

**Solicitation
For Participation in
Engineering Services for the Nocatee Re-Pump Facility Augmentation Well
for**



Jacksonville, FL

Solicitation Number 102-16

Mandatory Pre-Proposal Meeting on June 17, 2016, at 10:00 AM

JEA Customer Center, 1st Floor, Room 002

21 W. Church Street, Jacksonville, FL 32202

Proposals are due on July 12, 2016 by 12:00 PM

Direct delivery or mail to JEA Bid Office, Customer Center 1st Floor, Room 002

21 W. Church Street, Jacksonville, FL 32202

**JEA will publicly open all Proposals received from qualified Proposers on July 12, 2016, at
2:00 PM in the JEA Bid Office, Customer Center 1st Floor, Room 002, 21 W. Church Street, Jacksonville, FL**

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Solicitation

1. REQUEST FOR PROPOSALS

1.1. INVITATION

1.1.1. SCOPE OF WORK

The scope includes the design and construction oversight services of a 16-inch Floridan Aquifer raw water production well with a 1,000 GPM capacity, vertical turbine pump, wellhead assembly, associated piping and fittings necessary to connect to the Ground Storage Tank, and any necessary instrumentation and control and electrical equipment.

Further details can be found in Appendix A Technical Specifications, and Appendix C Project Definition.

1.1.2. INVITATION - REQUEST FOR PROPOSAL

You are invited to submit a Proposal in response to the Request for Proposals noted below:

Request for Proposals (RFP) Title: Engineering Services for the Nocatee Re-Pump Facility Augmentation Well

To obtain more information about this RFP:

Download a copy of the Solicitation, PDF quality drawings (if applicable, and any required forms at jea.com.

JEA RFP Number: 102-16

Proposal Due Time: 12:00 P.M. - **ALL LATE PROPOSALS WILL BE RETURNED UNOPENED.**

Proposal Due Date: July 12, 2016

All Proposals must reference the RFP Title and Number noted above. All Proposals must be made on the appropriate forms as specified within the RFP and placed in an envelope marked to identify the RFP and delivered or mailed to:

JEA Bid Office, 21 West Church Street, Customer Center 1st Floor, Room 002, Jacksonville, FL 32202

The Proposer shall be solely responsible for delivery of its Proposal to the JEA Bid Office. **Please note, JEA employs a third party courier service to deliver its mail from the local U.S. Post Office (USPS) which could cause a delay of Proposal delivery if mailed through the USPS.** Therefore, JEA recommends direct delivery to the JEA Bid Office. Reliance upon the USPS, the courier service employed by JEA to make pick-ups from the local USPS, or public carriers is at the Proposer's risk.

Proposals are due by the time and on the date listed above. **ALL LATE PROPOSALS FOR WHATEVER REASON WILL BE RETURNED UNOPENED.**

1.1.3. OPENING OF PROPOSALS

All Proposals received shall be publicly announced and recorded at 2:00 PM on July 12, 2016, in the JEA Bid Office, 21 W. Church Street, Customer Center 1st Floor, Room 002, Jacksonville, FL 32202. At the opening of Proposals, a JEA representative will publicly open each Proposal that was received prior to the due date and time, except for those Proposals that have been properly withdrawn. JEA has the right to waive any irregularities or informalities in the Proposals.

1.1.4. QUALIFIED PROPOSERS LIST

Only those companies approved to be on the QPL WE2 Potable Water Production Wells by the Proposal Due Date will be permitted to submit a Proposal in response to this RFP. A listing of companies assigned to a QPL can be viewed at www.jea.com.

For any questions related to the JEA QPL WE2 list contact Karen Wenberg at 904-665-6740, or wenbkw@jea.com.

Please note, any Proposer whose contract with JEA was terminated for default within the last two (2) years shall have their Proposal rejected.

1.1.5. MANDATORY PRE-PROPOSAL MEETING

There will be a Mandatory Pre-Proposal meeting associated with this Solicitation. All interested Companies must attend the Pre-Proposal meeting. Each Proposer will be required to sign in at the beginning of the meeting. A Proposer shall only sign in representing one company, unless otherwise specified by JEA. Companies not attending the Pre-Proposal meeting shall have their Proposals rejected and returned unopened.

Proposers must be on time to the meeting and must be present at the starting time of the meeting. Proposers not arriving on time for the meeting will have their Proposals rejected and returned unopened.

PLEASE BE AWARE DUE TO JEA SECURITY AND/OR SIGN IN PROCEDURES IT MAY TAKE UP TO FIFTEEN (15) MINUTES TO OBTAIN ACCESS TO A JEA FACILITY. PLEASE PLAN ACCORDINGLY SO AS TO ARRIVE TO THE MEETING ON TIME.

Meeting Time: 10:00 AM EST

Meeting Date: June 17, 2016

Meeting Location: JEA Customer Center, 1st Floor, Room 002, 21 W. Church Street, Jacksonville, FL 32202

1.1.6. QUESTIONS

All questions must be submitted in writing to the JEA Buyer listed below at least five (5) business days prior to the opening date. Questions received within five (5) business days prior to the opening date will not be answered.

