE

Raj Krishnasamy, P.E., President/Principal Engineer

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: *12637-421*

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME **Tierra South Florida, Inc. d/b/a TSFGeo**			3. YEAR ESTABLISHED 2003 / 4. UNIQUE ENTITY IDENTIFIER 829296222
2b. STREET 2765 Vista Parkway, Suite 10			5. OWNERSHIP a. TYPE Corporation
2c. CITY West Palm Beach	2d. STATE FL	2e. ZIP CODE 33411	b. SMALL BUSINESS STATUS DBE - FDOT UCP MBE - Florida Statewide OSD SBE – Pinellas County & SFWMD.
6a. POINT OF CONTACT NAME AND TITLE **Raj Krishnasamy, P.E., President/Principal Engineer**			7. NAME OF FIRM *(If block 2a is a branch office)* N/A
6b. TELEPHONE NUMBER (561) 687-8536	6c. E-MAIL ADDRESS **Raj@TSFGeo.com**		

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
N/A	N/A	N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
2	Administrative	6	6
8	CADD Technician	2	2
27	Foundation/Geotechnical Eng	7	7
58	Technician/Analyst	27	27
15	Construction Inspector	5	5
16	Construction Manager	2	2
	Total	49	49

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
S05	Soils and Geologic Studies; Foundations	6
T02	Testing and Inspection Services	6

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

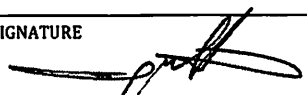
a. Federal Work	6
b. Non-Federal Work	6
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000.
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	b. DATE
	March 9, 2022
c. NAME AND TITLE **Raj Krishnasamy, P.E., President/Principal Engineer**	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

infamap

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Andres Mauricio Garcia	**SUE Project Manager**	22	21

15. FIRM NAME AND LOCATION *(City and State)*

InfraMap Corp., West Palm Beach, FL

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Associates in Science, Palm Beach State College, Palm Beach, FL	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

ATSSA, Traffic Control Supervisor Certification

Confined Space Entry Training Program Certification (OSHA 1910.146)

FUCC Utility Coordination Discussion Seminar

CSX Roadway Worker Protection Annual Certification

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: Southport Backbone 24' Force Main, Port St. Lucie, Florida

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2019; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Serving as SUE project manager, Mr. Garcia led the InfraMap field crews as they performed utility designating and air/vacuum utility test hole services for this project, which identified the need to reduce force main pressures on the existing 12" line and replace the line with a 24" force main. InfraMap crews targeted over 30,000 LF of utilities and excavated 50 air/vacuum utility test holes for this project.

b.

(1) TITLE AND LOCATION *(City and State)*: City of Fort Lauderdale 48 Inch Force Main Emergency Project, Fort Lauderdale, Florida

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

For this multiphase emergency project, Mr. Garcia served as the field project manager for the InfraMap team. InfraMap provided utility designating, and utility locating (test hole) service to the client for this project. A total of 89 utility test holes were excavated for the client, and final submittal of all deliverables were made on time and under budget.

c.

(1) TITLE AND LOCATION *(City and State)*: City of Hollywood Water Main Replacement Program, Hollywood, Forida

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Serving as SUE project manager, Mr. Garcia lead the InfraMap field crews to provide utility designating and utility test hole services for this project. Approximately 20,000 LF of utilities were located and 31 utility test holes were excavated, processed, and delivered to client using FDOT standards for this project. This project was completed on time and under budget.

d.

(1) TITLE AND LOCATION *(City and State)*: BCWWS District 3C (20-0011-001-01) SUE Services, Pompano Beach, Florida

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2021; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Serving as SUE project manager, Mr. Garcia led our team to perform utility designating and test hole services in the Pembroke Pines area of Broward County. The InfraMap team completed air/vacuum excavation on 125 test holes for this multiphased project, which was delivered to the client on time and under budget.

e.

(1) TITLE AND LOCATION *(City and State)*: FDOT District 6 District-Wide Utility Locating Services Contract, District 6, Florida

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ ] Check if project performed with current firm

Serving as SUE project manager, Mr. Garcia led the InfraMap team to perform utility designating, air/vacuum test holes, survey and EFB/ CAiCE/MicroStation CADD services on highway projects in District 6 in support of the District's pre-design program.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Fort Lauderdale 48' Force Main Emergency Project Fort Lauderdale, FL	2020	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	David Castro, PE	954-730-0707

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

For this multiphase emergency project, the InfraMap team provided utility designating and utility locating (test hole) services.

A total of 89 utility test holes were excavated for the client, and final submittals of all deliverables were made on time and under budget.

Contract Value: $70,981.05



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**InfraMap Corp.**	**West Palm Beach, FL**	**Sub-consultant**
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 2

21. TITLE AND LOCATION *(City and State)*

District Contract for Subsurface Utility Designating and Locating - District 4, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2018	

23. PROJECT OWNER'S INFORMATION

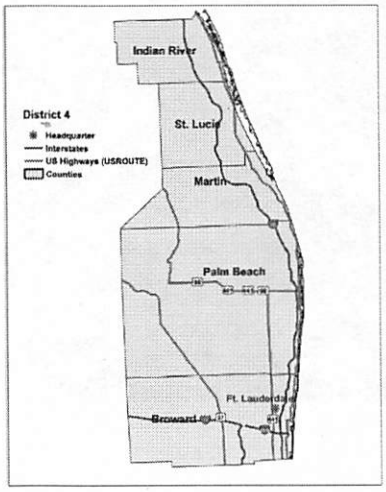
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Florida Dept. of Transportation	Jeff Smith, PSM	954) 777-4560

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

InfraMap Corp. provided subsurface utility engineering services at quality levels A-D for the Florida Department of Transportation throughout District 4 for this on call contract.

The InfraMap team placed focus on quality delivery of services on budget to FDOT.

Contract Value: $1,500,000.00





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	InfraMap Corp.	West Palm Beach, FL	Prime
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 3

21. TITLE AND LOCATION *(City and State)*

District Contract for Subsurface Utility Designating and Locating - District 6, FL

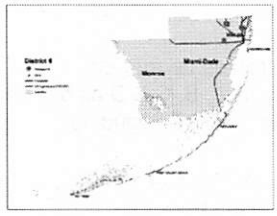
22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2018	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Florida Dept. of Transportation	Tony Soto	305-470-5232

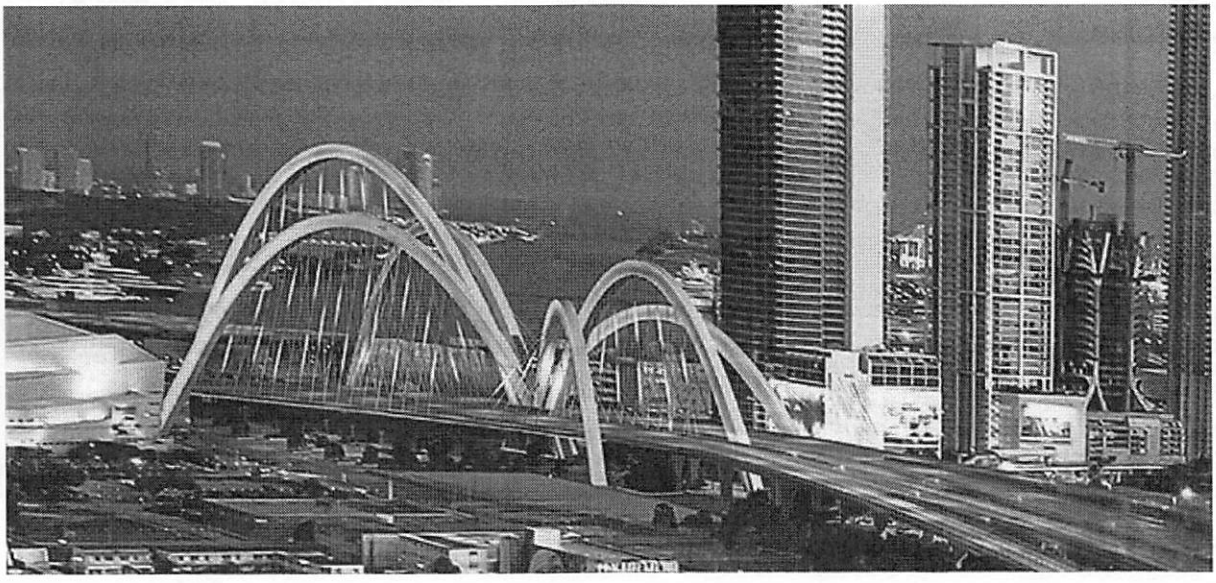
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



InfraMap Corp. provided subsurface utility engineering services at quality levels A-D for the Florida Department of Transportation throughout District 4 for this on call contract.

The InfraMap team placed focus on quality delivery of services on budget to FDOT.

Contract Value: $3,000,000.00



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	InfraMap Corp.	West Palm Beach, FL	Prime
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 4

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
On Call Subsurface Utility Engineering - SUE Contract Statewide, SC	2019	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
South Carolina Department of Transportation	Marvin H. Dawson III, PLS	803-606-1826

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

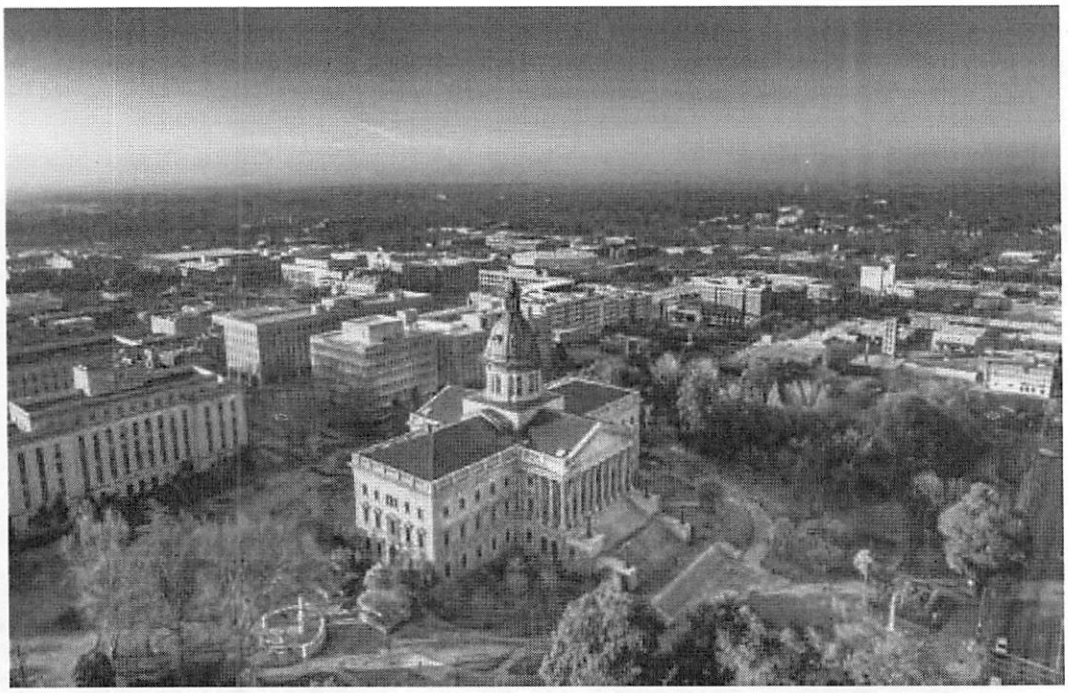
InfraMap performed quality levels A, B, C & D as directed by the SCDOT, including:

- Utility Designations
- Test Holes
- Land Surveying
- Utility Coordination

InfraMap Corp. provided subsurface utility engineering and mapping services for the SCDOT through 2019 statewide for this contract.

The InfraMap team successfully delivered to the SCDOT included a variety of multiphase, complex projects that encompassed all all aspects of SUE. Deliverables were made on time and to the standards and specifications required by the SCDOT.

Contract Value: $3,000,000.00



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**InfraMap Corp.**	**Glen Allen, VA**	**Prime**
b.			
c.			
d.			
e.			
f.			

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: RFQ # 12637-421

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (*or Branch Office*) NAME	3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER
InfraMap Corp.	2001	718-715-6124

2b. STREET	5. OWNERSHIP
1100 N Florida Mango Drive, Suite D	a. TYPE: Corporation

2c. CITY	2d. STATE	2e. ZIP CODE
West Palm Beach	FL	33409

b. SMALL BUSINESS STATUS: Federal Small Business

6a. POINT OF CONTACT NAME AND TITLE: John Pope Midyette, Vice President - Business Development, InfraMap Corp.

7. NAME OF FIRM *(If Block 2a is a Branch Office)*:

6b. TELEPHONE NUMBER	6c. EMAIL ADDRESS
804-550-2937	jmidyette@inframap.net

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Accurate Locating, Inc.	1987	718-715-6124

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	10	1
08	CADD Technicians	3	1
12	Civil Engineers	2	1
38	Land Surveyors	6	1
other	Utility Locators	51	10
		Total:	Total:
	Other Employees	72	14
	Total		

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
other	Subsurface Utility Engineering	6
other	Utility Mapping and Survey	6

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

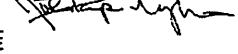
a. Federal Work	6
b. Non-Federal Work	6
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE: 

b. DATE: 3/10/2022

c. NAME AND TITLE: John Pope Midyette, Vice President - Business Development, InfraMap Corp.

FIRM'S ABILITY TO MEET TIME AND BUDGET REQUIREMENTS

Our careful attention to detail and defined processes have helped ensure that projects are delivered successfully, meeting the highest standard of care while on schedule and on budget. Whether in the beginning stages of the project, currently working through the design, or in the construction phase, experience and insight help our projects succeed every step of the way.

While every civil engineering design is unique, our teams have developed steps around several key milestones that can help save time, money and potential rework for our clients. Success looks different for every project, which is why our team's first priority is to listen. Whether it's cost, schedule, quality or community impact, we develop succinct criteria standards to review during and after project completion, so the focus never deviates from creating a successful project.

By looking at the design process from our client's perspective, we are able to see a comprehensive view of the project and apply our past experience to develop unique solutions. Our team maintains constant communication, both internally across disciplines and with the municipal client, so all parties are aware of the progress on deliverables, design, and permitting. This collaborative relationship with all parties, from the kick-off meeting to project certification, helps ensure an accurate and timely final product.

SUSTAINABLE BUSINESS PRACTICES

Craven Thompson is committed to lessening its environmental impact and advocating green initiatives throughout the company. Our goal is to benefit our community and employees while setting the bar in our profession. The following is a brief summary of our green policies and procedures which were initiated over the past decade:

- At Craven Thompson the recycling of paper goods is not limited to those containing confidential information. All paper, including newspapers, magazines and inter-office memos are thoroughly and completely shredded in order to expedite the recycling process.
- Craven Thompson has instituted effective recycling practices and significantly reduced our paper consumption. We continually seek to minimize the volume of paper used in printing, copying, data storage and communication. We have increased our focus on paperless technology and developed electronic templates for a wide variety of internal and external communications. We have also converted the vast majority of our reports, faxes, newsletters and bulletins from hard copy to electronic versions. Internal campaigns urge our personnel to view documents on-screen whenever possible; if paper copies are necessary, we use recycled paper for printing and copying. Duplex printing set as the default for "two-sided" use is an increasingly effective way to achieve our paper reduction goals.
- In addition to paper recycling, we work with our local property managers to minimize disposables and reuse equipment and supplies wherever possible. We systematically recycle large volumes of printer/photocopier cartridges, batteries and plastics.
- Craven Thompson conserves energy by using more efficient lighting systems. We steadily encourage energy-conscious practices across the company. Our offices promote energy efficiency through motion-sensitive light switches.

BUSINESS INFORMATION AND STRUCTURE

For over sixty (60) years Craven Thompson & Associates, Inc. has provided consulting services to governmental agencies throughout South Florida. We have provided some or all of the following services to numerous clients including: civil engineering, landscape architectural services, utilities engineering, land surveying, GIS mapping, and water, wastewater, and utility management.

Craven Thompson was founded in 1962 and has a large group of professional engineers, graduate engineers, surveyors, G.I.S. specialists, landscape architects and planners. Craven Thompson has been providing engineering, surveying and CEI services for the past sixty (60) years, landscape architectural services for the past thirty-seven (37) years, and G.I.S. services for the past sixteen (16) years. Craven Thompson has sixty-eight employees consisting of four Landscape Architects, one planner; twenty-seven civil engineers, twenty surveyors & GIS specialists (includes field crews), one construction managers, six construction inspectors; two technicians, and seven administrative personnel - four of which are clerical. Craven Thompson and our sub-consultants have extensive experience with projects involving roadways, complete streets, stormwater drainage, water, wastewater, landscape architecture, surveying, and G.I.S.

Firm Ownership

Thomas M. McDonald
President / 100% Owner
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309
Phone: (954) 739-6400 / Email: tmcdonald@craventhompson.com

Organizational Structure

Patrick J. Gibney, P.E., V.P., Engineering
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309
Phone: (954) 739-6400
Email: pgibney@craventhompson.com

Richard D. Pryce, P.S.M.
Vice President, Surveying & G.I.S.
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309
Phone: (954) 739-6400
Email: rpryce@craventhompson.com

Joseph D. Handley, P.L.A.
Vice President, Planning & Landscape Architecture
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309
Phone: (954) 739-6400
Email: jhandley@craventhompson.com

Location of Headquarters, Number and Location of Branch Offices

Corporate Headquarters
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

One Branch Office:
4723 W. Atlantic Avenue, Suite 12A
Delray Beach, Florida 33445

PROFESSIONAL LICENSES / CERTIFICATIONS

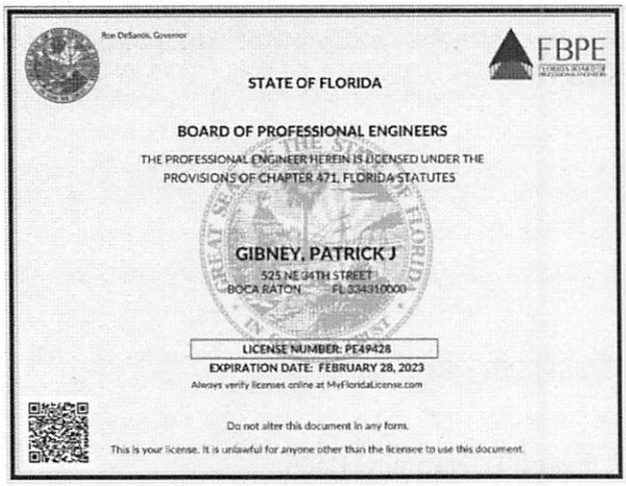
CRAVEN THOMPSON & ASSOCIATES, INC.

Licensee

Name:	**CRAVEN, THOMPSON & ASSOCIATES, INC.**	License Number:	**271**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**05/10/1977**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
49428	Current, Active	GIBNEY, PATRICK J	Registry	03/14/2014	Professional Engineer	02/28/2023


Ron DeSantis, Governor

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STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GIBNEY, PATRICK J
525 NE 34TH STREET
BOCA RATON FL 334310000

LICENSE NUMBER: PE49428
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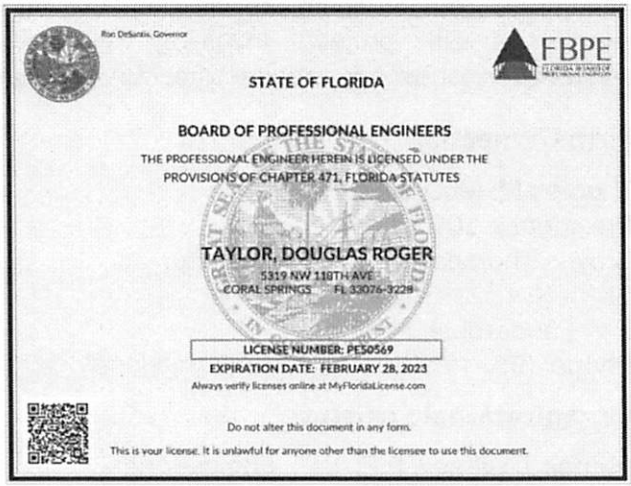
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TAYLOR, DOUGLAS ROGER
5319 NW 118TH AVE
CORAL SPRINGS FL 33076-3228

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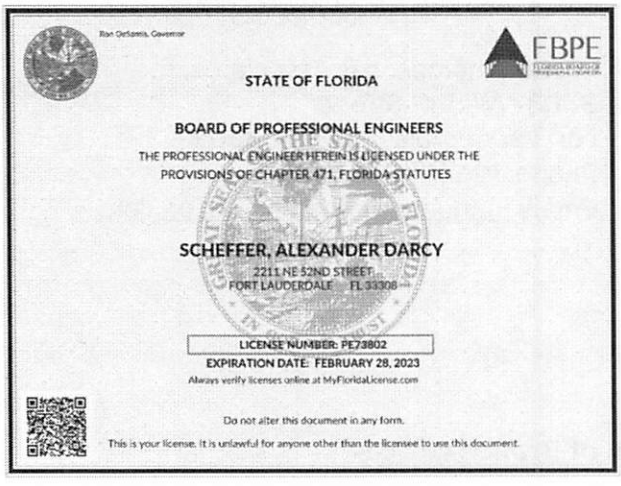
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SCHEFFER, ALEXANDER DARCY
2211 NE 52ND STREET
FORT LAUDERDALE FL 33308

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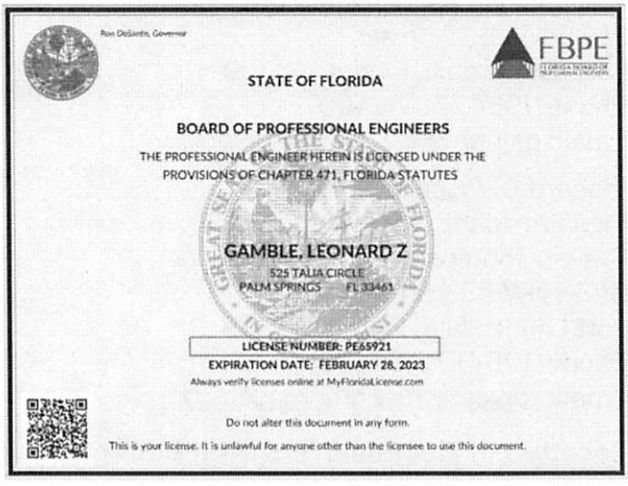
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BOARD OF PROFESSIONAL ENGINEERS

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GAMBLE, LEONARD Z
525 TALIA CIRCLE
PALM SPRINGS FL 33461

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JOSEPH, PHILIP P.
4971 SW 88 TERR
COOPER CITY FL 33328

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MENTING, KEVIN ANDREW
455 NE 35TH STREET
BOCA RATON FL 33431

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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.: LB271
Expiration Date: February 28, 2023

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

CRAVEN-THOMPSON & ASSOC, INC
2563 NW 53RD ST
FT LAUDERDALE, FL 33309-6311

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.

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.: LS4038
Expiration Date: February 28, 2023

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

RICHARD D PRYCE
13901 SW 26TH ST
DAVIE, FL 33325-5006

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.

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.: LS5799
Expiration Date: February 28, 2023

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

RAYMOND YOUNG
2661 NW 63RD AVE
MARGATE, FL 33063-1721

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.

State of Florida
Department of State

I certify from the records of this office that CRAVEN, THOMPSON & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 1, 1962.

The document number of this corporation is 254407.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 10, 2022, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Tenth day of January, 2022

Secretary of State

Tracking Number: 8681540761CC

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

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

HBC ENGINEERING COMPANY- TRANSPORTATION ENGINEERING

Licensee

Name:	**HBC ENGINEERING COMPANY**	License Number:	**27160**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**09/15/2006**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
55322	Current, Active	COKER, ADEBAYO T	Registry	09/15/2006	Professional Engineer	02/28/2023

Ron DeSantis, Governor

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STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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COKER, ADEBAYO T.

18842 SW 74TH COURT
CUTLER BAY FL 33157

LICENSE NUMBER: PE55322

EXPIRATION DATE: FEBRUARY 28, 2023

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State of Florida
Department of State

I certify from the records of this office that HBC ENGINEERING COMPANY is a corporation organized under the laws of the State of Florida, filed on June 15, 2006.

The document number of this corporation is P06000082280.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 4, 2022, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fourth day of January, 2022

Secretary of State

Tracking Number: 183268568CC

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

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

JENKINS AND CHARLAND, INC., DBA TRC WORLDWIDE ENGINEERING - STRUCTURAL ENGINEERING

Licensee

Name:	**TRC WORLDWIDE ENGINEERING,INC.**	License Number:	**27322**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**01/25/2007**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
43121	Current, Active	RAMANNA, SURENDRA	Registry		Professional Engineer	02/28/2023
67337	Current, Active	WILLIAMS, DONATA MERIE	Registry		Professional Engineer	02/28/2023

Ron DeSantis, Governor — Melanie S. Griffin, Secretary — FBPE

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

SPECIAL INSPECTOR NUMBER: 7018699

WILLIAMS, DONATA MERIE

1230 N. UNIVERSITY DRIVE
PLANTATION FL 33322

LICENSE NUMBER: PE67337
EXPIRATION DATE: FEBRUARY 28, 2023

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State of Florida
Department of State

I certify from the records of this office that JENKINS AND CHARLAND, INC. is a corporation organized under the laws of the State of Florida, filed on October 1, 1969.

The document number of this corporation is 353080.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 19, 2022, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eleventh day of February, 2022

Secretary of State

Tracking Number: 2747357452CU

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

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

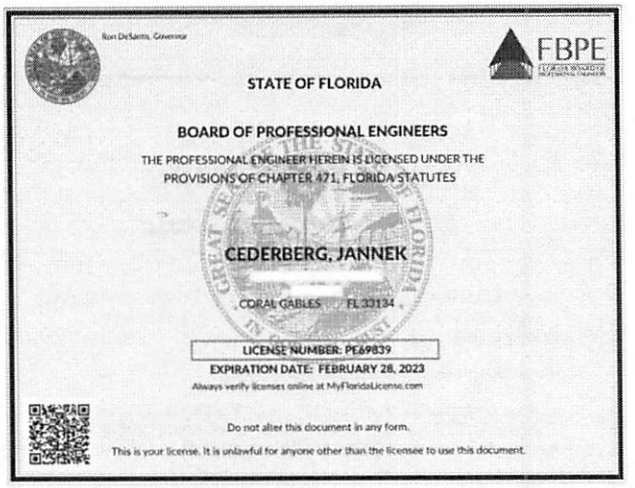
CUMMINS CEDERBERG, INC. - ENVIRONMENTAL ENGINEERING / COASTAL ENGINEERING

Licensee

Name:	**CUMMINS CEDERBERG, INC.**	License Number:	**29062**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**04/02/2010**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
69839	Current, Active	CEDERBERG, JANNEK	Registry	03/22/2010	Professional Engineer	02/28/2023



Ron DeSantis, Governor

FBPE

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CEDERBERG, JANNEK

CORAL GABLES FL 33134

LICENSE NUMBER: PE69839

EXPIRATION DATE: FEBRUARY 28, 2023

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State of Florida
Department of State

I certify from the records of this office that CUMMINS CEDERBERG, INC. is a corporation organized under the laws of the State of Florida, filed on March 16, 2010, effective March 17, 2010.

The document number of this corporation is P10000023540.

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

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

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

Secretary of State

Tracking Number: 244181804SCC

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

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

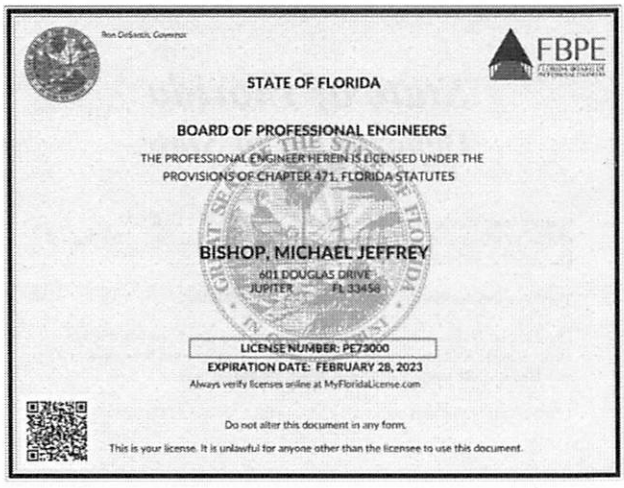
RGD CONSULTING ENGINEERS - MECHANICAL ENGINEERING

Licensee

Name:	**RGD & ASSOCIATES, INC.**	License Number:	**5454**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**09/22/1989**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
31932	Current, Active	DAVENPORT, ROBERT GLEN	Registry	10/04/2004	Professional Engineer	02/28/2023



Ron DeSantis, Governor

FBPE

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BISHOP, MICHAEL JEFFREY

601 DOUGLAS DRIVE
JUPITER FL 33458

LICENSE NUMBER: PE73000

EXPIRATION DATE: FEBRUARY 28, 2023

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State of Florida
Department of State

I certify from the records of this office that RGD CONSULTING ENGINEERS ORLANDO, LLC is a limited liability company organized under the laws of the State of Florida, filed on March 24, 2016, effective March 24, 2016.

The document number of this limited liability company is L16000060181.

I further certify that said limited liability company has paid all fees due this office through December 31, 2022, that its most recent annual report was filed on January 19, 2022, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Nineteenth day of January, 2022

Secretary of State

Tracking Number: 5938834543CC

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

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

HILLERS ELECTRICAL ENGINEERING, INC. - ELECTRICAL ENGINEERING

Licensee

Name:	**HILLERS ELECTRICAL ENGINEERING, INC.**	License Number:	**6877**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**03/31/1994**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
41022	Current, Active	HILLERS, PAUL FREDERIK	Registry	01/20/2005	Professional Engineer	02/28/2023



Ron DeSantis, Governor

FBPE

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

LUTHER, MARK E

8650 WATERCREST CIRCLE WEST
PARKLAND FL 33076

LICENSE NUMBER: PE48801
EXPIRATION DATE: FEBRUARY 28, 2023

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State of Florida
Department of State

I certify from the records of this office that HILLERS ELECTRICAL ENGINEERING, INC. is a corporation organized under the laws of the State of Florida, filed on February 16, 1994.

The document number of this corporation is P94000013888.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on February 17, 2022, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Seventeenth day of February, 2022

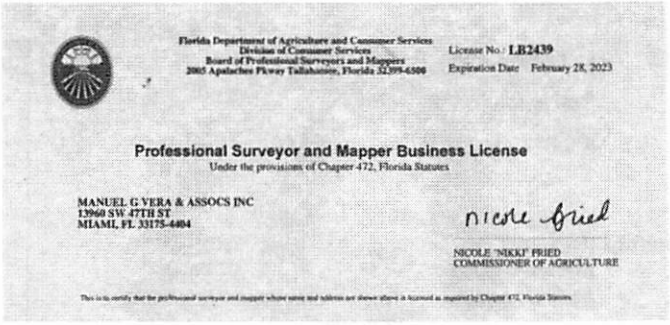
Secretary of State

Tracking Number: 1775132362CC

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

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

MANUEL G. VERA & ASSOCIATES - PHOTOGRAMMETRY AND REMOTE SENSING



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.: LB2439
Expiration Date: February 28, 2023

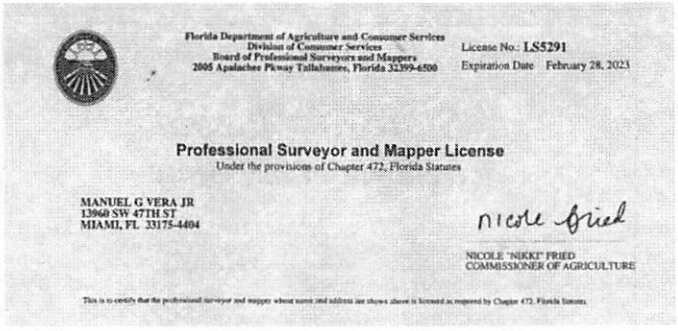
Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

MANUEL G VERA & ASSOCS INC
13960 SW 47TH ST
MIAMI, FL 33175-4404

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.



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.: LS5291
Expiration Date: February 28, 2023

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

MANUEL G VERA JR
13960 SW 47TH ST
MIAMI, FL 33175-4404

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.



State of Florida
Department of State

I certify from the records of this office that MANUEL G. VERA & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on April 27, 1977.

The document number of this corporation is 534958.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 24, 2022, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-fourth day of January, 2022

Secretary of State

Tracking Number: 570888469BCC

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

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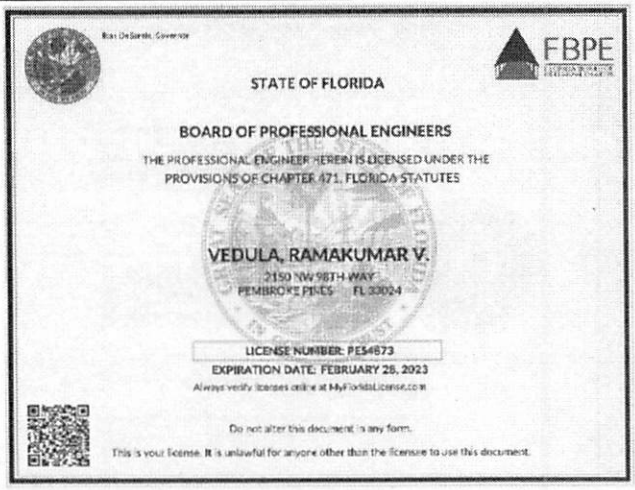
TIERRA SOUTH FLORIDA, INC. - GEOTECHNICAL ENGINEERING

Licensee

Name:	**TIERRA SOUTH FLORIDA, INC.**	License Number:	**28073**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**04/13/2008**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
53567	Current, Active	KRISHNASAMY, RAJ	Registry	04/13/2008	Professional Engineer	02/28/2023



Ron DeSantis, Governor

FBPE

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

VEDULA, RAMAKUMAR V.
2150 NW 98TH WAY
PEMBROKE PINES FL 33024

LICENSE NUMBER: PE54873
EXPIRATION DATE: FEBRUARY 28, 2023
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State of Florida
Department of State

I certify from the records of this office that TIERRA SOUTH FLORIDA, INC. is a corporation organized under the laws of the State of Florida, filed on October 7, 2003, effective October 17, 2003.

The document number of this corporation is P03000110144.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on January 4, 2021, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fourth day of January, 2021

Secretary of State

Tracking Number: 001921793JCC

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

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INFRAMAP CORP. - S.U.E. LOCATES

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.: **LB6666**
Expiration Date February 28, 2023

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

INFRAMAP CORP
1100 N FLORIDA MANGO RD STE D
WEST PALM BEACH, FL 33409-5263

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.

State of Florida
Department of State

I certify from the records of this office that INFRAMAP CORP. is a Delaware corporation authorized to transact business in the State of Florida, qualified on October 6, 1994.

The document number of this corporation is F94000005189.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on January 13, 2021, and that its status is active.

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

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

Secretary of State

Tracking Number: 7188241096CU

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PROJECT MANAGER

Patrick J. Gibney, P.E. is the proposed project/contract manager for the "*Civil Engineering, Continuing Services Contract*".

Mr. Gibney graduated from Rutgers, The State University, with a Bachelor of Science Degree in Civil Engineering in 1987. He received his professional engineering license in the State of Florida in 1995. With a total of thirty-five years of experience in the civil engineering field, Mr. Gibney has spent twenty-nine of those years with Craven Thompson & Associates.

As project manager, Mr. Gibney serves as the project lead, client contact, and technical specialist for civil engineering infrastructure projects. He provides technical experience and expertise for civil related projects and leads planning, study, design and permitting efforts related to roadway design, stormwater/drainage improvements, water distribution, reuse water distribution and wastewater collection and transmission infrastructure. He provides leadership, direction, and technical guidance to staff and municipal clients on a variety of infrastructure projects.

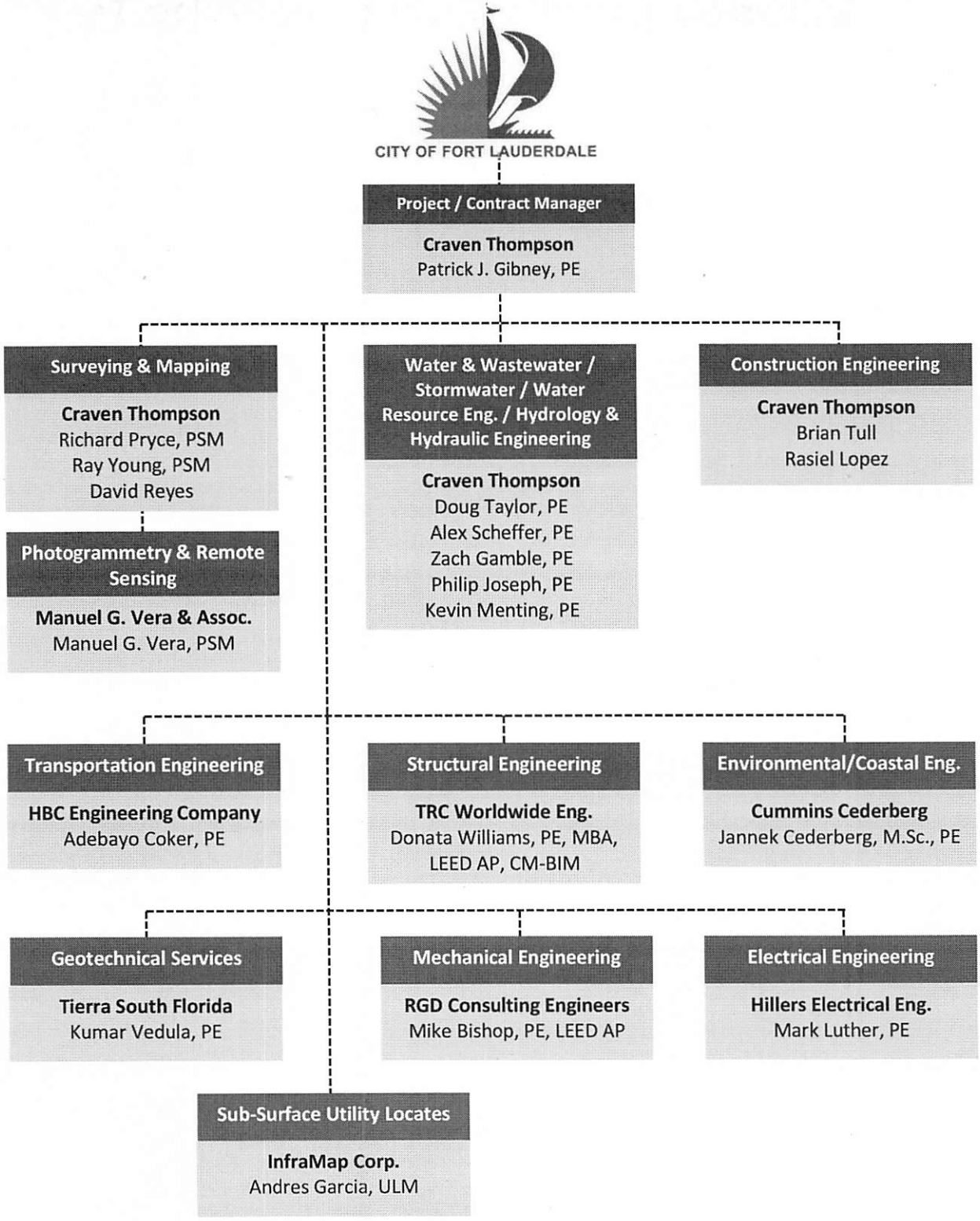


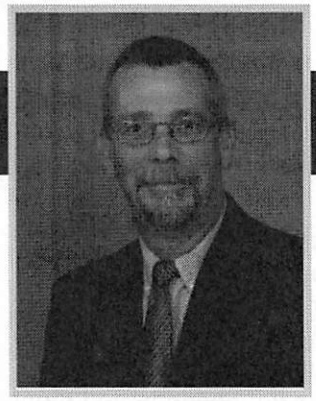
He has designed and/or managed projects involving water, wastewater, and pumping facility rehabilitation in Broward County since 1993. His initial project was the South County Neighborhood Improvement Project for Broward County Water & Wastewater Service which ran from 1993 to 2005. This 1,440-acre project included the design, permitting, bidding and construction consisting of 53 miles of roadway, 1,400 acres of stormwater management, 140,618 linear feet of watermain, 236,226 linear feet of gravity sanitary sewer, and eleven (11) wastewater pumping stations. Following that project, he was also heavily involved in the design and management of the Central County Neighborhood Improvement Project, the North Central County Neighborhood Improvement Project, and the North County Improvement Project. These projects combined includes hundreds of miles of roadway reconstruction, hundreds of thousands of feet of storm sewer, watermain, sewer collection main, force main, along with numerous wastewater pump station rehabilitations and new pump station design.

Mr. Gibney has managed a large number of roadway, stormwater/drainage, water and wastewater system projects for municipalities within Broward County. This includes: Fort Lauderdale, Plantation, Oakland Park, Davie, Hollywood, Miramar, and Hallandale Beach. Craven Thompson currently has continuing services CCNA contracts for water and wastewater for each of these Broward County municipalities. Recently, Mr. Gibney has managed projects such as: Eastside Infrastructure improvements for the Town of Davie; Hollywood Watermain Replacement and Septic Conversion Program - City Projects 15-5129 and 12-5517, Driftwood Septic to Sewer Conversion Phases 1 & 2; Master Lift Station W-14 and Lift Stations A-6, & E-2 Rehabilitation for Hollywood; and Master Pump Station 8 Rehabilitation for Hallandale Beach. He was the project manager for the Fort Lauderdale *Rivers Oaks Neighborhood Drainage Project, the Durrs Neighborhood Drainage Project*, and *Pump Station A-13 and Sewer Re-Direction South of Federal Highway Project*. Mr. Gibney has also been directly involved with the *Fort Lauderdale South Middle River Force Main Crossing Design-Build Project*, as well as the *54" Diameter Redundant Force Main Bypass Line (Zones 4B & 4C) Design-Build Project*.

Section 4.2.4: Qualifications of the Project Team

ORGANIZATIONAL CHART





PATRICK GIBNEY, P.E.,
PROJECT MANAGER

Mr. Gibney has over thirty-five years of experience providing project management, design, and construction management services for public civil engineering projects. These projects include infrastructure improvements for a multitude of infrastructure rehabilitation projects. This includes design and CEI services for roadway, stormwater management/drainage, water distribution systems, sanitary sewer collection & transmission systems, pavement design, preparation of contract documents and specifications.

Relevant Experience:

Tindall Hammock Irrigation & Soil Conservation District - District Drainage Engineer | Davie, Florida - Craven Thompson reviews and recommends approval of all drainage projects within the Tindall Hammock Irrigation & Soil conservation District; reviews variance requests; review of Plats, attends Board meetings; and prepares construction plans for capital improvement projects. Services to the District includes plan review; engineering studies and reports; surveying; design & permitting for CIP projects; and CEI services.

River Oaks Neighborhood Drainage Improvements | Fort Lauderdale, Florida | Project Manager - Improvements include: 12,677 LF of swale re-grading, 5,346 LF of storm pipe removal, removal of 251 storm structures, the installation of 90 LF of 15" storm sewer, 4,374 LF of 18" storm sewer, 4,675 LF of 24" storm sewer, 1,771 LF of 36" storm sewer, 145 LF of 48" storm sewer, 3,129 LF of 66" storm sewer, 1,056 LF of 72" storm sewer, 2,640 LF of 24" exfiltration trench, 236 drainage structures, 2 – STORMCEPTER water quality structures, one TIDEFLEX backflow prevention valve, and 4,219 LF of sidewalk. The project also includes two stormwater pump stations.

Durrs Neighborhood Drainage Improvements | Fort Lauderdale, Florida | Project Manager - The Durrs Neighborhood is comprised of approximately 237-acres. The neighborhood occupies a total area of approximately 518-acres. Craven Thompson is surveying, ICPR modeling, designing, preparing construction documents, permitting, and providing construction related services for the construction for the installation of 50,010 linear feet of storm sewer, 7,685 linear feet of exfiltration trench, 305 storm structures, 4 water quality structures, 2 stormwater pump stations, 15,145 linear feet of swale re-grading (including bio-swales), 2,500 linear feet of pervious pavement, and the construction of a wetland/retention/habitat/educational area. Craven Thompson is providing surveying, civil engineering, permitting and CEI services.

NW 10th Avenue Improvement Project | Oakland Park, Florida | Project Manager
The scope of work includes design of 2,900 linear feet of roadway, landscaping, irrigation, photo-metrics, coordination, drainage, LAP services, etc. for the NW 10th Avenue Roadway Project from Park Lane West (NW 33rd Street) to Prospect Road, including preparation of contract documents and permitting. Generally, improvements include the addition of bike lanes, curbing, six (6) feet wide sidewalk on the west side of the roadway, landscaping and irrigation system, swale and street lighting improvements.

CRAVEN·THOMPSON & ASSOCIATES INC.

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Education
Rutgers, The State University, Bachelor of Science in Civil Engineering (1987)

Years of Experience
Total: 35; With Firm: 29

Licenses/Certifications
State of Florida
Professional Civil Engineer
Florida No. 49428 (1995)

FDOT Pre-Qualified
Roadway Construction
Engineering Inspection

PATRICK J. GIBNEY, P.E. (continued)

Wastewater Reclamation Facility Reuse Water System Expansion | Miramar, Florida | Project Manager - As a sub-consultant to Hazen and Sawyer for the wastewater reclamation facility reuse water system expansion Phases 1A, & 1B, Craven Thompson designed the Reuse Water Main. Phase 1A included primarily 5,948 linear feet of 16" diameter reuse main. Phase 1B primarily consisted of 2,835 linear feet of horizontally directionally drilled 30" diameter HDPE.

Eastside Master Infrastructure Project – Phases 2 & 3 | Davie Florida | Project Manager -
Mr. Gibney managed the design and permitting of the project which consisted of approximately 340 acres of infrastructure rehabilitation. The drainage/roadway work consisted of: 22,763 LF of roadway reconstruction; 41,000 SY of swale regrading; 18,940 LF of storm sewer; 12,450 SY of sidewalk; 7,400 SY of driveway restoration; 146 storm structures; 3 outfalls; 1 control structure. The water distribution included: 14,800 LF of 6" diameter main; 5,075 LF of 8" diameter main; and 5,140 LF of 12" diameter main; abandon and grout 11,450 LF of existing watermain in place; 50 fire hydrants; 154 gate valves; 40,400 LF of water service piping on private property. The sanitary improvements included: 11,455 LF of 8" diameter pipe; 40 sanitary manholes; and 2,945 LF of 16" diameter forcemain.

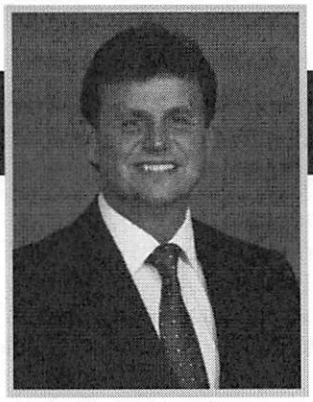
Pump Station A-13 & Sewer Redirection East of Federal Highway | Fort Lauderdale, Florida | Project Manager
This project is for the construction of Lift Station A-13, located at the southeast corner of Southeast 2nd Court and Southeast 8th Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.

El Dorado Neighborhood Drainage Improvements | Plantation, Florida | Project Manager
Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems. The neighborhood is 123 acres in size. Improvements include: 3,072 LF of swale re-grading, 1,963 LF of storm pipe removal, the installation of 930 LF of 15" storm sewer, 160 LF of 18" storm sewer, 768 LF of 24" storm sewer, and 105 LF of 30" storm sewer.

Utility Analysis Zone Improvement Program (UAZ) 122 | Broward County, Florida | Project Director
UAZ 122 is a one hundred and sixty (160) acre area in Lauderdale Lakes, Florida. The project includes the construction of a sanitary sewer collection system consisting of 19,345 LF - 8" gravity main; 1,350 LF - 10" gravity main; 4,800 LF - 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 LF - 6" main; 10,875 LF - 8" main; 5,205 LF - 10" main; 3,690 LF - 12" main; 630 LF - 16" main; abandonment and grouting of 25,435 LF of existing watermain; and the construction of 66 water services. In addition, 30,600 LF of roadway reconstruction along with right-of-way restoration. Craven Thompson is modeling the systems using SewerCAD and WaterCAD, construction documents, permitting, bidding and CEI services

Las Olas Watermain and Forcemain Design Criteria Package | Fort Lauderdale, Florida| The purpose of this $3.1 Million project, completed in December 2016, was to deepen a critical 20-inch water main crossing of the ICW along with adding a new 16-inch sewage force main to enhance system reliability.

Hollywood Boulevard Conceptual Master Rehabilitation Plan |Hollywood, Florida | Project Manager
The Hollywood Boulevard Rehabilitation Project was the conceptual design for the reconstruction of approximately 3,800' feet of Hollywood Blvd. from S 28th Avenue on the west, to the east side of City Hall Circle. Proposed improvements included reconstruction of the asphalt roadway, buffered bicycle lanes throughout the project corridor, improving sidewalk connectivity and ADA compliance, replacing the existing paver crosswalks with colored asphalt crosswalks, reconfiguring intersection geometry at two (2) intersections to improve safety, and improving the existing signage.



DOUGLAS R. TAYLOR, P.E.
CIVIL ENGINEER

CRAVEN-THOMPSON & ASSOCIATES INC.

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Education
University of Illinois, Bachelor of Science in Civil Engineering (1984)

Years of Experience
Total: 38; With Firm: 11

Licenses/Certifications
State of Florida
Professional Civil Engineer
Florida No. 50569 (1996)

TS EM5 Intermediate
ICS (G300) Certification

Mr. Taylor has been responsible for a multitude of municipal engineering / stormwater projects throughout Florida. This includes project management, master design responsibility and oversight for a variety of projects.

Relevant Experience:

Historic Miramar Areawide Drainage Improvements Project - Phase IV | Miramar, Florida | Project Manager. Approximately 298 acres in area, and is located in the general area bounded by SW 64th Avenue to the east, County Line Road to the south, Florida Turnpike to the west and Miramar Parkway to the north. Craven Thompson prepared an *ICPR computer model* to analyze the stormwater for the area. Many of these grass swales had been filled in by residents to create landscape areas thus reducing storage and the effectiveness of percolation. Inlets and outfalls were limited in this area of the project. The improvements constructed to alleviate the flooding include: 85,942 linear feet of re-graded swales, 205 new drainage structures, 17,598 linear feet of valley gutter, 3,000 linear feet of 15" diameter RCP storm sewer, 19,141 linear feet of 24" diameter exfiltration trench, pavement milling and overlay, 8 outfall replacement/rehabilitations, driveway removal and replacement, pavement marking & signage, and various other right-of-way restoration improvements.

Plantation Golf Estates Drainage Improvements | Plantation, Florida | Senior Engineer - Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Plantation Golf Estates Neighborhood. The neighborhood is 355 acres in size and is bounded by the El Dorado Neighborhood to the southwest, West Broward Boulevard to the north, the Plantation Park Neighborhood to the east, and W. Broward Boulevard to the south. Improvements include: 1,000 LF of swale re-grading, 913 LF of storm pipe removal, the installation of 532 LF of 15" diameter storm sewer, 352 LF of 18" diameter storm sewer, 29 LF of 72" diameter storm sewer, the dredging of 4,875 LF of existing canal, the installation of 28 – 30" diameter ADS drainage structures.

NE 14th Avenue Streetscape Project | Hallandale Beach Florida | Senior Engineer The project area is along NE 14th Avenue between Hallandale Beach Blvd. and Atlantic Shores Blvd. The project corridor is approximately 3,400 linear feet. The project included: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14th Avenue; landscape screening along two (2) storm water pump stations.

Douglas R. Taylor, P.E. (continued)

SW 36th Street Improvements | Davie, Florida | Senior Engineer
The 3,300-foot length of SW 36th Street was designed as a two (2) lane divided boulevard from College Avenue to SW 76th Avenue within a 75-foot public right-of-way width. In connection with this improvement, portions of SW 36th Street, owned by Nova Southeastern University, was dedicated to the Town of Davie.

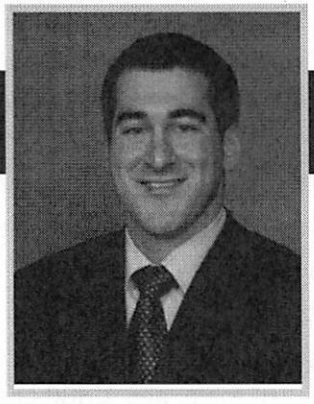
Miramar Historical Area Complete Streets Project. Phase II | Miramar, Florida | Senior Engineer
Craven Thompson was selected to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project is bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and SR 7 to the east. The project includes six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping, and hardscape.

N-29A Canal Connector Project | Davie, Florida | Senior Engineer - The project includes the construction of 1,407 linear feet of 72" diameter culvert equalizer, connecting the Central Broward Water Control District's (CBWCD) N-29A Canal to the N-22 Canal. The project also includes demolition, culvert & headwall construction, and the restoration of stabilized pathway, sidewalk and asphalt roadway, along with other minor improvements associated with the proposed project.

Comprehensive Stormwater Master Plan | Aventura, Florida| Senior Engineer
Craven Thompson's services under this project included: Preparing GPS Network / AutoCAD drawing of City's Stormwater System: locating and entering data on stormwater structures in the City; creation of a GPS Control Network for the City that can be utilized by any surveyor or contractor in the future for both horizontal and vertical control. Services also involved the creation of an ICPR Software model of the existing stormwater system including the integration of previous models performed for the area. A stormwater capital improvement plan is being created based on the results of the model.

Kimberly Boulevard Complete Streets Project | North Lauderdale, Florida | Project Manager
Project Manager for the design and permitting of 1.2 miles of roadway, bicycle lane, median enhancements, a roundabout, landscaping, hardscape and lane reduction for an existing four-lane roadway subject to speeding and traffic accidents between autos, pedestrians, and bicyclists. Craven Thompson is providing survey, civil engineering, landscape architecture, construction administration, and inspection.

Plantation Historical Area Drainage Improvements | Plantation, Florida | Senior Engineer
Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Historical Area Neighborhood. The neighborhood is 325 acres in size and is bounded by the Palm Tree Road to the north, NW 65th Avenue to the west, the Florida Turnpike to the east, and W. Broward Boulevard to the south. Improvements include: 1,000 LF of swale re-grading, 1,276 LF of storm pipe removal, the installation of 245 LF of 15" diameter storm sewer, 415 LF of 18" diameter storm sewer, 616 LF of 24" diameter storm sewer, 2 outfall replacements, the installation of 4 – 30" diameter ADS drainage structures, and one 5' diameter drainage structure.



ALEX SCHEFFER, P.E., LEED GREEN ASSOCIATE
CIVIL ENGINEER

Mr. Scheffer has over sixteen years of experience providing project management, design and construction management services for various public and private civil engineering projects and initiatives. These services include Master Planning Improvements, project feasibility studies, water resources engineering, program management, permitting, utilities engineering, transportation engineering, plans production, specifications preparation, bidding, contract administration, inspections, oral and written presentations and client service management.

Relevant Experience:

Water Main Replacement Program - City Project No. 12-5117 | Hollywood, Florida | Project Manager. Mr. Scheffer managed system modeling, design, permitting, bidding and limited construction engineering and inspection to construct approximately 60,490 LF of new 4" diameter water main, 5,400 LF of new 6" diameter water main, 18,220 LF of new 8" diameter water main, 20,655 LF of new 12" diameter water main, and the relocation to the front of the lots of services located in the rear yards.

Water Main Replacement Program - City Project No. 15-5129 | Hollywood, Florida Project Manager - Mr. Scheffer managed the replacement of approximately 87,400 LF of existing water service mains, 2" and 4", with new 4" - 6" water service main and water services and replacement of existing 6" - 12" distribution water mains with new 6" - 12" water distribution water mains including replacement and addition of fire hydrants. The new water main replaces the existing 2" water main in the rear yards and relocates the water mains to streets/avenues including relocation of services from the rear yard to the front yards.

Installation of New Redundant Bypass Line (Zone 4B & 4C) – 54" FM | Fort Lauderdale, Florida | Project Manager - The project involved the installation of 54" nominal OD HDPE Force Main by Horizontal Directional Drill (HDD), with sections of open cut trench installation of 16" HDPE Force Main. The total length of Horizontal Directional Drill (HDD) 54" OD HDPE Force Main is 3,223 Linear Feet in length which was proposed to minimize the disturbance to the community and limit the amount of pavement restoration, with an additional 653 Linear Feet of 16" HDPE Force Main installed by open cut trench.

South Middle River Force Main Crossing – 16" Redundant Pipe | Fort Lauderdale, Florida | Project Manager - The project involved the installation of 16" nominal OD HDPE Force Main under the South Middle River Waterway, with sections of open cut trench installation of 16" PVC Force Main. The total length of subaqueous crossing of 16" HDPE Force Main is 1092 Linear Feet (LF) in length, with an additional 832 Linear Feet (LF) of 16" PVC Force Main installed by open cut trench.

CRAVEN·THOMPSON & ASSOCIATES INC.

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Education
University of Florida,
Bachelor of Science
in Civil Engineering
(2006)

Years of Experience
Total: 16; With Firm: 10

Licenses/Certifications
State of Florida
Professional Civil Engineer
Florida No. 73802 (2012)
Maryland No. 50935 (2017)
LEED Green Associate -
ID No. 10850250
FDEP Stormwater, Erosion &
Sedimentation Control
Inspector No. 26929

ALEX SCHEFFER, P.E., LEED Green Associate (continued)

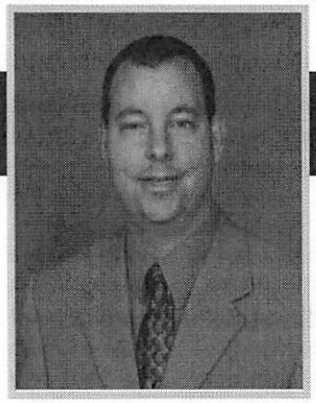
Utility Analysis Zone (UAZ) 122 | Lauderdale Lakes, Florida| Senior Engineer - The project included the construction of a sanitary sewer collection system consisting of 19,345 LF - 8" gravity main; 1,350 LF - 10" gravity main; 4,800 LF - 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 LF - 6" main; 10,875 LF - 8" main; 5,205 LF - 10" main; 3,690 LF - 12" main; 630 LF - 16" main.

Utility Analysis Zone (UAZ) 123 | Lauderdale Lakes, Florida | Senior Engineer for the project which included: 28,750 LF – 8" gravity main, 1,735 LF – 10" gravity main, 45 LF of 18" main, 180 LF – 6" force main, 1,920 LF – 8" force main, 585 LF of 12" force main, 1,680 LF 16" force main, 1,230 LF - 18" force main, 800 LF - 20" force main, and 260 service laterals. The water distribution system improvements included 17,330 LF – 6" main, 9,555 LF – 8" main, 1,830 LF – 10" main, 1,740 LF – 12" main, 4,930 LF – 16" main, and 1,380 LF – 20" main.

River Oaks Neighborhood Drainage Improvements | Fort Lauderdale, Florida | Lead Engineer
Improvements include: 12,677 LF of swale re-grading, 5,346 LF of storm pipe removal, removal of 251 storm structures, the installation of 90 LF of 15" storm sewer, 4,374 LF of 18" storm sewer, 4,675 LF of 24" storm sewer, 1,771 LF of 36" storm sewer, 145 LF of 48" storm sewer, 3,129 LF of 66" storm sewer, 1,056 LF of 72" storm sewer, 2,640 LF of 24" exfiltration trench, 236 drainage structures, 2 – STORMCEPTER water quality structures, one TIDEFLEX backflow prevention valve, and 4,219 LF of sidewalk. The project also includes two stormwater pump stations.

Durrs Neighborhood Drainage Improvements | Fort Lauderdale, Florida | Lead Engineer
The Durrs Neighborhood is comprised of approximately 237-acres. The neighborhood occupies a total area of approximately 518-acres. Craven Thompson is surveying, ICPR modeling, designing, preparing construction documents, permitting, and providing construction related services for the construction for the installation of 50,010 linear feet of storm sewer, 7,685 linear feet of exfiltration trench, 305 storm structures, 4 water quality structures, 2 stormwater pump stations, 15,145 linear feet of swale re-grading (including bio-swales), 2,500 linear feet of pervious pavement, and the construction of a wetland/retention/habitat/educational area. Craven Thompson provided surveying, civil engineering, permitting and CEI services.

City of Fort Lauderdale – Public Works Dept. | City of Fort Lauderdale, Florida | Senior Project Manager
In this role, Mr. Scheffer served as Manager of the Public Works Department - Engineering Design Team, which included 11 project managers, 3 CADD technicians and 2 administrative staff. His duties while in this capacity included management, permitting and construction of various roadway, transportation, bridge, stormwater, water & sewer, structural, environmental, dredge and fill, utility, and survey operations for the Public Works Department. He also represented the Public Works Department as the liaison for all engineering design projects, which included the Florida Department of Transportation (FDOT), Broward County (MPO, BCHCED, EPGMD, WWS), FDEP and other various franchise utilities. He provided supervision over Engineering team for the planning, design and construction project management of various CIP projects, including the review and approval of plans, calculations, specifications, cost estimates, & project schedules from project planning through construction completion. He represented the Public Works Department while presenting at various stakeholder, DRC, City Commission, Homeowner Association, Professional Group and neighborhood outreach events. He planned, prepared, advertised and managed. He planned, prepared, updated and recommended Engineering Water & Sewer, Stormwater details and specifications for sustainable and low impact designs to be incorporated in future City projects.



LEONARD "ZACH" GAMBLE, P.E.
CIVIL ENGINEER

Mr. Gamble has twenty years of experience in Civil Engineering design and permitting in South Florida. The areas in which Mr. Gamble has municipal engineering experience including: stormwater studies, computer modeling, drainage/water/sanitary design & permitting, and roadway design. The range of his experience includes drainage design and analysis, design of water distribution systems, design of sewer collection systems, CADD drafting, cost estimates, ICPR, and construction engineering services.

Relevant Experience:

Swain Boulevard Complete Streets Project | Greenacres, Florida | Project Manager - Mr. Gamble is managing the design and permitting of the Swain Boulevard Complete Streets Project which is a 4,500 linear foot project running from Lake Worth Road to 10th Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1st Street, and 4th Street.

Dillman Trail Improvements | Greenacres, Florida | Project Manager
Dillman Trail is a TPA funded FDOT LAP Project. The City of Greenacres is the local agency for a 3,964 LF meandering 12' wide multi-use pathway and associated drainage swale, landscape, and irrigation system running north-south connecting pathways between S.R. 882 Forest Hill Boulevard and Dillman Road. The project required careful coordination with Lake Worth Drainage District as the project runs along and adjacent to the LWDD OPC canal. For the **LAP process**, Mr. Gamble worked with Ramon Alvarez & Mya Williams with FDOT on the project.

Chickasaw Road Improvements and Piping of LWDD L-11 Canal | Greenacres, Florida | Project Manager - Chickasaw Road project includes the complete reconstruction of 1,607 LF of roadway, replacement of the roadway drainage system, and piping of the LWDD L-11 canal from Jog Road to just past the end of Chickasaw Road approximately 1,528 LF. We worked with the City of Greenacres and Lake Worth Drainage District initially to establish the initial basic design requirements and concepts to meet both entities requirements. One of the difficulties of this project was to account for all the existing drainage connections from adjacent properties that drained to the canal in the existing condition and also to make sure the new drainage system for the roadway could work for both entities. We worked with Tommy Strowd and Nicole Smith from LWDD regarding the LWDD requirements.

2nd Street Traffic Circle and Sidewalk Improvements | Greenacres, Florida | Project Manager – Mr. Gamble managed the project, designed and permitted a traffic circle at 2nd Street and Swain Boulevard in the City of Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb & gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, and ADA improvements as well as drainage design for conflicts with proposed sidewalk.

CRAVEN-THOMPSON & ASSOCIATES INC

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Education
North Carolina State University,
Bachelor of Science in Mechanical Engineering (2002)

Years of Experience
Total: 20; With Firm: 16

Licenses/Certifications
State of Florida
Professional Civil Engineer
Florida No. 65921 (2007)

Leonard "Zach" Gamble, P.E. (continued)

Chatham Hills Infrastructure Upgrade | Boca Raton, Florida | Project Manager
Project involves relocation and upsizing (where needed) approximately twenty-four thousand five hundred (24,500') feet of existing domestic water mains from the rear yards to the rights-of-way. This includes abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the structure as well as restoration of private and public property.

Original Section Drainage Improvements – Stormwater Master Plan, and Phases 1 – 6 Implementation | Greenacres, Florida | Project Manager - The Original Section Drainage Improvements project located in the City of Greenacres is a master planned drainage improvement project for an existing 246-acre neighborhood between Jackson Avenue and Fleming Avenue from Lake Worth Road to 10th Avenue North. The Master Plan included the modeling of existing and proposed drainage improvements using *Interconnected Channel and Pond Routing* (ICPR) software and developing phased improvements for the area. The project required over 6,500 LF of drainage pipe, 21,615 LF of ditch re-shaping, long lengths of sidewalk replacement, driveway restorations, and pavement restoration. The Phase 1 project required installation of 500 LF of 36" RCP storm pipe, 1,010 LF of 24" RCP Storm Pipe, 156 LF of 18" RCP Storm Pipe, 156 LF of 12"x18" RCP Storm Pipe, significant ditch reshaping, sidewalk replacement, and replacement of outfall to LWDD canal; Phase 2 included 6,200 LF of ditch grading and 4 culvert crossings; Phase 3 included 1,000 LF of drainage pipe; Phase 4 involved ditch reshaping and 5 culvert crossings; Phase 5 encompassed the replacement of 6 outfalls, and the restoration of 120 LF of canal; Phase 6 included the replacement of 9 outfalls, the installation of drainage pipe, and canal restoration.

Boca Villas Infrastructure Upgrade | Boca Raton, Florida | Senior Engineer
The Boca Villas project is part of the City's Innovative Sustainable Infrastructure Program (ISIP). The water distribution system improvements include: 1,100 linear feet – 4" main, 19,605 linear feet – 6" main, 16,459 linear feet – 8" main, 6,453 linear feet – 12" main, 2,982 linear feet – 16" main, 36 fire hydrants, the abandonment and grouting of 28,700 linear feet of existing watermain, and the construction of 600 water services, In addition, the project included mill & overlay along with right-of-way restoration, removal and replacement due to trip hazards, infill of missing segments of sidewalks to complete network, installation/replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements. Specific tasks include survey, design, permitting, construction documents and bidding assistance services.

Ramblewood Drainage Improvements | Greenacres, Florida | Project Manager - Project required 615 LF of drainage piping, 351 LF of exfiltration trench, 1,000 LF of sidewalk, and numerous driveway restorations within the neighborhood road R.O.W. Significant pavement restoration was also required.



PHILIP JOSEPH, P.E
CIVIL ENGINEER

Mr. Joseph has over twenty-seven years of experience in the civil engineering field in water and sewer system modeling, design, analysis, and land development. He is proficient in AutoCAD, MicroStation, SewerCAD, WaterCAD and MS project software.

Relevant Experience:

Master Lift Station W-14 Upgrade | Hollywood, Florida | Civil Engineer
The rehabilitation for sanitary sewer Lift Station W14 included the modification of the existing stations by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, replace motor control panels and rewire new pumps, new RTU, new SCADA, rewire and replace branch wiring outlets and fixtures, generator with double wall tank with leak detection, etc.

Lift Station A-6 Upgrade | Hollywood, Florida | Civil Engineer
Mr. Joseph assisted in the design and permitting of the reconstruction of sanitary sewer Lift Station A6 which included the replacement of the existing suction lift pump station with a new wet well, submersible pumps, converting the existing wet well into a manhole, valve vault, panels, SCADA system as well as hardscape and landscaping.

Lift Station E-02 Rehabilitation | Hollywood, Florida | Civil Engineer
The existing lift station is equipped with three 22 HP pumps which were upgraded to 46.94 HP pumps. The final design upgraded the pumps to three 45 horsepower pumps to meet the build out increased sanitary flow and the current DEP standards. All the 8" piping and valves in the lift station were upgraded to 12". These upgrades increased the lift station capacity from approximately 1,700 GPM to 3,500 GPM.

Lift Stations 24E1, 22, 30E and 50K2 Rehabilitation | Broward County, Florida | Civil Engineer - Rehabilitation of existing Retail Lift Stations 24E1, 22, 30E and 50K2, including pumps, panels, controls, coatings, valve pits, hatches and piping out of valve pit.

Lift Stations 1, 2, 5 & 7 Upgrade | Oakland Park, Florida | Project Engineer - Modeled the sanitary system, assisted in the design and preparation of contract documents and permitting of the upgrade of existing sanitary sewer lift stations.

Lift Station A-2 Upgrade and Force Main | Oakland Park, Florida | Civil Engineer - Mr. Joseph modeled the sanitary system, prepared contract documents, and permitted upgrade of an existing sanitary sewer lift station and a new force main to avoid re-pumping.

CRAVEN-THOMPSON & ASSOCIATES INC.

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Education
Master of Business Administration
Florida Atlantic University (2001)
Master of Science - Mechanical Engineering
Florida Atlantic University (1993)

Years of Experience
Total: 27; With Firm: 17

Licenses/Certifications
State of Florida
Professional Civil Engineer
Florida No. 50825 (1996)

Computer Skills
AutoCAD, MicroStation, SewerCAD, WaterCAD, InfoSWMM

PHILIP JOSEPH, P.E. (continued)

Triplex Lift Station 50B Rehabilitation | Lauderdale Lakes, Florida | Mr. Joseph assisted with design, permitting, bidding, and construction management/administration of the 12' diameter wet well, replacement of the valve pit, all new internal piping and valves, a new emergency generator, and replacement of the control panel. This project involved the construction of a submersible triplex station including *new 20 HP HOMA submersible pumps*, 10" diameter piping, a 12' diameter wet well, valve box, control panel and *a new emergency generator*. The station was designed to pump 1,760 gallons per minute at 51 feet of head.

Lift Station 30G Rehabilitation | Dania Beach, Florida | Civil Engineer
Mr. Joseph assisted in design and permitting of the improvements which included the rehabilitation of Lift Station 30G owned by Broward County and operated and maintained by Broward County WWS. Broward County selected Craven Thompson to design improvements to rehabilitate the existing lift station. Craven Thompson designed, permitted, and provided construction engineering and inspection services for the construction of the submersible duplex station including 15 HP submersible pumps, 6" diameter piping, an 8' diameter wet well, valve box and control panels. The station was designed to pump 425 gallons per minute at 72 feet of head.

Utility Analysis Zone Program (UAZ) 310 | Broward County, Florida | Civil Engineer
Mr. Joseph designed, and permitted a complete water distribution system consisting of 2,120 linear feet - 6" main, 38,502 linear feet - 8" main and 6,895 linear feet - 12" D.I.P. main. The construction also included sixty-three (63) new fire hydrants.

Government Center Commercial Alleyways 2" Watermain Replacement | North Miami Beach, Florida | Project Engineer – As with many eastern Miami-Dade municipalities, North Miami Beach has an aging and undersized water distribution system. The city has embarked on a program to install & upgrade new watermain at various locations within their services area. The city hired Craven Thompson & Associates, Inc. to survey, design, permit and provide construction engineering and inspection services for the upgraded Government Center system including: 4,830 linear feet of 4" dia. main, 67 water services, and 12 gate valves along with 2,800 SY of pavement restoration.

North County Neighborhood Improvement Project, NW Quadrant | Broward County, Florida | Civil Engineer - The North County Neighborhood Improvement Project, Northwest Quadrant includes approximately 650 acres of land between Dixie Highway and I-95, North of Sample Road, in the City of Deerfield Beach. Mr. Joseph completed the design and permitting for the water distribution, sanitary sewer collection systems, storm sewer systems, and roadway improvements for the entire 650 acres. The sanitary sewer collection system consisted of 22,047 linear feet - 8" gravity main, and 34 linear feet - 10" gravity main. The sanitary force main system consisted of 295 linear feet - 8" main, 2,235 linear feet - 10" main, 3,790 linear feet 12" main, 4,300 linear feet - 16" main, and 4,205 linear feet - 20" main. There were ninety-three (93) new sanitary manholes added to the area. The water distribution system additions included 5,760 linear feet - 16" water main, 7,156 linear feet - 12" water main, 1,256 linear feet - 10" water main, 12,779 linear feet - 8" water main and 44,217 linear feet - 6" water main.

Septic Tank Elimination Program District 2, Area 2-Q Project | Pompano Beach, Florida | Project Manager
Installation of approximately six hundred fifty (650') feet of new gravity sewer and 8" water main system in NW 14th Avenue in Pompano Beach to serve properties located on the west side of NW 14th Avenue south of Sample Road.

Septic Tank Elimination Program District 3, Area 3A-R | Dania Beach, Florida | Project. Manager
Installation of approximately four hundred (400') feet of new gravity sewer system and four hundred (400') feet of 6" water main on SW 28th Terrace and north of SW 45th Street in Dania Beach to provide service to approximately eight (8) properties.



KEVIN MENTING, P.E.
CIVIL ENGINEER

CRAVEN-THOMPSON & ASSOCIATES INC

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Education
Florida Atlantic University,
Bachelor of Science
in Civil Engineering
(2015)

Years of Experience
Total: 7; With Firm: 7

Licenses/Certifications
State of Florida
Professional Civil Engineer
License Pending (2021)

Mr. Menting has an in-depth knowledge of civil engineering principles including water, sanitary, drainage and roadway design. He has also permitted through various agencies in both Palm Beach and Broward Counties. Mr. Menting is also adept at AutoCAD 3D.

Relevant Experience:

Boca Villas Infrastructure Upgrade | Boca Raton, Florida | Senior Engineer
The Boca Villas project is part of the City's Innovative Sustainable Infrastructure Program (ISIP). The water distribution system improvements include:1,100 linear feet – 4" main, 19,605 linear feet – 6" main, 16,459 linear feet – 8" main, 6,453 linear feet – 12" main, 2,982 linear feet – 16" main, 36 fire hydrants, the abandonment and grouting of 28,700 linear feet of existing watermain, and the construction of 600 water services. In addition, the project included mill & overlay along with right-of-way restoration, removal and replacement due to trip hazards, infill of missing segments of sidewalks to complete network, installation/replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements. Specific tasks include survey, design, permitting, construction documents and bidding assistance services.

Boca Woods & Winfield Park Infrastructure Upgrade | Boca Raton, Florida | Senior Engineer - The Boca Woods & Winfield Park project is part of the City's Innovative Sustainable Infrastructure Program (ISIP). The water distribution system improvements include: 980 linear feet – 4" main, 19,160 linear feet – 6" main, 14,760 linear feet – 8" main, and 5,335 linear feet – 12" main, 25 fire hydrants, the abandonment and grouting of 33,950 linear feet of existing watermain, and the construction of 575 water services. In addition, the project included mill & overlay along with right-of-way restoration, removal and replacement due to trip hazards, infill of missing segments of sidewalks to complete network, installation / replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements. Specific tasks include survey, design, permitting, construction documents and bidding assistance services.

Lake Worth 2" Watermain Replacement Phase 2 | City of Lake Worth | Project Engineer. The City sought and secured an FDEP Drinking Water State Revolving Fund loan for the project. Craven Thompson was retained by the City to provide survey, design, permitting, DWSRF loan assistance and construction services for Phases 2 – 6 of the project. Phase 2 consists of: 11,859 linear feet of 4" diameter main, 4,902 linear feet of 6" diameter main, 509 water services, 16 fire hydrants, 78 gate valves, and the restoration of the right-of-way including 27,235 square yards of roadway and curb & gutter and sidewalk.

KEVIN MENTING, P.E. (continued)

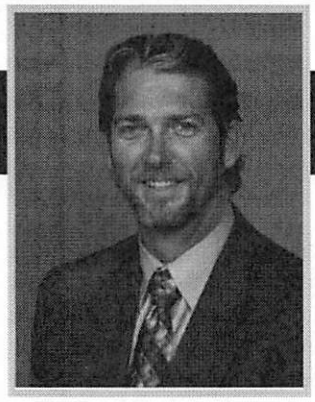
Lake Worth Sanitary Sewer Replacement from 5th Avenue South to 6th Avenue South in Alley (Between 5th Street and 6th Street) | City of Lake Worth | Project Engineer. This project replaces the unreinforced concrete sewer line in the alley between E and F Street from 5th to 6th Avenue South (450 linear feet). The line is in such critical condition that it must be replaced with an open trench, since it cannot withstand the preliminary jetting necessary to rehabilitate it by cured-in-place liner. This project replaces the existing concrete line with approximately 300 linear feet of SDR 26 8-inch gravity sewer. The 2-inch galvanized steel water main in the same alley is replaced as a part of this project with a 4-inch PVC pipe. A Health Department permit is necessary to construct the improvements.

Lake Worth New Sanitary Sewer Gravity Installation and Watermain Replacement from 11th Avenue South to 12th Avenue South in Alley (Between South B Street and South C Street) | City of Lake Worth | Project Engineer. This project consists of the construction of a new gravity sewer collector main to serve a block of properties within the city limits that are currently using septic systems. This includes the installation of a 420 linear feet SDR 26 sewer main, one terminal manhole, twelve PVC service lines with cleanouts, removal of existing 2" water main and replacement with new 4" water main, and re-connection of existing water services to new 4" water main. The work is mainly located in the unpaved alley between the properties with a small portion of work within the 12th Avenue South right-of-way in order to connect the new 4" water main to an existing 12" water main. The alley is re-graded and sodded as a part of the project.

Chatham Hills Infrastructure Upgrade | City of Boca Raton | Project Engineer
The Chatham Hills project is part of the City's Innovative Sustainable Infrastructure Program (ISIP). Project involves relocation and upsizing (where needed) approximately twenty-four thousand five hundred (24,500') feet of existing domestic water mains from the rear yards to the rights-of-way. This includes abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the structure as well as restoration of private and public property. The new water main along Federal Highway interconnects to the existing infrastructure to the east. Installation of an additional water main on NE 28th Street, to interconnect Dixie Highway and Federal Highway water mains. Work also includes sidewalk removal and replacement due to trip hazards, infill of missing segments of sidewalks to complete network (if requested by CITY), mill and overlay of all roadways, installation / replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements.

Lake Worth 2" Watermain Rehabilitation Phase 3 | Lake Worth Beach, Florida | Project Engineer
Mr. Menting was involved in the preparation of Contract Documents, Permitting and Construction Services for Phase 3 of this project. Phase 3 consists of: 7,480 linear feet of 4" diameter main, 5,330 linear feet of 6" diameter main, 600 linear feet of 8" diameter man, 370 water services, 14 fire hydrants, 30 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.

Lake Worth 2" Watermain Rehabilitation Phase 4 | Lake Worth Beach, Florida | Project Engineer
Mr. Menting was involved in the preparation of Contract Documents, Permitting and Construction Services for Phase 4 of this project. Phase 4 consists of: 10,206 linear feet of 4" diameter main, 10,870 linear feet of 6" diameter main, 600 water services, 19 fire hydrants, 62 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.



BRIAN TULL
CONSTRUCTION MANAGER

Mr. Tull is a Construction Inspector with twenty-two years of experience overseeing of project construction activities from the design phase to construction completion. Other tasks involved within this scope include quantity takeoffs for payment to contractors; shop drawing review; processing of change orders; tracking of all water, sanitary, and drainage testing for certification to various agencies; conduct progress meetings; document work deficiencies and review of as-built drawings.

Relevant Experience:

Davie Road Phase 1 CEI Services | Davie, Florida | Construction Inspector
This project was for the construction engineering inspection services to re-construct a public roadway known as Davie Road Phase 1 within public right-of-way owned by Broward County extending from the State Road 84 Right-of-Way to Nova Drive. The length of the reconstruction was approximately 2,640 linear feet. The construction project consisted of pavement, base and sub-grade reconstruction, curb & gutter construction, bike lane construction, sidewalk construction, median construction, driveway reconstruction within the right-of-way, drainage system construction, landscaping & irrigation construction, pavement marking & signage, traffic signal modification at Reese Road and at Nova Drive, street lighting, and coordination with utility companies.

SW 36th Street Improvements | Davie, Florida | Senior Construction Inspector - The project consisted of roadway, roadway drainage, utility & landscape/ hardscape improvements to SW 36th Street in Davie, Florida. The existing roadway section was expanded form 22' to 25' wide. SW 36th Street was designed as a two-lane divided boulevard from College Avenue to SW 76th Avenue within a 75-foot public Right-of-Way width.

Eastside Master Infrastructure Project – Phases 2 & 3 | Davie, Florida
Mr. Tull was responsible for Construction inpsection. Project included included: 5,075 linear feet of 8" watermain, 5,140 linear feet of 12" watermain, 11,455 linear feet of 8" saniatary gravity sewer, 2,945 linear feet of 16" sanitary forcemain, 18,940 linear feet of storm sewer, 41,000 square yards of swale regrading, and over 20,000 SY of roadway reconstruction.

Sidewalk, Swale, Drainage & Roadway Improvements (CDBG 41) | Hallandale Beach, Florida | Resident Project Representative - The project included ADA connections, details, and cross-sections for the Project Area. The sidewalk was installed to complete the existing neighborhood sidewalk network. Swales were constructed adjacent to the new sidewalks and exfiltration trench was installed to eliminate nuisance flooding. Upgraded ADA pedestrian ramps and driveways, sidewalks, re-graded swales, and coordination with drainage agencies. Craven Thompson provided roadway design, drainage design, permitting, topographic survey, and construction engineering services.

CRAVEN·THOMPSON & ASSOCIATES INC

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Years of Experience
Total: 22; With Firm: 15

Licenses/Certifications
FDEP Stormwater, Erosion & Sedimentation Control Inspector, No. 43752

Certified for Troxler Nuclear Testing (2009)

United States Navy - Mechanical and Safety Inspector on F-14 Tomcat Aircraft

Philips and Jordan Underground Utilities Superintendent for Army Corp. of Engineers

BRIAN TULL (continued)

Garden Acres Neighborhood Improvements | Oakland Park, Florida | Construction Inspector
Responsible for construction management. The infrastructure improvements to the existing neighborhood including a storm sewer, exfiltration trench, structures, milling & resurfacing, roadway reconstruction, and Right-of-Way restoration.

Westside Drainage Improvements | Davie, Florida | Construction Inspector
The storm drainage trunk line, and discharge are connected to the CBWCD N-7 Canal via one (1) new control structure. The project required an ICPR stormwater modeling analysis. The new control structure was placed in the dry retention area near the northern end of the Covenant House Park Site and has a 5.40-inch weir slot at invert elevation 3.55' NAVD to limit the discharge to the canal and provides the required water quality for the Public Works Site, Covenant House Park Site, and the West Side. The North Side has its own dry retention and control structure with a weir elevation of 3.10' NAVD, prior to discharging to the main trunk line. The storm sewer was 3,225 linear feet, the exfiltration trench was 1,270 linear feet, the roadway, 6,100 linear feet and the sidewalk 2,300 linear feet.

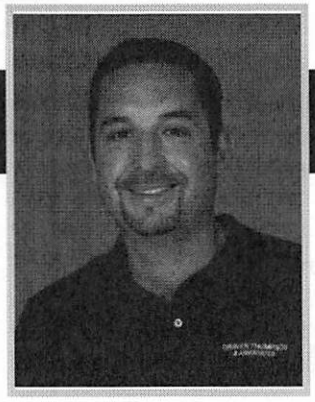
Stunson Nature Trail | Oakland Park, Florida | Construction Inspector
Park construction improvements included: an educational experience along a walking trail that emphasizes the primary environmental zones, enhanced wetland area, new landscaping and irrigation, creation of earthen berms, and a decorative fence with landscape buffer along NE 38th Street.

6th Avenue South Traffic Calming Improvements | Lake Worth Beach, Florida | Construction Inspector
The project limits are 6th Avenue South – Federal Highway to Dixie Highway. The scope of work includes mill existing pavement 1" +/- and reconstitute existing Type F curb, selective removal/replacement of sidewalk and curbing, striping, ADA ramps, and traffic calming features that add aesthetic value. Craven Thompson provided Surveying, Civil Engineering, and CEI Services for the project.

NW 5th Avenue Streetscape Improvements | Oakland Park, Florida | Construction Inspector
Responsible for construction inspection of NW 5th Avenue from Oakland Park Boulevard to NW 38th Street. The project consisted of a water distribution system, a storm water system and roadway re-construction.

Sistrunk Blvd. (NE/NW 6th Street) Streetscape and Enhancement Project | Fort Lauderdale, Florida | Construction Inspection/Resident Project Representative (RPR) for Sistrunk Boulevard Streetscape and Enhancement Project. The project was funded and managed by the Fort Lauderdale CRA and included streetscape improvements consisting of landscape, median, paver sidewalk, lighting, drainage and other improvements. Work included close coordination with existing businesses during construction, public relations to keep all parties informed of improvements, maintenance of traffic coordination to ensure access to all affected properties throughout construction and a full time RPR on-site managing the project. The project was federally funded including LAP funding.

Floranada Road Traffic Calming Improvements | Oakland Park, Florida | Construction Inspector
This project involved landscape architecture, professional engineering services for the design and permitting of traffic calming and other roadway improvements. The City of Oakland Park was seeking to implement traffic calming measures to enhance the safety of pedestrians and automobiles on Floranada Road between Dixie Highway and Federal Highway. Improvements surveyed, designed and permitted by Craven Thompson & Associates included traffic roundabouts at the road intersections with NE 13th Avenue and NE 16th Avenue. Two traffic chokers were installed at NE 15th Avenue and at NE 15th Terrace.



RASIEL LOPEZ
SENIOR CONSTRUCTION INSPECTOR

CRAVEN-THOMPSON & ASSOCIATES INC

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

Years of Experience
Total: 22; With Firm: 12

Certifications
MOT Intermediate Certified
Troxler Nuclear Safety Gauge Certified
Asphalt Paving Level I Certified
Earthwork Level I Certified
CTQP Currently Training for The Following Certifications:
Asphalt Paving Level II
Earthwork Level II
FDOT Concrete Field Tech
Final Estimates I and II
MDC: Fire and Building Safety Codes
OSHA 10hr Certified
Stormwater Management Inspector

Responsibilities included review, document and oversee contractor activities, specializing in sanitary sewer main installation, water main and force main installation, drainage pipe and drainage structure installation, as well as reclaimed water main installation. Prepared Daily reports indicating compliance or non-compliance with contract documents and/or Specifications. Conducted inspections / testing for manholes and water main (pressure test, exfiltration / infiltration tests). Prepared punch lists indicating deviations from approved plans and conducted final walkthrough inspections with client and contractor/sub-contractor.

Relevant Experience:

Bid Pack #10 (Water Main) | Oakland Park, Florida | Senior Construction Inspector. Bid Pack 10 area is approximately 520 acres and is located east of I-95, west of Dixie Highway, south of NE/NW 38th Street down to the southern city limits. The majority of the project was watermain replacement with pavement restoration. Craven Thompson is providing design, permitting, and construction engineering services for approximately 21,000 LF of watermain, 220 water services, 150 gate valves, and 12,900 LF of grouting & abandon in place watermain. This includes the replacement of services throughout the mainly residential area and the addition of eighty (80) fire hydrants to maintain a maximum hydrant spacing of 500 feet in the area.