For Procurement Related Questions:

Buyer: Daniel Kruck

E-mail: krucdr@jea.com

For Technical Questions:

Contact: Hai Vu

E-mail: vuhx@jea.com

1.2. SPECIAL INSTRUCTIONS

1.2.1. MINIMUM QUALIFICATIONS FOR SUBMISSION (RFP)

Proposer shall have the following Minimum Qualifications to be considered eligible to submit a Proposal in response to this RFP.

It is the responsibility of the Proposer to ensure and certify that it meets the Minimum Qualifications stated below. A Proposer not meeting all of the following criteria will have their Proposals rejected:

- The Company must be listed on JEA's Qualified Proposers List (QPL) in the following category, at the time of the Proposal due date: **WE2 Potable Water Production Wells**

For any questions related to the JEA QPL WE2 list contact Karen Wenberg at 904-665-8621, or wenbkw@jea.com.

Please note, any Proposer whose contract with JEA was terminated for default within the last two (2) years shall have their Proposal rejected.

1.2.2. EVALUATION METHODOLOGY

1.2.2.1. COMPETITIVE SEALED PROPOSALS - CONSULTANTS' COMPETITIVE NEGOTIATION ACT (CCNA)

JEA shall evaluate the Proposer's qualifications, rank the qualifications from all Proposers, and negotiate a Contract for the Work in accordance with Florida Statute, Section 287.055, known as the Consultants' Competitive Negotiation Act ("CCNA").

In evaluating the qualifications, JEA will not consider price, but may consider factors including, but not limited to, the Proposer's professional personnel, past performance, whether the Proposer is a Jacksonville Small and Emerging Business (JSEB); recent, current and projected workloads of the Proposer, and volume of work previously awarded to each Proposer by JEA. JEA may also request interviews or presentations from the Proposers during its selection.

After approving the rankings of all the Proposers, JEA will enter into negotiations of contractual terms with the best ranked Proposer. During negotiations, JEA will consider detailed information regarding the Contract Price, the Proposer's hourly rates, and scope of the Contract.

If JEA and the Company are unable to negotiate a satisfactory Contract, JEA will formally terminate the negotiations with the Proposer and undertake negotiations with the next ranked Proposer. JEA will Award the Contract to the highest-ranking qualified Proposer that successfully completes Contract negotiations with JEA.

1.2.3. BASIS OF AWARD

1.2.3.1. EVALUATED PROPOSAL

JEA will use the "Selection Criteria" listed below to evaluate the Proposals. JEA may make its Award decision based solely upon the information submitted in the Proposals. JEA may also choose to have one or more Proposer make presentations to representatives of JEA. It is always in the best interest of the Proposer to provide informative, concise, well-organized technical and business information relative to the Work, in both the initial submittal of its Proposal and in any subsequent submittals. **Please note, JEA may reject Proposals that request material changes or take exceptions to JEA commercial terms and conditions.** Material changes to the commercial terms and conditions can only be made by JEA prior to public opening of the Proposals.

Proposals will be scored and ranked by a committee of 3 to 5 evaluators consisting of JEA's staff. Each evaluator will individually score the Proposals using the evaluation matrix attached to this Solicitation. Using these scores, each evaluator will rank the Proposals using "1" for the Proposal receiving the highest number of points from the matrix. Proposals with an equal number of points will receive the same numerical ranking. JEA will total the numerical rankings for each Proposal and consider the Proposal with the lowest total to be the most highly qualified Proposal. Any tie will be broken using the total of the matrix scores of all evaluators.

1.2.4. SELECTION CRITERIA

1.2.4.1. PROFESSIONAL STAFF EXPERIENCE

Maximum score for this criterion is: 30 POINTS - Points for each subsection will be awarded as described on the Evaluation Matrix attached to this RFP.

1. Team Members

The Proposer shall provide a maximum of six (6) resumes of the professional staff to be assigned to perform the Work. The resumes provided shall identify the Lead Project Manager, Hydrogeologist and Mechanical Engineer and the backups for each (collectively, the "Team Members"). Note: the Lead Project Manager must be from the company submitting the Proposal and not a Subcontractor. Persons whose resumes are submitted as a Team Member must actually perform the Work unless Proposer receives prior approval by the JEA Project Manager to use a backup Team Member. Finally, if Proposer submits a resume of a Subcontractor that is employed by a JSEB firm, please note this on the resume.

At a minimum, each resume shall present the Team Member's name, title, years of service with company, applicable professional registrations, education, and work experience. Resumes shall also identify any specialty or technical process expertise. **Resumes shall be no more than two (2) pages in length; single sided, and on 8.5" by 11" sized paper. If more than two pages are submitted, only the information contained on the first two pages will be evaluated by JEA. No more than six (6) resumes will be evaluated.**

2. Share of Project Work

For purposes of awarding points for this selection criteria, "Share of Project Work" shall be defined as the number of assigned hours to the project for each individual primary Team Member divided by the total hours on the project, expressed as a percent. This information will be taken from the project schedule referenced in the Section below titled "Design Approach and Work Plan", and will be rounded two decimal places. **JEA prefers that the Share of Project Work information be submitted in a Microsoft Excel format. The same information should also be submitted with the hardy copy of the Proposal.**

3. Organizational Chart

Finally, Proposer shall provide an organizational chart delineating company's personnel responsibilities and functions associated with the Work. If applicable, this chart shall also delineate any responsibilities and functions of subcontractor(s) and/or JSEB firm(s).