Utility Analysis Zone Improvement Program (UAZ) 124 | Broward County, Florida | Senior Construction Inspector – Craven Thompson designed, permitted, and provided construction engineering and inspection services for the construction of a sanitary sewer collection system consisting of 25,446 LF – 8" gravity main, 302 LF – 10" gravity main, 2,003 LF – 12" gravity main, and 46 LF – 16" gravity main. The sanitary force main system consisted of 2,350 LF – 8" main, and 3,790 LF 12" main. The water distribution system replacement included 28,810 LF – 6" main, 4,440 LF – 8" main and 5,380 LF – 10" main, 373 water services, 53 fire hydrants, 190 gate valves, 30,970 LF of grouting & abandon in place watermain. The project required coordination with the City of Lauderdale Lakes. The project was certified to BCWWS, the Health Department and Broward County Wastewater.

Pines Village Watermain Phase I Post Deign Services | Pembroke Pines, Florida | Construction Inspector - Craven Thompson provided post design services for the Pines Village Watermain Improvements Phase I. The Pines Village Water Main Improvements Project Phase I consists of the removal and replacement of the existing water mains within the Phase I limits. These improvements include water main replacement, new water services from main in the roadway to either the existing meter location or the house connection location. This is dependent on whether the water service replacement is back to front or front to front. The project includes restoration to pavement as well as swale, driveway, sidewalk, private property, etc.

RASIEL LOPEZ (continued)

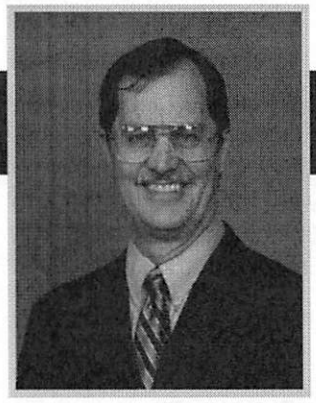
Utility Analysis Zone Improvement Program (UAZ) 122 | Broward County | Senior Construction Inspector
UAZ 122 is a one hundred and sixty (160) acre area bounded by the SFWMD C-13 Canal to the north, NW 47th Ave. to the east, W. Oakland Park Boulevard to the south and the Florida Turnpike to the west in the City of Lauderdale Lakes, Florida. The project includes the construction of a sanitary sewer collection system consisting of 19,345 LF - 8" gravity main; 1,350 LF - 10" gravity main; 4,800 LF - 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 LF - 6" main; 10,875 LF - 8" main; 5,205 LF - 10" main; 3,690 LF - 12" main; 630 LF - 16" main; abandonment and grouting of 25,435 LF of existing watermain; and the construction of 66 water services. In addition, 30,600 LF of roadway reconstruction along with right-of-way restoration. Craven Thompson is modeling the systems using SewerCAD and WaterCAD as well as creating the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

Utility Analysis Zone Improvement Program (UAZ) 308 | Broward County | Senior Construction Inspector
The UAZ 308 project encompasses approximately 125 acres in the City of Dania Beach and is located south of Griffin Road, west of Anglers Avenue, east of SW 30th Avenue, and north of SW 53rd Court. Craven Thompson designed, permitted, and provided construction engineering services for the construction of over 28,700 LF of water main, 219 water services (many services were relocated from the rear to the front of the lots), 54 fire hydrants, 103 gate valves, 16,946 LF of grouting & abandon in place watermain, 9,000 LF of water service pipe on private property, 20,300 LF of gravity sewer main, 340 sewer laterals, and 1,270 LF of force main. Main line pipe sizes ranged from 6" to 10" in diameter. The project also included 50,000 SY of new roadway construction, sidewalks, driveway aprons, and sodded swales. The project involved the replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, and replacement of motor control panels.

Master Lift Station W-14 Upgrade | Hollywood, Florida | Senior Construction Inspector
The project involved the replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, and replacement of motor control panels.

Septic Tank Elimination (STEP) District 2, Area 2-G | Pompano Beach, Florida | Sr. Construction Inspector
The construction involved approximately 3,000' feet of eight (8") gravity sewer main, eleven (11) maintenance access structures, one (1) retail lift station and seventeen hundred and fifty (1,750') feet of six (6") force main in NW 16th Lane, NW 17th Lane, Park Central Boulevard South, and Copans Road.

Utility Analysis Zone Improvement Program (UAZ) 108 | Broward County, Florida | Construction Inspector
UAZ 108, a two hundred and twenty (220) acre area, is bounded by NW 44th Street to the north, NW 31st Avenue to the east, the SFWMD C-13 Canal to the south, and State Road 7 to the west in the City of Lauderdale Lakes, Florida. The project includes the construction of a sanitary sewer collection system consisting of 26,875 linear feet – 8" gravity main, 1,395 linear feet – 10" gravity main, 2,790 linear feet – 12" gravity main, 1,530 linear feet – 6" force main, 3,630 linear feet – 8" force main, 1,350 linear feet - 10" force main, 1,140 linear feet - 16" force main, and 452 service laterals. The water distribution system improvements included 24,560 linear feet – 6" main, 8,450 linear feet – 8" main, 6,300 linear feet – 10" main, 975 linear feet – 12" main, 150 linear feet – 16" main, 1,425 linear feet – 20" main, the abandonment and grouting of 35,575 linear feet of existing watermain, and the construction of 441 water services. In addition, 36,000 linear feet of roadway reconstruction along with right-of-way restoration.



RICHARD D. PRYCE, P.S.M., PROFESSIONAL LAND SURVEYOR

CRAVEN THOMPSON & ASSOCIATES INC

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

education
Broward Community College, Associate of Science in Criminal Justice (1978)

years of experience
Total: 49; With Firm: 16

licenses/certifications
Professional Surveyor and Mapper: LS4038 (1983)

publications
Co-author POB Magazine - "22,000 Acres and Counting" November 1998

Co-author POB Magazine - "The CAD Resolution" September 1999

affiliations
Past Director - Broward County Chapter of Florida Surveying & Mapping Society

State & County Chapters, Florida Surveying & Mapping Society

National Society of Professional Surveyors

American Society of Photogrammetry and Remote Sensing

Mr. Pryce has over forty-nine years of experience surveying in South Florida. He has specialized in all aspects of the land surveying & mapping profession and has also specialized in developing GIS/Survey applications using ESRI ArcGIS software since 1990. Mr. Pryce has been fully trained on Leica 3D Laser Scanners and 3D Modeling He has also been developing ways to analyze Lidar data for City-wide Storm water and Drainage studies.

Relevant Experience:

Pine Island Road Drainage As-builts for BCHCED | Broward County, Florida | Lead Surveyor - Craven Thompson prepared Record Drawing of Drainage Structures on Pine Island Road for Broward County Highway Construction & Engineering Division. We established horizontal control points within the project area. All survey control horizontal locations were tied into the State Plane, Florida East Zone, NAD 83/90 Coordinate system.

Stormwater Master Plan Survey & GIS: (LiDAR, Geodetic Network, Stormwater Data Collection) | Fort Lauderdale | GIS Coordinator - Mr. Pryce managed the 28,000-acre LiDAR mapping and stormwater data collection for the City of Fort Lauderdale. Used high-density LiDAR to create a ground surface model of the City and updated their stormwater structures and pipes in GIS from field measurements from 3 survey crews. LiDAR was used to map 125 miles of canals and seawalls, and prep for GIS modelers to use for taking sea-level rise into account.

Sanitary Sewer Mapping - GIS and Surveying | Fort Lauderdale | Principal Survey / GIS Manager - Responsible for establishing Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory 5,917 Sanitary Manholes, 190 pump Stations, 15 meters, and 80 miles of force mains and their associated valves.

Stormwater GIS/Data Collection Project | North Miami Beach, Florida | Principal Survey/GIS Manager - The City is divided into six (6) zones and that structure/pipe data was collected within each zone and identified by zone and structure numbers. GIS data was collected and processed utilizing the City's existing Unit ID naming system in the geodatabase. The CTA data was collected by a Unique ID. Craven Thompson provided the City with a copy of the updated geodatabase with all the proposed data fields to be collected for review. The GIS data collected consisted of: Structure type (junction, inlet, control structure, drainage well): Pipes: Culvert and Outfalls: and Headwalls and Seawalls.

L-12 Canal ROW Annexation Easement Sketch & Legal Description | Greenacres, Florida | Craven Thompson prepared a sketch and description for a portion of the LWDD L-12 canal right-of-way between Raulerson Drive and Military Trail as part of the effort to annex the property. This task included calculating the area of the property description.

RICHARD D. PRYCE, P.S.M. (continued)

NE 167th Street Topographic Survey | North Miami Beach, Florida | Principal Surveyor
Craven Thompson was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62nd Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements.

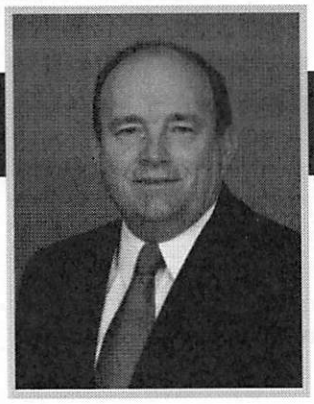
NE 188th Street Seawall Survey | Aventura, Florida | Principal Surveyor
Craven Thompson prepared a topographic survey of the concrete seawall north of the Aventura City of Excellence School, lying north of NE 188th Street, approximately 690 linear feet. This Topographic survey met all of the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida and included recovery of property monumentation along the seawalls, the location of all aboveground visible fixed improvements from the water's edge of the seawall, landward for approximately 25 feet, including trees with a trunk size of 3" diameter or greater. Elevations were measured sufficient for engineering design and cross sections were shown at 50-foot intervals.

Margate Hydrographic Canal Survey |Margate, Florida | Project Director
Craven Thompson provided professional Surveying services for the proposed canal rehabilitation and pedestrian path. We prepared Boundary, Topographic and Hydrographic Survey of the canal lying along the east side of Parcel "A", "Margate Third Addition". The north-south canal is extremely overgrown with Brazilian Pepper and Australian Pines made it difficult to locate edge of water, top of bank and deep cut line.

SW 190th Avenue Topographic Survey | Southwest Ranches, Florida | Project Manager
Craven Thompson prepared a topographic survey of SW 190th Avenue, from one hundred (100) feet south of SW 49th Street, to the north edge of pavement of Griffin Road, approximately 1,215 linear feet in length. The survey consisted of the existing twenty (20) foot wide of platted right-of-way, and a minimum of thirty (30) feet west and twenty-five (25) feet east of the existing right-of-way, for locations and topographic elevations. At the intersections of Griffin Road and SW 49th Street, the locations included up to one hundred (100) feet east and west of each intersection.

North Miami Beach Sewer & Water GIS Project | North Miami Beach, Florida
This project for North Miami Beach Utility Department was undertaken to create an ArcGIS geodatabase of water and sanitary sewer system for the entire services area. The goal of this project was to provide Survey/GIS grade data without the expense of surveying the entire water and sanitary sewer system. To accomplish this goal, Craven Thompson performed a citywide GPS horizontal and vertical Control survey. Mr. Pryce was the project manager and was directly involved in the AutoCAD GIS conversion, and creation of the GIS map & attributes. The parcel maps and geodatabase are based on the GPS control network, converting and geo-referencing the original As-Built AutoCAD files to State Plane, Florida East Zone, NAD 8390 HARN, units US Survey Feet inside of the Autodesk environment. The geo-referencing of the AutoCAD files was performed based on the survey quality maps, as-builts and from high definition (3" pixel) aerial photography. The high-density photography, when overlaid into AutoCAD was necessary to allow the GIS technician to visually id, manholes, valves, fire hydrant and other features to geo-reference AutoCAD files which often were graphically depicted and not survey accurate.

Hollywood As-built Tidal Structures - North & South Lakes | Hollywood, Florida | Principal Surveyor
Prepared a Topographic (As-built) survey of twenty-one (21) Storm water outfalls draining into North Lake and three (3) Storm water outfalls draining into South Lake in the City of Hollywood, Florida. The survey included outfall locations covering the project area based on plats, right-of-way maps, and information from Broward County and the City.



RAYMOND YOUNG, P.S.M.
PROFESSIONAL LAND SURVEYOR

Mr. Young has forty-one years of experience surveying in South Florida. He has performed both field and office work on a variety of projects both large and small. He is experienced in all aspects of surveying including boundary, topographic, construction layout, ALTA mortgage, as-built, control and location surveys. He has prepared numerous plats and has been involved in the recordation of these plats.

Related Work Experience (Partial Listing):

Hydrographic and Storm Water Infrastructure Survey | Greenacres, Florida | Surveyor - Along with our sub-consultant, Craven Thompson created a survey from high-resolution, low-level LiDAR and ground surveying. The survey included roadways and canal cross-sections for proposed Drainage Improvements. Also, included Right-of-way surveys, storm drains, canals, and ditches along 1st Street in the Original Section area of the City of Greenacres and a portion of Lake Worth Canal E-3 (cross sectioned).

Livable Neighborhood Improvement Project - Vista Verde Phases 1A & 1B Survey | Miami Gardens, Florida | Surveyor - Mr. Young provided surveying services for the project which included surveying from right-of-way to right-of-way and 10' beyond for 2000 LF of roadway right-of-way. This involved location of all visible above ground improvements as well as obtaining inverts for storm and sanitary structures. Mr. Shahan then developed an engineering base map for design.

Main Street Topographic & Boundary Survey and Wetlands Delineation | Coconut Creek, Florida | Surveyor - This project involved a Wetlands Delineation, Boundary and Topographic Surveys for the Main Street Development in Coconut Creek, Florida. Craven Thompson walked the wetland perimeter of the wetland with JJ Goldasich and Associates to stake the limits of the existing wetlands and returned to survey and define those limits.

Seminole Hollywood Reservation Stormwater Data Collection/GIS | Hollywood, Florida| | North Miami Beach, Florida – Land surveyor - The Hollywood Seminole Reservation is generally bounded by Stirling Road on the north and by Sheridan Street on the south and includes the Hard Rock Hotel and Casino which is located north of Stirling Road. The east and west boundaries are formed by existing residential neighborhoods in the City of Hollywood. Craven Thompson updated the Tribe's stormwater GIS information through entering as-built data, and surveying the hundreds of stormwater/drainage structures located on the reservation. Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. We reviewed existing storm sewer surveys and as-builts that could assist with GIS location and with this information our survey crew measured each structure to get accurate horizontal and vertical information for the Tribe's GIS system. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, and structure condition were obtained in the field.

CRAVEN-THOMPSON & ASSOCIATES INC.

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, Florida 33309

years of experience
Total: 41; With Firm: 29

licenses/certifications
Professional Surveyor and Mapper: LS5799

affiliations
Florida Society of Professional Surveyors and Mappers

Ray Young (continued)

North Miami Beach Water & Sewer Service Area GIS &Mapping | North Miami Beach, Florida | Surveyor - Project surveyor/GIS. Data Collection and G.I.S. Specialist - The purpose of the 25,600 Acre Service Area Project was to provide the city with the complete GIS product of their water and sanitary system. This involved the conversion of the City's existing water and sanitary sewer infrastructure, from an AutoCAD drawing file format to the industry standard, Environmental Systems Research Institute (ESRI) Geographic Information System (GIS) format. The Project included the entire North Miami Beach Utility service area. The process included conversion of existing AutoCAD files, into the same coordinate system as the GIS, so that future updates will be more easily transferred between the two systems, for updates and maintenance. The project involved setting up a GIS Network file structure for the city to insert existing and future documentation into, as well as, adding GIS database information in the future.

Topographic/Hydrographic Surveys for Boat Ramps Improvements | Sunrise, Florida | Surveyor
Prepared topographic survey, including elevations obtained from a hydrographic survey, at six (6) different canal locations. The survey limits consisted of only those canal locations for the purpose of engineering design for eight (8) boat ramps

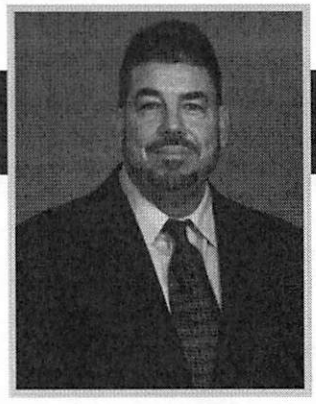
Lake Worth 2020 Master Plan - R.O.W./Topographic Survey | Lake Worth, Florida | Surveyor
Mr. Young prepared a boundary and topographic survey of the rights-of-way covering approximately 3.25 miles of roadway. The survey meets all of the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as defined in Chapter 5J-17.050 - .052, Florida Administrative Code.

L-12 Canal ROW Annexation Easement Sketch & Legal Description | Greenacres, Florida | Surveyor
Mr. Young prepared a sketch and description for a portion of the LWDD L-12 canal right-of-way between Raulerson Drive and Military Trail as part of the effort to annex the property. This task included calculating the area of the property description.

Greenacres - Digital Topographic Mapping for FEMA Flood Map | Greenacres, Florida
The survey included a GPS network of control to meet horizontal and vertical accuracies to 0.10 feet on all hard surfaces within the project area. This consisted of setting 20 aerial targets to control an area of about 7,700 acres from Southern Boulevard, south to Lake Worth Road and from Military Trail west to Pinehurst Drive. Our survey crews then ran level loops and cross-sections over 304 ground truth checks on hard surfaces at 30 street intersections across the City with accuracy of 0.09 feet at one sigma and 0.18 feet accuracy at 95% two sigma. The LiDAR data was delivered and accepted by FEMA.

Town of Davie 20' Wide Utility Easement | Davie, Florida | Surveyor
Prepared a sketch and legal description for a 20-foot-wide utility easement, running along the northerly boundary of the Nova High School and Nova Blanche Forman Elementary School, extending from the east right-of-way line of College Avenue, easterly to the west right-of-way line of Davie Road, approximately 2,310 feet.

Storm Sewer Outfall Replacement to SFWMD C-17 Canal Survey | Lake Park, Florida | Survey Project Manager - He prepared an As-built survey of the 2 outfalls and 2 drainage structures in the City of Lake Park, and including 1 structure at the car wash property and the next 4 drainage structures upstream from and south of the Firestone property within the North Lake Blvd. R.O.W. The survey included 3 hydrographic cross-sections of a portion of SFWMD Canal C-17 at the 2 outfall locations to show the existing bank slope above and below the water out to the edge of water of the canal.



DAVID REYES
SR. SURVEY/GIS TECHNICIAN

Mr. Reyes has significant surveying and mapping experience in Florida. He has extensive private and public sector project experience including design, construction engineering inspection (CEI), construction, global positioning systems (GPS), geographic information systems (GIS), right-of-way control. Having performed fieldwork and eventually moving to map preparation and quality assurance/quality control. In addition, he has extensive knowledge of digital terrain modeling and has prepared numerous digital terrain models used in roadway design and for quantity calculations.

Relevant Experience:

Hollywood Watermain Replacement Program Mobile LiDAR Survey | Hollywood, Florida - Field Coordinator and Senior CAD Technician, GPS Network data collection & adjustment, coordination of field crews, Mobile LiDAR computer extraction for 17-mile topographic survey and survey technician for final drawings.

Greenacres - Digital Topographic Mapping for FEMA Flood Map | Greenacres, Florida – Sr. Survey Technician - The survey included a GPS network of control to meet horizontal and vertical accuracies to 0.10 feet on all hard surfaces within the project area. This consisted of setting 20 aerial targets to control an area of about 7,700 acres from Southern Boulevard, south to Lake Worth Road and from Military Trail west to Pinehurst Drive. Our survey crews then ran level loops and cross-sections over 304 ground truth checks on hard surfaces at 30 street intersections across the city with accuracy of 0.09 feet at one sigma and 0.18 feet accuracy at 95% two sigma. The LiDAR data was delivered and accepted by FEMA.

Original Section Drainage Survey (LiDAR, DTM, Survey & G.I.S.) | Greenacres, Florida - Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile LiDAR computer extraction to create a Digital Terrain Model.

Pump Station A-13 & Sewer Redirection East of Federal Highway Route Survey | Fort Lauderdale, Florida| Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, and CAD Technician for final drawings and computations for route survey.

Lake Worth Infrastructure 2020 Master Plan - Year 1 Survey | Lake Worth, Florida - Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile LiDAR computer extraction for topographic survey for right-of-way.

CRAVEN-THOMPSON & ASSOCIATES INC.

Firm:
Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, **Florida 3**3309

Registrations / Certifications
Certified Survey Technician Level III, Florida, 2003

FDOT Maintenance of Traffic, Florida

Continuing Education
FDOT Intermediate Work Zone Traffic Control Refresher (2005)

Years of Experience
Total: 30; With Firm: 8

FDOT Work Type Codes:
8.1 - Control Surveying
8.2 - Design, Right-of-Way Construction Survey
8.4 - Right-of-Way Surveying

Affiliations
Member, CAICE Users Group
Member, Florida GPS Users Group
Member, Florida Local Users Group
MicroStation Community
Secretary, Florida Surveying & Mapping Society, Broward County Chapter 2004

David Reyes (continued)

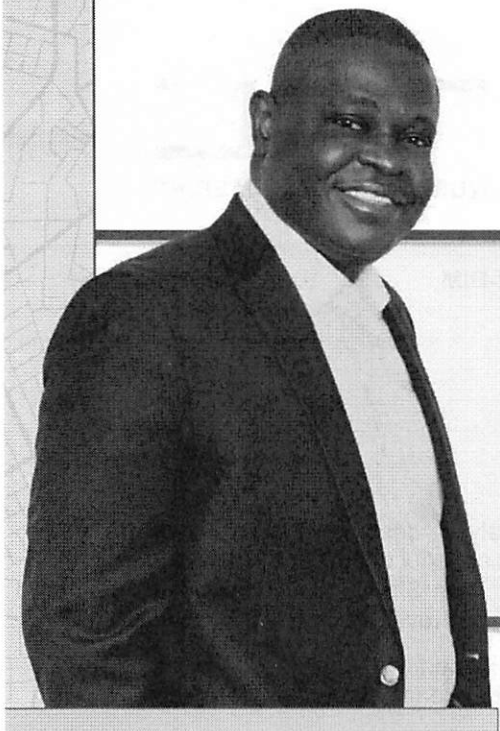
Western C-11 Facilities Report Update and Basin Study - CBWCD | Davie, Cooper City, Southwest Ranches **(Survey & DTM Development)** - Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, and CAD Technician for final drawings and computations for Hydrographic & topographic surveys. Mr. Reyes created the digital elevation model from the information.

Fort Lauderdale Stormwater Master Plan GIS & Survey | City of Fort Lauderdale, Florida
Performed surveying, and an As-built/Inventory 5,400 Stormwater Features for GIS City-Wide Stormwater Model. The survey limits of this project are described as the entire City limits of Fort Lauderdale. The city was flown with high density aerial LiDAR to a vertical accuracy of 0.15 feet across the entire City. From the Lidar we created a 2-foot grid Digital Elevation Model of the ground for modeling drainage flow. This required a GPS Control Network, and 309 ground control for the flight, performed over 5,000 verification shots on hard surfaces at major roadways across the city. The second part of this survey was to collect and evaluate 5,400 storm structures with Rims, Inverts, Pipe Size, material, and research As-built records of the city in the Stormwater system and provide the data to the City in ArcGIS Geodatabase conforming to their GIS Model Schema.

Fort Lauderdale Sanitary Sewer System GIS & Surveying | Fort Lauderdale, Florida
Craven Thompson established Primary and Secondary Vertical Control with over 3000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory of Manholes, pump Stations, meters, valves, air valves and 80 miles of force mains.

North Miami Beach Sewer & Water GIS Project | North Miami Beach, Florida - Senior Survey /GIS Technician - This project for North Miami Beach Utility Department was undertaken to create an ArcGIS geodatabase of water and sanitary sewer system for the entire services area. The goal of this project was to provide Survey/GIS grade data without the expense of surveying the entire water and sanitary sewer system. To accomplish this goal Craven Thompson performed a citywide GPS horizontal and vertical Control survey. Mr. Pryce was the project manager and was directly involved in the AutoCAD GIS conversion, and creation of the GIS map & attributes. The parcel maps and geodatabase are based on the GPS control network, converting and geo-referencing the original As-Built AutoCAD files to State Plane, Florida East Zone, NAD 8390 HARN, units US Survey Feet inside of the Autodesk environment. The geo-referencing of the AutoCAD files was performed based on the survey quality maps, as-builts and from high definition (3" pixel) aerial photography. The high-density photography, when overlaid into AutoCAD was necessary to allow the GIS technician to visually id, manholes, valves, fire hydrant and other features to geo-reference AutoCAD files which often were graphically depicted and not survey accurate.

Stormwater GIS/Data Collection, Project | North Miami Beach, Florida | Sr. Survey /GIS Technician - The City is divided into six (6) zones and that structure/pipe data was collected within each zone and identified by zone and structure numbers. GIS data was collected and processed utilizing the City's existing Unit ID naming system in the geodatabase. The CTA data was collected by a Unique ID. Craven Thompson provided the City with a copy of the updated geodatabase with all the proposed data fields to be collected for review. The GIS data collected consisted of: Structure type (junction, inlet, control structure, drainage well): Pipes: Culvert and Outfalls: and Headwalls and Seawalls.



Adebayo Coker, PE

Roadway & Transportation Planning Engineer

Adebayo has provided responsible and diversified transportation engineering experience in the planning, design and construction management of major FDOT and Miami-Dade transportation projects. He successfully managed and demonstrated exemplary leadership and management skills on similar FDOT projects which included serving as an EOR. His particular areas of expertise are in production and management of all phases of transportation design projects including preliminary and final design of limited/controlled access highways and freeways.

28 YEARS OF EXPERIENCE

HBC Tenure:
13 years

Industry Experience:
28 years

Education:
Bachelor of Science in Civil Engineering
Florida International University - 1992

Registration:
Professional Engineer,
Florida - No. 55322

Qualifications:
- Asphalt Paving Level I & II
- CTQP QA/QC Manager
- TTC Advanced #38977

FAVORITE QUOTE

"The success of this project lies within the HBC Team and our long term commitment to serving the residents of Miami-Dade County"

- Adebayo Coker -

FDOT District 4
SW 30th Ave. from Griffin Rd. to SW 45th St. 821 RRR
Location: Broward County, FL ***Duration:*** 2014-2019
Project Reference: Brent Lee-Shue-Ling, PE, (954) 777-4075, Brent.Lee-Shue-Ling@dot.state.fl.us

Project Manager in charge of design for ADA compliance, widening to add sidewalk, lighting, minor drainage adjustments, MOT and extensive utility coordination. Signalization improvements include new signal loops and assemblies, traffic signal heads, pedestrian signal heads and detectors, sign panels including internally illuminated signs, traffic controller assemblies, and new mast arm structures. Existing traffic controllers were modified with new concrete poles and aluminum pedestals.

FDOT District 4
SR 858/Hallandale Bch. Blvd. from SR 7 to Lakeshore Dr.
Location: Broward County, FL ***Duration:*** 2012-2019
Reference: Jim Hughes, PE, (954) 777-4419, james.hughes@dot.state.fl.us

Adebayo Coker, PE, served as project manager for this FDOT project.

FDOT District 4
I-595 Corridor Roadway Improvements Public Private Partnership (P3) Project
Location: Broward County, FL ***Duration:*** 2009-2014
Project Reference: Rey Rivas, (305) 594-0457,

Performed interdisciplinary coordination of structural, geotechnical, utility coordination, drainage, MOT, SUE, and surveying for this Private-Public Partnership project (P3) which extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TTCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities. Supervised project scheduling, cost estimate, weekly design meeting, permits, design of landscaping, roadway and ITS, procurement and implementation of Geotechnical report recommendations and design of miscellaneous structures and bridges, emergency access gate design, and review of power design plan submittal packages.

Resume



TRC
WORLDWIDE ENGINEERING

Donata Williams, P.E., MBA, LEED AP, CM-BIM
Managing Principal

PROFESSIONAL EXPERIENCE

Ms. Williams is a Structural Engineer with more than 18 years' experience in analysis, design and construction management of various types of structures for the governmental, commercial, aviation, educational and residential sectors. She utilizes various computer aided analysis and design tools such as Ram Structural System, Ram Concept, Ram Elements, Tekla Structural Designer Adapt, PCA Walls, AutoCAD, and Revit Structure.

Ms. Williams is a LEED Accredited Professional who worked on one of the first LEED certified buildings in Florida. She has worked on several other buildings that have obtained various levels LEED certifications and has other projects that are currently pursuing LEED certification.

She was one of the first 3 people in the state of Florida to receive her CM-BIM certification.

YEARS EXPERIENCE

Total Years' Experience: 19

EDUCATION

Masters of Business Administration
University of Florida / 2011

M.S. in Architectural Engineering
with a Structures Concentration
N.C. Agricultural & Technical
University / 2002

B.S. in Civil Engineering
University of Florida / 2000

PROFESSIONAL REGISTRATION

Registered Professional Engineer:

Florida	67337
North Carolina	036136
New York	093022-1

Special Inspector of Threshold Buildings - FL SI 7018699

LEED Accredited Professional
CM-BIM Certification

PROFESSIONAL AFFILIATIONS

(FSEA) Florida Structural Engineers Association

(AISC) American Institute of Steel Construction

PROJECT EXPERIENCE (With another firm)

- **City of Miramar Police Head Quarters Facility, Miramar, FL**
  Project Manager for this four-story, 65,000 sq. ft., $23 million facility designed to withstand extreme hurricane wind loads. The building exterior walls and framing are also designed to mitigate damage from explosive blasts and to prevent progressive collapse. The building is certified **LEED** Gold.
- **Parkland West Fire Station, Parkland, FL**
  Project Manager for this $3.1 million, 11,000 sq. ft. new fire station facility with offices for the city of Parkland building department; designed using BIM by Ms. Williams who led the team of engineers and technicians. Project construction was complete in March 2014.
- **Ravenswood Bus Maintenance Facility, Dania Bch., Broward Co.**
  Project Engineer for the replacement of the existing bus maintenance facility and addition of a parking garage. The project included a bus maintenance building with a 60,000 sq. ft. area with a storage mezzanine and a three-level parking garage that included office space at the 2nd level. The maintenance building utilizes steel framing supported by steel columns and concrete tilt-up walls and the parking garage consists of precast concrete framing. The project construction cost is approximately $25 Million; the project is certified **LEED** Gold.
- **SFRTA Pompano Beach Operations Bldg., Pompano Beach, FL**
  Project Manager for an approximately 79,000 sq. ft. three-story, office building constructed of architectural precast, precast joists and soffit beams, and cast-in-place concrete columns, and masonry shear walls and miscellaneous bearing walls. The building is certified **LEED** Gold.
- **Urban League of Broward County: Community Empowerment Center, Fort Lauderdale, FL**
  Project Manager & Special Inspector for this two-story building, completed in May 2012. This multi-purpose facility has approximately 30,000 sq. ft. of floor area housing new offices for the Broward County Urban League, as well as large meeting rooms and training rooms. The building also includes a two-story space with allowance for future 2nd floor addition. This facility was constructed with tilt-up, composite steel floors, bar joist low roof and a cast- in-place concrete high roof.

CUMMINS | CEDERBERG
Coastal & Marine Engineering

JANNEK CEDERBERG, PE

Principal Engineer



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 twenty 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.

YEARS OF EXPERIENCE
- 20

EDUCATION
- MSc Coastal Engineering, Technical University of Denmark

LICENSES
- Florida PE No. 69839

PROFESSIONAL AFFILIATIONS
- Permanent International Association of Navigation Congress (PIANC)
- Member of PIANC Working group Design and Operational Guidelines for "Superyacht Facilities"
- Danish Society of Hydraulic Engineering
- Florida Association of Environmental Professionals
- Port Everglades Association
- Florida Engineering Society Miami Chapter
- Florida Bar's Environmental and Law Use Law Section
- Biscayne Watershed Management Advisory Board

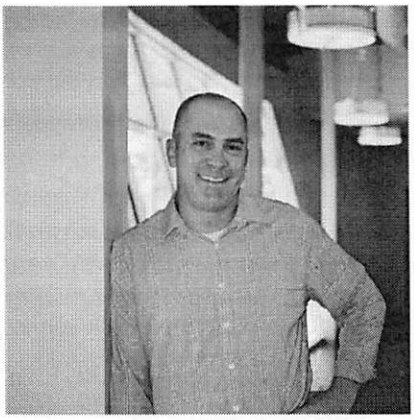
RELEVANT PROJECT EXPERIENCE

Adaptive Redesign of Jose Marti Park, *City of Miami, Florida.* Serving as a model for resilient waterfront parks that can adapt to current and future flood rises associated with climate change and sea level rise, this project explores ways to minimize tidal flood impacts and enhance waterfront access to residents. Jannek is leading the inundation modeling, and waterfront engineering design, while the Cummins Cederberg team is also leading the environmental permitting, coordination with FIND, and grant management.

Miami-Dade County Waterfront Parks Sea Level Rise & Flood Mitigation Roadmap, *Coral Gables, Florida.* Senior Project Manager for analysis of the impacts of sea level rise on park's infrastructure and operations, as well as flood mitigation concepts for planning and budgeting. Compiled existing survey and LiDAR data to prepare general topographic map; infrastructure condition assessment, remaining service life and adaption feasibility relative to sea level rise; assessment of environmental conditions on site to understand and document current conditions, as it would relate to environmental permitting; conducted an engineering analysis to provide extreme tide water levels; developed flood mitigation concepts and preliminary cost estimates; coordinated stakeholder involvement; and developed an implementation strategy. Project sites included Matheson Hammock, Crandon, Haulover, Virginia Key, Biscayne Shores and Gardens, Blackpoint Marina, and Homestead Bayfront Park.

Crandon Park Marina Sedimentation Study, *Key Biscayne, Florida.* Senior Project Manager leading tidal hydrodynamic modeling, wave, and sediment transport analyses to determine source and magnitude of marina sedimentation problem. Field investigations included bathymetric surveying, tide and current measurements, marine resource survey, and sediment sampling. Alternative assessments of potential coastal structures were explored to prevent sedimentation and need for periodic dredging.

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 LF 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.



MIKE BISHOP PE, LEED AP

ROLE: PRINCIPAL ENGINEER & PROJECT MANAGER

Mr. Bishop is the Principal Engineer and oversees overall engineering processes and procedures. After graduating from the University of Florida in 1996, Mike worked as an industrial engineer for Energizer Batteries honing the fine art of building an efficient work flow. This efficiency followed him after joining RGD 18 years ago. Mr. Bishop has worked side by side with the founder and principal helping to grow RGD to where it is today. Over his 23 year career, his experience includes large scale developments, including high rise projects up to 19 stories in urban environments, medical office buildings, corporate offices, higher education facilities and large public sector projects Mr. Bishop specializes in mixed use and vertical build environments. His expertise includes working proactively with clients, owners and contractors, especially during preliminary conceptual stages, to establish an overall design direction and set expectations for the project. These early on discussions and early coordination ensures projects move forward swiftly and are designed to budget. Mr. Bishop will be the Mechanical Engineer of Record for this project.

RGD
CONSULTING
ENGINEERS

EDUCATION

Bachelor of Industrial Engineering
University of Florida

EXPERIENCE

24 years of experience

REGISTRATIONS

Registered Engineer
PE 73000

AFFILIATIONS

American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE)

LEED Accredited Professional

PUBLIC WORKS EXPERIENCE

CITY OF WEST PALM BEACH FIRE STATION 5 | WPB, FL, | Retrofit IT room with new HVAC cooling.

PALM BEACH COUNTY CLERK OF COURTS EVIDENCE VAULT | WPB, Florida | HVAC remediation of courthouse evidence vault. High humidity was damaging evidence.

CITY OF WEST PALM BEACH LIFT STATION ARC FLASH & CIRCUIT STUDY | WPB, Florida | Arc Flash and Short Circuit study for 49 Lift stations across the City. One all studies were complete, RGD commenced with drawings to re-mediate all lift stations with violations.

SEMINOLE TRIBE OF FLORIDA FIRE STATION & EMERGENCY OPERATIONS CENTER | The project involves the new construction of a second floor to the Fire Safety Station 108. RGD provided mechanical, electrical and plumbing design for the addition, which included emergency backup generator and new restroom facilities.

CITY OF PALM BEACH GARDENS TENNIS CENTER | PBG, Florida | Design for a new 10,000 SF, 2-story clubhouse. RGD provided structural, mechanical, electrical and plumbing engineering.

VILLAGE OF NORTH PALM BEACH COUNTRY CLUB & SPLASH PARK | North Palm Beach, Florida | Renovation and updates to the 20,000 SF club along with renovations and updates to the pool and a new splash pad/water park.

PALM BEACH COUNTY SRWRF SOLIDS BUILDING | Boynton Beach, Florida | Existing HVAC system was nearing the end of its service life. RGD worked with County personnel to replace the system and provide mechanical and electrical engineering.

CITY OF WEST PALM BEACH POLICE STATION | West Palm Beach, Florida | Multiple projects at the City's Police Station including removal of the existing microprocessor based BAS and installation of anew direct digital controls system (DDC) electrical system including applicable electrical operators. Additionally, design for the replacement of the existing caterpillar diesel generator along with roof re mediation.

PALM BEACH COUNTY EMERGENCY OPERATIONS COMPLEX FIRE RESCUE CENTER | West Palm Beach, Florida | Project involved upgrading the dispatcher workstations at the County Emergency Operations Center.

ARTHUR I. MEYER ACADEMY & MANDEL JEWISH COMMUNITY CENTER OF THE PALM BEACHES | Palm Beach Gardens, Florida | Shared K-8 grade private academy, 48,000 SF, and a 56,000 SF recreational facility that houses multimedia center, science labs, a state-of-the-art TV studio, and a production room. Additionally, the community center features preschool, gymnasium and aquatic center.

Mark E. Luther, PE, Senior Vice President
Chief Electrical Engineer

Education: Bachelor of Science in Electrical Engineering, Boston University, 1987

Professional Registration: Registered Electrical Engineer, Florida No. 48801

Professional Qualifications: Mark Luther brings over 35 years of electrical, instrumentation, communication, and control system design experience to this contract. He has actively performed electrical, lighting, communication, fire alarm and instrumentation and control system design/SCADA, upgrade and project engineering for government, transportation, facility, and utility business sectors. Designed complete electrical distribution, secondary systems and instrumentation systems for large water and wastewater treatment facilities. Designed emergency stand by power systems for industrial, commercial facilities, completed startups, testing of electrical systems, cost estimates and master plan electrical studies. Skills include value engineering, cost analysis, specification creation, energy analysis, on-site inspections, condition assessment, QA/QC reviews and electrical system fault and coordination studies. Proficiency with SKM Power Tools for Windows DAPPER, CAPTOR, TMS and ARC FLASH; AutoCAD, LitePRO.

Project Experience:

Palm Beach County Water Utilities – SRWRF Headworks and Effluent Transfer Pumping Improvements, Boynton Beach, Florida - Provided electrical, instrumentation and control engineering and design for upgrades to pretreatment process including new band screens, conveyors, grit classifier, odor control and upgrade to 4160-480V power distribution equipment in the Pretreatment Building. Designed new VFD; power distribution and control systems for additional effluent transfer pump to existing Reclaim System. Specific Role: Electrical, Instrumentation & Control Engineer of Record.

City of Sunrise Utilities – Springtree WWTP Headworks Upgrade, Sunrise, Florida - Performed Electrical, Instrumentation and Control Design for Upgrade of existing plant influent pretreatment process including screens, grit removal and classification. Specific Role: Electrical, Instrumentation & Control Engineer of Record.

Palm Beach County Water Utilities - SRWRF Secondary Clarifier and Effluent Filtration Improvements, Boynton Beach, Florida - Provided electrical, instrumentation and control engineering and design for upgrades to eight existing clarifiers and upgrades/additions to the existing effluent filtration system including new filters, pumps, instruments, and power distribution equipment. Specific Role: Electrical, Instrumentation & Control Engineer of Record.

City of Sunrise Utilities- Sawgrass Train A Replacement - Performed Electrical, Instrumentation and Control Design for Replacement of existing Blower Building No.1 and associated Aeration Basins. Project entails constructing new Blower Building No.1 while maintaining existing Blower Building No.1 in service until de-commissioned. Project includes new redundant electrical power distribution system, new PLC based control system, new instrumentation, implementation of VFDS on new blowers, repowering existing plant process equipment not upgraded but powered from existing Blower Building No.1. Specific Role: Lead Electrical, Instrumentation and Controls Engineer.

Broward County Water and Wastewater Services – NRWWTP Reclaim System Expansion, Pompano Beach, Florida - Designed Instrumentation and Control System for 22MGD reclaimed process upgrade. Project included new filters; new filter feed pumps, new chlorine contact chamber; reclaimed water storage and distribution and hypochlorite chemical system. Specific Role: Instrumentation and Control Engineer of Record

Manuel G. Vera Jr.

Principal-in-Charge/ SUR Chief Surveyor

Mr. Vera Jr., a registered Land Surveyor has over 38 years of experience with the company and throughout the state of Florida. He has managed a variety of survey contracts and projects for the Florida Department of Transportation, Miami-Dade County, Miami-Dade Expressway Authority, City of Miami, and numerous Engineering and Design firms. Mr. Vera has performed and managed all types of surveying services including: Design Surveys, Right-of-Way Control Surveys, Right-of-Way Mapping, Platting, Construction Layout, Asbuilt Surveys, Drainage Surveys, etc. Mr. Vera is a Chief Surveyor and Mapper as well as our Chief Executive Officer. He has extensive experience in the management and coordination of survey projects involving a variety of surveying techniques such as Aerial Surveys, Conventional Ground Surveying, Utilities designation, etc.



Office Location
Miami, Florida

Years of Experience
38

Years with MGV
38

Education
Bachelors of Science, Legal Studies, Nova Southeastern University,1994

Associates of Science, Land Surveying , Miami Dade College, 1988

Registrations
Professional Surveyor & Mapper, Florida
License No.: LS5291
01/05/1994

Professional Affiliations
Florida Surveying & Mapping Society

The Transportation and Expressway Authority Membership of Florida

Surveying Experience
Manuel G Vera & Associates, Inc. (1983-current)

Project Experience

FDOT District 4, Districtwide Continuing Services for Survey, Mapping, and SUE (C-9T24) Surveying and mapping services for this contract include, but are not limited to: Mobile Lidar, Field Surveys, Maintenance of Traffic (MOT), Historical Baseline and Existing Right of Way Determination, Global Positioning System (GPS) Surveys, Monumentation Surveys, Bathymetric surveys (which includes single beam, multi beam and side scanner sonar capabilities), Utility Designation and Excavation (including Underwater Utilities), Tree Surveys (trees identified by an Arborist or Landscape Architect), Right of Way Control Survey Maps, Right of Way Maps, Maintenance Maps, Right of Way Monumentation Maps, Boundary Surveys, Quality Assurance Reviews, Expert Witness Testimony, Title Search Plotting Maps, Title Document Review and Analysis, Sketched, Parcel Staking, and Legal Descriptions. *FDOT District 4 | Jeffery Smith (954) 777-4560, jeffery.smith@dot.state.fl.us | 02/2017 thru 02/2022 | Contract Amount: $5 Million*

FDOT District 4, Design Services for Oslo Road (CR 606) from 82nd Avenue to 58th Avenue MGV provided engineering design survey services, including: establish and recover horizontal (NAD 83/90) and vertical control (NAVD 88) networks; computing historic baseline of survey of the project; Topographic and Digital Terrain Model (DTM/3D) and Planimetric (2D) Survey, including all above ground features and improvements for the limits of the project; Roadway Cross Sections/Profiles; Side Street Surveys; Underground Utilities, including designates the entire length of this project; Drainage Survey, locating underground data; Work Zone Safety; Miscellaneous and Supplemental Surveys as requested; Document Research; Field Review; Technical Meetings; Quality Control/Quality Assurance; Supervision; Coordination; Calculating geometry for the proposed Right of Way requirements; Labeling discrepancies between limits of construction line and the existing/proposed right of way lines; Jurisdictional/Agency Lines; Reference point sheet; Project Network Control sheet; Final Map/Plans comparison; and Supplemental Mapping. *TranSystems Corporation | Ian Biava, PE (954) 200-8264, ibiava@transystems.com | 03/2016 thru 12/2019 | Subcontract Amount: $414,143.59*

FDOT District 4, Districtwide Survey and Mapping Production Support (C-9D58) Recent tasks have included all aspects of Preliminary Engineering including establishing horizontal (NAD 83/90) and vertical control (NAVD 88) networks using GPS and conventional methods, establishing historical survey baseline and right of way, Topographic Surveys, Bridge Surveys, Drainage Surveys, Boundary and Right of Way Surveys, parcel sketches and legal descriptions for acquisitions parcels, construction easements, aerial easements, etc. including titles searches and reports. *FDOT, District 4 | Jeffery Smith (954) 777-4560, jeffery.smith@dot.state.fl.us | 01/2014 thru 01/2019 | Contract Amount: $1.5 Million*

Ft. Lauderdale Airport – Expansion of Runway 9R-27L in Broward County, FL
MGV was responsible for providing a Design Survey consisting of the following deliverables: the establishment of horizontal and vertical control networks, preparation of Project Network Control sheets, establish Survey Baseline adjacent to walls, set monitoring targets (2 per wall) as per client request, measure/scan targets and wall (8 visits - 2 per week), and preparation of a sketch and surveyor's report with the measurements obtained. *HNTB Corporation | Joseph Juzwin, PE (973) 434-3100, jjuzwin@hntb.com | 03/2014 thru 07/2014 | Contract Amount: $37,500.00*

KUMAR VEDULA, PE

Principal Geotechnical Engineer

26 Years Professional Experience



Education

MS in Geotechnical Engineering, University of Memphis, 1995

BE in Civil Engineering, Andhra University, 1992

Professional Organization and Registration

Professional Engineer 54873

American Society of Civil Engineers, Past President (Broward Branch)

Professional Experience

Mr. Vedula, a Florida-Registered Professional Engineer, has over 26 years of experience providing engineering services for a wide variety of geotechnical projects involving foundation design, slope stability analysis, WEAP analysis and interpreting PDA reports, excavation support, and construction inspection. His extensive experience includes foundation inspections (shallow and deep foundations), soil modification (dynamic compaction, stone columns), preloading, excavations, backfilling, and post construction monitoring. Mr. Vedula has served as a principal inspector on numerous surcharging and settlement evaluations of organic laden soils assignments. His project experience includes 300+ geotechnical engineering studies for various projects types including parks, piers, shoreline stabilization, dredging, bridges, roadways, utilities, high rise buildings, schools, and government facilities. Mr. Vedula has authored, and co-authored papers published in national and international publications.

Relevant Project Experience

- GT Lohmeyer WWTP Process Pipe Replacement, Fort Lauderdale, FL
- Historical Infrastructure Improvements Phase II, City of Miramar, FL
- Reclaimed Water Distribution System Expansion, City of Miramar, FL
- Neighborhood Improvements - UAZ 124, Broward County, FL
- Utopia Drive Force Main, City of Miramar, FL
- North Andrews Neighborhood Improvement Area 3 - 7, Broward County, FL
- NCNIP Bid Pack 10, Broward County, FL
- North County Neighborhood Improvement Project BP 11, Broward County, FL
- Septage Receiving Facility Improvements, Broward County, FL
- Peele Dixie Water Treatment Plant Building Repair, Fort Lauderdale, FL
- UAZ 308, Broward County, FL
- Hollywood E2, E3 Force Main Waterway Crossing, Hollywood, FL
- Central Broward Water Control District - Water Control Structures, Davie, FL
- Drainage Improvement - NE 56th Street, Coconut Creek, FL
- Miramar Wastewater Reclamation Facility Expansion, Miramar, Florida
- Control Structure N-17, Davie, Florida
- Broward County Water and Wastewater, Pompano Beach, Florida
- Pines Village Water Main Improvements Phase II & Septic Tank Conversion , City of Pembroke Pines, Florida
- 54-inch Force Main, Broward County, Florida
- Inverrary Bridge Force Main Relocation, Sunrise, Florida
- Broward County Water-Waste System BCWWS # 104538 Davis Isles New Sewer and Water Main Replacement, Fort Lauderdale, Florida
- Retail Master Pump Station 226 Rehabilitation, Pompano Beach, Florida
- Pump Station #8 Replacement, City of Hallandale Beach, Florida

Andres Garcia
SUE Project Manager
agarcia@inframap.net | O: 561 586-0790| D: 561 315-5714

YEARS OF EXPERIENCE
22+ years, 21 years with InfraMap

EDUCATION
Associates in Science, Palm Beach State College, Palm Beach, FL

PROFESSIONAL CERTIFICATIONS
InfraMap Training Program for Utility Locating & Designating Certification/ Instructor

ATSSA, Traffic Control Supervisor Certification

Confined Space Entry Training Program Certification (OSHA 1910.146)

FUCC Utility Coordination Discussion Seminar Regular Attendee

CSX Roadway Worker Protection Annual Certification

ABOUT

Mr. Garcia has performed utility locating assignments for InfraMap Corp. in Florida, Virginia, Maryland, Georgia, and Alabama since 1998. He is proficient with utility designating, performing test holes and utility CADD. Mr. Garcia's responsibilities include project management, attending utility scoping meetings, obtaining permits, records research, traffic control supervision, field data collection, quality control of the field work and FDOT Standards Compliance for each delivered submittal. Mr. Garcia has excelled as a survey party chief with experience in Total Station survey and data collector knowledge. His role also includes obtaining ROW permits, QA/QC, supervising field crews, meeting with utility company personnel and Maintenance of Traffic (MOT) set up.

RELEVANT EXPERIENCE

Designating and Test Hole Services for Southport Backbone 24" Force Main, Port St. Lucie, FL: Serving as SUE project manager, Mr. Garcia led the InfraMap field crews as they performed utility designating and air/vacuum utility test hole services for this project, which identified the need to reduce force main pressures on the existing 12" line and replace the line with a 24" force main. InfraMap crews targeted over 30,000 LF of utilities and excavated 50 air/vacuum utility test holes for this project.

SR A1A Utility Designating and Test Hole Services, Vero Beach, FL: Serving as SUE project manager, Mr. Garcia led the InfraMap field crews to provide utility designating and test hole services along SR A1A in Vero Beach for this project. Approximately 8,000 LF of utilities were located and 75 utility test holes were performed for the client. This project was completed on-time and on-budget.

City of Hollywood Water Main Replacement Program, Hollywood, FL: Serving as SUE project manager, Mr. Garcia lead the InfraMap field crews to provide utility designating and utility test hole services for this project. Approximately 20,000 LF of utilities were located and 31 utility test holes were excavated, processed, and delivered to client using FDOT standards for this project. This project was completed on time and under budget.

City of Fort Lauderdale 48 Inch Force Main Emergency Project, Fort Lauderdale, FL: For this multiphase emergency project, Mr. Garcia served as SUE project manager for the InfraMap team. InfraMap provided utility designating, and utility locating (test hole) services to the client for this project. A total of 89 utility test holes were excavated for the client, and final submittals of all deliverables were made on time and under budget.

FDOT District 6 District-Wide Utility Locating Services Contract: Serving as SUE project manager, Mr. Garcia led the InfraMap team to perform utility designating, air/vacuum test holes, survey and EFB/CAiCE/MicroStation CADD services on highway projects in District 6 in support of the District's pre-design program.

Section 4.2.5: Approach to Scope of Work

UNDERSTANDING OF CITY'S GOALS, NEEDS, OBJECTIVES

The City of Fort Lauderdale adopted an FY 2022 – 2026 Community Investment Plan (CIP) in the fall of 2021. The plan includes a large number and wide variety of capital projects. Many of these projects involve civil engineering related improvements. They include roadway / transportation / mobility projects, stormwater / drainage projects, water resources projects, resiliency projects, water and sewer projects including conveyance and treatment, and public facility improvements. The CIP incorporates the concept of "sustainable infrastructure" which involves connecting a commitment to sound asset management with an approach that prioritizes community needs within the context of a sustainable future. The Community Investment Plan is a planning document that sets forth the City's capital improvements to ensure that municipal infrastructure and facilities are appropriate and adequate to serve the needs of the neighbors of the City of Fort Lauderdale. The projects identified in the CIP include both capital and maintenance projects. The city is seeking consultants with the expertise to deliver these projects on time and within budget.

PROJECT APPROACH, VISION, IDEAS, AND METHODOLOGY

Craven Thompson's engineers bring an extensive amount of combined experience in the surveying and civil engineering engineering fields and have built a reputation for delivering reliable and consistent engineering expertise with a focus on client satisfaction. We combined our knowledge and refined set of skills for the benefit of our customers. At Craven Thompson, it is our mission to provide engineering solutions that exceed our customer's expectations and build long-term relationships that will enable us to work together for the safety and well-being of our communities, now and in the future.

Our project approach is to survey, plan, design, and construct the project in concert with the city and their staff so that all ideas and opinions are considered and the entire team has ownership and a vested interest in the final product. Carrying this inclusive collaborative approach to all tasks is essential to ensuring seamless, cost-effective delivery of a project.

Civil Engineering General/Typical Approach

Our general approach to a typical civil engineering project is as follows:

Information Gathering: As-Builts, Information, Reports, Studies Permit, and Other Existing Data Review

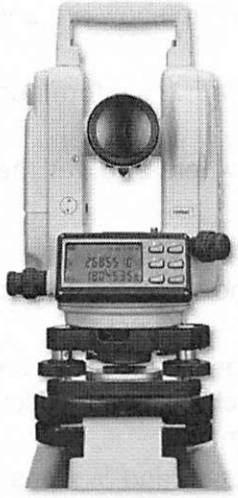
Craven Thompson will gather as much available information that can be obtained through due diligence. During this phase we utilize available existing reliable resources and data where possible to reduce data collection costs. This will include GIS, studies, and past survey information. We will search for existing studies, reports, technical information, and design documents for the existing water mains, sanitary sewers, lift stations, drainage, gas, telephone and electric. Also, Craven Thompson will seek public and private utility atlases and as-builts for service areas within the specific project limits

Surveying Project Limits

We will perform the survey using traditional surveying methods. Using conventional means, we can set horizontal and vertical control as well as collect topographic and invert information for roads, water valves and hydrants, sanitary manholes, and storm structures. Integrating this information with collected as-built information, a base map will be produced depicting all available aboveground and below ground information. This base map's accuracy is vital in assuring the proposed design has accounted for existing conditions. We will employ FDOT index 600 for Maintenance of Traffic during our surveying operations.

This survey would consist of a base map of the project limits, a survey control baseline and survey control points, with both horizontal and vertical coordinate information, in the form of x-y-z coordinates, in State Plane, Florida East Zone, NAD83(90), US Survey Feet format. The survey will extend ten (10) feet beyond the existing right-of-way lines. Locations will include all aboveground and visible improvements, including pavement, swales, signs, street lights, sidewalks, driveways, utility features and trees, three (3) inches in diameter and above, measured at four (4) feet aboveground level. All sanitary and storm sewer structures would include rims, inverts and pipe sizes and directions.

Minimum Technical Requirements for the surveying will be per the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6 of the Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.



Subsurface Utility Engineering (S.U.E.)

Subsurface utility locates will be performed for the project. In general Quality Level C locates will be used throughout the project. This involves surveying visible utility facilities (i.e., manholes, valve boxes, etc.) and correlating this information with existing utility records. This will be used to develop base map information. As with the surveying task, we will employ FDOT index 600 for Maintenance of Traffic during our S.U.E. operations.

Quality Level A locates will be performed by our subconsultant, InfraMap Corp, which will provide information for the precise plan and profile mapping of specific underground utilities and specific locations (x-y-z) through the nondestructive exposure of underground utilities, and also provides the type, size, condition, material and other characteristics of underground features.

A thorough S.U.E. investigation will be performed during the design of the project.

Geotechnical Investigation

Our geotechnical subconsultant, Tierra South Florida, Inc. will perform the geotechnical services necessary to develop the design package. They will perform borings sufficient to develop a soil

profile along the project area. As with the surveying & S.U.E. tasks, we will employ FDOT Index 600 for Maintenance of Traffic during our geotechnical. field work.

Meetings

Regular project meetings will be held with Fort Lauderdale's representatives for all phases of the project. Craven Thompson will facilitate these projects and attendees present at the meetings will be dependent on the phase of the project and the issues to be addressed. These meetings will be focused on adherence to the project timeline, quality control, budget, and also on the resolution of any outstanding issues.

Public Outreach (as necessary, depending on project scope)

Craven Thompson can develop a public outreach plan for a city project should it become necessary. It may consist of the following:

- Conduct public outreach meetings during the design and construction process to inform the public and solicit comments.
- Create a project website (or a page for the city website) so that homeowners can keep up to date on schedules, traffic changes, public meetings, photos showing progress of the project, safety steps being taken, and the progress. Make it simple and keep it updated on a frequent basis. Link all Facebook and Twitter feed.
- Prepare a database of landowners, business associations and businesses adjacent to and contiguous with the rights-of-way.
- Create project Facebook and Twitter accounts. Use them daily with pictures to show progress and if necessary and MOT changes.
- Create a hotline to make sure that with one phone call, a resident can obtain the information requested or be directed to appropriate City staff, or Mr. Gibney.
- Schedule a public workshop in the neighborhood to educate the homeowners and get their feedback.
- Develop a database of the homeowners and stakeholders affected.
- Create a letter to be mailed, and a follow up flier/door hanger to be hand-delivered to each house with information about the project, and the public meeting early in the project.
- If needed, signatures can be obtained from resident homeowners acknowledging they understand there will be workmen in their yards, and some landscaping changes may occur. The team member delivering the door hangers can be tasked with this item.
- Upon completion of the project, create and mail a newsletter with information and pictures to show residents the results. The city may wish to provide this information to residents who receive their email newsletter.
- A plan addressing anticipated issues during construction will be presented to the neighborhood involving such topics as road closures, traffic management, public safety issues, access to property, parking, bus routes, safe sidewalk access, routes to schools, construction hours, dust control, noise control, and construction material & equipment storage in the area.

A system for tracking complaints, questions, and comments will ensure that they are directed to the proper entity and satisfactorily addressed in a timely manner. We have found that public inclusion in projects at the beginning avoids animosity at the project completion. The residents and businesses of the affected neighborhoods should receive as much advance information as possible as to the benefits of the improvements, and what will take place during construction in their neighborhood, as they will be directly affected.

Design & Permitting Phase

Craven Thompson will incorporate data gained through agency comment into 30% design plans and calculations. These plans and calculations will be provided for City review. Craven Thompson will also perform a 30% internal review process.

City comments will then be incorporated into the plans, which will be further developed into 60% documents. Craven Thompson will process these plans and calculations through an internal review process as well as through City review. The typical Craven Thompson internal reviews take place at 30%, 60%, 90%, and 100% complete documents.

After incorporation of the City's 30% comments, Craven Thompson will proceed to completion of 60% design development documents. As with the 30% conceptual documents, the 60% design development documents would then be provided to the city staff for review and comment. We will proceed to 90% construction documents upon incorporation of the City's 60% comments. Craven Thompson will prepare the design permit applications and supporting documentation at the 90% construction document stage to assist the City of Fort Lauderdale in obtaining the construction permits for the infrastructure improvements from the agencies having jurisdiction.



During this period, Craven Thompson will prepare and submit responses to "Requests for Additional Information" (RAI) relative to the permitting package submitted. Any comments or additional requirements will be incorporated into the design prior to preparing the 100% design documents.

In addition, Craven Thompson will review the project from a "constructability" of design perspective to meet the City of Fort Lauderdale's goals and objectives and to maintain a firm grasp on the costs associated with each project. The "constructability" of a design is an important facet to consider during each phase of a design's development. However, when a preliminary design is nearing substantial completion (90% plans), it undergoes an in-house constructability review by our Construction Department. This review specifically ensures that the plans make sense from a construction perspective and is intended to minimize potential problems in the field during construction.

During our various internal review processes, we will also value engineer the project. Value engineering is not simply cutting the cost or scope of a project to reduce budget, it is a creative,

organized effort, which analyses the requirements of a project for the purpose of achieving the essential functions at the lowest total costs (capital, staffing, energy, maintenance) over the life of the project. Our staff of experts has extensive experience providing constructability, bid-ability, and value engineering services to our current and past municipal clients. By providing these services, we have saved cities many thousands of dollars and months of schedule time.

We will meet with Fort Lauderdale staff to receive their comments on the 90% design submittal. Following the meeting, our team will incorporate the City's comments and in addition identify any changes required due to agency permit comments. We will then incorporate comments from the Craven Thompson constructability review and make appropriate revisions to the 90% design documents. We will then proceed to complete preparation of the 100% contract documents, technical specifications and bidding documents for the solicitation of competitive bids for the construction of the project.

Close attention to the budgetary constraints will be a primary focus of Craven Thompson. In addition, value-engineering analysis will play a critical role ensuring the most efficient design possible. No work will be added to the project without review and agreement by both the City of Fort Lauderdale staff and Mr. Gibney. Such review will include cost and time impacts to identify alternative solutions, which can maintain the project's budget. Development of a solid budget will be first of foremost importance to the success of the project. Verifying the budget against the agreed upon project scope will establish the baseline cost for construction. Just as in the design controls stated above, no additions to the scope will be made without a review by the city staff and Mr. Gibney.

Bidding Phase

Craven Thompson will pull all necessary bid documents together to provide to the city for bidding purposes. We will assist the City of Fort Lauderdale by facilitating the pre-bid meeting and responding to questions and requests from the prospective bidders during the bidding phase.

Once bids have been received, Craven Thompson will tabulate the bids and review for completeness & responsiveness. In addition, we will check contractor references and prepare a recommendation to Fort Lauderdale of the lowest responsive qualified bidder. Once the contractor has been selected through the City Commission, Craven Thompson will work with the City and contractor to finalize the construction contract. Once the City has issued a Notice to Proceed for the contract, Craven Thompson will facilitate a preconstruction meeting, which will include the City, agencies, contractors, and all utilities to identify responsibilities, procedures and processes to be used during construction. The construction schedule will be addressed at this meeting.

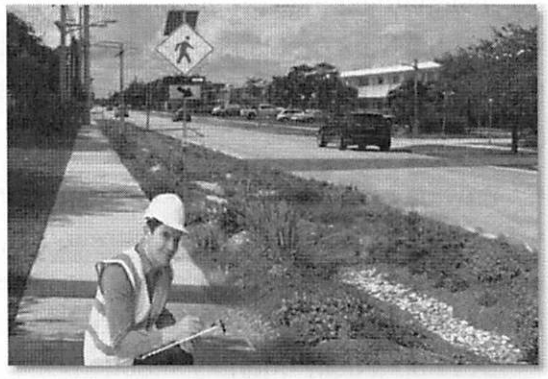
Construction Engineering Services Phase

Once the City of Fort Lauderdale has issued a Notice-to-Proceed to the contractor, the Craven Thompson project manager will facilitate a preconstruction meeting, which will include the City, agencies, contractors, and all utilities to identify responsibilities, procedures and processes to be used during construction. The construction schedule will be addressed at this meeting.

During the construction process, Craven Thompson will work with the city and the contractor with the goal to complete the project on time and under budget.

During the first week of construction, the construction manager will be on-site interacting monitoring the construction. The Craven Thompson design project manager will keep in close contact with the City staff and provide regular updates on the progress and issues related to the project.

In order to keep the City of Fort Lauderdale fully informed, Craven Thompson will generate weekly project status reports. We will communicate directives and clarifications on the project, as necessary. The construction manager will play a critical role during the construction process by reviewing the contractor's work and identifying issues when they are discovered. Weekly site meetings will be scheduled and facilitated by the construction services team in order to review the project schedule and to maintain organization and communication.



In addition, we will review payment requests and quantities for payment; prepare an itemized unit quantities and unit cost spreadsheet to verify conformance with the contract; review and approve shop drawings; prepare certified recommendations for payment, resolve field issues, review contractor requests for additional information (RAIs); setup and attend construction progress meetings; review Maintenance of Traffic (MOT) plans; review and monitor Storm Water Pollution Prevention Plans (SWPPP), coordinate field and office as-built data; monitor testing; act as the City's agent during the construction process; attend pre-final inspection and prepare a punch-list. During construction, the construction manager will meet with the City of Fort Lauderdale staff to monitor schedules and budget and assist in the administration of the contract. The construction manager will maintain copies of the daily reports, the contractor's progress reports, change order requests, and updated construction schedules. We will maintain a project file throughout the duration of the project, which will be provided to the City staff upon completion of the project.

The tasks to be performed by the Craven Thompson Team will include:

Pre-Construction Phase

- Manage the assigned construction project, overseeing aspects of implementation and coordination of project management including the planning and scheduling and coordination of activities; following procedures and setting priorities to meet established goals and objectives – act as City's project management staff;
- Develop quality assurance plans;
- Review and proofread plans, specifications, codes, shop drawings, submittals, procedures, reports, memos, status reports, contractor's minimum days, delay days, and change order days;
- Monitor adherence to project schedule;
- Track & manage project budgeting;

- Prepare pre-qualification questionnaire;
- Evaluate contractor proposals & summarize for review;
- Evaluate construction schedule;
- Conduct a pre-construction meeting;
- Establish and maintain all files, submittals, daily reports, and contractor daily reports.
- Establish and maintain reports which include submittals, correspondence, pay requests, change orders and field change directives, meeting minutes, supplemental instructions, sketches, Requests for Information (RFI), Requests for Changes (RFC), and correspondence between the designer, testing agency, and the contractor;
- Assist with inspections/plan approvals;
- Negotiate change orders and field change directives;
- Identify work that is needed and find cost efficient ways to perform the work; and
- Photograph site prior to beginning of construction.

Construction Phase

- Provide conduit for communication from City to the contractor and designer;
- Provide construction administration;
- Coordinate project with local agency inspection and private utilities inspections and comments;
- Field verify constructed quantities;
- Develop a daily quantity sheet;
- Completing daily inspection reports with associated photos, truck tickets, material verification and all other required documents on a weekly basis.
- Submitting documentation and site photos on a weekly basis;
- Monitor conformity of construction with content of approved/permitted design plans and specifications;
- Report significant events and/or discrepancies to the city;
- Establish budget tracking mechanism/report expenditures and compare to planned budgets each reporting period;
- Monitor progress and troubleshoot issues as they arise;
- Facilitate regular weekly meetings and provide detailed meeting minutes;
- Review final record drawings;
- Review record drawings on a monthly basis;
- Verifying all subcontractors and reporting to the city any subcontractors that are not certified for the project;
- Conducting periodic site visits as necessary to resolve Requests for Information (RFI) or other project issues;
- Providing written responses to Contractor RFI within seven (7) calendar days of receipt;
- Review testing reports for general conformance with plans and specifications;
- Assist in coordinating density testing;
- Communicate City directed changes to affected parties;

- Review contractor pay applications;
- Monitor submittals and requests for Information to insure timely approvals;
- Coordinate work in general and act as City's project manager;
- Perform inspections and site observation;
- Maintain a permanent file of all project documents for release to the city at close of project;
- Resolve contractors' questions/facilitate answers;
- Assist in approval process of material;
- Provide photographs as project progresses;
- Maintain punch list and progress toward completion of the punch list to achieve substantial and final completion of the work;
- Prepare required paperwork for closing the project; and
- Certify that construction is complete.

Surveying/GIS General/Typical Approach

Craven Thompson proposes the following approach to survey/GIS tasks to be performed for the city:

- We will perform preliminary research of subject properties to determine exact limits, available survey data on and near the site, and assign a Project Lead Surveyor best suited for the type of survey requested.
- Dependent on the complexity of the Statement of Work and if required, we will meet with City staff either in person, by phone, or through e-mail to discuss details of the statement of work, project schedule, City's cost limitations and deliverables.
- The Project Lead Surveyor will then visit the site to review existing field conditions and note any issues that may arise as to access, safety, available horizontal and vertical control on or near the site, obstructions and unique conditions that will affect the cost and schedule in completion of the requested task.
- We will then prepare and submit a proposal that includes a detailed level of effort, project and staffing schedules, firm fixed price based on proposed labor effort applying the pre-determined rate schedule, project completion date and deliverables.
- If applicable, innovative and alternative survey methods will be proposed to give the city options as to possible reduction of the project schedule and costs. Some of these methods would include GPS (Global Positioning System) Fast Static Control Survey and data collection, and 3D fixed base Laser Scanning.
- Once the City has reviewed our proposal, we fine tune the labor effort, cost and schedule, and submit a revised proposal for approval and work authorization.

All survey projects will adhere to the following Methodology:

- Work will begin immediately after receipt of the work authorization. The Project Lead Surveyor will compile any additional survey data required to perform office calculations and materials for the use of field and office staff to perform the tasks as outlined in the work authorization. A meeting will then be held with staff to review the project's details, objectives and schedule.

- During the field data collection and office preparation of the survey, daily evaluations of the collected information will be reviewed to assure accuracy and conformance to the scope. As a part of this process, the project will be analyzed and tracked to assure the ability to conform to the project scope, cost and schedule.
- Upon completion of the project survey, an independent Project Lead Surveyor employed by our firm will perform a Quality Assurance and Quality Control review of the final product vs. the City's Detailed Statement of Work, City Standards, the proposed scope of services, Florida State Statute Chapter 472 - Land Surveying and Mapping, Florida Standards of Practice for Land Surveying under Florida Administrative Code Chapter 5J-17 and any other applicable City Codes.
- All during the survey process, the Project Lead Surveyor will maintain close communications with survey staff and sub-consultants, managing the project in order to immediately solve any issues that may arise as to schedule, costs, and deliverables. This will assure that the Project Lead Surveyor can communicate regularly and accurately with City project manager the status of the project at any given time and guarantee quality products delivered on time as required by the Work Order.
- The final steps will be to deliver the project survey to the City in the required format(s) for review. If there are any comments during the review by the City, address those issues immediately and resubmit.

All of the surveys involving field crews and sub-consultants will follow the above procedures. The types of survey and survey tasks will include:

Topographic Survey, Record As-Built Survey, Specific Purpose Survey

We pride ourselves being on the cutting edge of technology when deciding on which data collection method(s) to use when addressing the needs of our clients as to level of accuracy, cost and timeframe when proposing and executing a project. For these types of surveys, we use conventional data collection methods for smaller projects to be cost effective. For medium and large-scale tasks, we will analyze which method of data collection will be most efficient. These innovative methods would include GPS (Global Positioning System) Fast Static Control Survey and data collection, 3D fixed base laser scanning, mobile LiDAR scanning, aerial photogrammetry, and aerial LiDAR scanning. We have the capability to combine these diverse data acquisition methods resulting in quality and cost-effective products.

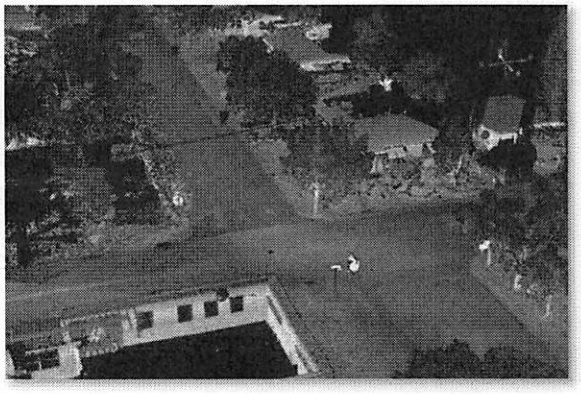
Sketch & Descriptions and Preparation of Easements

Our procedures for preparing sketch & descriptions and easements are virtually identical but dependent on the type of document required. These items are quite similar where a sketch & description could include any type of property, and easements would include a sketch & description of a portion of a certain property covering a utility, access, sidewalk or other type of improvement. The procedure would include reviewing the City's work authorization; determining the purpose of the sketch & description, research of the property to determine ownership limits which would also establish the limits of the sketch & description and/or easement. All sketch & descriptions are prepared using AutoCAD Civil 3D software. We also strive to prepare the base calculations and final document in the state plane coordinate system thus providing a seamless importation into current databases.

GPS Surveys

We use GPS (Global Positioning System) equipment on almost all of the surveys we prepare. This provides unified survey data that is easily brought into GIS databases with little need for adjustment. Our equipment ranges from hand-held models with 3-meter accuracy to the latest survey-grade receivers and base stations with sub-centimeter accuracy. We also manage our own Continuously Operating Reference Station (CORS) located at our office which is partnered with Trimble Navigation. This CORS, along with continually upgrading our field equipment, provides the ability to provide our clients with survey solutions faster, more accurately and at less cost. Types of GPS surveys usually are Project Network Control (field monumentation for localized survey networks) or Regional GPS Survey Control for large scale projects.

Laser Scanning



We often use 3D laser scanning to prepare topographic and as-built surveys of roadways, parking lots, buildings, utility plants and interiors of most any structure. The scanner will capture every aspect needed for design purposes in a point cloud of laser data, consisting of millions of 3D points. From this data we are able to prepare an AutoCAD drawing from any aspect in extreme detail in either 2D or 3D formats. This procedure consists of establishing survey control points at strategic locations around the property in an X-Y-Z format. With these control points set, the 3D scanner can then be positioned on, or near each of these controls and tied down to orientate the laser point clouds collected in the field. Multiple scanning positions are run that capture horizontal and vertical point positions in an X-Y-Z format detailing the facility. Then those scanned points will be registered together to form a seamless overall point cloud of the subject improvements. Each scanner position will capture everything in a 360-degree arc around the scanner in a 100-200-foot radius buffer, above and below the scanner along with digitally registered photographs of each area scanned. These points are then extracted and imported into an AutoCAD Civil3D base for preparation of the drawing.

Utilization of Existing Data or Management Systems

Our staff utilizes a multitude of existing data systems to manage different projects. We utilize our accounting system (Deltek 7.5) to manage the budget and the time from individual employees throughout the project, it provides regular updates and alerts by email to run the project efficiently. We utilize ArcGIS to collect existing data from City, County, and State agencies within the areas we are surveying to help organize and define the limits and the surrounding property information. We use various surveying software and hardware packages to do the Survey field and office operations as cost effectively as possible. And we utilize various governmental sites to access records and plans available for land information.

Web/Cloud Based Solution Platforms

We use the Trimble Terra-Flex system which is a cloud-based solution that allows the organization and control of the field data collection process. The power behind Terra-Flex is the integration between data collection and Geographic Information System, GIS, through a plug-in within GIS. A geodatabase that is created within GIS full of domains and schemas is uploaded to the cloud-based Terra-Flex system. From there forms are created based on the geodatabase and crafted to fit the constraints of the project complete with drop down menus and check boxes. These forms dictate how the field crews are to perform their surveys and ensure that all necessary information is recorded including multiple pictures of the target objects if desired. The field crews are able to view and edit these forms directly from a cell phone and/or tablet which provides great versatility in the field. These forms are then synced back to the cloud-based Terra-Flex system as soon as the form editing is complete and sends that information straight into the GIS attribute tables in the office where real time processing and analysis can happen.

Right-of-Way Surveys

Using existing records such as rights-of-way maps, plats, dedications and maintenance maps, we will establish the limits of the corridor and survey the boundaries. The improvements in and adjacent to the right-of-way are then located with either 3D fixed base laser scanning, mobile LiDAR scanning, aerial photogrammetry, or aerial LiDAR scanning. We have utilized all of these methods in the past singly or in combination. These methods keep our field crews away from traffic; thereby, increasing the safety of our staff and the driving public.

ALTA Surveys

Part of the process of the work order will be to make available to the city the minimum standard detail requirements for ALTA/NSPS Land Title Surveys. We will work with the City to determine the exact purpose of the survey and tailor the final product that best suits the City's needs and meet the ALTA/ASPS requirements upon delivery.

Canal and Embankments Cross Sections and Profiles (Hydrographic)

We use the latest survey-grade sonar equipment integrated with our GPS data collection systems to collect thousands of points in the given body of water. Also, using GPS we collect the embankment topography and then import both sets of data into one seamless 3D drawing. This allows us to then cut cross-sections, profiles at any required position. We can also prepare quantity calculations of the subject site based on this data. The time to collect data and accuracy using our equipment and procedures has been greatly improved over previous standard survey methods.

Field Reconnaissance

Prior to performing field reconnaissance, the project manager researches all available record documents such as plats, right-of-way maps, previous surveys, state and county survey resources in and around the subject site. The project manager then visits the site, to help determine the level of effort and time it will take to complete the proposed task. Reconnaissance will determine availability of horizontal and vertical control along with any unique characteristics of the property that will affect the work order and schedule.

Underground Utilities Detection

We engage a subsurface utility engineering (SUE) location sub-contractor to designate (paint and flag) the locations of the subject facility. We then horizontally locate the utility and plot on the base survey. During the design process, once proposed utilities and located, we will then stake the conflict points and locate test holes (vacuum excavation points) performed by the sub-contractor. This data is added to the survey and provided to the design engineer to resolve any issues in the design.

Plat Review Services Including Plan Review Per F.S. Chapter 177

We are currently the plat reviewing surveyors for a number of Cities in South Florida. We have developed a simplified checklist that mirrors Florida Statutes, Chapter 177, Land Boundaries Platting Law. We have also prepared checklists for each City that directly corresponds with the specific platting code in the Code of Ordinances. These checklists made available to the owner and/or developer (plat applicant) at their initial meeting with the city greatly increases the completeness and consistency of preliminary and final plats thereby saving time and costs for both the city and platting client. In conjunction with the checklists, we also prepare red-lined mark-ups of the plats during the office review and field check of monumentation of the plat boundaries. The documents are all then scanned and emailed to the city and if desired, directly to the platting surveyor thus reducing the paper trail and time it takes to complete the plat process.

SCHEDULING METHODOLOGY

The approaches previously defined in the preceding paragraphs address milestones which delineate the scheduling methodology.

FIRMS CURRENT WORKLOAD

The Craven Thompson business plan target composite utilization rate for the company is 75%. The targeted rate accounts for holiday, vacation, marketing, administration, illness, and other non-billable time. We employ a very small yet efficient number of administration personnel which contributes significantly to reducing our costs.

Our 2020 workload was well below the 2019 level as a result of the pandemic, and as a result our utilization rate dropped significantly. In 2019, Craven Thompson was at a company-wide utilization rate of 67%. In 2020 (after the onset of the pandemic) our utilization rate was at around 60%, which is well below our capacity. For the beginning of 2021 we continued with a company-wide utilization of 60%. Uncertainty due to the pandemic has led to a smaller number of projects being issued by our municipal clients, while some existing projects were placed on hold. At this point in time our staff is significantly underutilized. We see recovery from this situation as a fairly slow process and anticipate that for the next year or so we will slowly, but steadily increase our workload and perhaps approach a 65% to 70% utilization rate at the end of that period. This will still leave our staff somewhat underutilized.

Our surveyors, engineers, and landscape architects will be able to devote all necessary time to the City of Fort Lauderdale as described under this RFQ. Based on our current and projected workload, the City of Fort Lauderdale can be assured that Craven Thompson will provide the staff as identified in this submittal and the resources necessary to complete the services described in this RFQ on time and within the City's budget requirements.

The following is a list of current and projected medium to significant size projects under contract including the names of engineering personnel associated with each project. All engineers, and surveyors working on various projects are listed as being available to support to key personnel for this contract. Construction costs and percent complete are included in the list. The key personnel designated to serve this Fort Lauderdale contract **are shown as *italicized, underlines, and bolded*.** Note that projects are in various phases such as: planning; design; permitting; bidding; and construction. Those identified but not italicized are other personnel not identified in the submittal that are available support to key personnel for this contract.

- **Durrs Neighborhood Drainage Project** (85% Design & Permitting Complete)
  Personnel on Project: ***Patrick Gibney, PE (PM); Alex Sheffer, PE, LEED***; Joseph Carothers, PE; Mauricio Rodriguez; Robert Burkert; Joshua Thomas
  Construction Cost: $20 Million
- **Innovative Technology Village Roadways** (Starting Initial Survey)
  Personnel on Project: ***Douglas Taylor, PE (PM)***; Luis Pimentel, PE; Kush Patel; ***Richard Pryce, PSM; Raymond Young, PSM; David Reyes***
  Construction Cost: $1.2 Million
- **Boca Woods Infrastructure Upgrade** (80% Complete Design & Permitting)
  Personnel on Project: ***Zach Gamble, PE;*** Jose Canas, PE; ***Kevin Menting, PE***
  Construction Cost: $10 Million
- **City of SW 48th Avenue Complete Streets Project** (Initiating Design)
  Personnel on Project: Gary Tenn, PE (PM); ***Douglas Taylor, PE;*** Luis Pimentel, PE; Robert Burkert; Joshua Thomas
  Construction Cost: $5,000,000.00
- **BCWWS District 3C** (80% Complete)
  Personnel on Project: ***Patrick Gibney, PE (PM); Philip Joseph, PE***; Joseph Carothers, PE; Mauricio Rodriguez; Robert Burkett; Kush Patel
  Construction Cost: $10 Million
- **Fort Lauderdale Wastewater Consent Order** (80% Design Complete)
  Personnel on Project: ***Patrick Gibney, PE (PM);*** Johnny Gil, PE
  Construction Cost: Varies
- **Swain Boulevard Roadway Improvements** (10% Design Complete)
  Personnel on Project: ***Zach Gamble, PE*** (PM); ***Douglas Taylor, PE***; Luis Pimentel, PE; Joseph Carothers, PE; Matthew Novack, EI; Jose Canas
  Construction Cost: $3 Million

- **Central Broward Water Control District – Various Projects** - (% Complete Varies)
  Personnel on Project: Adolfo Gonzalez, PE (PM – District Engineer); ***Douglas Taylor, PE;*** Andrew Dorris, PE; Kush Patel; ***Ray Young, PSM;*** Todd Bates, PSM; Richard Crawford, PSM
  Construction Cost: Varies
- **Broward County Convention Center Expansion** (80% Design Complete)
  Personnel on Project: Timothy Hall, P.E. (PM); Andrew Dorris, PE; Eric Toebe, PE; Fareez Abrahim, EI; Keyla Lopez, EI; Mark Minter, PSM; ***Ray Young, PSM***
  Construction Cost: $14 Million
- **Three Island Boulevard Traffic Improvement Project** (75% Complete)
  Personnel on Project: ***Alex Sheffer, PE, LEED;*** Joseph Carothers, PE; Mauricio Rodriguez
  Construction Cost: $500,000.00
- **Sunny Isles Beach Golden Shores Utility Undergrounding** (80% Complete – Design/Build)
  Personnel on Project: Timothy Hall, PE (PM); Andrew Dorris, PSM; Eric Toebe, PE; Robert Burkert
  Construction Cost: $8 Million
- **Hollywood Lift Station E-8 Rehabilitations** (85% Design Complete)
  Personnel on Project: ***Philip Joseph, PE (PM);*** Donnelly Chin, EI; Joshua Thomas
  Construction Cost: $450,000.00
- **Plantation Fashion Mall** (85% Design Complete)
  Personnel on Project: Timothy Hall, PE (PM); Joseph Handley, RLA, Eric Toebe, PE, Keyla Lopez, EI, Fareez Abrahim, EI; Mark Minter, PSM; Todd Bates, PSM
  Construction Cost: $2 Million (Sitework)
- **Historic Miramar Infrastructure - Phase IV (Watermain)** (95% Complete)
  Personnel on Project: ***Douglas Taylor, PE (PM);*** Donnelly Chin, EI; Joseph Carothers, PE; Matthew Novack, EI
  Construction Cost: $1,000,000.00
- **Swain Boulevard Sanitary Sewer** (30% Design Complete)
  Personnel on Project: ***Zach Gamble, PE; Douglas Taylor, PE (PM); Kevin Menting, PE***; Jose Canas; Robert Burkert
  Construction Cost: $1 Million
- **Various other Private Projects** (% Complete - Varies)
  Personnel on Project: Tim Hall, PE; Adolfo Gonzalez, PE, LEED AP; ***Patrick Gibney, PE;*** Chad Edwards, PE; Gary Tenn, PE; Luis Pimentel, PE; Keyla Lopez, EI; Joe Carothers, PE; Todd Rubino; Kush Patel; ***Richard Pryce, PSM***; Mark Minter, PSM; ***Raymond Young, PSM;*** Todd Bates, PSM; ***David Reyes***
  Construction Cost: Varies

FIRMS AVAILABLE FACILITIES, TECHNOLOGY CAPABILITIES, AND OTHER AVAILABLE RESOURCES

In addition to conventional boundary topographic and construction surveys, we have the experience to provide the latest in **3D Laser Scanning - High-Definition Surveying,** Geodetic Control, PLSS Retracement, Hydrographic, Cadastral, Photogrammetric Control, Right-of-Way and Construction Surveys. We also have personnel and equipment to determine tidal datum and water boundary lines and can provide expert witness testimony. Through the utilization of our Global Positioning System, **3D Laser Scanner** and total stations with state-of-the-art data collectors, our survey data can be imported into a CAD or GIS environment which can be plotted or transferred to our clients via email, FTP, or on CD/DVD. Craven Thompson continues to refine and adapt CAD and GIS to a broad spectrum of uses. This blend of high technology with personalized service forms the core of every Craven Thompson project. Craven Thompson's equipment includes the Hydrolite-TM for its portability and Hydrographic survey solutions. We find that the use of this product provides us with flexibility for getting into areas that require smaller boats and still provides the accuracy from our Trimble Survey grade receivers.

Software: Craven Thompson continues to update all of needed software as the new versions are available. These programs include but are not limited:

- Autodesk Civil 3D 2017-19
- Autodesk Navisworks Freedom 2017-19
- Transoft Solution AutoTURN 10
- ESRI Arc GIS 10.6
- Bentley WaterCAD Connect Edition
- Bentley SewerCAD Connect Edition
- EPA PCSWMM Hydro
- Streamline Technologies ICPR
- Custom designed Engineering Calculation Software
- Trimble Terraflex
- Leica Cyclone 9.3 3D Laser Scan Software
- Leica Cloudworx 6.3/AutoCAD Scan Software

Servers: Our server infrastructure is running two Dell PowerEdge Host Servers running VMware Virtual Software. These 2 servers run 8 virtual servers running Windows 2008 R2 and Windows 2012 R2 server software and connect to a 96 Terabyte SAN (Storage Attached Network) device configured with RAID 6 redundancy which provides us with a high availability of file access and fault tolerance. All data is backed up to a Quantum Ultrium 4 SCSI tape drive with the capacity to backup up to 9.6 TB compressed data.

Network: Our network infrastructure consists of the latest Cisco Catalyst switches and CAT 6 network cabling with speeds up to 1 GBS.

Workstations: Our workstations are Dell Precision line workstations all running Windows 10 Professional with either Xeon or i7 Dual and Quad Core processors with solid state hard drives and a

minimum 16 Gigabytes of RAM. Production workstation utilizes a minimum 4 GB video cards with dual 24" high resolution monitors.

Plotting: We have an in-house Ricoh MP W8140 high-capacity wide format plotter with color scanning capability and two Hewlett Packard High Resolution 1050 Design Jet plotters.

Surveying Department Resources and Equipment:

A complete list of Craven Thompson's equipment and software are as follows:

- **Vehicles**
  Nine (9) Ford F-150 Pick-ups fully equipped for Surveying Crews
  Two (2) - 16-foot John Boat w/motor
- **Field Data Collection GPS**
  Two (2) Hydrolite-TM Hydrographic Survey System with Ohmex SonarMite echo sounder
  One (1) Trimble R8 GNSS GPS Systems Base Station
  Six (6) Trimble GNSS RTK GPS Systems [Three (3) Trimble R2 and Three (3) Trimble R10]
  One (1) Trimble R9 GNSS GPS Base Station with Trimble VRS Network
  Five (5) Trimble DiNi Digital Level 0.3mm
  Six (6) Trimble TSC3 data collectors with Trimble Access Software
  One (1) Trimble TSC7 data collectors with Trimble Access Software
- **Field Data Collection**
  Three (3) Trimble Robotic Total Stations
  Seven (7) Radios
  Seven (7) Spectra Precision 3L data collectors with Survey Pro Software
  Six (6) Leica Total Stations
  Seven (7) Leica Levels
- **3D Laser Scanning**
  Leica C10 Laser Scanner - 3D Laser High-Definition Survey System
  Cyclone 9.3 Scanning software
  CloudWorx Pro for AutoCAD
- **Software Support**
  Autodesk: Civil 3D 2017-19,
  Trimble: Trimble Business Center, Trimble Pathfinder Software and Trimble Terraflex.
  Leica: Cyclone 9.2 - 3D Scan & Modeling, CloudWorx Pro Version 6.3 for AutoCAD
  ESRI GIS: ArcGIS 10.6 Standard & Advanced

Section 4.2.6: References

REFERENCES

REFERENCE NO. 1:

Client Contact:
Mr. Patrick MacGregor, Expansion Project Administrator
Broward County Water & Wastewater Services
2555 W. Copans Road
Pompano Beach, Florida 33069
Phone: (954) 831-0904 / Email: pamacgregor@broward.org

Description of Work: UTILITY ANALYSIS ZONE 122

UAZ 122 is a one hundred and sixty (160) acre area bounded by the SFWMD C-13 Canal to the north, NW 47st Avenue to the east, West Oakland Park Boulevard to the south and the Florida Turnpike to the west in the City of Lauderdale Lakes, Florida. The project includes the construction of a sanitary sewer collection system consisting of: 19,345 linear feet - 8" gravity main, 1,350 linear feet - 10" gravity main, 4,800 linear feet - 8" force main, and 105 service laterals, The water distribution system improvements included: 11,190 linear feet - 6" main, 10,875 linear feet - 8" main, 5,205 linear feet - 10" main, 3,690 linear feet - 12" main, 630 linear feet - 16" main, abandonment and grouting of 25,435 linear feet of existing watermain, and the construction of 66 water services. In addition, 30,600 linear feet of roadway reconstruction along with right-of-way restoration. Craven Thompson modeled the systems using SewerCAD and WaterCAD as well as created the construction documents, permitting, assisted with bidding and CEI services for the infrastructure rehabilitation.

Project Duration: 3½ years

Year the Project was Completed: 2020

Total Cost of the Construction, Estimated and Actual: Est: $15,125,153.00/Actual: $14,038,215.00

REFERENCE NO. 2:

Client Contact:
Mr. Michael Crowley, District Manager
Central Broward Water Control District (CBWCD)
8020 Stirling Road
Hollywood, Florida 33024
Phone: (954) 432-5110
Email: districtmanager@centralbrowardwcd.org

Description of Work: CBWCD DISTRICT ENGINEER

Craven Thompson & Associates, Inc. has served as the District Engineer for the 22 square mile Central Broward Water Control District (CBWCD) since March 2007. In this capacity, we review and recommend approval of all drainage projects within the CBWCD; review variance requests; serve on the Development Review Committee; attend Board meetings; and prepare construction plans for capital improvement projects. Services to the District include Plan and Constructability Review; engineering ICPR studies and reports; plan review, surveying; design & permitting for capital improvement projects; construction services; inspection services; and meeting attendance.

Project Duration: 15 years (2007 – Present)

Year the Project was Completed: Not Applicable – presently we are the District Engineers

Total Cost of the Construction, Estimated and Actual: Est.: $Varies per project / Actual: $Varies per project

REFERENCE NO. 3:

Client Contact:
Mr. Daniel Pollio, Assistant Utilities Director
City of Plantation Utilities Department
400 Northwest 73rd Avenue
Plantation, Florida 33317
Phone: (954) 797-2209
Email: dpollio@plantation.org

Description of Work: PLANTATION GARDENS PHASE IIB WATERMAIN

Plantation Gardens Phase IIB - is located generally between Sunrise Boulevard, the Turnpike, Palm Tree Road, and Holly Lane. This project included the demolition of existing utilities, installation of water main and roadway/right-of-way restoration. Craven Thompson provided mobile Lidar surveying, design, permitting as well as Resident Project Representative services for 18,000 linear feet of water main, the installation of 31 new fire hydrants, and the installation of 250 new water services.

Project Duration: 1½ years

Year the Project was Completed: 2016

Total Cost of the Construction, Estimated and Actual: Est.: $2,290,631.00 / Actual: $2,005,104.00

REFERENCE NO. 4:

Client Contact:
Mr. Manga Ebbe, Project Manager
City of Hallandale Beach, Utilities and Engineering
630 NW 2nd Street
Hallandale Beach, Florida 33009
Phone: (954) 457-3043 / Email: mebbe@cohb.org

Description of Work: NE 14TH AVENUE STREETSCAPE PROJECT

The project area is along NE 14th Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project includes: Mill and overlay entire roadway (including pavement markings); on east side of NE 14th Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees; landscape screening along north, south, and west sides of the two (2) storm water pump stations. PaveDrain concrete block access drives on each side of the two (2) storm water pump stations; mid-block crosswalks; and resting areas (benches, trash cans, etc.) is included in the project. Craven Thompson provided surveying, landscape architectural, civil engineering services, and CEI services.

Project Duration: 3 years

Year the Project was Completed: 2018

Total Cost of the Construction, Estimated and Actual: Est.: $1,344,560.00 / Actual: $1,157,203.00

REFERENCE NO. 5:

Client Contact:
Mr. Giles Rhoads, P.E., Assistant Director, Water Utilities
City of Lake Worth Beach, Water Utilities Department
301 College Street
Lake Worth Beach, Florida 33460
Phone: (561) 586-1640 / Email: grhoads@lakeworthbeachfl.gov

Description of Work: 2" WATERMAIN REPLACEMENT PROGRAM, PHASE 3

Lake Worth Beach is a City situated in far eastern Palm Beach County with an aging and undersized infrastructure. The City developed a program for the replacement of all 2" diameter watermains throughout the City. This is to be accomplished in six (6) yearly phases. The City sought and secured a FDEP Drinking Water State Revolving Fund loan for the project. Craven Thompson was retained by the City to provide survey, design, permitting, DWSRF loan assistance and construction services for Phases 2 – 6 of the project. Phase 3 consisted of: 7,480 linear feet of 4" diameter main, 5,330 linear feet of 6" diameter main, 600 linear feet of 8" diameter man, 370 water services, 14 fire hydrants, 30 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.

Project Duration: 1½ years

Year the Project was Completed: 2019

Total Cost of the Construction, Estimated and Actual: Est.: $4,193,225.00 / Actual: $3,455.350.25

REFERENCE NO. 6:

Client Contact:
Ms. Kara Irwin-Ferris, AICP, Director of Building, Planning & Engineering
City of Greenacres
5800 Melaleuca Lane
Greenacres, Florida 33463
Phone: (561) 642-2054 / Email: kferris@greenacresfl.gov

Description of Work: ORIGINAL SECTION DRAINAGE IMPROVEMENTS, PHASES 1-6

The Original Section Drainage Improvements project located in the City of Greenacres is a master planned drainage improvement project for an existing 250-acre neighborhood between Jackson Ave. and Fleming Ave., from Lake Worth Road to 10th Avenue North. The Master Plan included the modeling of existing and proposed drainage improvements using ICPR computer software and developing phased improvements for the area. The project required over 4,500 LF of drainage pipe, 21,615 LF of ditch re-shaping, longs lengths of sidewalk replacement, driveway restorations, and pavement restoration. Project challenges included improving a neighborhood without a typical modern drainage system in and working with numerous franchise utility conflicts. The Phase 1 project required installation of 500 LF of 36" RCP storm pipe, 1,010 LF of 24" RCP Storm Pipe, 156 LF of 18" RCP Storm Pipe, 156 LF of 12"x18" RCP storm Pipe, significant ditch reshaping, sidewalk replacement, and replacement of outfall to LWDD canal; Phase 2 included: 6,200 LF of ditch grading and 4 culvert crossings; Phase 3 included 1,000 LF of drainage pipe; Phase 4 involved ditch reshaping and 5 culvert crossings; Phase 5 encompassed the replacement of 6 outfalls, and the restoration of 120 LF of canal; Phase 6 included the replacement of 9 outfalls, the installation of drainage pipe, and canal restoration. Craven Thompson surveyed, modeled the stormwater, designed permitted, provided bidding assistance and CEI services for the phased project.

Project Duration: 6 years

Year the Project was Completed: 2020

Total Cost of the Construction, Estimated and Actual: Est.: $1,841,517.00 / Actual: $1,637,098.00

Section 4.2.7: Minority / Women (M/WBE) Participation

MINORITY/WOMEN (M/WBE) PARTICIPATION

Craven, Thompson & Associates, Inc. is not a Minority / Women Business Enterprise; however, our subconsultants, HBC Engineering, Hillers Electrical Engineering, and Tierra South Florida, Inc. are Minority Business Enterprise with the State of Florida.



State of Florida

Minority Business Certification

HBC ENGINEERING COMPANY

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
01/19/2021 to 01/19/2023

Jonathan R. Satter, Secretary
Florida Department of Management Services

MANAGEMENT SERVICES
Office of Supplier Diversity



State of Florida

Minority Business Certification

Hillers Electrical Engineering Inc

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
08/26/2021 to 08/26/2023

Jonathan R. Satter, Secretary
Florida Department of Management Services

MANAGEMENT SERVICES
Office of Supplier Diversity



State of Florida

Minority Business Certification

Tierra South Florida, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
09/17/2021 to 09/17/2023

Jonathan R. Satter, Secretary
Florida Department of Management Services

MANAGEMENT SERVICES
Office of Supplier Diversity

Section 4.2.8: Sub-Consultants

Section 4.2.9: Required Forms

CRAVTHO-01 ANERVI

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 3/24/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Corporate Insurance Advisors, LLC 1401 E. Broward Blvd. Suite 103 Fort Lauderdale, FL 33301	PHONE (A/C, No, Ext): (954) 315-5000	FAX (A/C, No): (954) 315-5050
	E-MAIL ADDRESS: service@ciafl.net	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Hartford Casualty Insurance Company	29424
INSURER B : Hartford Ins Co of the Midwest	37478
INSURER C : Continental Casualty Co.	20443
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Craven Thompson & Associates, Inc.
3563 NW 53rd Street
Fort Lauderdale, FL 33309

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

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			21UUNOL5298	12/1/2021	12/1/2022	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 300,000
	X Data Breach Reto Dat						MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:						EMPLOYEE BENEFI	$ 2,000,000
B	AUTOMOBILE LIABILITY			21UENOL5299	12/1/2021	12/1/2022	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR			21XHUOL5300	12/1/2021	12/1/2022	EACH OCCURRENCE	$ 6,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$ 6,000,000
	DED X RETENTION $ 10,000							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			21WBOL6H4G	1/1/2022	1/1/2023	X PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N N	N/A					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
C	Prof Liab incl Poll			591918336	3/30/2022	3/30/2023	Each Claim	3,000,000
C	Prof Liab incl Poll			591918336	3/30/2022	3/30/2023	Aggregate	4,000,000

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

CERTIFICATE HOLDER

For Proposals Purposes Only

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

Mark Schwartz

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NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

> 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).
>
> 3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME	RELATIONSHIPS
None	

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Authorized Signature	Vice President, Engineering Title
Patrick J. Gibney, P.E. Name (Printed)	March 28, 2022 Date

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").
2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

Authorized Signature

Patrick J. Gibney, P.E., Vice President, Engineering
Print Name and Title

March 28, 2022
Date

E-VERIFY AFFIRMATION STATEMENT

RFP/Bid /Contract No: 12637-421

Project Description: Civil Engineering, Continuing Services Contract

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

(a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,

(b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: Craven, Thompson & Associates, Inc.

Authorized Company Person's Signature:

Authorized Company Person's Title: Vice President, Engineering

Date: March 28, 2022

9/15/2020

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PREFERENCE

Section 2-185, Code of Ordinances of the City of Fort Lauderdale, provides for a disadvantaged business enterprise preference.

In order to be considered for a DBE Preference, a bidder must include a certification from a government agency, as applicable to the DBE Preference class claimed **at the time of bid submittal.**

Upon formal request of the City, based on the application of a DBE Preference the Bidder shall, within **ten (10)** calendar days, submit the following documentation to the DBE Class claimed:

a) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **or** State of Florida active registration **and/or**

b) List of the names of all employees of the bidder and evidence of employees' residences within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the disadvantaged business enterprise preference.

THE COMPLETE DBE PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-185EQOPDIBUEN&showChanges=true

Definitions

a. The term "disadvantaged class 1 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the City, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

b. The term "disadvantaged class 2 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the City with full-time employees and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

c. The term "disadvantaged class 3 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

d. The term "disadvantaged class 4 enterprise" shall mean any disadvantaged business enterprise that does not qualify as a Class 1, Class 2, or Class 3 business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the disadvantaged business enterprise preference classification as indicated herein, and further certifies and agrees that it will re-affirm its preference classification annually no later than **thirty (30)** calendar days prior to the anniversary of the date of a contract awarded pursuant to this solicitation. Violation of the foregoing provision may result in contract termination.

(1) N/A (Business Name) is a disadvantaged **Class 1** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the City, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(2) N/A (Business Name) is a disadvantaged **Class 2** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the City with full-time employee(s) and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(3) N/A (Business Name) is a disadvantaged **Class 3** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(4) N/A (Business Name) is a disadvantaged **Class 4** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that does not qualify as a Class 1, Class 2, or Class 3 business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

(5) N/A (Business Name) requests a **Conditional Class 1** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

(6) N/A (Business Name) requests a **Conditional Class 2** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

BIDDER'S COMPANY: Craven, Thompson & Associates, Inc.

AUTHORIZED COMPANY PERSON:	Patrick J. Gibney, P.E.		March 28, 2022
	PRINT NAME	SIGNATURE	DATE

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below you agree with these terms.

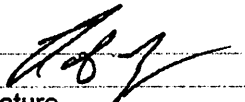
Please indicate which credit card payment you prefer:

☐ MasterCard

☐ Visa

Craven, Thompson & Associates, Inc.
Company Name

Patrick J. Gibney, P.E.
Name (Printed)


Signature

March 28, 2022
Date

Vice President, Engineering
Title

Supplier Response Form

BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through www.BidSync.com prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration) Craven, Thompson & Associates, Inc. * EIN (Optional): 59-0948029

Address: 3563 NW 53rd Street Fort Lauderdale, Florida : *

City: Fort Lauderdale * State: FL * Zip: 33309 *

Telephone No.: 954-739-6400 * FAX No.: 954-739-6409 * Email: pgibney@craventhompson.com *

Delivery: Calendar days after receipt of Purchase Order **(section 1.02 of General Conditions):** N/A

Total Bid Discount **(section 1.05 of General Conditions):** N/A

Check box if your firm qualifies for MBE / SBE / WBE **(section 1.09 of General Conditions):** ☐

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
1 *	3/11/2022 *				

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **You must also click the "Take Exception" button.**

None.

*

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal.

I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars ($500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Submitted by:

Patrick J. Gibney, P.E. *	*
Name (printed)	Signature
3/28/2022 *	Vice President, Engineering *
Date	Title

Revised 4/28/2020

Supplier Response Form
LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

Section 2-186, Code of Ordinances of the City of Fort Lauderdale, (Ordinance No. C-17-26), provides for a local business preference.

In order to be considered for a local business preference, a bidder must include the Local Business Preference Certification Statement of this bid/proposal, as applicable to the local business preference class claimed **at the time of bid submittal.**

Upon formal request of the City, based on the application of a Local Business Preference, the Bidder shall, within ten (10) calendar days, submit the following documentation for the Local Business Preference Class claimed:

a) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **and**

b) List of the names of all employees of the bidder and evidence of employees' residences within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the local business preference.

THE COMPLETE LOCAL BUSINESS PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-186LOBUPR&showChanges=true

Definitions: The term "Business" shall mean a person, firm, corporation or other business entity which is duly licensed and authorized to engage in a particular work in the State of Florida. Business shall be broken down into four (4) types of classes:

1. Class A Business – shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City, **and** shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.
2. Class B Business - shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the City, **or** shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.
3. Class C Business - shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of Broward County.
4. Class D Business – shall mean any Business that does not qualify as either a Class A, Class B, or Class C business.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local business preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this bid/proposal. Violation of the foregoing provision may result in contract termination.

(1) _____ (Business Name) is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and evidence of their addresses shall be provided within ten (10) calendar days of a formal request by the City.

(2) Craven, Thompson & Associates, Inc. (Business Name) is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186. A copy of the Business Tax Receipt **or** a complete list of full-time employees and evidence of their addresses shall be provided within ten (10) calendar days of a formal request by the City.

(3) _____ (Business Name) is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186. A copy of the Broward County Business Tax Receipt shall be provided within ten (10) calendar days of a formal request by the City.

(4) _____ (Business Name) is a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186, and does not qualify for Local Preference consideration.

(5) _____ (Business Name) requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

(6) _____ (Business Name) requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

BIDDER'S COMPANY: Craven, Thompson & Associates, Inc.

AUTHORIZED COMPANY PERSON:	Patrick J. Gibney, P.E.		March 28, 2022
	PRINT NAME	SIGNATURE	DATE

CITY OF FORT LAUDERDALE BUSINESS TAX YEAR 2021-2022

Business Tax Division
700 NW 19TH AVE. | FORT LAUDERDALE, FL 33311 | (954) 828 - 5195

Business ID: BL-1301193 **Business Name:** GIBNEY,PATRICK

Business Address: 3563 NW 53 ST

PATRICK GIBNEY
CRAVEN THOMPSON & ASSOCIATES INC
3563 NW 53 ST
FORT LAUDERDALE FL 33309

TAX CATEGORIES
408800 ENGINEER

Contact: PATRICK GIBNEY
Business Email: Tamcdonald@Craventhompson.Com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email businesstax@fortlauderdale.gov and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than $3.00, no more than $25.00.
- If you have sold your business, please email a copy of the Bill of Sale to businesstax@fortlauderdale.gov and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than $3.00, no more than $25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, 2021 THROUGH SEPTEMBER 30, 2022

DBA:
Business Name: CRAVEN THOMPSON & ASSOCIATES

Receipt #: 315-657
Business Type: ENGINEER (CORP-ENGINEERING)

Owner Name: THOMAS M MCDONALD
Business Location: 3563 NW 53 ST
FT LAUDERDALE
Business Phone: 954-739-6400

Business Opened: 09/25/2006
State/County/Cert/Reg: 0507-001228
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:

THOMAS M MCDONALD
3563 NW 53 ST
FORT LAUDERDALE, FL 33309

Receipt #WWW-20-00229168
Paid 08/06/2021 30.00

2021 - 2022

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, 2021 THROUGH SEPTEMBER 30, 2022

DBA:
Business Name: CRAVEN THOMPSON & ASSOCIATES

Receipt #: 315-657
Business Type: ENGINEER (CORP-ENGINEERING)

Owner Name: THOMAS M MCDONALD
Business Location: 3563 NW 53 ST
FT LAUDERDALE
Business Phone: 954-739-6400

Business Opened: 09/25/2006
State/County/Cert/Reg: 0507-001228
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		5		

Signature

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

Receipt #WWW-20-00229168
Paid 08/06/2021 30.00

City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

ADDENDUM NO. 1

RFP/ ITB No 12637-421

ISSUED: 3/11/2022

This addendum is being issued to make the following change(s):

1. The city prefers form sf330 but use of the form is optional as long as all information on the form is provided. Form is now provided in the solicitation.

2. Local business preference form has been added.

All other terms, conditions, and specifications remain unchanged.

Mary Kleinpeter-Zamora
Purchasing Administrator

Company Name: Craven, Thompson & Associates, Inc.
(please print)

Bidder's Signature: Patrick J. Gibney, P.E., V.P., Eng.

Date: March 28, 2022

QUALIFICATIONS OF THE SUBCONSULTANTS

HBC ENGINEERING COMPANY- TRANSPORTATION ENGINEERING

8935 NW 35th Lane, Suite 201
Doral, Florida 33172
Contact: Mr. Adebayo Coker, P.E., Project Manager
Phone: (305) 232-7932 / Email: acoker@hbcengineeringco.com

HBC has the expertise and resources to support a wide range of design / engineering services from concept through construction. HBC is structured to provide a quick, efficient response to the project needs of municipalities, governmental agencies, individuals, private developers, school districts and industries. HBC's services typically begin with the initial conceptual plan and finish with the project closeout. HBC Design / Engineering services include the following:

- Street and Highway Engineering & Design
- Traffic Control and Detour Plans
- Highway MOT
- Interchange Design
- Highway Lighting Design
- Design/Build Project
- Miscellaneous Structures Design
- Geographic Information Systems (GIS)
- Program Management
- Master Planning / Programming
- Cost Estimation
- Feasibility Studies
- Storm Water Management & Design
- Signing, Marking & Signalization, Site Analysis and Suitability
- Construction Specifications
- Construction Bidding and Award
- Construction Administration
- Facility Management Services
- Utility Coordination and Design

TRC WORLDWIDE ENGINEERING - STRUCTURAL ENGINEERING

1230 North University Drive
Plantation, Florida 33322
Contact: Ms. Donata Williams, P.E., MBA, LEED AP, Managing Principal
Phone: (954) 484-7777 / Email: dwilliams@trcww.com

TRC Worldwide Engineering, Inc. (TRC), founded in Fort Lauderdale in 1967 as Jenkins & Charland, provides structural engineering services to a wide variety of clients throughout the United States. The Structural Division of TRC has offices in Fort Lauderdale, Fort Myers, Sarasota and Tampa FL, Atlanta GA, Nashville TN, Indianapolis IN, Dallas TX, and Scottsdale AZ, and current professional structural and support staff of over fifty people. In addition, TRC Worldwide Engineering has offices in Chicago and Springfield IL, Gaithersburg MD, Allentown and York PA.

As professional engineers, the firm endorses and follows the highest ethical standards of professional engineering principles and is proud of the professional relationships we have maintained with the clients who have engaged our services.

TRC's design professionals constantly monitor, evaluate and improve management, technology, and project delivery systems to ensure our clients receive the most current and appropriate project solutions. We are known for quality control and quick response and have expertise in many complex analysis platforms such as ETABS, Ram Steel, RISA-3D, SDS/2, AutoCAD and REVIT. TRC prides itself in upholding the spirit of its philosophy.

CUMMINS CEDERBERG, INC. - ENVIRONMENTAL ENGINEERING / COASTAL ENGINEERING

888 S. Andrews Avenue, Suite 206
Fort Lauderdale, Florida 33316
Contact: Mr. Jannek Cederberg, M. Sc., P.E., President
Phone: (305) 741-6155
Email: jcederberg@cumminscederberg.com

CUMMINS | CEDERBERG
Coastal & Marine Engineering

The Cummins Cederberg team of engineers and marine scientists provides a unique and comprehensive experience, ranging from: initial field investigations such as: bathymetric surveying, above/below water structural inspections, environmental assessments, soil borings, and wave measurements through detailed analyses that utilize complex computer models to the design and permitting of coastal structures, such as: jetties, seawalls, marinas and ports. In addition, Cummins Cederberg provides expertise in contract negotiations and construction administration. This unique combination of skills allows the firm to approach projects holistically with an exceptional understanding of overall construction cost and the interaction of individual components.

Permitting, design and construction in the coastal and marine environment involves insight into many disciplines, and Cummins Cederberg brings a collection of qualifications and experience rivaled by few companies. Clients work directly with the experienced principals, who dedicate themselves to providing a superior level of quality, responsiveness and flexibility. All projects and communication are managed directly by Mr. Cummins or Mr. Cederberg. In addition, projects do not have a constant shift of people but are based on a core team; whom will take projects from start to finish - a quality that many of our clients' value highly.

Cummins Cederberg is fully equipped to conduct any environmental and engineering field investigations requiring: boats, GPS, hydrographic surveying equipment, SCUBA equipment, and tide and current measurement devices. Cummins Cederberg routinely uses advanced engineering software, including: AutoCAD, ArcGIS, RAM Structural Analyses, and MIKE21 coastal modeling.

RGD CONSULTING ENGINEERS - MECHANICAL ENGINEERING

2151 S. Alt. AIA, Suite 2000
Jupiter, Florida 33477
Contact: Mr. Nate Davenport, President
Phone: (561) 743-0165
Email: nate.davenport@rgdengineers.com

RGD
CONSULTING ENGINEERS

RGD provides structural, mechanical, electrical and plumbing engineering services. RDG's mission is to collaborate with our clients to create the best possible design for every situation. A successful project requires careful, detailed attention to all of the parameters involved and accuracy in the preparation of construction documents.

RGD's heritage dates back to 1988 when their founding principal engineer Robert Davenport started the practice in South Florida. His desire for quality and the vision to use the latest engineering practices are what set him apart from the rest. Today, RGD's 50+ design professionals provide that same passion experience and quest for quality. This allows them to deliver successful projects in markets across the region.

HILLERS ELECTRICAL ENGINEERING, INC. - ELECTRICAL ENGINEERING

23257 State Road 7, Suite 100
Boca Raton, Florida 33428
Contact: Mr. Paul Hillers, P.E., President
Phone: (561) 451-9165 / Email: phillers@hillersee.com

Hillers Electrical Engineering, Inc. has been in business since 1994 and is located in Boca Raton, Florida. HEE's staff offers unsurpassed experience, expertise, and personalized service in electrical engineering design, control application programming, and construction management. HEE's electrical design services include power, control, instrumentation, telemetry, start-up assistance, construction management services and PLC/computer programming for County and State municipal agencies as well as private industry. HEE's office is fully equipped with state-of-the-art computer systems and engineering software to help ensure a quality and cost-effective product. Software programs include AutoCAD SKM fault current/coordination/arc flash program, generator sizing programs, and 3- dimensional lighting calculations program.

HEE design staff brings vast electrical, instrumentation and telemetry design and project management experience in major expressway, DOT roadway systems, toll plaza and parking lot lighting systems; supervisory control and data acquisition (SCADA) systems; water/waste treatment plants, storm water pumping stations, lift stations, state-of-the-art distributed control systems, variable frequency speed drive analysis for facility efficiency improvements, ASR wells; implementation of commercial industrial load control program systems for large industrial power users, value engineering, energy audits, cost estimates, testing, start-ups, all types of security systems, fire alarm; low, medium and high voltage distribution systems, normal and stand by generation, short circuit calculations, fault current calculations, protective device coordination; professional and amateur sports complex lighting systems; power, control, instrumentation for major fuel storage and refining facilities in the U.S. and internationally.

MANUEL G. VERA & ASSOCIATES - PHOTOGRAMMETRY AND REMOTE SENSING

13960 SW 47th Street
Miami, Florida 33175
Contact: Mr. Manuel Vera, Jr., PSM, Principal
Phone: (305) 221-6210 / Email: mverajr@mgvera.com

Manuel G. Vera & Associates, Inc. has been providing design survey and right of way mapping services to the Central and South Florida area for over forty (40) years, servicing the Florida Department of Transportation for over thirty (30) years in Districts 4, 6, the Turnpike and recently in Districts 1, 5 and 7. In addition to the Florida Department of Transportation, Manuel G. Vera's survey experience in South Florida is second to none, including the Florida Keys and Key West. Their clientele includes Miami-Dade County, Miami-Dade Aviation Department, Miami-Dade Water and Sewer, Miami-Dade Expressway Authority, City of Miami, Broward and Palm Beach Counties and various other Municipalities, Public and Private Entities including supporting hundreds of Engineering firms.

Manuel G. Vera's business ideology is family based with a mission to provide personal, professional, quality Surveying and Mapping services that will meet and exceed client expectations by helping them achieve their future goals.

TIERRA SOUTH FLORIDA, INC. - GEOTECHNICAL ENGINEERING
2965 Vista Parkway, Suite 10
West Palm Beach, Florida 33411
Contact: Mr. Raj Krishnasamy, P.E., President
Phone: (561) 687-8536 / Email: raj@tsfgeo.com

GEOTECHNICAL
MATERIAL TESTING
INSPECTION SERVICES

Tierra South Florida, Inc. (TSF) provides a complete range of geotechnical engineering services. Their organization helps define the construction and long-term performance risks associated with subsurface conditions. TSF will evaluate and then develop recommendations regarding both existing structures and new construction. Whether infrastructure rehabilitation, buildings, airport facilities, transportation systems, landfills, dams, or other civil and private projects, their engineers have the experience and expertise to handle the most technically demanding projects. TSF owns a large, diverse fleet of 8 drill rigs with automatic hammers (truck-mounted, track-mounted, rotary, tripod, ATV, barge) capable of drilling in challenging conditions including remote, soft, marshy, over-water, difficult access or environmentally sensitive areas. They also employee MOT (Maintenance of Traffic) certified staff to safely perform drilling services in high traffic areas. TSF's geotechnical services include: laboratory testing and analysis, pavement evaluations and design, subsurface exploration, deep and shallow foundation analysis/design, and slope stability analysis, etc. TSF will be assisting Craven Thompson with the geotechnical services for the project. TSF has already performed preliminary soil borings on the park site and is therefore very familiar with the project.

INFRAMAP CORP. - S.U.E. LOCATES
1100 North Florida Mango Road, Suite D
West Palm Beach, Florida 33409
Contact: Mr. Andres M. Garcia, Senior Utility Location Manager
Phone: (561) 586-0790 / Email: agarcia@inframap.net

inframap

InfraMap is a leading provider of Utility Infrastructure Mapping and Subsurface Utility Engineering (S.U.E.) services. InfraMap collects utility infrastructure data in the field using sophisticated geophysical techniques and instrumentation (including GPR), with automated data collection gear and state of the art survey equipment. InfraMap then merges this information onto their client's base mapping in their desired format. They collect and present this data to aid their clients in reducing the design and construction cost of major infrastructure projects. Founded in 1987, InfraMap is a utility infrastructure mapping specialist. Their clients are State and Local Transportation Departments, Airports, Port Authorities and Utilities. InfraMap has performed some of the largest utility mapping projects ever undertaken by any firm. InfraMap has the resources to perform and deliver multiple large-scale projects on time, throughout the United States, as evidenced by their past and recent performance.

Solicitation 12637-421

Civil Engineering services

Bid Designation: Public

CITY OF FORT LAUDERDALE

City of Fort Lauderdale

Bid 12637-421
Civil Engineering services

Bid Number	**12637-421**
Bid Title	**Civil Engineering services**
Bid Start Date	**Feb 25, 2022 9:44:58 AM EST**
Bid End Date	**Mar 31, 2022 2:00:00 PM EDT**
Question & Answer End Date	**Mar 21, 2022 5:00:00 PM EDT**
Bid Contact	**Mary K Kleinpeter-Zamora** **Procurement Administrator** **Finance** **954-828-5189** **mkleinpeter-zamora@fortlauderdale.gov**
Prices Good for	**120 days**

Bid Comments **The City of Fort Lauderdale (City) is seeking the services of qualified consulting firm(s) to provide professional services related to a continuing contract for civil engineering consultant services. The following is a list of services that may be required on an as-needed basis as requested by the City which will be authorized by individual Task Orders for individual projects. This list shall not be construed as an exclusive list of activities that successful firm(s) may be engaged in. The City shall have the right, in its sole and absolute discretion, to require additional services that are consistent with the scope of services and those activities typically performed by civil engineers, and for which the firm(s) are experienced, qualified and able to perform.**

Water and wastewater engineering (specifically pipeline and lift-station design)
Stormwater engineering
Transportation engineering
Structural engineering (specifically seawall, dock, and bridge design)
Environmental engineering
Surveying and mapping services
Photogrammetry and remote sensing
Geotechnical engineering
Coastal engineering
Water resources engineering
Hydrology and hydraulic engineering
Mechanical engineering
Construction engineering and inspection

Note: Prices for services will be negotiated by the city and the selected consultants. No prices requested at this time.
Added on Mar 11, 2022:
Addendum 1 is dated March 11, 2022 and issued to provide form 330, local business preference certification form, and claify the use of form 330 as optional.
Added on Mar 28, 2022:
Bid closing date changed to March 31,2022.

Addendum # 1

New Documents	Local Business Preference Certification 8/17/2021 sf330.pdf

[redacted]

Addendum # 2

[redacted]

Item Response Form

Item	**12637-421--01-01 - Civil Engineering Services**
Quantity	**1 each**
Unit Price	
Delivery Location	**City of Fort Lauderdale**
	No Location Specified

Qty 1

Description
Civil Engineering Services

Request for Qualifications

RFQ # 12637-421

Civil Engineering, Continuing Services Contract

Pursuant to Section 287.055
Consultants' Competitive Negotiation Act (CCNA)

City of Fort Lauderdale

Rares Petrica, PE
Senior Project Manager

Mary Kay Kleinpeter-Zamora
Procurement Administrator
Telephone:954)828-5189
E-mail: mkleinpeter-zamora@fortlauderdale.gov

SECTION I – INTRODUCTION AND INFORMATION

1.1 Purpose

The City of Fort Lauderdale, FL (City) is actively seeking qualified, experienced, and licensed firm(s) to provide Civil engineering services as further described in Section III – Scope of Services. Those firms which are interested in submitting proposals in response to this Request for Qualifications (RFQ) shall comply with Section IV– Submittal Requirements.

1.2 Bidsync

The City uses Bidsync (www.bidsync.com) to administer the competitive solicitation process, including but not limited to soliciting bids, issuing addenda, posting results and issuing notification of an intended decision. There is no charge to register and download the RFQ from BidSync. Proposers are strongly encouraged to read the various vendor Guides and Tutorials available in BidSync well in advance of their intention of submitting a response to ensure familiarity with the use of BidSync. The City shall not be responsible for an offeror's inability to submit a response by the end date and time for any reason, including issues arising from the use of BidSync. There is no charge to proposers to register and participate in the solicitation process, nor will any fees be charged to the awarded proposer.

It is the sole responsibility of the proposer to ensure that its bid is submitted electronically through BidSync at bidsync.com no later than the time and date specified in this solicitation. **PAPER BID SUBMITTALS WILL NOT BE ACCEPTED. BIDS MUST BE SUBMITTED ELECTRONICALLY VIA** bidsync.com.

1.3 Electronic Bid Openings

This solicitation will be opened electronically via bidsync.com at the date and time indicated on the solicitation. All openings will be held on the bidsync.com platform. Once the Procurement Specialist opens the solicitation, the bid tabulations (where applicable) may be viewed immediately on a computer, laptop, cell phone, or any other device with WiFi access. The opening may also be viewed in real time through a "Microsoft teams meeting" by using the following information:

Microsoft Teams meeting

Join on your computer or mobile app

Click here to join the meeting

Or call in (audio only)

+1 954-686-7296,,229751277# United States, Fort Lauderdale

Phone Conference ID: 229 751 277#

Find a local number | Reset PIN

This meeting is facilitated by the City of Fort Lauderdale. Meeting content may be subject to Florida Statute Chapter 119 concerning public records and subject to disclosure.

Anyone requesting assistance or having further inquiry in this matter must contact the Procurement Specialist indicated on the solicitation, via the Question and Answer (Q&A) forum on bidsync.com before the Last Day for Questions indicated in the Solicitation.

1.4 There will not be a pre-proposal meeting for this RFQ.

1.5 Point of Contact

City of Fort Lauderdale, Procurement Services Division
Attn: Mary Kleinpeter-Zamora
100 N. Andrews Avenue, 6th Floor
Fort Lauderdale, FL 33301
Telephone: (954) 828-5189
E-mail:mkleinpeter-zamora@fortlauderdale.gov

For all inquiries concerning this RFQ, questions, and requests for additional information, please utilize the Q&A platform provided by BidSync at bidsync.com Questions of a material nature must be received prior to the cut-off date specified in the RFQ.. Material changes, if any, to the scope of services or bidding procedures will only be transmitted by written addendum. (See addendum section of BidSync site). **Consultants please note:** Proposals shall be submitted as stated in PART IV – Submittal Requirements. No part of your proposal can be submitted via FAX. Submission of a proposal will be considered evidence that the Consultant has familiarized itself with the nature and extent of the work, and the equipment, materials, and labor required. The entire proposal must be submitted in accordance with all requirements contained in this solicitation. The questions and answers submitted in BidSync shall become part of any contract that is created from this RFQ.

1.6 Debarred or Suspended Bidders or Proposers

The proposer certifies, by submission of a response to this solicitation, that neither it nor its principals and sub-consultants are presently debarred or suspended by any Federal department or agency.

1.7 Prohibition Against Contracting with Scrutinized Companies

Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2021), as may be amended or revised. The Contractor certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2021), as may be amended or revised, and that it is not engaged in a boycott of Israel. The City may terminate this Agreement at the City's option if the Contractor is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2021), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2021), as may be amended or revised, or is engaged in a boycott of Israel or has been engaged in business

operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2021), as may be amended or revised.

END OF SECTION

SECTION II – GENERAL TERMS AND CONDITIONS

2.1 Addenda, Changes, and Interpretations

It is the sole responsibility of each firm to notify the point of contact utilizing the Q&A forum provided by Bidsync and request modification or clarification of any ambiguity, conflict, discrepancy, omission or other error discovered in this competitive solicitation. Requests for clarification, modification, interpretation, or changes must be received prior to the Q&A deadline. Requests received after this date may not be addressed. Questions and requests for information that would not materially affect the scope of services to be performed or the solicitation process will be answered within the Q&A forum provided by Bidsync and shall be for clarification purposes only. Material changes, if any, to the scope of services or the solicitation process will only be transmitted by official written addendum issued by the City and uploaded to Bidsync as a separate addendum to the RFQ. Under no circumstances shall an oral explanation given by any City official, officer, staff, or agent be binding upon the City and should be disregarded. All addenda are a part of the competitive solicitation documents, and each firm will be bound by such addenda. It is the responsibility of each to read and comprehend all addenda issued.

2.2 Changes and Alterations

Consultant may change or withdraw a proposal at any time prior to the proposal submission deadline; however, no oral modifications will be allowed. Modifications shall not be allowed following the proposal deadline.

2.3 Consultants' Costs

The City shall not be liable for any costs incurred by consultants in responding to this RFQ, including costs incurred in connection with evaluation and award proceedings.

2.4 Mistakes

The consultant shall examine this RFQ carefully. The submission of a proposal shall be prima facie evidence that the consultant has full knowledge of the scope, nature, and quality of the work to be performed; the detailed requirements of the specifications; and the conditions under which the work is to be performed. Ignorance of the requirements will not relieve the consultant from liability and obligations under the Agreement.

2.5 Acceptance of Responses/Minor Irregularities

2.5.1 The City reserves the right to accept or reject any or all responses, part of responses, and to waive minor irregularities or variances to specifications contained in responses which do not make the response conditional in nature, and minor irregularities in the solicitation process. A minor irregularity shall be a variation from the solicitation that does not affect the price of the contract or does not give a respondent an advantage or benefit not enjoyed by other respondents, does not adversely impact the interests of other firms or does not affect the fundamental fairness of the solicitation process. The City also reserves the right to reissue a Request for Qualifications.

2.5.2 The City reserves the right to disqualify Consultant during any phase of the competitive solicitation process and terminate for cause any resulting contract upon evidence of collusion with intent to defraud or other illegal practices on the part of the Consultant.

2.6 Responsiveness

In order to be considered responsive to the solicitation, the firm's response shall fully conform in all material respects to the solicitation and all of its requirements, including all form and substance.

2.7 Responsibility

In order to be considered as a responsible firm, firm shall be fully capable to meet all of the requirements of the solicitation and subsequent contract, must possess the full capability, including financial and technical, to perform as contractually required, and must be able to fully document the ability to provide good faith performance.

2.8 Minimum Qualifications

Firms shall be in the business of Civil Engineering and must possess sufficient financial support, equipment and organization to ensure that it can satisfactorily perform the services if awarded a contract. Firms must demonstrate that they, or the principals assigned to the project, have successfully provided services with similar magnitude to those specified in the scope of services to at least one city similar in size and complexity to the City of Fort Lauderdale or can demonstrate they have the experience with large scale private sector clients and the managerial and financial ability to successfully perform the work.

Firms shall satisfy each of the following requirements cited below. Failure to do so may result in the proposal being deemed non-responsive.

2.8.1 Proposer or principals shall have relevant experience in Civil Engineering. Project manager assigned to the work must have experience in area of scope outlined in the RFQ and have served as project manager on similar projects.

2.8.2 Before awarding a contract, the City reserves the right to require that a firm submit such evidence of its qualifications as the City may deem necessary. Further, the City may consider any evidence of the financial, technical, and other qualifications and abilities of a firm or principals, including previous experiences of same with the City and performance evaluation for services, in making the award in the best interest of the City.

2.8.3 Firm or principals shall have no record of judgments, pending lawsuits against the City or criminal activities involving moral turpitude and not have any conflicts of interest that have not been waived by the City Commission.

2.8.4 Neither Firm nor any principal, officer, or stockholder shall be in arrears or in default of any debt or contract involving the City, (as a party to a contract, or otherwise); nor have failed to perform faithfully on any previous contract with the City.

2.8.5 Consultant(s) must be appropriately licensed and registered in the State of Florida in the required field of service.

2.9 Lobbying Activities

ALL CONSULTANTS PLEASE NOTE: Any consultant submitting a response to this solicitation must comply, if applicable, with City of Fort Lauderdale Ordinance No. C-11-42 & Resolution No. 07-101, Lobbying Activities. Copies of Ordinance No. C-11-42 and Resolution No. 07-101 may be obtained from the City Clerk's Office on the 7th Floor of City Hall, 100 N. Andrews Avenue, Fort Lauderdale, Florida. The Ordinance may also be viewed on the City's website at https://www.fortlauderdale.gov/home/showdocument?id=6036.

2.10 Protest Procedure

2.10.1 Any proposer who is not recommended for award of a contract and who alleges a failure by the City to follow the City's Procurement Ordinance or any applicable law, may follow the

protest procedure as found in the City's Procurement Ordinance within five (5) days after a notice of intent to award is posted on the City's web site at the following link: https://www.fortlauderdale.gov/government/departments-a-h/finance/procurement-services/notices-of-intent-to-award.

2.10.2 The complete Protest Ordinance may be found on the City's web site at the following link: https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-182DIREPRAWINAW

2.11. Public Entity Crimes

In accordance with the Public Crimes Act, Section 287.133, Florida Statutes (2021), as may be amended or revised, a person or affiliate who is a contractor, consultant or other provider, who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to the City, may not submit a bid on a contract with the City for the construction or repair of a public building or public work, may not submit bids on leases of real property to the City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with the City, and may not transact any business with the City in excess of the threshold amount provided in Section 287.017, Florida Statutes (2021), as may be amended or revised, for category two purchases for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. Violation of this section by Contractor shall result in cancellation of the City purchase and may result in Contractor debarment.

2.12 Sub-Consultants

2.12.1 A Sub-Consultant is an individual or firm contracted by the Consultant or Consultant's firm to assist in the performance of services required under this RFQ. A Sub-Consultant shall be paid through Consultant or Consultant's firm and not paid directly by the City. Sub-Consultants are permitted by the City in the performance of the services pursuant to the Agreement. Consultant must clearly reflect in its proposal, the major Sub-Consultant(s) to be utilized in the performance of required services. The City retains the right to accept or reject any Sub-Consultant proposed in the response of Successful Consultant(s) or prior to contract execution. Any and all liabilities regarding the use of a Sub-Consultant shall be borne solely by the successful consultant and insurance for each Sub-Consultant must be maintained in good standing and approved by the City throughout the duration of the Contract. Neither Successful Consultant nor any of its Sub-Consultants is considered to be employees or agents of the City. Failure to list all Sub-Consultants and provide the required information may disqualify any proposed Sub-Consultant from performing work under this RFQ.

2.12.2 Consultants shall include in their responses, the requested Sub-Consultant information and include all relevant information required of the Consultant. In addition, within five (5) working days after the identification of the award to the successful Consultant(s), the Consultant shall provide a list confirming the Sub-Consultant(s) that the successful Consultant intends to utilize in the Contract, if applicable. The list shall include, at a minimum, the name, and location of the place of business for each Sub-Consultant, the services Sub-Consultant will provide relative to any contract that may result from this RFQ, Sub-consultants' hourly rates or fees, any applicable licenses, insurance, references, ownership, and other information required of Consultant.

2.13.1 Section 2-186, Code of Ordinances of the City of Fort Lauderdale, provides for a local business preference. In order to be considered for a local business preference, a proposer

must include the Local Business Preference Certification Statement of this RFQ, as applicable to the local business preference class claimed at the time of Proposal submittal:

Upon formal request of the City, based on the application of a Local Business Preference, the Proposer shall, within ten (10) calendar days, submit the following documentation to the Local Business Preference Class claimed:

a. Copy of City of Fort Lauderdale current year business tax receipt, or Broward County current year business tax receipt, and

b. List of the names of all employees of the proposer and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of proposal submittal shall result in the Proposer being found ineligible for the local business preference.

2.13.2 Definitions

a. The term "Class A business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.

b. The term "Class B business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, or shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.

c. The term "Class C business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of Broward County.

d. The term "Class D business" shall mean any business that does not qualify as a Class A, Class B, or Class C business.

The complete Local Business Preference ordinance may be found on the City's web site at the following link:
https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-186LOBUPR

2.15 Insurance Requirements -

As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, the Consultant, at its sole expense, shall provide

insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of the Consultant. The Consultant shall provide the City a certificate of insurance evidencing such coverage. The Consultant's insurance coverage shall be primary insurance for all applicable policies. The limits of coverage under each policy maintained by the Consultant shall not be interpreted as limiting the Consultant's liability and obligations under this Agreement. All insurance policies shall be through insurers authorized or eligible to write policies in the State of Florida and possess an A.M. Best rating of A-, VII or better, subject to approval by the City's Risk Manager.

The coverages, limits, and/or endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be relied upon by the Consultant for assessing the extent or determining appropriate types and limits of coverage to protect the Consultant against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the Consultant under this Agreement.

The following insurance policies and coverages are required:

Commercial General Liability
Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- $1,000,000 each occurrence and $2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- $1,000,000 each occurrence and $2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for contractual liability and independent contractors.

The City, a Florida municipal corporation, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of the Consultant. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Professional Liability
Coverage must be afforded for Wrongful Acts in an amount not less than $1,000,000 each claim and $2,000,000 aggregate.

Consultant must keep the professional liability insurance in force until the third anniversary of expiration or early termination of this Agreement or the third anniversary of acceptance of work by the City, whichever is longer, which obligation shall survive expiration or early termination of this Agreement.

Business Automobile Liability
Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than $1,000,000 combined single limit each accident.

If the Consultant does not own vehicles, the Consultant shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Workers' Compensation and Employer's Liability

Coverage must be afforded per Chapter 440, Florida Statutes. Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute.

The Consultant waives, and the Consultant shall ensure that the Consultant's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

The Consultant must be in compliance with all applicable State and federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act and the Jones Act, if applicable.

Insurance Certificate Requirements

a. The Consultant shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
b. The Consultant shall provide to the City a Certificate of Insurance having a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the Consultant to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
d. In the event the Agreement term or any surviving obligation of the Consultant following expiration or early termination of the Agreement goes beyond the expiration date of the insurance policy, the Consultant shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.
e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.
f. The City shall be named as an Additional Insured on all liability policies, with the exception of Workers' Compensation.
g. The City shall be granted a Waiver of Subrogation on the Consultant's Workers' Compensation insurance policy.
h. The title of the Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:
City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301

The Consultant has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at the Consultant's expense.

If the Consultant's primary insurance policy/policies do not meet the minimum requirements, as set forth in this Agreement, the Consultant may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

The Consultant's insurance coverage shall be primary insurance as respects to the City, a Florida municipal corporation, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, a Florida municipal corporation, its officials, employees, or volunteers shall be non-contributory.

Any exclusion or provision in any insurance policy maintained by the Consultant that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the contract work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage shall be considered breach of contract. In addition, Consultant must provide to the City confirmation of coverage renewal via an updated certificate should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of Consultant's insurance policies.

The Consultant shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement to the Consultant's insurance company or companies and the City's Risk Management office, as soon as practical.

It is the Consultant's responsibility to ensure that any and all of the Consultant's independent contractors and subcontractors comply with these insurance requirements. All coverages for independent contractors and subcontractors shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of the Consultant.

NOTE: **CITY PROJECT NUMBER, PROJECT NAME AND BID NUMBER MUST APPEAR ON EACH CERTIFICATE, AND THE CITY OF FORTLAUDERDALE MUST BE NAMED ON THE CERTIFICATE AS AN "ADDITIONAL INSURED" ON GENERAL LIABILITY POLICIES.**

A Sample Insurance Certificate shall be included with the proposal to demonstrate the firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the insurance companies' names for all required coverage, and the dollar amounts of the coverage.

2.16 Insurance – Sub-consultants

Consultant shall require all of its sub-consultants to provide the aforementioned coverage as well as any other coverage that the consultant may consider necessary, and any deficiency in the coverage or policy limits of said sub-consultants will be the sole responsibility of the consultant.

2.17 Award of Contract

A Contract (the "Agreement") will be awarded in accordance with Florida Statutes, by the City Commission. The City reserves the right to execute or not execute, as applicable, a contract with the Consultant(s) that is determined to be in the City's best interests. The draft agreement is provided herein as an attachment to this RFQ. The City reserves the right to award a contract to more than one Consultant as is in the City's best interest.

2.18 Modification of Services

2.18.1 While this contract is for services provided to the department referenced in this Request for Proposals, the City may require similar work for other City departments. Successful Proposer agrees to take on such work unless such work would not be considered reasonable or become an undue burden to the Successful Proposer.

2.18.2 The City reserves the right to delete any portion of the work at any time without cause, and if such right is exercised by the City, the total fee shall be reduced in the same ratio as the estimated cost of the work deleted bears to the estimated cost of the work originally planned. If work has already been accomplished and approved by the City on any portion of a contract resulting from this RFQ, the Successful Proposer shall be paid for the work completed on the basis of the estimated percentage of completion of such portion to the total project cost.

2.18.3 The City may require additional items or services of a similar nature, but not specifically listed in the contract. The Successful Proposer agrees to provide such items or services, and shall provide the City prices on such additional items or services. If the price(s) offered are not acceptable to the City, and the situation cannot be resolved to the satisfaction of the City, the City reserves the right to procure those items or services from other vendors, or to cancel the contract upon giving the Successful Proposer thirty (30) days written notice.

2.18.4 If the Successful Proposer and the City agree on modifications or revisions to the task elements, after the City has approved work to begin on a particular task or project, and a budget has been established for that task or project, the Successful Proposer will submit a revised budget to the City for approval prior to proceeding with the work.

2.19 No Exclusive Contract

Proposer agrees and understands that the contract shall not be construed as an exclusive arrangement and further agrees that the City may, at any time, secure similar or identical services from another vendor at the City's sole option.

2.20 Unauthorized Work

The Successful Consultant(s) shall not begin work until a Contract has been awarded by the City Commission and a notice to proceed has been issued. Consultant(s) agree and understand that the issuance of a Purchase Order and/or Task Order shall be issued and provided to the Consultant(s) following Commission award.

2.21 Contract Agreement

Any subsequent contract will be subject to the Agreement included as an attachment and made a part of this RFQ.

2.22 Contract Term

The initial contract term shall commence upon final execution of the contract by the City and shall expire two (2) years from that date or the day after the current contract expires, whichever is later. The City reserves the right to extend the contract for two (2) additional two (2) year terms providing all terms conditions and specifications remain the same, both parties agree to the extension, and such extension is approved by the City.

In the event services are scheduled to end because of the expiration of this contract, the Consultant shall continue the service upon the request of the City as authorized by the awarding authority. The extension period shall not extend for more than one hundred and eighty (180) days beyond the expiration date of the existing contract. The Consultant shall be compensated for the service at the rate in effect when this extension clause is invoked by the City.

By submitting a proposal, each firm is confirming that the firm has not been placed on the convicted vendors list as described in Florida Statute §287.133 (2) (a).

2.23 Payment Method

The City shall make payment to the Contractor through utilization of the City's P-Card Program. The City has implemented a Purchasing Card (P-Card) Program utilizing the MasterCard and Visa networks. Purchases from this contract will be made utilizing the City's Purchasing Card. Consultant will receive payment from the purchasing card in the same manner as other credit card purchases.

Accordingly, Consultant must presently have the ability to accept these credit cards or take whatever steps necessary to implement the ability before the start of the contract term, or contract award by the City. All costs associated with the Consultant's participation in this purchasing program shall be borne by the Consultant. The City reserves the right to revise this program as necessary.

2.24 Payment Card Industry (PCI) Compliance

Consultant agrees to comply with all applicable state, federal and international laws, as well as industry best practices, governing the collection, access, use, disclosure, safeguarding and destruction of Protected Information.

Consultant and/or any subconsultant that handles credit card data must be, and remain, PCI compliant under the current standards and will provide documentation confirming compliance upon request by the City of Fort Lauderdale, failure to produce documentation could result in termination of the contract.

2.25 Invoices/Payment

Each invoice shall fully detail the related costs and shall specify the status of the particular task or project as of the date of the invoice with regard to the accepted schedule for that task or project. Payment will be made within forty-five (45) days after receipt of an invoice acceptable to the City, in accordance with the Florida Local Government Prompt Payment Act. If, at any time during the contract, the City shall not approve or accept the Consultant's work product, and agreement cannot be reached between the City and the Consultant to resolve the problem to the City's satisfaction, the City shall negotiate with the Consultant on a payment for the work completed and usable to the City.

2.26 Prohibition Against Contingent Fees

The architect (or registered surveyor and mapper or professional engineer, as applicable) warrants that he or she has not and will not employ or retain any company or person, other than a bona fide employee working solely for the architect (or registered surveyor and mapper, or professional engineer, as applicable) to solicit or secure an agreement pursuant to this competitive solicitation and that he or she has not and will not pay or agree to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the architect (or registered surveyor and mapper or professional engineer, as applicable) any fee, commission, percentage, gift, or other consideration contingent upon or resulting from an award or making of an agreement pursuant to this competitive solicitation.

2.27 Indemnity/Hold Harmless Agreement

The Consultant agrees to protect, defend, indemnify, and hold harmless the City and its officers, employees and agents from and against any and all losses, penalties, damages, settlements, claims, costs, charges for other expenses, or liabilities of every and any kind including attorney's fees, in connection with or arising directly or indirectly out of the work agreed to or performed by Consultant under the terms of any agreement that may arise due to the bidding process. Without

limiting the foregoing, any and all such claims, suits, or other actions relating to personal injury, death, damage to property, defects in materials or workmanship, actual or alleged violations of any applicable statute, ordinance, administrative order, rule or regulation, or decree of any court shall be included in the indemnity hereunder.

2.28 Substitution of Personnel

It is the intention of the City that the Proposer's personnel proposed for the contract will be available for the contract term. In the event the Proposer wishes to substitute personnel, he shall propose personnel of equal or higher qualifications and all replacement personnel are subject to City approval. In the event substitute personnel are not satisfactory to the City and the matter cannot be resolved to the satisfaction of the City, the City reserves the right to cancel the Contract for cause. See Section 5.09 General Conditions.

In the event the Proposer wishes to substitute trained, qualified, personnel for those listed in the proposal, the City shall receive prior notification and have the right to review, test and approve such substitutions, if deemed necessary. If the City has reasonable evidence to believe that an employee of the Proposer is incompetent, or has performed his or her employment in an objectionable manner, the City shall have the right to require the Proposer to resolve the situation to the City's satisfaction, provided, however, that the Proposer shall not be required to institute or pursue to completion, any action if to do so would violate any law, state statute, City ordinance, contract or employment or union agreement.

2.29 Ownership of Work

The City shall have full ownership and the right to copyright, otherwise limit, reproduce, modify, sell, or use all of the work or product produced under this Contract without payment of any royalties or fees to the Consultant above the agreed hourly rates and related costs.

2.30 Canadian Companies

In the event Consultant is a corporation organized under the laws of any province of Canada or is a Canadian federal corporation, the City may enforce in the United States of America or in Canada or in both countries, a judgment entered against the Consultant. The Consultant waives any and all defenses to the City's enforcement in Canada, of a judgment entered by a court in the United States of America. All monetary amounts set forth in this Contract are in United States dollars.

2.31 Instructions

Careful attention must be given to all requested items contained in this RFQ. Proposers are invited to submit responses in accordance with the requirements of this RFQ. Please read the entire solicitation before submitting a proposal. Firms must provide a response to each requirement of the RFQ. Responses should be prepared in a concise manner with an emphasis on completeness and clarity. Firm's notes and comments may be rendered on an attachment, provided the same format of this RFQ text is followed. All responses shall be submitted electronically through Bidsync as stated in Section 4.1.

2.32 Discrepancies, Errors and Omissions

Any discrepancies, errors, or ambiguities in the RFQ or addenda should be reported in writing to the City's Procurement Services Division. Should it be necessary, a written addendum will be incorporated to the RFQ. The City will NOT be responsible for any oral instructions, clarifications, or other communications.

END OF SECTION

SECTION III - SCOPE OF SERVICES

3.1 Purpose

The City is seeking the services of a qualified consulting firm(s) to provide Professional Services related to a continuing contract for Civil Engineering consultant services. The following is a list of services that may be required on an as-needed basis as requested by the City which will be authorized by individual Task Orders for individual projects. This list shall not be construed as an exclusive list of activities that successful firm(s) may be engaged in. City shall have the right, in its sole and absolute discretion, to require additional services that are consistent with the scope of services and those activities typically performed by architects, engineers, and surveyors pursuant to Section 287.055 Florida Statutes, and for which the firm(s) are experience, qualified, and able to perform:

3.2 Scope of Services

The City is seeking statements of qualifications from capable and qualified engineering firms in response to this RFQ for the purpose of providing Civil Engineering Consultant Services for a variety of unspecified projects through a continuing services contract. Associated services typically required for complete public works projects are expected to be fulfilled by the selected firms. Multiple firms will be selected for this continuing services agreement. The City encourages small firms (based upon the U.S. Small Business Administration size standards requirements) as well as large firms and Minority Business Enterprises to submit qualifications.

The selected firms will assist with the design and implementation of municipal engineering projects. It is the intent of the City to use the selected consultants on an as-needed basis. The specific scope of work and fee schedule for each work will be individually agreed upon by the City and the consultant. The selected consultants must be able to provide all the services required of any civil engineering project and associated planning services through its own staff or sub-consultants. The City reserves the right to award specific types of projects to firms with greater documented experience in the needed engineering specialty.

3.3 Tasks

The scope of services to be provided by the Consultant in the functional areas listed above shall include, but not be limited to, the following:

a) Prepare engineering designs, calculations, plans and specifications, contract bid documents, and cost estimates, within the functional areas of interest listed in this solicitation..
b) Prepare base maps, preliminary layouts, estimates of probable costs, engineering analysis and alternatives as requested.
c) Submit construction documents as needed to the City and other required agencies having an interest or jurisdiction over the project.
d) Review, analyze, and provide recommendations to utility budgets and capital improvement plans.
e) Provide updates on changes or proposed changes to laws/regulations that may impact City's water resources and supply, treatment, distribution and storage, wastewater collection and treatment
f) Update of the large user's replacement and renewal funding for the wastewater treatment plant.
g) Update of the Capacity Analysis Report for the wastewater treatment plant.

h) Preform flood routing software modelling.
i) Prepare feasibility and conceptual planning documents.
j) Provide research, attendance at meetings, and preparation of presentation materials, reports and correspondence.
k) Prepare and/or assist with the preparation of grant applications and attendance at meetings with grant officials.
l) Assist in the review and development of ordinances.
m) Provide public education/notification assistance.
n) Prepare short and long term planning documents, master plans, or provide input to the City's master plans, capital improvement program, and maintenance needs.
o) Participate in construction administration as required by the City.
p) Prepare formal or informal feasibility studies as necessary to assist the City in responding capital improvement needs.
q) Analysis of existing infrastructure and available capacity to serve proposed capital improvement projects.
r) Prepare legal descriptions, exhibits, and surveys.
s) Provide expert witness testimony.
t) Prepare appropriate permitting documents and obtain and/or assist the City in obtaining permits from applicable agencies.
u) Represent the City with regulatory agencies.
v) Prepare periodic project status reports.
w) Prepare and furnish bidding documents and assist the City in the preparation of other related documents.
x) Attend bid openings, prepare bid tabulation sheets, and assist the City in the evaluation of bids or proposals.
y) Issue addenda as appropriate to clarify, correct, or change the bidding documents.
z) Participate in pre-construction conference as requested by the City.
aa) Review and determine acceptability of construction submittals, including shop drawings, progress schedule, schedule of values, etc.
bb) Review and provide recommendations to request for information, request for changes, and claims to the City arising during construction activities.
cc) Make periodic construction site visits for the purpose of determining general compliance with the approved drawings, plans, and specifications as requested by the City.
dd) Review as-built drawings provided by the construction contractor and provide written comments to the City.
ee) Provide services related to construction management and inspections, and/or specialty inspection.
ff) Provide project management services and act as an extension of the City's project management staff for the design, bidding, and construction management of municipal projects.

The consultant or its sub consultants shall be familiar with different agency's permitting regulations and requirements and the City's design criteria, standards and specifications.

3.4 Deliverables

The City intends to contract with multiple firms. The total amount of compensation will be negotiated with the selected consultant. No minimum amount of work or compensation will be assured to the retained consultant(s). All work products becomes the property of the City. The City reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion.

3.5 Schedule

Consultant recognizes that **TIME IS OF THE ESSENCE**. The Work on each Task Order shall commence immediately upon the Consultants receipt of an executed Task Order.

3.6 Background

Incorporated on March 27, 1911, encompassing more than 33 square miles with a population of 176,000, Fort Lauderdale is the largest of Broward County's 31 municipalities and the eighth largest city in Florida. The City covers approximately 23,000 acres of highly urbanized neighborhoods, with much of its costal area land area lying within the flood plain. The City is composed of several individual watershed areas ranging in size from 2,000 to 11,000 acres with low-lying topography and intersected by numerous canals and rivers.

3.7 Water Supply

The City of Fort Lauderdale obtains water from the Biscayne Aquifer via two (2) Well Fields. The Prospect Well Field supplies Fiveash Water Treatment Plan and the Peele Dixie Well Field supplies the Peele Dixie Membrane Plant.

3.8 Water Treatment

The City of Fort Lauderdale has two (2) Water Treatment Plants. The Fiveash Plant is a lime-softening plant that treats an average of 36 MGD and the Peele Dixie Plant is a nano-filtration plant that treats an average of 6 MGD.

3.9 Water Distribution

The City of Fort Lauderdale has approximately 780 miles of water mains, 16,000 valves, 5,500 fire hydrants, six (6) ground storage tanks, and one (1) elevated storage tank in the Water Distribution System. In addition, the City provides water for other municipalities in Broward County.

3.10 Storm Water and Wastewater Collection and Storage

The City of Fort Lauderdale operates and maintains a 330 mile wastewater collection system and a 127 mile storm water collection system serving 57,000 accounts within Fort Lauderdale, as well as several adjacent large user cities.

3.11 Wastewater Treatment The City of Fort Lauderdale operates a regional wastewater treatment plant (G. T. Lohmeyer) with a design treatment capability of 55.7 MGD serving Fort Lauderdale and other adjacent municipalities throughout Broward County.

3.12 Effluent Disposal

The City of Fort Lauderdale operates a deep well injection site consisting of five (5) wells for effluent disposal where effluent is pumped to approximately 3,500 feet below ground.

3.13 Functional Areas of Interest

The consultant shall identify in their response to this RFQ the functional areas for which it particularly wishes to specialize. Multiple firms will be selected, and multiple firms may be selected for more than one (1) functional area.

a) Water and wastewater engineering (specifically pipeline and lift-station design)
b) Stormwater engineering
c) Transportation engineering
d) Structural engineering (specifically seawall, dock, and bridge design)
e) Environmental engineering
f) Surveying and mapping services
g) Photogrammetry and remote sensing
h) Geotechnical engineering
i) Coastal engineering
j) Water resources engineering
k) Hydrology and hydraulic engineering
l) Mechanical engineering
m) Construction engineering and inspection

The consultant or its sub consultants shall be familiar with different agency's permitting regulations and requirements and the City's design criteria, standards and specifications.

3.14 Quality Assurance/Quality Control

It is the intention of the City that the design consultant is held responsible for the quality control (QC) of their work and of its sub-consultants. All sub-consultant documents and submittals shall be submitted directly to the consultant for their independent QC review. The City shall only accept submittals for review and action from the consultant.

The consultant is responsible for the professional quality, technical accuracy and coordination of all pre-design services, designs, drawings, specifications, cost estimates and other services furnished by the consultant and their sub-consultants. It is the consultant's responsibility to independently and continually QC their plans, specifications, and all other project deliverables. Upon City request, the consultant shall provide the City with a marked up set of plans and specifications showing the consultant's QC review. The mark-ups submittals shall include the names of the consultant's staff that performed the QC review for each component or functional area (e.g., structures, roadway, drainage, etc.).

3.15 Document Submittal Format

All documents generated as a result of projects will become the property of the City of Fort Lauderdale. All projects documents shall be provided in a digital and hard copy format meeting all City of Fort Lauderdale format requirements. The project drawings shall be prepared in AutoCAD, in the version current to the City Engineering Division at the time that deliverables are due, and shall meet the requirements as set forth in the City's CADD specifications for project drawings current at the time of award of the project. Plot files shall also be prepared and submitted which meet the stated City standards.

SECTION IV – SUBMITTAL REQUIREMENTS

4.1 Instructions

4.1.1 The City uses BidSync (bidsync.com) to administer the competitive solicitation process, including but not limited to soliciting proposals, issuing addenda, responding to questions/requests for information. There is no charge to register and download the RFQ from BidSync. Proposers are strongly encouraged to read the various vendor Guides and Tutorials available in BidSync well in advance of their intention of submitting a proposal to ensure familiarity with the use of BidSync. The City shall not be responsible for a proposer's inability to submit a proposal by the end date and time for any reason, including issues arising from the use of BidSync.

All proposals must be submitted electronically.

4.1.2 Careful attention must be given to all requested items contained in this RFQ. Consultants are invited to submit responses in accordance with the requirements of this RFQ. Please read entire solicitation before submitting a SOQ. Consultants must provide a response to each requirement of the RFQ. Responses should be prepared in a concise manner with an emphasis on completeness and clarity. Consultant's notes, exceptions, and comments may be rendered on an attachment, provided the same format of this RFQ text is followed

4.1.3 All information submitted by proposer shall be typewritten or provided as otherwise instructed to in the RFQ. Proposers shall use and submit any applicable or required forms provided by the City and attach such to its response. Failure to use the forms may cause the response to be rejected and deemed non-responsive.

The proposer understands that the information contained in these proposal pages is to be relied upon by the City in awarding the proposed Agreement, and such information is warranted by the proposer to be true. The proposer agrees to furnish such additional information, prior to acceptance of any proposal, relating to the qualifications of the proposer, as may be required by the City.

4.1.4 Proposals shall be submitted by an authorized representative of the firm. Proposals must be submitted in the business entity's name by the President, Partner, Officer or Representative authorized to contractually bind the business entity. Proposals shall include an attachment evidencing that the individual submitting the proposal, does in fact have the required authority stated herein.

4.1.5 In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of the City. The Proposer's response to the RFQ is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this RFQ and the Contract to be executed for this RFQ, subject to the provisions of Chapter 119.07 of the Florida Statutes.

Any language contained in the Proposer's response to the RFQ purporting to require confidentiality of any portion of the Proposer's response to the RFQ, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the RFQ constitutes a Trade Secret. The City's determination of whether an exemption applies shall be final, and the Proposer agrees to defend, indemnify, and hold harmless the City and the City's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the City's treatment of records as public records. In addition, the proposer agrees to defend, indemnify, and hold harmless the City and the City's officers, employees, and agents, against any loss or damages incurred by any person or entity as a result of the City's treatment of records as exempt from disclosure or confidential. Proposals purporting to be subject to copyright protection in full or in part will be rejected. The proposer authorizes the City to publish, copy, and reproduce any and all documents submitted to the City bearing copyright symbols or otherwise purporting to be subject to copyright protection.

EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED.

IF THE CONSULTANT 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: (954-828-5002, PRRCONTRACT@FORTLAUDERDALE.GOV, CITY CLERK'S OFFICE, 100 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301)

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 the 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 (2021), as may be amended or revised, 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 this contract if the Contractor 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 Proposer or keep and maintain public records required by the City to perform the service. If the Proposer transfers all public records to the City upon

completion of this Contract, the Proposer shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Proposer keeps and maintains public records upon completion of this Contract, the Proposer 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.

4.1.6 By submitting a response, Proposer is confirming that the firm has not been placed on the convicted vendors list as described in Section §287.133 (2) (a) Florida Statutes; that the only person(s), company or parties interested in the proposal as principals are named therein; that the proposal is made without collusion with any other person(s), company or parties submitting a proposal; that it is in all respects fair and in good faith, without collusion or fraud; and that the signer of the proposal has full authority to bind the firm.

4.2 Contents of the Proposal

The City deems certain documentation and information important in the determination of responsiveness and for the purpose of evaluating responses. Responses should seek to avoid information in excess of that requested, must be concise, and must specifically address the issues of this RFQ. The City prefers that responses be no more than 100 pages in one complete pdf document. The proposals should be organized, divided and indexed into the sections indicated herein. These are not inclusive of all the information that may be necessary to properly evaluate the response and meet the requirements of the scope of work and/or specifications. Additional documents and information should be provided as deemed appropriate by the respondent in response to specific requirements stated herein or through the RFQ.

Note: Do not include pricing - Compensation will be requested and considered only during the competitive negotiations process.

4.2.1 Table of Contents

The table of contents should outline in sequential order the major areas of the submittal, including enclosures. All pages should be consecutively numbered and correspond to the Table of Contents.

4.2.2 Executive Summary

Each offeror must submit an executive summary that identifies the business entity, its background, main office(s), and office location that will service this contract. Identify the officers, principals, supervisory staff and key individuals who will be directly involved with the work and their office locations. The executive summary should also summarize the key elements of the proposal.

4.2.3 Firm Qualifications and Experience

Respondents must provide documentation that demonstrates their ability to satisfy all of the minimum qualification requirements. A Standard Form 330 may be used to provide this information. Indicate the firm's number of years of experience in providing the professional services as it relates to the work contemplated. Provide details of past projects for agencies of similar size and scope, including information on your firm's ability to meet time and budget requirements. Indicate the firm's initiatives towards its own sustainable business practices that demonstrate a commitment to conservation. Indicate business structure, i.e. Corp., Partnership, LLC. Firm should be registered as a legal entity in the State of Florida; Minority

or Woman owned Business (if applicable); company address, phone number, fax number, e-mail address, web site, contact person(s), etc. Relative size of the firm, including management, technical and support staff; licenses and any other pertinent information shall be submitted.

Provide a comprehensive summary of the experience and qualifications of the individual(s) who will be selected to serve as the project manager(s) for the City.

4.2.4 Qualifications of the Project Team

List the members of the project team **(on a Standard Form 330 if you choose)**. Provide a list of the personnel to be used on each project and their qualifications. Providing this information on an organizational chart is recommended. A brief resume including education, experience, licenses and any other pertinent information shall be included for each team member, including sub-consultants to be assigned to each project. Explain how each project team member will contribute to the project, in what capacity, and the level of involvement they will have. Each resume should not exceed two (2) pages in length. Provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements. Submittals that do not contain such documentation may be deemed non-responsive.

4.2.5 Approach to Scope of Work

Provide in concise narrative form, your understanding of the City's needs, goals and objectives as they relate to the project, and your overall approach to accomplishing the project. Give an overview on your proposed vision, ideas and methodology. Describe your proposed approach to the project. As part of the project approach, the firm shall propose a scheduling methodology (timeline) for effectively managing and executing the work in the optimum time. Also provide information on your firm's current workload and how this project will fit into your workload. Describe available facilities, technological capabilities and other available resources you offer for the project.

4.2.6 References

Provide at least three references, preferably government agencies, for projects with similar scope as listed in this RFQ. Information should include:

- Client Name, address, contact person telephone and e-mail address (E-mail will be primary means of contact).
- Description of work.(types of projects)
- Year the project was completed.
- Total cost of the construction, estimated and actual.

Note: Do not simply include City of Fort Lauderdale work or staff as references to demonstrate your capabilities. The Committee is interested in work experience and references other than the City as well.

4.2.7 Minority/Women (M/WBE) Participation

If your firm is a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985, provide copies of your certification(s). If your firm is not a certified M/WBE, describe your company's previous efforts, as well as planned efforts in meeting M/WBE procurement goals under Florida Statutes 287.09451.

4.2.8 Sub-consultants
Consultant must clearly identify any sub-consultants that may be utilized during the term of this contract.

4.2.9 Required Forms

a. Sample Insurance Certificate
Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies' names for both Professional Liability and General Liability, and the dollar amounts of the coverage.

b. Non-Collusion Statement
This form is to be completed, if applicable, and inserted in this section.

c. Non-Discrimination Certification Form

d. E-Verify Affirmation Statement

e. Contract Payment Method

This form must be completed and returned with your proposal. Proposers must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

f. Bid/Proposal Certification
Complete and attach the Certification

4.3 By submitting a proposal, each firm is confirming that the firm has not been placed on the convicted vendors list as described in Section §287.133 (2) (a) Florida Statutes.

4.4 Before awarding a contract, the City reserves the right to require that a firm submit such evidence of its qualifications as the City may deem necessary. Further, the City may consider any evidence of the financial, technical, and other qualifications and abilities of a firm or principals, including previous experiences of same with the City and performance evaluation for services, in making the award in the best interest of the City.

END OF SECTION

SECTION V - EVALUATION AND AWARD

5.1 Evaluation Procedure

5.1.1 Evaluation of the submittals will be conducted by an Evaluation Committee, consisting of a minimum of three members of City Staff, or other persons selected by the City Manager or designee. All committee members must be present at scheduled evaluation meetings. Submittals shall be evaluated based upon the information and references contained in the proposals as submitted. Evaluation procedures shall be regulated by F.S. § 287.055, referred to as Consultant's Competitive Negotiations Act (CCNA). Any firm(s) involved in a joint venture in its proposal will be evaluated individually, as each firm of the joint venture would have to stand on its own merits.

5.1.2 The Committee shall short list no less than three (3) submittals, assuming that three or more submittals have been received, that it deems best satisfy the weighted criteria set forth herein and attempt to select the best qualified firm(s) for the particular discipline. The Committee shall then hold discussions, conduct interviews, and/or require oral presentations with all short-listed firms. The Committee shall then re-rank the short-listed firms based upon the information provided in interviews and/or presentations, the materials presented, the firm's responses to the RFQ, and deliberations of the Evaluation Committee at publicly advertised evaluation meetings. The City may request, and the firm shall provide, additional information deemed necessary by the Evaluation Committee to conduct evaluations.

5.1.3 If the City Manager or his/her designee is unable to negotiate a satisfactory contract with the first ranked firm, negotiations with that firm shall be formally terminated. Upon termination of said negotiations, negotiations shall then be undertaken with the second ranked firm, with this process being repeated until an agreement is reached which is then recommended and formally approved by the City Commission or until the short-list is exhausted in which case a new Request for Qualifications may be undertaken.

5.2 Evaluation Criteria

5.2.1 Per Florida Statute 287.055, in determining whether a firm is qualified, the agency shall consider such factors as the ability of professional personnel; whether a firm is a certified minority business enterprise; past performance; willingness to meet time and budget requirements; location; recent, current, and projected workloads of the firms; and the volume of work previously awarded to each firm by the agency, with the object of effecting an equitable distribution of contracts among qualified firms, provided such distribution does not violate the principle of selection of the most highly qualified firms. The agency may request, accept, and consider proposals for the compensation to be paid under the contract only during competitive negotiations.

5.2.2 The City uses a mathematical formula to determine the scoring for each individual responsive and responsible firm based on the weighted criteria stated herein. Each evaluation committee member will rank each firm by criteria, giving their first ranked firm as number 1, the second ranked firm a number 2, and so on. The City shall average the ranking for each criterion, for all evaluation committee members, and then multiply that average ranking by the weighted criteria identified herein. The lowest average final ranking score will determine the recommendation by the evaluation committee to the City Manager.

5.2.3 Weighted Criteria

Criteria	Percentage
Firm Qualifications and Experience	35
Project Team Experience and Qualifications	35
Methodology and Approach to Scope of Work	30

Total 100

Firm Qualifications and Experience (35%)

Respondents should submit a complete Standard Form 330 and provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements. Indicate the firm's number of years of experience in providing the professional services as it relates to the work contemplated. Provide details of past projects for agencies of similar size and scope, including information on your firm's ability to meet time and budget requirements. Indicate the firm's initiatives towards its own sustainable business practices that demonstrate a commitment to conservation. Indicate business structure, IE: Corp., Partnership, LLC. Firm should be registered as a legal entity in the State of Florida; Minority or Woman owned Business (if applicable); Company address, phone number, fax number, E-Mail address, web site, contact person(s), etc. Relative size of the firm, including management, technical and support staff; licenses and any other pertinent information shall be submitted.

Project Team Experience and Qualifications (35%)

List the members of the project team on Standard Form 330. Include a list of personnel and title on an organizational chart. Identify the personnel to be used on each project and their qualifications. A brief resume including education, experience, licenses and any other pertinent information shall be included for each team member, for each project, including subconsultant to be assigned to each project. This section shall also include details of how each project team member will contribute to the project, in what capacity, and the level of involvement they will have. Submittals that do not contain such documentation may be deemed non-responsive.

Methodology and Approach to Scope of Work (30%)

Provide in concise narrative form, your understanding of the City's needs, goals and objectives as they relate to the work contemplated, and your overall approach to accomplishing such work. Give an overview on your proposed vision, ideas and methodology. Describe your proposed approach to the work. As part of the approach, the firm shall propose a scheduling methodology (time line) for effectively managing and executing the work in the optimum time. Also provide information on your firm's current workload and how this project will fit into your workload. Describe available facilities, technological capabilities and other available resources you offer for the contemplated work. The firm must show that they are familiar with the City's policies, procedures, and design requirements as well as those of other agencies such as FDOT, FDEP, SFWMD, and Broward County.

5.3 Contract Award

5.3.1 The City reserves the right to award a contract to that Consultant who will best serve the interest of the City. The City reserves the right, based upon its deliberations and in its opinion, to accept or reject any or all submittals. The City also reserves the right to waive minor irregularities or variations of the submittal requirements and RFQ process.

5.3.2 Upon award of a contract by the City Commission, the City Manager is authorized to execute the Contract on behalf of the City.

5.3.3 The City Manager shall appoint a contract administrator or project manager for each contract to assure compliance with the contract and applicable law. The contract administrator or project manager shall review all pay requests or deny same as required prior to approval by the City Manager.

5.3.4 The Project Manager is hereby designated by the City as Rares Petrica, PE, whose address is 101 NE 3 Ave, Suite 1101 NE 3 Ave, Suite 1410, Fort Lauderdale, FL 33301, telephone number: (954) 828-6720, and email address is rpetrica@fortlauderdale.gov. The Project Manager will assume all duties and responsibilities and will have the rights and authorities assigned to the Project Manager in the Contract Documents in connection with completion of the Work in accordance with this Agreement.

END

AGREEMENT

between

City of Fort Lauderdale

and

company name

for

title

RFQ No. _____

AGREEMENT

THIS IS AN AGREEMENT made and entered into this ___day of _____, 2021, by and between:

CITY OF FORT LAUDERDALE, a Florida municipality, (hereinafter referred to as "CITY")

and

_____, a Florida Corporation (hereinafter referred to as "CONSULTANT")

WHEREAS, the City Commission of the City of Fort Lauderdale, Florida at its meeting of _____, 2021 authorized by motion the execution of this Agreement between CONSULTANT and CITY authorizing the performance of _____, RFQ No. _____, incorporated herein, (the "Agreement"); and

WHEREAS, the CONSULTANT is willing and able to render professional services for such project for the compensation and on the terms hereinafter set forth;

NOW, THEREFORE, in consideration of the mutual covenants, agreements, terms, and conditions contained herein, the Parties hereto, do agree as follows:

ARTICLE 1
DEFINITIONS AND IDENTIFICATIONS

For the purposes of this Agreement and the various covenants, conditions, terms and provisions which follow, the DEFINITIONS and IDENTIFICATIONS set forth below are assumed to be true and correct and are therefore agreed upon by the Parties.

1.1 AGREEMENT: Means this document between the CITY and CONSULTANT dated _____, and any duly authorized and executed Amendments to Agreement.

1.2 BASIC SERVICES: Services performed by CONSULTANT for authorized scope of work for the Project phase described in this Agreement and listed in Exhibit "A," Scope of Services.

1.3 CONSULTANT'S PERIODIC ESTIMATE FOR PAYMENT: A statement by CONSULTANT based on observations at the site and on review of documentation submitted by the Contractor that by its issuance recommends that CITY pay identified amounts to the Contractor for services performed by the Contractor at the Project.

1.4 CHANGE ORDER: A written order to the CONSULTANT approved by the CITY authorizing a revision of this agreement between the CITY and CONSULTANT that is directly related to the original scope of work or an adjustment in the original contract price or the contract time directly related to the original scope of work, issued on or after the effective date of this Agreement.

The CONSULTANT may review and make recommendations to the CITY on any proposed Change Orders, for approval or other appropriate action by the CITY.

1.5 CITY: The City of Fort Lauderdale, a Florida municipality.

1.6 CITY MANAGER: The City Manager of the City of Fort Lauderdale, Florida.

1.7 COMMISSION: The City Commission of the City of Fort Lauderdale, Florida, which is the governing body of the CITY government.

1.8 CONSTRUCTION COST: The total construction cost to CITY of all elements of the Project designed or specified by CONSULTANT.

1.9 CONSTRUCTION COST LIMIT: A maximum construction cost limit established by the CITY defining the maximum budget amount to which the final construction documents should be designed so as not to exceed.

1.10 CONSTRUCTION DOCUMENTS: Those working drawings and specifications and other writings setting forth in detail and prescribing the work to be done, the materials, workmanship and other requirements for construction of the entire Project, including any bidding information.

1.11 CONSULTANT: _____., the CONSULTANT selected to perform professional services pursuant to this Agreement.

1.12 CONTRACT ADMINISTRATOR: The (Dept. Director) for the City of Fort Lauderdale, or his designee. In the administration of this Agreement, as contrasted with matters of policy, all parties may rely upon instructions or determinations made by the Contract Administrator.

1.13 CONTRACTOR: One or more individuals, firms, corporations or other entities identified as such by a written agreement with CITY ("Contract for Construction") to perform the construction services required to complete the Project.

1.14 DEPARTMENT DIRECTOR: The (Dept. Director) for the City of Fort Lauderdale.

1.15 ERROR: A mistake in design, plans and/or specifications that incorporates into those documents an element that is incorrect and is deficient from the standard

of care that a professional engineer in similar circumstances, working on a similar project and location would have exercised. Also includes mistakes in design, plans, specifications and/or shop drawings review that lead to materials and/or equipment being ordered and/or delivered where additional costs are incurred.

1.16 FINAL STATEMENT OF PROBABLE CONSTRUCTION COSTS: A final cost estimate prepared by CONSULTANT during the Final Design Phase of the Project, based upon the final detailed Construction Documents of the Project.

1.17 NOTICE TO PROCEED: A written Notice to Proceed with the Project issued by the Contract Administrator.

1.18 OMISSION: A scope of work missed by CONSULTANT that is necessary for the Project, including a quantity miscalculation, which was later discovered and added by Change Order and which is deficient from the standard of care that a professional engineer in similar circumstances, working on a similar project and location would have exercised. Also includes design that was wrong, but was corrected after award to the Contractor, but before the construction process was materially affected.

1.19 ORIGINAL CONTRACT PRICE: The original bid and/or contract price as awarded to a Contractor based upon CONSULTANT'S final detailed Construction Documents of the Project.

1.20 PLANS AND SPECIFICATIONS: The documents setting forth the final design plans and specifications of the Project, including architectural, civil, structural, mechanical, electrical, communications and security systems, materials, lighting equipment, site and landscape design, and other essentials as may be appropriate, all as approved by CITY as provided in this Agreement.

1.21 PRELIMINARY PLANS: The documents prepared by CONSULTANT consisting of preliminary design drawings, renderings and other documents to fix and describe the size and character of the entire Project, and the relationship of Project components to one another and existing features.

1.22 PROJECT: An agreed scope of work for accomplishing a specific plan or development. This may include, but is not limited to, planning, architectural, engineering, and construction support services. The services to be provided by CONSULTANT shall be as defined in this Agreement and further detailed in Task Orders for individual projects or combinations of projects. The Project planning, design and construction may occur in separate phases and Task Orders at the CITY's discretion.

1.23 RESIDENT PROJECT REPRESENTATIVE: Individuals or entities selected, employed, compensated by and directed to perform services on behalf of CITY,

in monitoring the Construction Phase of the Project to completion.

1.24 SPECIFICATIONS: The specifications referred to in this agreement are the CONSTRUCTION STANDARDS AND SPECIFICATIONS, Office of the City Engineer, City of Fort Lauderdale, January 1982, including any revisions.

1.25 STATEMENT OF PROBABLE PROJECT COSTS: A document to be prepared by CONSULTANT that shall reflect a detailed statement of the total probable costs.

1.26 SUBSTANTIAL COMPLETION: The CITY will consider the work substantially complete when the Contractor submits 100% complete deliverables (i.e. Drawings, Specifications, Reports, Renderings) as described in this Agreement to the satisfaction of the City.

1.27 TASK ORDER: A document setting forth a negotiated detailed scope of services to be performed by CONSULTANT at fixed contract prices in accordance with this Agreement between the CITY and CONSULTANT.

1.28 TIME OF COMPLETION: Time in which the entire work shall be completed for each Task Order.

ARTICLE 2
PREAMBLE

In order to establish the background, context and frame of reference for this Agreement and to generally express the objectives and intentions of the respective parties hereto, the following statements, representations and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions of this Agreement which follow and may be relied upon by the parties as essential elements of the mutual considerations upon which this Agreement is based.

2.1 Pursuant to Section 287.055, Florida Statutes, CITY has formed a Committee to evaluate CONSULTANT's statement of qualifications and performance data to ensure that CONSULTANT has met the requirements of the Consultants' Competitive Negotiation Act, as set forth in Section 287.055, Florida Statutes, and has selected CONSULTANT to perform services hereunder.

ARTICLE 3
SCOPE OF SERVICES

3.1 The CONSULTANT shall perform the following professional services: (Type of Engineering Svcs.) as more specifically described in Exhibit "A," Scope of Services, attached hereto and incorporated herein, and shall include, but not be limited to, services as applicable and authorized by individual Task Orders for the individual projects in accordance with Article 6 herein. CONSULTANT shall provide all services set forth in Exhibit "A" including all necessary, incidental and related

activities and services required by the Scope of Services and contemplated in CONSULTANT's level of effort. CONSULTANT will perform the Services in accordance with standard industry practices, with the care, knowledge and skill expected of similar engineering firms. No other warranties, express or implied are made or intended.

3.2 CITY and CONSULTANT acknowledge that the Scope of Services does not delineate every detail and minor work tasks required to be performed by CONSULTANT to complete the Project. If, during the course of the performance of the services included in this Agreement, CONSULTANT determines that work should be performed to complete the Project which is in CONSULTANT's opinion, outside the level of effort originally anticipated, whether or not the Scope of Services identifies the work items, CONSULTANT shall notify Contract Administrator and obtain written approval by the CITY in a timely manner before proceeding with the work. Notice to Contract Administrator does not constitute authorization or approval by CITY to perform the work. The CITY shall not pay for any work that is not approved by the Contract Administrator in writing. If CONSULTANT proceeds with said work without notifying the Contract Administrator, said work shall be deemed to be within the original level of effort, whether specifically addressed in the Scope of Services. Notice to Contract Administrator does not constitute authorization or approval by CITY to perform the work. Performance of work by CONSULTANT outside the originally anticipated level of effort without prior written CITY approval is at CONSULTANT's sole risk.

ARTICLE 4
GENERAL PROVISIONS

4.1 Negotiations pertaining to the rates for professional services to be performed by CONSULTANT have been undertaken between CONSULTANT and CITY representatives pursuant to Section 287.055, Florida Statutes, and this Agreement incorporates the results of such negotiation.

4.2 CONSULTANT shall include CITY's specific Task Order number as part of the heading on all correspondence, invoices and drawings. All correspondence shall be directed specifically to the Contract Administrator.

ARTICLE 5
PRIORITY OF PROVISIONS

5.1 The Contract Documents are intended to include all items necessary for the proper execution and completion of the work by CONSULTANT. Any labor, services, materials, supplies, equipment or documentation that may reasonably be inferred from the Contract Documents or trade usage from prevailing custom as being required to produce the indicated result will be provided whether or not specifically called for, at no additional cost to CITY. The Contract Documents are complementary, and wherever possible the provisions of the Contract Documents shall be construed in such manner as to avoid conflicts between provisions of the various Contract Documents. In the event of any inconsistency in the Contract Documents, where such inconsistency is not clarified by change order, addendum or amendment, the Contract Documents shall be construed according to the following priorities:

First priority: Approved Change Orders, Addendums or Amendments to all related documents.

Second priority: Specifications (quality) and Drawings (location and quantity) of CONSULTANT.

Third priority: This AGREEMENT.

Fourth priority: City of Fort Lauderdale Request for Qualifications #_____.

Fifth priority: CONSULTANT's response to City of Fort Lauderdale Request for Qualifications #_____.

5.2 Anything shown on the drawings and not mentioned in the specifications or mentioned in the specifications and now shown on the drawings, shall have the same effect as if shown or mentioned respectively in both. In the event of a conflict among the Contract Documents, the latest, most stringent, and more technical requirement(s), including, but not limited to, issues of quantities or cost of the Work shall control.

Reference to standard specifications, manuals, rules, regulations, ordinances, laws or codes of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, rule, regulation, ordinance, law or code in effect at the time of permit submittal.

ARTICLE 6
TASK ORDERS

6.1 The Project will be divided into "Tasks."

6.2 Task Orders shall be jointly prepared by the CITY and CONSULTANT defining the detailed scope of services to be provided for the particular Project. Each Task Order shall be separately numbered and approved in accordance with this Agreement and all applicable CITY code requirements.

6.3 Under all Task Orders and Projects, CITY may require the CONSULTANT, by specific written authorization, and for mutually agreed upon additional compensation, to provide or assist in obtaining one or more of the following special services. These services may include, at the discretion of the CITY, the following items:

6.3.1 Providing additional copies of reports, contract drawings and documents; and

6.3.2 Assisting CITY with litigation support services arising from the planning, development, or construction.

6.4 Prior to initiating the performance of any services under this Agreement, CONSULTANT must receive a written Notice to Proceed / Purchase Order from the CITY. The CONSULTANT must receive the approval of the Contract Administrator or his designee in writing prior to beginning the performance of services in any subsequent Task Order under this Agreement.

6.5 If, in the opinion of the CITY, the CONSULTANT is improperly performing the services under a specific Task Order, or if at any time the CITY shall be of the opinion that said Task Order is being unnecessarily delayed and will not be completed within the agreed upon time, the CITY shall notify the CONSULTANT in writing. The CONSULTANT has within ten (10) working days thereafter to take such measures as will, in the judgment of the CITY, ensure satisfactory performance and completion of the work. If the CONSULTANT fails to cure within the ten (10) working days, the CITY may notify the CONSULTANT to discontinue all work under the specified Task Order. The CONSULTANT shall immediately respect said notice and stop said work and cease to have any rights in the possession of the work and shall forfeit the Task Order and any remaining monies. The CITY may then decide, after City Commission approval, to issue a new Task Order for the uncompleted work to another consultant using the remaining funds. Any excess costs arising therefrom over and above the original Task Order price shall be charged against CONSULTANT, as the original CONSULTANT.

ARTICLE 7
TERM OF AGREEMENT; TIME FOR PERFORMANCE

7.1 The initial contract term shall commence upon final execution of the contract by the City and shall expire _____ (__) years from that date. The City reserves the right to extend the contract for _____ (__) additional ____ (__) Year terms providing all terms conditions and specifications remain the same, both parties agree to the extension, and such extension is approved by the City.

In the event services are scheduled to end because of the expiration of this contract, the Contractor shall continue the service upon the request of the City as authorized by the awarding authority. The Contractor shall be compensated for the service at the rate in effect when this extension clause is invoked by the City.

7.2 CONSULTANT shall perform the services described in Task Orders within the time periods specified in the Task Order. Said time periods shall commence from the date of the Notice to Proceed for such services.

7.3 Prior to beginning the performance of any services under this Agreement, CONSULTANT must receive a Notice to Proceed. CONSULTANT must receive written approval from the Contract Administrator prior to beginning the performance of services in any subsequent phases of the Agreement. Prior to granting approval for CONSULTANT to proceed to a subsequent phase, the Contract Administrator may, at his or her sole option, require CONSULTANT to submit itemized deliverables/documents for the Contract Administrator's review.

7.4 In the event CONSULTANT is unable to complete any services because of delays resulting from untimely review by CITY or other governmental authorities having jurisdiction over the Project, and such delays are not the fault of CONSULTANT, or because of delays which were caused by factors outside the control of CONSULTANT, CITY shall grant a reasonable extension of time for completion of the services. It shall be the responsibility of the CONSULTANT to notify CITY promptly in writing whenever a delay in approval by a governmental agency is anticipated or experienced, and to inform CITY of all facts and details related to the delay.

7.5 The time for the performance of services described in assigned Task Orders shall be negotiated by the CITY and the CONSULTANT as the services are requested and authorized by the CITY.

ARTICLE 8
COMPENSATION AND METHOD OF PAYMENT

8.1 AMOUNT AND METHOD OF COMPENSATION

8.1.1 Not To Exceed Amount Compensation

CITY agrees to pay CONSULTANT as compensation for performance of all services as related to each Task Order under the terms of this Agreement a Not to Exceed Amount as agreed upon per Task Order. This compensation does not include Reimbursables as described in Section 8.2. It is agreed that the method of compensation is that of "Not to Exceed Amount" which means that CONSULTANT shall perform all services set forth in each Task Order for total compensation in the amount of or less than that stated total. The hourly rate-billing schedule to be used in negotiating each Task Order is attached as Exhibit "B" to this Agreement. As described in Section 9.1, no modification, amendment, or alteration to Exhibit "B" shall be effective unless contained in a written document prepared with the same formality as this Agreement and executed by the CITY and CONSULTANT.

A not to exceed proposal shall be accompanied by the CONSULTANT's estimate. The estimate shall detail the direct labor costs by categories of employees, work hours, and hourly rate; overhead; direct non-salary expenses including reimbursables; and profit, or as required by individual Task Order.

8.2 REIMBURSABLES

8.2.1 Direct non-salary expenses, entitled Reimbursables, directly attributable to the Project will be charged at actual cost. Reimbursable expenses are in addition to the compensation for basic services and include actual expenditures made by the CONSULTANT and the CONSULTANT'S employees directly attributable to the Project and will be charged at actual cost, without reference to the professional service fees above. CITY shall not withhold retainage from payments for Reimbursable Expenses. CONSULTANT shall be compensated for Reimbursables associated with a particular Task Order only up to the amount allocated for such Task Order. Any reimbursable or portion thereof which, when added to the Reimbursables related to a particular Task Order previously billed, exceeds the amount allocated for such Task Order shall be the responsibility of the CONSULTANT unless otherwise agreed to in writing by the Contract Administrator. Travel and subsistence expenses for the CONSULTANT, his staff and subconsultants and communication expenses, long distance telephone, courier and express mail between CONSULTANT's and subconsultants' various offices are not reimbursable under this Agreement. Reimbursables shall include only the following listed expenses unless authorized in writing by the Contract Administrator:

A. Cost of reproduction, postage and handling of drawings and specifications which are required to deliver services set forth in this Agreement, excluding reproductions for the office use of the CONSULTANT. Reimbursable printing and photocopying expenses shall include only those prints or photocopies of original documents which are (i) exchanged among CONSULTANT, CITY and other third parties retained or employed by any of them or (ii) submitted to CITY for review, approval or further distribution. Documents, which are reproduced for CONSULTANT's internal drafts, reviews, or other purposes, are not eligible for reimbursement.

B. Identifiable testing costs and special inspections approved by Contract Administrator.

C. All permit fees paid to regulatory agencies for approvals directly attributable to the Project. These permit fees do not include those permits required for the construction Contractor.

D. Overnight Delivery/Courier Charges (when CITY requires/requests this service).

8.2.2 Reimbursable subconsultant expenses are limited to the items described above when the subconsultant agreement provides for reimbursable expenses. A detailed statement of expenses must accompany any request for reimbursement. Local travel to and from the Project site or within the Tri-County Area will not be reimbursed.

8.2.3 It is acknowledged and agreed to by CONSULTANT that the dollar limitation set forth in each Task Order is a limitation upon, and describes the maximum extent of CITY's obligation to reimburse CONSULTANT for direct, nonsalary expenses, but does not constitute a limitation, of any sort, upon CONSULTANT's obligation to incur such expenses in the performance of services hereunder. If CITY or Contract Administrator requests CONSULTANT to incur expenses not contemplated in the amount for Reimbursables, CONSULTANT shall notify Contract Administrator in writing before incurring such expenses. Any such expenses shall be reviewed and approved by CITY prior to incurring such expenses.

8.3 METHOD OF BILLING

8.3.1 Not To Exceed Amount Compensation

CONSULTANT shall submit billings, which are identified by the specific project number on a monthly basis in a timely manner for all salary costs and Reimbursables attributable to the Project. These billings shall identify the nature of the work performed for each phase, subtask, deliverable and item identified in the Exhibit "A" Scope of Services or Task Order, the total hours of work performed and the employee category of the individuals

performing same. The statement shall show a summary of salary costs with accrual of the total and credits for portions paid previously. Subconsultant fees must be documented by copies of invoices or receipts, which describe the nature of the expenses and contain a project number or other identifier, which clearly indicates the expense, as identifiable to the Project. Except for meals and travel expenses, it shall be deemed unacceptable for the CONSULTANT to modify the invoice or receipt by adding a project number or other identifier. Internal expenses must be documented by appropriate CONSULTANT's cost accounting forms with a summary of charges by category. When requested, CONSULTANT shall provide backup for past and current invoices that records hours and salary costs by employee category and subconsultant fees on a task basis, so that total hours and costs by task may be determined.

8.4 METHOD OF PAYMENT

8.4.1 CITY shall pay CONSULTANT in accordance with the Florida Prompt Payment Act. To be deemed proper, all invoices must comply with the requirements set forth in this Agreement and must be submitted on the form and pursuant to instructions prescribed by Contract Administrator.

8.4.2 CITY will review CONSULTANT's invoices and, if inaccuracies or errors are discovered in said invoice, CITY will inform CONSULTANT within ten (10) working days by fax and/or by email of such inaccuracies or errors and request that revised copies of all such documents be re-submitted by CONSULTANT to CITY.

8.4.3 Payment are scheduled to be made by CITY to CONSULTANT using a credit card /CITY Procurement Card (P-Card).

8.4.4 Payment will be made to CONSULTANT at:

(CONSULTANT'S ADDRESS)

ARTICLE 9
AMENDMENTS AND CHANGES IN SCOPE OF SERVICES

9.1.1 No modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written Amendment prepared with the same formality as this Agreement and executed by the CITY and CONSULTANT.

9.1.2 CITY or CONSULTANT may request changes that would increase, decrease, or otherwise modify the Scope of Services to be provided under a Task Order. Such changes must be contained in a written amendment, executed by the Parties hereto, with the same formality and of equal dignity herewith, prior to any deviation from the terms of the Task Order including the initiation of any additional services. CITY shall

compensate CONSULTANT for such additional services as provided in Article 8.

9.1.3 In the event a dispute between the Contract Administrator and CONSULTANT arises over whether requested services constitute additional services and such dispute cannot be resolved by the Contract Administrator and CONSULTANT, such dispute shall be promptly presented to the City Manager for resolution. The City Manager's decision shall be final and binding on the Parties for amounts in the aggregate under $100,000. In the event of a dispute in an amount over $100,000, the Parties agree to use their best efforts to settle such dispute. To this effect, they shall consult and negotiate with each other, in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both Parties. If they do not reach such solution within a period of sixty (60) days, then upon notice to the other, either Party may commence litigation to resolve the dispute in Broward County, Florida. Any resolution shall be set forth in a written document in accordance with Section 9.2 above. During the pendency of any dispute, CONSULTANT shall promptly perform the disputed services.

ARTICLE 10
CONSULTANT'S RESPONSIBILITIES

10.1 The CONSULTANT, following the CITY's approval of the Construction Documents and of the Final Statement of Probable Construction Costs, shall, when so directed and authorized by the CITY, assist the CITY in estimating construction costs, reviewing proposals, and assist in awarding contracts for construction. If requested, CONSULTANT shall review and analyze the proposals received by the CITY and shall make a recommendation for any award based on the City of Fort Lauderdale Procurement Ordinance.

10.2 Estimates, opinions of probable construction or implementation costs, financial evaluations, feasibility studies or economic analyses prepared by CONSULTANT will represent its best judgment based on its experience and available information. The CITY recognizes that CONSULTANT has no control over costs of labor, materials, equipment or services furnished by others or over market conditions or CONSULTANT's methods of determining prices, and that any evaluation of a facility to be constructed or work to be performed is speculative. Accordingly, CONSULTANT does not guarantee that proposals, bids or actual costs will not vary from opinions, evaluations or studies submitted by CONSULTANT.

10.3 In the event that the lowest "best value" bid, as such term is used in the City of Fort Lauderdale Procurement Code, excluding any alternate bid items ("base bid"), exceeds the Estimated Construction Cost for a project by more than ten percent (10%), CONSULTANT shall explain, in writing, the reasons why the bids or proposals exceeded the ten percent (10%) factor following the analysis of all base bids. In such a circumstance, the CITY may at its sole discretion, exercise any one or more of the following options:

- CONSULTANT shall be required to amend at the sole cost and expense of CONSULTANT, the Construction Drawings, Technical Specifications and Supplemental Conditions to enable the project to conform to a maximum of ten (10%) above the Estimated Construction Costs of the project, such amendments to be subject to the written final acceptance and approval of same by the CITY;
- CONSULTANT shall be required to provide at the cost and expense of CONSULTANT re-bidding services and related items (including costs associated with regulatory review and approval of revised documents) as many times as requested by the CITY until the base bid of at least one "best value" bid falls within the factor of ten (10%) of the Estimated Construction Cost of the project;
- The CITY may approve an increase in the Estimated Construction Cost of the Project;
- The CITY may reject all bids or proposals and may authorize re-bidding;
- The CITY may if permitted, approve a renegotiation of the Project within a reasonable time;
- The CITY may abandon the project and terminate CONSULTANT's work authorization and Services for the Project; or
- The CITY may select as many deductive alternatives as may be necessary to bring the award within ten percent (10%) of the Estimated Construction Costs of the Project.

It is expressly understood and agreed that the redesigning services required to keep the Project within 10% of the Estimated Construction Cost shall not be considered additional services and CONSULTANT agrees that it shall not seek compensation from the CITY for such Services.

10.4 The CONSULTANT may be requested to provide the CITY with a list of recommended, prospective proposers.

10.5 The CONSULTANT may be asked to attend all pre-bid / proposal conferences.

10.6 The CONSULTANT shall recommend any addenda, through the Contract Administrator, as appropriate to clarify, correct, or change proposal /bid documents.

10.7 If pre-qualification of proposers is required as set forth in the request for proposal, CONSULTANT shall assist the CITY, if requested, in developing qualification criteria, review qualifications and recommend acceptance or rejection of the proposers. If requested, CONSULTANT shall evaluate proposals and proposers, and make recommendations regarding any award by the CITY.

10.8 The CITY shall make decisions on claims regarding interpretation of the Construction Documents, and on other matters relating to the execution and

progress of the work after receiving a recommendation from CONSULTANT. CONSULTANT may also assist in approving progress payments to the Contractor based on each Project Schedule of Values and the percentage of work completed.

10.9 The CITY shall maintain a record of all Change Orders which shall be categorized according to the various types, causes, etc. that it may be determined are useful or necessary for its purpose. Among those shall be Change Orders identified as architectural/engineering Errors or Omissions.

10.9.1 Unless otherwise agreed by both Parties in writing, it is specifically agreed that any change to the work identified as an Error on the part of CONSULTANT shall be considered for purposes of this Agreement to be an additional cost to the CITY which would not be incurred without the Error. Errors on the part of the CONSULTANT shall be rectified by the CONSULTANT with no additional cost to the CITY.

10.9.2 Unless otherwise agreed by both Parties in writing, it is further specifically agreed for purposes of this Agreement that fifteen percent (15%) of the cost of Change Orders for any item categorized as an Omission shall be considered an additional cost to the CITY which would not be incurred without the Omission. So long as the total of those two numbers (Change Order costs of Errors plus fifteen percent (15%) of Omissions) remains less than two percent (2%) of the total Construction Cost of the Project, the CITY shall not look to CONSULTANT for reimbursement for Errors and Omissions.

10.9.3 Should the sum of the two as defined above (cost of Errors plus fifteen percent (15%) of the cost of Omissions) exceed two percent (2%) of the Construction Cost, the CITY shall recover the full and total additional cost to the CITY as a result of CONSULTANT's Errors and Omissions from CONSULTANT, that being defined as the cost of Errors plus fifteen percent (15%) of the cost of Omissions above two percent (2%) of the Construction Cost.

10.9.4 To obtain such recovery, the CITY shall deduct from CONSULTANT's fee a sufficient amount to recover all such additional cost to the CITY.

10.9.5 In executing this Agreement, CONSULTANT acknowledges acceptance of these calculations and to the CITY's right to recover same as stated above. The recovery of additional costs to the CITY under this paragraph shall not limit or preclude recovery for other separate and/or additional damages which the CITY may otherwise incur.

10.9.6 The Contract Administrator's decision as to whether a Change Order is caused by an Error or caused by an Omission, taking into consideration industry standards, shall be final and binding on both Parties for amounts

in the aggregate under $100,000 per project, subject to Section 9.3. In the event of a dispute in an amount over $100,000, the Parties agree to use their best efforts to settle such dispute. To this effect, they shall consult and negotiate with each other, in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both Parties. If they do not reach such solution within a period of sixty (60) days, then upon notice to the other, either Party may commence litigation to resolve the dispute in Broward County, Florida.

ARTICLE 11
CITY'S RESPONSIBILITIES

11.1 CITY shall assist CONSULTANT by placing at CONSULTANT's disposal, all information CITY has available pertinent to the Project including previous reports and any other data relative to design or construction of the Project.

11.2 CITY shall arrange for access to, and make all provisions for, CONSULTANT to enter upon public and private property as required for CONSULTANT to perform its services.

11.3 CITY shall review the itemized deliverables/documents identified per Task Order.

11.4 CITY shall give prompt written notice to CONSULTANT whenever CITY observes or otherwise becomes aware of any development that affects the scope or timing of CONSULTANT's services or any defect in the work of the Contractor.

ARTICLE 12
MISCELLANEOUS

12.1 OWNERSHIP OF DOCUMENTS

All documents including, but not limited to, drawings, renderings, models, and specifications prepared or furnished by CONSULTANT, its dependent professional associates and consultants, pursuant to this Agreement shall be owned by the CITY.

Drawings, specifications, designs, models, photographs, reports, surveys and other data prepared in connection with this Agreement are and shall remain the property of the CITY whether the Project for which they are made is executed or not, and are subject to reuse by the CITY in accordance with Section 287.055(10) of the Florida Statutes. They are not intended or represented to be suitable for reuse by the CITY or others on extensions of this Project or on any other project without appropriate verification or adaptation. Any reuse, except for the specific purpose intended hereunder, will be at the CITY's sole risk and without liability or legal exposure to CONSULTANT or its subcontractors. This does not, however, relieve CONSULTANT of liability or legal exposure for errors, omissions,

or negligent acts made on the part of CONSULTANT in connection with the proper use of documents prepared under this Agreement. Any such verification or adaptation may entitle C O N S U L T A N T to further compensation at rates to be agreed upon by the CITY and CONSULTANT. This shall not limit the CITY's reuse of preliminary or developmental plans or ideas incorporated therein, should the Project be suspended or terminated prior to completion.

12.2 TERMINATION

12.2.2 Termination for Cause. It is expressly understood and agreed that the CITY may terminate this Agreement at any time for cause in the event that the CONSULTANT (1) violates any provisions of this Agreement or performs same in bad faith or (2) unreasonably delays the performance of the services or does not perform the services in a timely and satisfactory manner upon written notice to the CONSULTANT. Notice of termination shall be provided in accordance with Section 12.27. In the case of termination by the CITY for cause, the CONSULTANT shall be first granted a 10-working day cure period after receipt of written notice from the CITY. In the event that the Agreement is terminated, the CONSULTANT shall be entitled to be compensated for the services rendered and accepted by the CITY from the date of execution of the Agreement up to the time of termination. Such compensation shall be based on the fee as set forth above, wherever possible. For those portions of services rendered to which the applicable fee cannot be applied, payment shall be based upon the appropriate rates for the actual time spent on the Project. In the event that the CONSULTANT abandons this Agreement or through violation of any of the terms and conditions of this Agreement, causes it to be terminated, CONSULTANT shall indemnify the CITY against any and all loss pertaining to this termination.

All finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs and reports prepared by CONSULTANT shall become the property of CITY and shall be delivered by CONSULTANT to the CITY within five (5) days of CITY's request. Upon payment of such sum by CITY to CONSULTANT, CITY shall have no further duties or obligations pursuant to or arising from this Agreement.

12.2.2 This Agreement may also be terminated by CITY upon such notice as CITY deems appropriate in the event CITY or Contract Administrator determines that termination is necessary to protect the public health, safety, or welfare.

12.2.2 Notice of termination shall be provided in accordance with Section 12.27, NOTICES, except that Contract Administrator may provide a prior verbal stop work order if the Contract Administrator deems a stop work order of this Agreement in whole or in part is necessary to protect the public's health, safety, or welfare. A verbal stop work order shall be promptly confirmed in writing as set forth in Section 12.27, NOTICES.

12.2.2 Termination for Convenience. In the event this Agreement is terminated for convenience, CONSULTANT shall be paid for any services performed and accepted by the CITY to the date the Agreement is terminated. Compensation shall be withheld until all documents specified in Section 11.3 of this Agreement are provided to the CITY. Upon being notified of CITY's election to terminate, CONSULTANT shall refrain from performing further services or incurring additional expenses under the terms of this Agreement. Under no circumstances shall CITY make payment for services which have not been performed.

12.2.2 Termination by CONSULTANT. CONSULTANT shall have the right to terminate this Agreement upon substantial breach by the CITY of its obligation under this Agreement as to unreasonable delay in payment or non-payment of undisputed amounts. CONSULTANT shall have no right to terminate this Agreement for convenience of the CONSULTANT.

12.3 AUDIT RIGHT AND RETENTION OF RECORDS

CITY shall have the right to audit the books, records, and accounts of CONSULTANT that are related to this Project. CONSULTANT shall keep such books, records, and accounts as may be necessary in order to record complete and correct entries related to the Project.

CONSULTANT shall preserve and make available, at reasonable times and upon prior written notice for examination and audit by CITY all financial records, supporting documents, statistical records, and any other documents pertinent to this Agreement for the required retention period of the Florida Public Records Act (Chapter 119, Florida Statutes), if applicable, or, if the Florida Public Records Act is not applicable, for a minimum of three (3) years after termination of this Agreement. If any audit has been initiated and audit findings have not been resolved at the end of the retention period or three (3) years, whichever is longer, the books, records, and accounts shall be retained until resolution of the audit findings. If the Florida Public Records Act is determined by CITY to be applicable to CONSULTANT's records, CONSULTANT shall comply with all requirements thereof; however, no confidentiality or non-disclosure requirement of either federal or state law shall be violated by CONSULTANT. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for CITY's disallowance and recovery of any payment upon such entry.

12.4 NON-DISCRIMINATION, EQUAL EMPLOYMENT OPPORTUNITY, AND AMERICANS WITH DISABILITIES ACT

CONSULTANT shall not unlawfully discriminate against any person in its operations and activities in its use or expenditure of the funds or any portion of the funds provided by this Agreement and shall affirmatively comply with all applicable provisions of the Americans with Disabilities Act (ADA) in the course of providing any services funded in whole or in part by CITY, including Titles I and II of the ADA

(regarding nondiscrimination or the basis of disability), and all applicable regulations, guidelines, and standards.

CONSULTANT's decisions regarding the delivery of services under this Agreement shall be made without regard to or consideration of race, age, religion, color, gender, sexual orientation, national origin, marital status, physical or mental disability, political affiliation, or any other factor which cannot be lawfully or appropriately used as a basis for service delivery.

CONSULTANT shall comply with Title I of the Americans with Disabilities Act regarding nondiscrimination on the basis of disability in employment and further shall not discriminate against any employee or applicant for employment because of race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability. In addition, CONSULTANT shall take affirmative steps to ensure nondiscrimination in employment against disabled persons. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship), and accessibility.

CONSULTANT shall take affirmative action to ensure that applicants are employed, and employees are treated without regard to race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability during employment. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship), and accessibility.

12.5 MINORITY PARTICIPATION

Historically, the CITY has been able to achieve participation levels of approximately twelve percent (12%) by MBE/WBE firms in CITY projects, and in the purchase of goods and services. The CONSULTANT shall make a good faith effort to help the CITY maintain and encourage MBE/WBE participation levels consistent with such historical levels and market conditions. The CONSULTANT will be required to document all such efforts and supply the CITY with this documentation at the end of the Project, or in cases where projects are longer than one year, each CITY fiscal year.

12.6 PUBLIC ENTITY CRIMES ACT

In accordance with the Public Crimes Act, Section 287.133, Florida Statutes, a person or affiliate who is a contractor, consultant or other provider, who has been placed on the convicted vendor list following a conviction for a public entity crime

may not submit a bid on a contract to provide any goods or services to the City, may not submit a bid on a contract with the City for the construction or repair of a public building or public work, may not submit bids on leases of real property to the City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with the City, and may not transact any business with the City in excess of the threshold amount provided in Section 287.017, Florida Statutes, for category two purchases for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. Violation of this section by Contractor shall result in cancellation of the City purchase and may result in Contractor debarment.

12.7 SUBCONSULTANTS

12.7.2 CONSULTANT may subcontract certain items of work to sub-consultant. The parties expressly agree that the CONSULTANT shall submit pertinent information regarding the proposed sub-consultant, including sub-consultant's scope of work and fees, for review and approval by the CITY prior to sub-consultants proceeding with any work.

12.7.2 CONSULTANT shall utilize the subconsultants identified in the proposal that were a material part of the selection of CONSULTANT to provide the services for this Project. CONSULTANT shall obtain written approval of the Contract Administrator prior to changing or modifying the list of sub-consultants submitted by CONSULTANT.

The list of subconsultants submitted is as follows:

(NAME ALL SUB-CONSULTANTS HERE)

12.8 ASSIGNMENT AND PERFORMANCE

Neither this Agreement nor any interest herein shall be assigned, transferred, or encumbered without the written consent of the other Party, and CONSULTANT shall not subcontract any portion of the work required by this Agreement except as authorized pursuant to Section 12.7.

CONSULTANT represents that all persons delivering the services required by this Agreement have the knowledge and skills, either by training, experience, education, or a combination thereof, to adequately and competently perform the duties, obligations, and services set forth in the Scope of Services and to provide and perform such services to CITY's satisfaction for the agreed compensation.

CONSULTANT shall perform its duties, obligations, and services under this Agreement in a skillful and respectable manner. The quality of CONSULTANT's performance and all interim and final product(s) provided to or on behalf of CITY shall meet or exceed all professional standards of the State of Florida.

12.9 INDEMNIFICATION OF CITY

12.9.1 CONSULTANT shall indemnify and hold harmless CITY, its officers and employees, from liabilities, damages, losses, and costs, including but not limited to reasonable attorneys' fees, to the extent caused by the negligence, recklessness or intentional misconduct of CONSULTANT and persons employed or utilized by CONSULTANT in the performance of this Agreement. These indemnifications shall survive the term of this Agreement. In the event that any action or proceeding is brought against CITY by reason of any such claim or demand, CONSULTANT, shall, upon written notice from CITY, resist and defend such action or proceeding by counsel approved by the CITY.

12.9.2 To the extent considered necessary by Contract Administrator and CITY, any sums due the CONSULTANT under this Agreement may be retained by CITY until all of the CITY's claims for indemnification pursuant to this Agreement have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by CITY.

12.9.3The Indemnification provided above shall obligate CONSULTANT to defend at its own expense to and through appellate, supplemental or bankruptcy proceeding, or to provide for such defense, at CITY's option, any and all claims of liability and all suits and actions of every name and description covered by Section 11.9.1 above that may be brought against CITY whether performed by CONSULTANT, or persons employed or utilized by CONSULTANT.

12.10 LIMITATION OF CITY'S LIABILITY

The CITY desires to enter into this Agreement only if in so doing the CITY can place a limit on the CITY's liability for any cause of action arising out of this Agreement, so that the CITY's liability for any breach never exceeds the sum of $1,000.00. For other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the CONSULTANT expresses its willingness to enter into this Agreement with the knowledge that the CONSULTANT's recovery from the CITY to any action or claim arising from the Agreement is limited to a maximum amount of $1,000.00 less the amount of all funds actually paid by the CITY to the CONSULTANT pursuant to this Agreement. Accordingly, and notwithstanding any other term or condition of this Agreement that may suggest otherwise, the CONSULTANT agrees that the CITY shall not be liable to the CONSULTANT for damages in an amount in excess of $1,000.00, which amount

shall be reduced by the amount actually paid by the CITY to the CONSULTANT pursuant to this Agreement, for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any manner intended either to be a waiver of the limitation placed upon the CITY's liability as set forth in Section 768.28, Florida Statutes, or to extend the CITY's liability beyond the limits established in said Section 768.28; and no claim or award against the CITY shall include attorney's fees, investigative costs, extended damages, expert fees, suit costs or pre-judgment interest. Notwithstanding the foregoing, the parties agree and understand that the provisions of this Article 12.10 do not apply to monies owed, if any, for services rendered to CONSULTANT by the CITY under the provisions of this Agreement.

12.11 INSURANCE – Copy / paste from solicitation

12.12 REPRESENTATIVE OF CITY AND CONSULTANT

12.12.1 The Parties recognize that questions in the day-to-day conduct of the Project will arise. The Contract Administrator, upon CONSULTANT's request, shall advise CONSULTANT in writing of one (1) or more CITY employees to whom all communications pertaining to the day-to-day conduct of the Project shall be addressed.

12.12.2 CONSULTANT shall inform the Contract Administrator in writing of CONSULTANT's representative to whom matters involving the conduct of the Project shall be addressed.

12.13 ALL PRIOR AGREEMENTS SUPERSEDED

This document incorporates and includes all prior negotiations, correspondence, conversations, agreements or understandings applicable to the matters contained herein; and the Parties agree that there are no commitments, agreements or understandings concerning the subject matter of this Agreement that are not contained in this document. Accordingly, the Parties agree that no deviation from the terms hereof shall be predicated upon any prior representations or agreements whether oral or written.

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 of equal dignity herewith.

12.14 CONSULTANT'S STAFF

CONSULTANT will provide the key staff identified in its proposal for the Project as long as said key staff are in CONSULTANT's employment.

CONSULTANT will obtain prior written approval of Contract Administrator to change key staff. CONSULTANT shall provide Contract Administrator with such information as necessary to determine the suitability of any proposed new key staff. Contract Administrator will be reasonable in evaluating key staff qualifications.

If Contract Administrator desires to request removal of any of CONSULTANT's staff, Contract Administrator shall first meet with CONSULTANT and provide reasonable justification for said removal.

12.15 INDEPENDENT CONTRACTOR

CONSULTANT is an independent contractor under this Agreement. Services provided by CONSULTANT shall be subject to the supervision of CONSULTANT. In providing the services, CONSULTANT or its agents shall not be acting and shall not be deemed as acting 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 CONSULTANT. The Parties expressly acknowledge that it is not their intent to create any rights or obligations in any third person or entity under this Agreement.

12.16 THIRD PARTY BENEFICIARIES

Neither CONSULTANT nor CITY intends to directly or substantially benefit a third party by this Agreement. Therefore, the parties agree that there are no third-party beneficiaries to this Agreement and that no third party shall be entitled to assert a claim against either of them based upon this Agreement.

12.17 CONFLICTS

Neither CONSULTANT nor its employees shall have or hold any continuing or frequently recurring employment or contractual relationship that is substantially antagonistic or incompatible with CONSULTANT's loyal and conscientious exercise of judgment related to its performance under this Agreement.

CONSULTANT agrees that none of its officers or employees shall, during the term of this Agreement, serve as expert witness against CITY in any legal or administrative proceeding in which he or she is not a party, unless compelled by court process, nor shall such persons give sworn testimony or issue a report or writing, as an expression of his or her expert opinion, which is adverse or prejudicial to the interests of CITY or in connection with any such pending or threatened legal or administrative proceeding. The limitations of this Section shall not preclude such persons from representing themselves in any action or in any administrative or legal proceeding.

In the event CONSULTANT is permitted to utilize subconsultants to perform any services required by this Agreement, CONSULTANT agrees to prohibit such subconsultants, by written contract, from having any conflicts as within the meaning of this Section.

12.18 CONTINGENCY FEE

CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONSULTANT, to solicit or secure this Agreement 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 CONSULTANT, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For a breach or violation of this provision, the CITY shall have the right to terminate this Agreement without liability at its discretion, or to deduct from the Agreement price or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.

12.19 WAIVER OF BREACH AND MATERIALITY

Failure by CITY to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement.

CITY and CONSULTANT agree that each requirement, duty, and obligation set forth herein is substantial and important to the formation of this Agreement and, therefore, is a material term hereof.

12.20 COMPLIANCE WITH LAWS

CONSULTANT shall comply with all applicable federal, state, and local laws, codes, ordinances, rules, and regulations in performing its duties, responsibilities, and obligations related to this Agreement.

12.21 SEVERANCE

In the event this Agreement or a portion of this Agreement is found by a court of competent jurisdiction to be invalid, the remaining provisions shall continue to be effective unless CITY or CONSULTANT elects to terminate this Agreement. The election to terminate this Agreement based upon this provision shall be made within seven (7) days after the findings by the court become final.

12.22 JOINT PREPARATION

Preparation of this Agreement has been a joint effort of CITY and CONSULTANT and the resulting document shall not, solely as a matter of judicial construction, be construed more severely against one of the parties than any other.

12.23 PRIORITY OF PROVISIONS

If there is a conflict or inconsistency between any term, statement, requirement, or provision of any exhibit attached hereto, any document or events referred to herein, or any document incorporated into this Agreement by reference and a term, statement, requirement, or provision of this Agreement, the term, statement, requirement, or provision contained in Articles 1-12 of this Agreement shall prevail and be given effect.

12.24 APPLICABLE LAW AND VENUE AND WAIVER OF JURY TRIAL

This Agreement shall be construed in accordance with and governed by the laws of the State of Florida. Venue for any lawsuit by either party against the other party or otherwise arising out of this Agreement and for any other legal proceeding shall be in Broward County, Florida, or in the event of federal jurisdiction, in the Southern District of Florida. **BY ENTERING INTO THIS AGREEMENT, CONSULTANT AND CITY EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO, OR ARISING OUT OF THIS AGREEMENT.**

In the event Consultant is a corporation organized under the laws of any province of Canada or is a Canadian federal corporation, the City may enforce in the United States of America or in Canada or in both countries a judgment entered against CONSULTANT. CONSULTANT waives any and all defenses to the City's enforcement in Canada of a judgment entered by a court in the United States of America.

12.25 SOLICITATION AND EXHIBITS

The solicitation, CONSULTANT'S response to the solicitation and each exhibit referred to in this Agreement forms an essential part of this Agreement. The solicitation, CONSULTANT'S response, and exhibits, if not physically attached, should be treated as part of this Agreement, and are incorporated herein by reference.

12.26 TWO ORIGINAL AGREEMENTS

This Agreement shall be executed in two (2), signed Agreements, treated as an original.

12.27 NOTICES

Whenever either Party desires to give notice unto the other, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the Party for whom it is intended, at the place last specified, and the place for giving of notice in compliance with the provisions of this paragraph. For the present, the Parties designate the following as the respective places for giving of notice, to-wit:

CITY: _____ Director
City of Fort Lauderdale
_____
Fort Lauderdale, FL _____
Telephone: (954) 828-_____

With a copy to: City Manager
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5364

City Attorney
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5037

CONSULTANT: NAME
COMPANY.
ADDRESS
_____, Fl. 3----
Telephone (____) ___-____
Email: _____

12.28 ATTORNEY FEES

If CITY or CONSULTANT incurs any expense in enforcing the terms of this Agreement through litigation, the prevailing party in that litigation shall be reimbursed for all such costs and expenses, including but not limited to court costs, and reasonable attorney fees incurred during litigation.

12.29 PERMITS, LICENSES AND TAXES

CONSULTANT shall, at its own expense, obtain all necessary permits and licenses, pay all applicable fees, and pay all applicable sales, consumer, use and other taxes required to comply with local ordinances, state and federal law. CONSULTANT is responsible for reviewing the pertinent state statutes regarding

state taxes and for complying with all requirements therein. Any change in tax laws after the execution of this Agreement will be subject to further negotiation and CONSULTANT shall be responsible for complying with all state tax requirements.

12.30 ENVIRONMENTAL, HEALTH AND SAFETY

CONSULTANT shall maintain a safe working environment during performance of the work. CONSULTANT shall comply, and shall secure compliance by its employees, agents, and subconsultants, with all applicable environmental, health, safety and security laws and regulations, and performance conditions in this Agreement. Compliance with such requirements shall represent the minimum standard required of CONSULTANT. CONSULTANT shall be responsible for examining all requirements and determine whether additional or more stringent environmental, health, safety and security provisions are required for the work. CONSULTANT agrees to utilize protective devices as required by applicable laws, regulations, and any industry or CONSULTANT's health and safety plans and regulations, and to pay the costs and expenses thereof, and warrants that all such persons shall be fit and qualified to carry out the Work.

12.31 STANDARD OF CARE

CONSULTANT represents that he/she/it is qualified to perform the work, that CONSULTANT and his/her/its subconsultants possess current, valid state and/or local licenses to perform the Work, and that their services shall be performed in a manner consistent with that level of care and skill ordinarily exercised by other qualified consultants under similar circumstances.

12.32 TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Agreement by CONSULTANT shall act as the execution of a Truth-in-Negotiation Certificate stating that wage rates and other factual unit costs supporting the compensation of this Agreement are accurate, complete, and current at the time of contracting. The original contract price and any additions thereto shall be adjusted to exclude any significant sums, by which the CITY determines that contract price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such contract adjustments must be made within 1 year following the end of the contract.

12.33 EVALUATION

The CITY maintains the right to periodically review the performance of the CONSULTANT. This review will take into account the timely execution of Task Orders, the quality of the work performed, the cost to the CITY and the good faith efforts made by the CONSULTANT to maintain MBE/WBE participation in CITY projects. Any deficiencies in performance will be described in writing and an

opportunity afforded, where practicable, for the CONSULTANT to address and/or remedy such deficiencies.

12.34 STATUTORY COMPLIANCE

CONSULTANT shall prepare all documents and other materials for the Project in accordance with all applicable rules, laws, ordinances and governmental regulations of the State of Florida, Broward County, the City of Fort Lauderdale, Florida, and all governmental agencies having jurisdiction over the services to be provided by CONSULTANT under this Agreement or over any aspect or phase of the Project.

12.35 SCRUTINIZED COMPANIES

Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2021), as may be amended or revised. The Contractor certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2021), as may be amended or revised, and that it is not engaged in a boycott of Israel. The City may terminate this Agreement at the City's option if the Contractor is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2021), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2021), as may be amended or revised, or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2021), as may be amended or revised.

12.36 PUBLIC RECORDS

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'S OFFICE, 100 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA, 33301, PHONE: 954-828-5002, EMAIL: PRRCONTRACT@FORTLAUDERDALE.GOV.

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 the 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 (2021), as may be amended or revised, 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 this Agreement if CONSULTANT does not transfer the records to the City.

4. Upon completion of the Agreement, transfer, at no cost to the City, all public records in possession of CONSULTANT or keep and maintain public records required by the City to perform the service. If CONSULTANT transfers all public records to the City upon completion of this Agreement, CONSULTANT shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If CONSULTANT keeps and maintains public records upon completion of this Agreement, 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.

12.37 INTELLECTUAL PROPERTY

CONSULTANT shall protect and defend at CONSULTANT's expense, counsel being subject to the City's approval, and indemnify and hold harmless the City from and against any and all losses, penalties, fines, damages, settlements, judgments, claims, costs, charges, royalties, expenses, or liabilities, including any award of attorney fees and any award of costs, in connection with or arising directly or indirectly out of any infringement or allegation of infringement of any patent, copyright, or other intellectual property right in connection with the CONSULTANT's or the CITY's use of any copyrighted, patented or un-patented invention, process, article, material, or device that is manufactured, provided, or used pursuant to this Agreement. If the CONSULTANT uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs

arising from the use of such design, device, or materials in any way involved in the work.

12.38 RIGHTS IN DOCUMENTS AND WORK

Any and all reports, photographs, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of CITY; and CONSULTANT disclaims any copyright in such materials. In the event of and upon termination of this Agreement, any reports, photographs, surveys, and other data and documents prepared by CONSULTANT, whether finished or unfinished, shall become the property of City and shall be delivered by CONSULTANT to the CITY's Contract Administrator within seven (7) days of termination of this Agreement by either Party. Any compensation due to CONSULTANT shall be withheld until CONSULTANT delivers all documents to the CITY as provided herein.

12.39 REPRESENTATION OF AUTHORITY

Each individual executing this Agreement on behalf of a Party hereto hereby represents and warrants that he or she is, on the date he or she signs this Agreement, duly authorized by all necessary and appropriate action to execute this Agreement on behalf of such Party and does so with full legal authority.

12.40 NON-DISCRIMINATION

The CONSULTANT shall not, in any of its activities, including employment, discriminate against any individual on the basis of race, color, national origin, age, disability, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, marital status or any other protected classification as defined by applicable law.

1. The CONSULTANT certifies and represents that it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, (2019), as may be amended or revised, ("Section 2-187").

2. The failure of the CONSULTANT to comply with Section 2-187 shall be deemed to be a material breach of the Agreement, entitling the CITY to pursue any remedy stated below or any remedy provided under applicable law.

3. The CITY may terminate this Agreement if the CONSULTANT fails to comply with Section 2-187.

4. The CITY may retain all monies due or to become due until the CONSULTANT complies with Section 2-187.

5. The CONSULTANT may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written above.

CITY

CITY OF FORT LAUDERDALE, a Florida municipal corporation

By: _____
CHRISTOPHER J LAGERBLOOM
City Manager

ATTEST:

By: _____
DAVID R. SOLOMAN
City Clerk

Approved as to Legal Form:
Alain E. Boileau, City Attorney

By: _____
NAME
Assistant City Attorney

WITNESSES:

MARLIN Engineering, Inc, a Florida Corporation

_____

By: _____

_____
Print Name

Print Name:_____

Title:_____

_____

_____
Print Name

(CORPORATE SEAL)

STATE OF _____:

COUNTY OF _____:

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 2021, by (CONTACT) as title for (COMPANY NAME)., a (TYPE) corporation authorized to conduct business in the State of Florida.

_____
(Signature of Notary Public - State of Florida)

_____
(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally Known_____ OR Produced Identification_____
Type of Identification Produced: _____

EXHIBIT A

Scope of Services

EXHIBIT "B"

NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

> 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).
>
> 3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME	RELATIONSHIPS

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Authorized Signature

Title

Name (Printed)

Date

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").

2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.

4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.

5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

Authorized Signature

Print Name and Title

Date

E-VERIFY AFFIRMATION STATEMENT

RFP/Bid /Contract No:

Project Description:

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

(a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,

(b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name:

Authorized Company Person's Signature:

Authorized Company Person's Title:

Date:

9/15/2020

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PREFERENCE

Section 2-185, Code of Ordinances of the City of Fort Lauderdale, provides for a disadvantaged business enterprise preference.

In order to be considered for a DBE Preference, a bidder must include a certification from a government agency, as applicable to the DBE Preference class claimed **at the time of bid submittal.**

Upon formal request of the City, based on the application of a DBE Preference the Bidder shall, within **ten (10)** calendar days, submit the following documentation to the DBE Class claimed:

a) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **or** State of Florida active registration **and/or**

b) List of the names of all employees of the bidder and evidence of employees' residences within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the disadvantaged business enterprise preference.

THE COMPLETE DBE PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-185EQOPDIBUEN&showChanges=true

Definitions

a. The term "disadvantaged class 1 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the City, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

b. The term "disadvantaged class 2 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the City with full-time employees and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

c. The term "disadvantaged class 3 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

d. The term "disadvantaged class 4 enterprise" shall mean any disadvantaged business enterprise that does not qualify as a Class 1, Class 2, or Class 3 business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the disadvantaged business enterprise preference classification as indicated herein, and further certifies and agrees that it will re-affirm its preference classification annually no later than **thirty (30)** calendar days prior to the anniversary of the date of a contract awarded pursuant to this solicitation. Violation of the foregoing provision may result in contract termination.

(1) _____ (Business Name) is a disadvantaged **Class 1** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the City, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(2) _____ (Business Name) is a disadvantaged **Class 2** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the City with full-time employee(s) and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(3) _____ (Business Name) is a disadvantaged **Class 3** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(4) _____ (Business Name) is a disadvantaged **Class 4** enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that does not qualify as a Class 1, Class 2, or Class 3 business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

(5) _____ (Business Name) requests a **Conditional Class 1** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

(6) _____ (Business Name) requests a **Conditional Class 2** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

BIDDER'S COMPANY: _____

AUTHORIZED COMPANY PERSON: _____ _____ _____

PRINT NAME SIGNATURE DATE

Forms Non-Iso – revised 7/2/2021

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below you agree with these terms.

Please indicate which credit card payment you prefer:

☐ MasterCard

☐ Visa

Company Name

Name (Printed) Signature

Date Title

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

Section 2-186, Code of Ordinances of the City of Fort Lauderdale, (Ordinance No. C-17-26), provides for a local business preference.

In order to be considered for a local business preference, a bidder must include the Local Business Preference Certification Statement of this bid/proposal, as applicable to the local business preference class claimed **at the time of bid submittal.**

Upon formal request of the City, based on the application of a Local Business Preference, the Bidder shall, within ten (10) calendar days, submit the following documentation for the Local Business Preference Class claimed:

a) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **and**

b) List of the names of all employees of the bidder and evidence of employees' residences within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the local business preference.

THE COMPLETE LOCAL BUSINESS PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-186LOBUPR&showChanges=true

Definitions: The term "Business" shall mean a person, firm, corporation or other business entity which is duly licensed and authorized to engage in a particular work in the State of Florida. Business shall be broken down into four (4) types of classes:

1. Class A Business – shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City, **and** shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.
2. Class B Business - shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the City, **or** shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.
3. Class C Business - shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of Broward County.
4. Class D Business – shall mean any Business that does not qualify as either a Class A, Class B, or Class C business.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local business preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this bid/proposal. Violation of the foregoing provision may result in contract termination.

(1) _____ (Business Name) is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and evidence of their addresses shall be provided within ten (10) calendar days of a formal request by the City.

(2) _____ (Business Name) is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186. A copy of the Business Tax Receipt **or** a complete list of full-time employees and evidence of their addresses shall be provided within ten (10) calendar days of a formal request by the City.

(3) _____ (Business Name) is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186. A copy of the Broward County Business Tax Receipt shall be provided within ten (10) calendar days of a formal request by the City.

(4) _____ (Business Name) is a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec. 2-186, and does not qualify for Local Preference consideration.

(5) _____ (Business Name) requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

(6) _____ (Business Name) requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent to meet the requirements shall be provided to the City within three (3) months of entering into a contract with the City.

BIDDER'S COMPANY: _____

AUTHORIZED COMPANY PERSON: _____ _____ _____

PRINT NAME SIGNATURE DATE

Forms Non-ISO – Revised 7/2/2021

ARCHITECT-ENGINEER QUALIFICATIONS

OMB No.: 9000-0157
Expires: 12/31/2006

Public reporting burden for this collection of information is estimated to average a total of 29 hours per response (25 hours for Part 1 and 4 hours for Part 2), including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the FAR Secretariat (MVA), Regulatory and Federal Assistance Publications Division, GSA, Washington, DC 20405.

PURPOSE

Federal agencies use this form to obtain information from architect-engineer (A-E) firms about their professional qualifications. Federal agencies select firms for A-E contracts on the basis of professional qualifications as required by the Brooks A-E Act (40 U.S.C. 1101 - 1104) and Part 36 of the Federal Acquisition Regulation (FAR).

The Brooks A-E Act requires the public announcement of requirements for A-E services (with some exceptions provided by other statutes), and the selection of at least three of the most highly qualified firms based on demonstrated competence and professional qualifications according to specific criteria published in the announcement. The Act then requires the negotiation of a contract at a fair and reasonable price starting first with the most highly qualified firm.

The information used to evaluate firms is from this form and other sources, including performance evaluations, any additional data requested by the agency, and interviews with the most highly qualified firms and their references.

GENERAL INSTRUCTIONS

Part I presents the qualifications for a specific contract.

Part II presents the general qualifications of a firm or a specific branch office of a firm. Part II has two uses:

1. An A-E firm may submit Part II to the appropriate central, regional or local office of each Federal agency to be kept on file. A public announcement is not required for certain contracts, and agencies may use Part II as a basis for selecting at least three of the most highly qualified firms for discussions prior to requesting submission of Part I. Firms are encouraged to update Part II on file with agency offices, as appropriate, according to FAR Part 36. If a firm has branch offices, submit a separate Part II for each branch office seeking work.

2. Prepare a separate Part II for each firm that will be part of the team proposed for a specific contract and submitted with Part I. If a firm has branch offices, submit a separate Part II for each branch office that has a key role on the team.

INDIVIDUAL AGENCY INSTRUCTIONS

Individual agencies may supplement these instructions. For example, they may limit the number of projects or number of pages submitted in Part I in response to a public announcement for a particular project. Carefully comply with any agency instructions when preparing and submitting this form. Be as concise as possible and provide only the information requested by the agency.

DEFINITIONS

Architect-Engineer Services: Defined in FAR 2.101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in FAR 36.102.

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS

Part I - Contract-Specific Qualifications

Section A. Contract Information.

1. Title and Location. Enter the title and location of the contract for which this form is being submitted, exactly as shown in the public announcement or agency request.

2. Public Notice Date. Enter the posted date of the agency's notice on the Federal Business Opportunity website (FedBizOpps), other form of public announcement or agency request for this contract.

3. Solicitation or Project Number. Enter the agency's solicitation number and/or project number, if applicable, exactly as shown in the public announcement or agency request for this contract.

Section B. Architect-Engineer Point of Contact.

4-8. Name, Title, Name of Firm, Telephone Number, Fax (Facsimile) Number and E-mail (Electronic Mail) Address. Provide information for a representative of the prime contractor or joint venture that the agency can contact for additional information.

Section C. Proposed Team.

9-11. Firm Name, Address, and Role in This Contract. Provide the contractual relationship, name, full mailing address, and a brief description of the role of each firm that will be involved in performance of this contract. List the prime contractor or joint venture partners first. If a firm has branch offices, indicate each individual branch office that will have a key role on the team. The named subcontractors and outside associates or consultants must be used, and any change must be approved by the contracting officer. (See FAR Part 52 Clause "Subcontractors and Outside Associates and Consultants (Architect-Engineer Services)".) Attach an additional sheet in the same format as Section C if needed.

Section D. Organizational Chart of Proposed Team.

As an attachment after Section C, present an organizational chart of the proposed team showing the names and roles of all key personnel listed in Section E and the firm they are associated with as listed in Section C.

Section E. Resumes of Key Personnel Proposed for This Contract.

Complete this section for each key person who will participate in this contract. Group by firm, with personnel of the prime contractor or joint venture partner firms first. The following blocks must be completed for each resume:

12. Name. Self-explanatory.

13. Role in This Contract. Self-explanatory.

14. Years Experience. Total years of relevant experience (block 14a), and years of relevant experience with current firm, but not necessarily the same branch office (block 14b).

15. Firm Name and Location. Name, city and state of the firm where the person currently works, which must correspond with one of the firms (or branch office of a firm, if appropriate) listed in Section C.

16. Education. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.

17. Current Professional Registration. Provide information on current relevant professional registration(s) in a State or possession of the United States, Puerto Rico, or the District of Columbia according to FAR Part 36.

18. Other Professional Qualifications. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.

19. Relevant Projects. Provide information on up to five projects in which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section F for the project team if the person was not involved in any of those projects or the person worked on other projects that were more relevant than the team projects in Section F. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role (block (3)).

Section F. Example Projects Which Best Illustrate Proposed Team's Qualifications for This Contract.

Select projects where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section F for each project. Present ten projects, unless otherwise specified by the agency. Complete the following blocks for each project:

20. Example Project Key Number. Start with "1" for the first project and number consecutively.

21. Title and Location. Title and location of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.

22. Year Completed. Enter the year completed of the professional services (such as planning, engineering study, design, or surveying), and/or the year completed of construction, if applicable. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block 24).

23a. Project Owner. Project owner or user, such as a government agency or installation, an institution, a corporation or private individual.

23b. Point of Contact Name. Provide name of a person associated with the project owner or the organization which contracted for the professional services, who is very familiar with the project and the firm's (or firms') performance.

23c. Point of Contact Telephone Number Self-explanatory.

24. Brief Description of Project and Relevance to This Contract. Indicate scope, size, cost, principal elements and special features of the project. Discuss the relevance of the example project to this contract. Enter any other information requested by the agency for each example project.

25. Firms from Section C Involved with This Project. Indicate which firms (or branch offices, if appropriate) on the project team were involved in the example project, and their roles. List in the same order as Section C.

Section G. Key Personnel Participation in Example Projects.

This matrix is intended to graphically depict which key personnel identified in Section E worked on the example projects listed in Section F. Complete the following blocks (see example below).

26. and 27. Names of Key Personnel and Role in This Contract. List the names of the key personnel and their proposed roles in this contract in the same order as they appear in Section E.

28. Example Projects Listed in Section F. In the column under each project key number (see block 29) and for each key person, place an "X" under the project key number for participation in the same or similar role.

29. Example Projects Key. List the key numbers and titles of the example projects in the same order as they appear in Section F.

Section H. Additional Information.

30. Use this section to provide additional information specifically requested by the agency or to address selection criteria that are not covered by the information provided in Sections A-G.

Section I. Authorized Representative.

31. and 32. Signature of Authorized Representative and Date. An authorized representative of a joint venture or the prime contractor must sign and date the completed form. Signing attests that the information provided is current and factual, and that all firms on the proposed team agree to work on the project. Joint ventures selected for negotiations must make available a statement of participation by a principal of each member of the joint venture.

33. Name and Title. Self-explanatory.

SAMPLE ENTRIES FOR SECTION G (MATRIX)

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below first, before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Jane A. Smith	Chief Architect	X		X							
Joseph B. Williams	Chief Mech. Engineer	X	X	X	X						
Tara C. Donovan	Chief Elec. Engineer	X	X		X						

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Federal Courthouse, Denver, CO	6	XYZ Corporation Headquarters, Boston, MA
2	Justin J. Wilson Federal Building, Baton Rouge, LA	7	Founder's Museum, Newport RI

Part II - General Qualifications

See the **"General Instructions"** on page 1 for firms with branch offices. Prepare Part II for the specific branch office seeking work if the firm has branch offices.

1. Solicitation Number. If Part II is submitted for a specific contract, insert the agency's solicitation number and/or project number, if applicable, exactly as shown in the public announcement or agency request.

2a-2e. Firm (or Branch Office) Name and Address. Self-explanatory.

3. Year Established. Enter the year the firm (or branch office, if appropriate) was established under the current name.

4. DUNS Number. Insert the Data Universal Numbering System number issued by Dun and Bradstreet Information Services. Firms must have a DUNS number. See FAR Part 4.6.

5. Ownership.

a. Type. Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).

b. Small Business Status. Refer to the North American Industry Classification System (NAICS) code in the public announcement, and indicate if the firm is a small business according to the current size standard for that NAICS code (for example, Engineering Services (part of NAICS 541330), Architectural Services (NAICS 541310), Surveying and Mapping Services (NAICS 541370)). The small business categories and the internet website for the NAICS codes appear in FAR Part 19. Contact the requesting agency for any questions. Contact your local U.S. Small Business Administration office for any questions regarding Business Status.

6a-6c. Point of Contact. Provide this information for a representative of the firm that the agency can contact for additional information. The representative must be empowered to speak on contractual and policy matters.

7. Name of Firm. Enter the name of the firm if Part II is prepared for a branch office.

8a-8c. Former Firm Names. Indicate any other previous names for the firm (or branch office) during the last six years. Insert the year that this corporate name change was effective and the associated DUNS Number. This information is used to review past performance on Federal contracts.

9. Employees by Discipline. Use the relevant disciplines and associated function codes shown at the end of these instructions and list in the same numerical order. After the listed disciplines, write in any additional disciplines and leave the function code blank. List no more than 20 disciplines. Group remaining employees under "Other Employees" in column b. Each person can be counted only once according to his/her primary function. If Part II is prepared for a firm (including all branch offices), enter the number of employees by disciplines in column c(1). If Part II is prepared for a branch office, enter the number of employees by discipline in column c(2) and for the firm in column c(1).

10. Profile of Firm's Experience and Annual Average Revenue for Last 5 Years. Complete this block for the firm or branch office for which this Part II is prepared. Enter the experience categories which most accurately reflect the firm's technical capabilities and project experience. Use the relevant experience categories and associated profile codes shown at the end of these instructions, and list in the same numerical order. After the listed experience categories, write in any unlisted relevant project experience categories and leave the profile codes blank. For each type of experience, enter the appropriate revenue index number to reflect the professional services revenues received annually (averaged over the last 5 years) by the firm or branch office for performing that type of work. A particular project may be identified with one experience category or it may be broken into components, as best reflects the capabilities and types of work performed by the firm. However, do not double count the revenues received on a particular project.

11. Annual Average Professional Services Revenues of Firm for Last 3 Years. Complete this block for the firm or branch office for which this Part II is prepared. Enter the appropriate revenue index numbers to reflect the professional services revenues received annually (averaged over the last 3 years) by the firm or branch office. Indicate Federal work (performed directly for the Federal Government, either as the prime contractor or subcontractor), non-Federal work (all other domestic and foreign work, including Federally-assisted projects), and the total. If the firm has been in existence for less than 3 years, see the definition for "Annual Receipts" under FAR 19.101.

12. Authorized Representative. An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes)

Code	Description	Code	Description
01	Acoustical Engineer	32	Hydraulic Engineer
02	Administrative	33	Hydrographic Surveyor
03	Aerial Photographer	34	Hydrologist
04	Aeronautical Engineer	35	Industrial Engineer
05	Archeologist	36	Industrial Hygienist
06	Architect	37	Interior Designer
07	Biologist	38	Land Surveyor
08	CADD Technician	39	Landscape Architect
09	Cartographer	40	Materials Engineer
10	Chemical Engineer	41	Materials Handling Engineer
11	Chemist	42	Mechanical Engineer
12	Civil Engineer	43	Mining Engineer
13	Communications Engineer	44	Oceanographer
14	Computer Programmer	45	Photo Interpreter
15	Construction Inspector	46	Photogrammetrist
16	Construction Manager	47	Planner: Urban/Regional
17	Corrosion Engineer	48	Project Manager
18	Cost Engineer/Estimator	49	Remote Sensing Specialist
19	Ecologist	50	Risk Assessor
20	Economist	51	Safety/Occupational Health Engineer
21	Electrical Engineer	52	Sanitary Engineer
22	Electronics Engineer	53	Scheduler
23	Environmental Engineer	54	Security Specialist
24	Environmental Scientist	55	Soils Engineer
25	Fire Protection Engineer	56	Specifications Writer
26	Forensic Engineer	57	Structural Engineer
27	Foundation/Geotechnical Engineer	58	Technician/Analyst
28	Geodetic Surveyor	59	Toxicologist
29	Geographic Information System Specialist	60	Transportation Engineer
30	Geologist	61	Value Engineer
31	Health Facility Planner	62	Water Resources Engineer

List of Experience Categories (Profile Codes)

Code	Description
A01	Acoustics, Noise Abatement
A02	Aerial Photography; Airborne Data and Imagery Collection and Analysis
A03	Agricultural Development; Grain Storage; Farm Mechanization
A04	Air Pollution Control
A05	Airports; Navaids; Airport Lighting; Aircraft Fueling
A06	Airports; Terminals and Hangars; Freight Handling
A07	Arctic Facilities
A08	Animal Facilities
A09	Anti-Terrorism/Force Protection
A10	Asbestos Abatement
A11	Auditoriums & Theaters
A12	Automation; Controls; Instrumentation
B01	Barracks; Dormitories
B02	Bridges
C01	Cartography
C02	Cemeteries *(Planning & Relocation)*
C03	Charting: Nautical and Aeronautical
C04	Chemical Processing & Storage
C05	Child Care/Development Facilities
C06	Churches; Chapels
C07	Coastal Engineering
C08	Codes; Standards; Ordinances
C09	Cold Storage; Refrigeration and Fast Freeze
C10	Commercial Building *(low rise)*; Shopping Centers
C11	Community Facilities
C12	Communications Systems; TV; Microwave
C13	Computer Facilities; Computer Service
C14	Conservation and Resource Management
C15	Construction Management
C16	Construction Surveying
C17	Corrosion Control; Cathodic Protection; Electrolysis
C18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting
C19	Cryogenic Facilities
D01	Dams *(Concrete; Arch)*
D02	Dams *(Earth; Rock)*; Dikes; Levees
D03	Desalinization *(Process & Facilities)*
D04	Design-Build - Preparation of Requests for Proposals
D05	Digital Elevation and Terrain Model Development
D06	Digital Orthophotography
D07	Dining Halls; Clubs; Restaurants
D08	Dredging Studies and Design
E01	Ecological & Archeological Investigations
E02	Educational Facilities; Classrooms
E03	Electrical Studies and Design
E04	Electronics
E05	Elevators; Escalators; People-Movers
E06	Embassies and Chanceries
E07	Energy Conservation; New Energy Sources
E08	Engineering Economics
E09	Environmental Impact Studies, Assessments or Statements
E10	Environmental and Natural Resource Mapping
E11	Environmental Planning
E12	Environmental Remediation
E13	Environmental Testing and Analysis
F01	Fallout Shelters; Blast-Resistant Design
F02	Field Houses; Gyms; Stadiums
F03	Fire Protection
F04	Fisheries; Fish ladders
F05	Forensic Engineering
F06	Forestry & Forest products
G01	Garages; Vehicle Maintenance Facilities; Parking Decks
G02	Gas Systems (Propane; Natural, Etc.)
G03	Geodetic Surveying: Ground and Airborne
G04	Geographic Information System Services: Development, Analysis, and Data Collection
G05	Geospatial Data Conversion: Scanning, Digitizing, Compilation, Attributing, Scribing, Drafting
G06	Graphic Design
H01	Harbors; Jetties; Piers, Ship Terminal Facilities
H02	Hazardous Materials Handling and Storage
H03	Hazardous, Toxic, Radioactive Waste Remediation
H04	Heating; Ventilating; Air Conditioning
H05	Health Systems Planning
H06	Highrise; Air-Rights-Type Buildings
H07	Highways; Streets; Airfield Paving; Parking Lots
H08	Historical Preservation
H09	Hospital & Medical Facilities
H10	Hotels; Motels
H11	Housing *(Residential, Multi-Family; Apartments; Condominiums)*
H12	Hydraulics & Pneumatics
H13	Hydrographic Surveying

List of Experience Categories (Profile Codes)

Code	Description
I01	Industrial Buildings; Manufacturing Plants
I02	Industrial Processes; Quality Control
I03	Industrial Waste Treatment
I04	Intelligent Transportation Systems
I05	Interior Design; Space Planning
I06	Irrigation; Drainage
J01	Judicial and Courtroom Facilities
L01	Laboratories; Medical Research Facilities
L02	Land Surveying
L03	Landscape Architecture
L04	Libraries; Museums; Galleries
L05	Lighting (Interior; Display; Theater, Etc.)
L06	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)
M01	Mapping Location/Addressing Systems
M02	Materials Handling Systems; Conveyors; Sorters
M03	Metallurgy
M04	Microclimatology; Tropical Engineering
M05	Military Design Standards
M06	Mining & Mineralogy
M07	Missile Facilities (Silos; Fuels; Transport)
M08	Modular Systems Design; Pre-Fabricated Structures or Components
N01	Naval Architecture; Off-Shore Platforms
N02	Navigation Structures; Locks
N03	Nuclear Facilities; Nuclear Shielding
O01	Office Buildings; Industrial Parks
O02	Oceanographic Engineering
O03	Ordnance; Munitions; Special Weapons
P01	Petroleum Exploration; Refining
P02	Petroleum and Fuel (Storage and Distribution)
P03	Photogrammetry
P04	Pipelines (Cross-Country - Liquid & Gas)
P05	Planning (Community, Regional, Areawide and State)
P06	Planning (Site, Installation, and Project)
P07	Plumbing & Piping Design
P08	Prisons & Correctional Facilities
P09	Product, Machine Equipment Design
P10	Pneumatic Structures, Air-Support Buildings
P11	Postal Facilities
P12	Power Generation, Transmission, Distribution
P13	Public Safety Facilities
R01	Radar; Sonar; Radio & Radar Telescopes
R02	Radio Frequency Systems & Shieldings
R03	Railroad; Rapid Transit
R04	Recreation Facilities (Parks, Marinas, Etc.)
R05	Refrigeration Plants/Systems
R06	Rehabilitation (Buildings; Structures; Facilities)
R07	Remote Sensing
R08	Research Facilities
R09	Resources Recovery; Recycling
R10	Risk Analysis
R11	Rivers; Canals; Waterways; Flood Control
R12	Roofing
S01	Safety Engineering; Accident Studies; OSHA Studies
S02	Security Systems; Intruder & Smoke Detection
S03	Seismic Designs & Studies
S04	Sewage Collection, Treatment and Disposal
S05	Soils & Geologic Studies; Foundations
S06	Solar Energy Utilization
S07	Solid Wastes; Incineration; Landfill
S08	Special Environments; Clean Rooms, Etc.
S09	Structural Design; Special Structures
S10	Surveying; Platting; Mapping; Flood Plain Studies
S11	Sustainable Design
S12	Swimming Pools
S13	Storm Water Handling & Facilities
T01	Telephone Systems *(Rural; Mobile; Intercom, Etc.)*
T02	Testing & Inspection Services
T03	Traffic & Transportation Engineering
T04	Topographic Surveying and Mapping
T05	Towers *(Self-Supporting & Guyed Systems)*
T06	Tunnels & Subways

List of Experience Categories (Profile Codes)

Code	Description
U01	Unexploded Ordnance Remediation
U02	Urban Renewals; Community Development
U03	Utilities (Gas and Steam)
V01	Value Analysis; Life-Cycle Costing
W01	Warehouses & Depots
W02	Water Resources; Hydrology; Ground Water
W03	Water Supply; Treatment and Distribution
W04	Wind Tunnels; Research/Testing Facilities Design
Z01	Zoning; Land Use Studies

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

5. NAME OF FIRM

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check) PRIME	(Check) J-V PARTNER	(Check) SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.				☐ CHECK IF BRANCH OFFICE		
b.				☐ CHECK IF BRANCH OFFICE		
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		
f.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☐ *(Attached)*

AUTHORIZED FOR LOCAL REPRODUCTION **STANDARD FORM 330** (6/2004) **PAGE 1**

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM

15. FIRM NAME AND LOCATION *(City and State)*

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
a.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
b.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
c.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
d.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
e.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1		6	
2		7	
3		8	
4		9	
5		10	

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE	32. DATE

33. NAME AND TITLE

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME		3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET		5. OWNERSHIP	
		a. TYPE	
2c. CITY	2d. STATE / 2e. ZIP CODE	b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE		7. NAME OF FIRM *(If block 2a is a branch office)*	
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS		

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
	Other Employees		
	Total		

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	
b. Non-Federal Work	
c. Total Work	

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	b. DATE

c. NAME AND TITLE

ADDENDUM NO. 1

RFP/ ITB No 12637-421

ISSUED: 3/11/2022

This addendum is being issued to make the following change(s):

1. The city prefers form sf330 but use of the form is optional as long as all information on the form is provided. Form is now provided in the solicitation.

2. Local business preference form has been added.

All other terms, conditions, and specifications remain unchanged.

Mary Kleinpeter-Zamora
Purchasing Administrator

Company Name: _____
(please print)

Bidder's Signature: _____

Date: _____

BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through www.BidSync.com prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration) EIN (Optional):

Address:

City: State: Zip:

Telephone No.: FAX No.: Email:

Delivery: Calendar days after receipt of Purchase Order **(section 1.02 of General Conditions)**:

Total Bid Discount **(section 1.05 of General Conditions)**:

Check box if your firm qualifies for MBE / SBE / WBE **(section 1.09 of General Conditions)**: ☐

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued

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VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **You must also click the "Take Exception" button.**

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal.

I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages,

expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars ($500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed)

Signature

Date

Title

Revised 4/28/2020

ADDENDUM NO. 2

RFP/ ITB No.
TITLE: Civil Engineering services

ISSUED: March 28, 2022

This addendum is being issued to make the following change(s):

1. The opening date has been changed to March 31,2022.

All other terms, conditions, and specifications remain unchanged.

Mary Kleinpeter-Zamora
Purchasing Administrator

Company Name: _____
(please print)

Bidder's Signature: _____

Date: _____

Question and Answers for Bid #12637-421 - Civil Engineering services

Overall Bid Questions

Question 1

Are the CCNA limits for the work orders under this contract updated to reflect the new legislation? The bill increased the maximum limit for continuing contracts covered by the CCNA from an estimated per- project construction cost of $2 million to $4 million. The bill also increases the maximum limit for procuring a study using a continuing contract from $200,000 per study to $500,000 **(Submitted: Feb 28, 2022 9:54:37 AM EST)**

Answer

- The contract will be following the newest legislation with the increased amounts **(Answered: Mar 1, 2022 6:40:02 AM EST)**

Question 2

How does this contract differ from the selection of consultants under RFQ 12464-416 in June of 2021? **(Submitted: Feb 28, 2022 9:55:49 AM EST)**

Answer

- This contract will be in addition to the already existing contract **(Answered: Mar 1, 2022 6:40:02 AM EST)**

Question 3

Can you prime this contract and be a subconsultant on another team? **(Submitted: Feb 28, 2022 9:56:05 AM EST)**

Answer

- Yes **(Answered: Mar 1, 2022 6:40:02 AM EST)**

Question 4

Does the City wish to see a complete team to fulfill 3.13 Functional Areas of Interest as listed on page 18 of the RFQ or do you wish to see a firm submit only on the functional areas that they can complete in-house? **(Submitted: Feb 28, 2022 9:59:40 AM EST)**

Answer

- The team must be functional in areas listed in section 3:13, sub-consultants may be used **(Answered: Mar 1, 2022 6:40:02 AM EST)**

Question 5

Is this solicitation a Re-Bid of the Library of Services that was due in February last year? If not, how does this differ from that Library? Thank you **(Submitted: Feb 28, 2022 1:45:27 PM EST)**

Answer

- Please see the answer to question #2 above for your first question. 7 to 10 firms with subs will be selected to be used for civil consulting services for city projects **(Answered: Mar 1, 2022 10:28:00 AM EST)**

Question 6

Can we submit just for geotechnical OR does the city prefer a team with subconsultants?(Submitted: Mar 1, 2022 11:05:44 AM EST)

Answer

- The submittal must cover all the Functional areas of Interest outlined in the RFQ(Answered: Mar 2, 2022 12:39:08 PM EST)

Question 7

On Page 21 of 27, Section 4.2 of the RFQ states "The City prefers that responses be no more than 100 pages in one complete pdf document." Will the forms (including Standard Form 330), and licenses be excluded from the 100 page count?(Submitted: Mar 1, 2022 1:11:55 PM EST)

Answer

- No (Answered: Mar 2, 2022 12:39:08 PM EST)

- Please see response to questions #13(Answered: Mar 11, 2022 10:42:46 AM EST)

Question 8

What is the nature of the scope on the anticipated projects to be included in this contract? Water, waste water, stormwater, etc?(Submitted: Mar 2, 2022 10:31:11 AM EST)

Answer

- Please see response to questions #13(Answered: Mar 11, 2022 10:52:02 AM EST)

Question 9

Will the City be more specific regarding whether consultants are able to pursue one functional area vs. supplying a complete team for all functional areas?(Submitted: Mar 2, 2022 10:55:15 AM EST)

Answer

- Consultant submittals, can be 1 firm demonstrating proficiency in all the functional areas listed in the RFQ, or can be a team consisting of a prime and subs covering theses areas. Regardless, the submittal package must show proficiency in all the functional areas listed(Answered: Mar 4, 2022 5:15:40 PM EST)

Question 10

Please confirm that the Required Form referenced in Section 4.2.9 Bid/Proposal Certification is the same as the Disadvantaged Business Enterprise (DBE) Preference Form Certification form provided(Submitted: Mar 2, 2022 4:45:18 PM EST)

Answer

- This form does not apply to RFQs. This form is only for ITBs. The form is not required(Answered: Mar 4, 2022 5:15:40 PM EST)

Question 11

RFQ Section 3.13 states Functional Areas of Interest. Even within a specific area there are broad definitions. Can you provide a more detailed description for each area?(Submitted: Mar 3, 2022 12:31:46 PM EST)

Answer

- We feel that the Functional Areas of Interest as listed in the RFQ are self-explanatory and do not require any further detailing.**(Answered: Mar 4, 2022 5:15:40 PM EST)**

Question 12

In regards to the 100 page limit. Please advise if anything is not included in that count ie covers, tab**(Submitted: Mar 4, 2022 1:37:02 PM EST)**

Answer

- The forms required are not included. All else is included in the 100 page**(Answered: Mar 4, 2022 5:15:40 PM EST)**

Question 13

Section 3.3 lists a number of Tasks that could be subjectively applicable to one or more of the Functional Areas of Interest in Section 3.13. In order to provide a complete response that is acceptable to the City, can the City provide its interpretation of specifically which Tasks (Section 3.3) should be addressed under each Functional Area of Interest? For example if a firm wishes to be considered for Transportation Engineering only, then please identify which Tasks in Section 3.3 needs to be addressed in the response. The same is being requested for the other Functional Areas.**(Submitted: Mar 4, 2022 2:57:17 PM EST)**

Answer

- This is a general civil services contract, with the majority of the projects focusing on the design and permitting of water, sewer, stormwater and roadway improvements throughout the City. The selected firms must demonstrate proficiency in general civil design. However should the need arise for geotechnical, environmental, structural, mechanical etc, as sometimes it has in the past, the selected firm(s) must have the ability, either in-house, or using subs to address these â€functional areasâas needed. This should be showcased in the submittals, but we are not necessary looking for large teams with members specializing in each of the functional areas listed, nor are we looking for sperate submittals for each of the âfunctional areasâ as it was done in the previous â€library of consultantsâRFQ. **(Answered: Mar 8, 2022 6:41:13 PM EST)**

Question 14

Given that a firm would like to be considered for multiple Functional Areas (Section 3.13), is the City looking for one proposal from each firm, that identifies all the Functional Areas for consideration? or is a separate submission package required for each Functional Area?**(Submitted: Mar 4, 2022 2:58:10 PM EST)**

Answer

- Please see response to #13 above**(Answered: Mar 8, 2022 6:41:13 PM EST)**

Question 15

Does the City want us to split up the SF-330 forms into sections 4.2.3 and 4.2.4, as opposed to submitting a complete 330 set?**(Submitted: Mar 4, 2022 5:14:05 PM EST)**

Answer

- This is up to proposer.**(Answered: Mar 28, 2022 1:16:29 PM EDT)**

Question 16

Please clarify on what exactly the City is looking for, as sections 3.2 and 3.13 conflict one another:

3.2 states: The selected consultants must be able to provide all the services required of any civil engineering project and associated planning services through its own staff or sub-consultants.

Then, 3.13 states: The consultant shall identify in their response to this RFQ the functional areas for which it particularly wishes to specialize. Multiple firms will be selected, and multiple firms may be selected for more than one (1) functional area.

Thank you! **(Submitted: Mar 7, 2022 6:42:59 AM EST)**

Answer

- Please see response to question #13 above. We are looking for one submittal specializing in the general civil and with the option to address smaller the disciplines should in the need arise. Not specialized submittals for each functional areas as it was done in the library of consultant RFQ **(Answered: Mar 11, 2022 10:42:46 AM EST)**

Question 17

Under Section 4.2.3 - Firm Qualifications and Experience, it states a Standard Form 330 may be used to provide this information. It also says on 4.2.4 Qualifications of the Project Team in bold (on a Standard Form 330 if you choose), but under the Weighted Criteria, it states respondents should submit a complete Standard Form 330. This language is a bit confusing and we would like to know what the City itself prefers for consultants to provide. **(Submitted: Mar 7, 2022 9:08:18 AM EST)**

Answer

- Please see response to #13 above **(Answered: Mar 8, 2022 6:41:13 PM EST)**

Question 18

Please provide the Local Business Preference Certification form **(Submitted: Mar 7, 2022 2:12:24 PM EST)**

Answer

- See addendum 1 **(Answered: Mar 11, 2022 10:42:46 AM EST)**

Question 19

If a firm has already been selected for RFQ 12464-416 –CCNA – Professional Services Library, Continuing Services Contract, should they also submit to be on the pool for this solicitation **(Submitted: Mar 7, 2022 3:42:32 PM EST)**

Answer

- Please see response to question 2 **(Answered: Mar 8, 2022 6:41:13 PM EST)**

Question 20

Under Section 4.2.3 - Firm Qualifications and Experience, it states a Standard Form 330 MAY BE used to provide this information. It also says on 4.2.4 Qualifications of the Project Team in bold (on a Standard Form 330 if you choose), but under the Weighted Criteria, it states respondents SHOULD submit a complete Standard Form 330. Is the SF 330 form required. Also, is the SF 330 part of the 100 page limit **(Submitted: Mar 7, 2022 4:20:02 PM EST)**

Answer

- See addendum 1 no required forms are part of the 100 pages **(Answered: Mar 9, 2022 11:40:27 AM EST)**

Question 21

Please indicate which Functional Area does Water Treatment and/or Wastewater Treatment scope tasks belong? **(Submitted: Mar 9, 2022 9:07:34 AM EST)**

Answer

- This RFQ does not require any category of functional area. The solicitation document is for civil engineering. Unlike the professional library, teams are encouraged. Functional areas that may be required are listed in the solicitation. See answer to question 13 **(Answered: Mar 9, 2022 11:45:53 AM EST)**

Question 22

Does the City have their own MBE requirements or will FDOT certificate suffice? **(Submitted: Mar 9, 2022 10:39:52 AM EST)**

Answer

- City has a DBE program anf local business program. Please refer to the solicitation and attached forms. **(Answered: Mar 11, 2022 10:42:46 AM EST)**

Question 23

Question 20's Answer - Mar 09, 2022 11:40:27 AM EST - states "See addendum 1"
When will this addendum be issued? **(Submitted: Mar 9, 2022 5:40:05 PM EST)**

Answer

- Addendum 1 will be issued by COB March 11,2022 **(Answered: Mar 11, 2022 10:42:46 AM EST)**

Question 24

To respond thoroughly to the proposal requirements for this important contract, would the City consider an extension to its due date? **(Submitted: Mar 10, 2022 11:53:45 AM EST)**

Answer

- I dont think an extension is warranted, there is still 17 days left on the advertisement, plenty of time **(Answered: Mar 11, 2022 10:42:46 AM EST)**

Question 25

Please answer question 15. Also, page count was not addressed in Addendum #1 as referenced in answer 20. Do the SF 330s count as part of the page count? I apologize but it is a little confusing **(Submitted: Mar 11, 2022 3:17:58 PM EST)**

Answer

- As mentioned above in question 12 **(Answered: Mar 15, 2022 3:03:03 PM EDT)**

Question 26

Please provide the Bid/Proposal Certification Form requested in Section 4.2.9 **(Submitted: Mar 14, 2022 10:11:28 AM EDT)**

Answer

- This form is not required at this time **(Answered: Mar 15, 2022 2:59:04 PM EDT)**

Question 27

Good morning. I was going over the Q&A and it seems that the rules have changed regarding the Function Areas of Interest. The RFQ clearly states that " The consultant shall identify in their response to this RFQ the

functional areas for which it particularly wishes to specialize". However, now the City wants that each team covers all of the Function Areas of Interest? When and why did that change from the original RFQ? Please clarify
(Submitted: Mar 16, 2022 10:35:51 AM EDT)

Answer

- Please see response to question #13 above, we feel that adequate clarification has been provided on this matter.
(Answered: Mar 17, 2022 2:23:50 PM EDT)

Question 28

Page 10 of 27 of the RFQ (this refers to the page numbering at the bottom of RFQ, lower right hand corner) states: "A Sample Insurance Certificate shall be included with the proposal to demonstrate the firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the insurance companies' names for all required coverage, and the dollar amounts of the coverage."

Please confirm that a sample insurance certificate only needs to be included in the proposal for the prime firm.
(Submitted: Mar 16, 2022 11:43:07 AM EDT)

Answer

- Yes Only for the prime.**(Answered: Mar 17, 2022 2:23:50 PM EDT)**

Question 29

Page 10 of 27 of the RFQ, section 2.16, Insurance - Subconsultants, state: "Consultant shall require all of its sub-consultants to provide the aforementioned coverage as well as any other coverage that the consultant may consider necessary, and any deficiency in the coverage or policy limits of said sub-consultants will be the sole responsibility of the consultant."

Please confirm that the above insurance language is applicable upon contract award and that we do not need to include sample insurance certificates for our subconsultants in the proposa**(Submitted: Mar 16, 2022 11:46:02 AM EDT)**

Answer

- correct and confirmed.**(Answered: Mar 17, 2022 2:23:50 PM EDT)**

Question 30

Do firms need to provide comments and exceptions to the sample contract with their submittal or will that happen when contract is awarded? If so, would this be a separate attachment**(Submitted: Mar 18, 2022 9:42:12 AM EDT)**

Answer

- All comments / exceptions, etc. must be submitted with your proposal. It may be a separate Doc, however these is a space provided on the Proposal Signature Page as wel**(Answered: Mar 23, 2022 7:52:33 AM EDT)**

Question 31

Can further clarification be given to the scope of services required for water resources engineering and hydrology and hydraulic engineering?**(Submitted: Mar 21, 2022 2:39:19 PM EDT)**

Answer

- : We believe the terms are self-explanatory any firm that has performed stormwater design and permitting

should be very familiar with the terminology**(Answered: Mar 28, 2022 3:33:09 PM EDT)**

Question 32

Statement of Local Business Preference – Per the ordinance, local businesses will receive a scoring advantage, but this isn't outlined in the scoring criteria for the RFQ. Will this be implemented on RFQ scoring or taken into consideration for the individual task orders?**(Submitted: Mar 21, 2022 2:39:38 PM EDT)**

Answer

- It will be taken in account at time of scoring RFQ**(Answered: Mar 24, 2022 3:06:20 PM EDT)**

IL

CITY MANAGER'S OFFICE

DOCUMENT ROUTING FORM

Rev: 3| Revision Date: 9/1/2022

TODAY'S DATE: 3/23/23

DOCUMENT TITLE: Agreement for Civil Engineering Services with Craven Thompson and Associates Inc. RFQ No. 12637-421

COMM. MTG. DATE: 2/21/23 **CAM #:** 23-0069 **ITEM #:** M-2 **CAM attached:** ☒ YES ☐ NO

Routing Origin: _____ **Router Name/Ext:** _____ **Action Summary attached:** ☐ YES ☒ NO

CIP FUNDED: ☒ YES ☐ NO

Capital Investment / Community Improvement Projects defined as having a life of at least 10 years and a cost of at least $50,000 and shall mean improvements to real property (land, buildings, or fixtures) that add value and/or extend useful life, including major repairs such as roof replacement, etc. Term "Real Property" include land, real estate, realty, or real.

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2) City Attorney's Office: Documents to be signed/routed? ☒ YES ☐ NO # of originals attached: 1

Is attached Granicus document Final? ☒ YES ☐ NO Approved as to Form: ☒ YES ☐ NO

Date to CCO: 3/23/23 Attorney's Name: Rhonda Mushoja Hasan Initials: RMH

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3) City Clerk's Office: # of originals: 1 **Routed to:** _____ Ext: _____ **Date:** 03/24/23

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4) City Manager's Office: CMO LOG #: MM-160 Document received from: 3/24/23

Assigned to: GREG CHAVARRIA ☐ ANTHONY FAJARDO ☐ SUSAN GRANT ☐

GREG CHAVARRIA as CRA Executive Director ☐

☐ APPROVED FOR G. CHAVARRIA'S SIGNATURE ☐ N/A G. CHAVARRIA TO SIGN

PER ACM: **A. FAJARDO**_____ (Initial) **S. GRANT**_____(Initial)

☐ **PENDING APPROVAL** *(See comments below)*

Comments/Questions: _____

Forward 1 originals to ☐ Mayor ☒ CCO **Date:** 3/27/23

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5) Mayor/CRA Chairman: Please sign as indicated.

Forward _____originals to CCO for attestation/City seal (as applicable) **Date:** _____

INSTRUCTIONS TO CITY CLERK'S OFFICE

City Clerk: Retains 1 original and forwards 1 originals to: Frista ***(Name/Dept/Ext)***

Attach _____ certified Reso # _____ ☐ YES ☐ NO **Original Route form to CAO**

TM 23-098