3.1.1.1. DESIGN APPROACH AND WORK PLAN

Maximum score for this criterion is: 35 POINTS

Proposer shall provide an explanation of how it typically manages its engagements to realize project budgetary goals, timetables and quality control objectives. Proposer shall explain, for this specific Scope of Work, how it intends to meet the budgetary goals, timetables and quality criteria established herein. Consideration shall be given

for cost effectiveness of potential solution(s), creativity and innovation of proposed solutions and comprehensive utilization of proposed personnel to meet the deliverables.

Proposer shall also provide a project schedule indicating: (i) all the activities envisioned to fulfill the requirements of the Work; (ii) the estimated duration for each activity; (iii) the estimated man-hours for each activity; and (iv) the total estimated man-hours each primary Team Member, identified in the Section titled "Professional Staff Experience", will devote to the Work through completion. As stated in the Section above, the "Share of Project Work" should be calculated using the man-hours indicated on the project schedule. Additionally, the project schedule must demonstrate the utilization of any Subcontractors.

Please use your own form for this section.

3.1.1.2. COMPANY EXPERIENCE

Maximum score for this criterion is: 20 POINTS

Proposer shall provide the following:

1. Published project documents, including conformed drawings, specs, and final basis of design report from a relevant engagement with a similar Scope of Work as stated in this RFP, along with a brief description of how the report framework will be modified for JEA's project. **These documents must be submitted on a CD or USB Flash Drive and submitted along the Proposal (One (1) CD or USB Flash Drive per copy of Proposal).**
2. A summary of two (2) projects that have a similar scope as stated in this RFP. The examples should be able to demonstrate that Proposer's experience and knowledge that qualify them to complete the necessary work in a successful manner.
 - a. Proposer should identify whether any of the proposed Team Members worked in key roles in the projects.
 - b. Proposer should provide detailed information to describe how Proposer managed the engagements to realize project budgetary goals, timetables, and quality control objectives.
 - c. Proposer should describe any working relationship with Subcontractors that will be used for this project.
3. Other past experience / performance for the following topics that can demonstrate successful engineering with the unique characteristics of this project.
 - a. Production Well
 - b. Pump Selection
 - c. Expedited Schedule
 - d. SJRWMD Permitting

Proposer 's response to items 2 and 3 above should be limited to no more than six (6) pages, 1-sided, single-spaced , on 8.5" x 11" sized paper . Please use your own form for this Section. Responses that are longer than six (6) pages will not be evaluated after page six (6).

3.1.1.3. LEAD PROJECT MANAGER PROXIMITY TO JEA

Maximum score for this criterion is: 5 POINTS

Provide the address of Proposer's office that the proposed Lead Project Manager normally works from and its distance from JEA Headquarters located at 21 West Church St. JEA will use Google Maps to verify distance.

In order to receive points for this criterion, Proposer's office must be occupied and staffed with at least three (3) employees for a duration of six (6) months prior to the Proposal Due Date stated in this RFP. Additionally, the office shall not be used as a residential premise. If necessary, JEA will use zoning records and tax rolls to validate this criteria.

3.1.1.4. JACKSONVILLE SMALL AND EMERGING BUSINESS (JSEB) - RFP

Maximum score for this criterion is: 5 POINTS

Proposer shall indicate if it is certified as a Jacksonville Small and Emerging Business (JSEB) as defined by Jacksonville Ordinance 2004-602; Chapter 126, Part 6A and 6B.

If Proposer is not a certified JSEB, the Proposer shall list any JSEB certified subcontractors that it intends to utilize in the performance of this Work. The listing should include names of the JSEBs, the type of service they will provide, and the percentage of work being subcontracted. Points will be awarded based on the type and amount of work that will be conducted by JSEB firms.

The points will be awarded as follows:

Proposer is a COJ/JEA certified JSEB = 5 pts;

Proposer is not a JSEB but will subcontract Work to JSEBs:

Non-JSEB with JSEB partner:

Greater than or equal to 5% of work = 4 pts

Greater than or equal to 3%, but less than 5% of work = 3 pts

Greater than or equal to 2%, but less than 3% of work = 2 pts

Greater than or equal to 1%, but less than 2% of work = 1 pt

Less than 1% of work = 0 pts

3.1.1.5. VALUE OF WORK PREVIOUSLY AWARDED

Maximum score for this criterion is: 5 POINTS

Proposers will receive points based on the total monetary value of JEA Purchase Orders issued to its company within the last three (3) years as of the Proposal Due Date stated in this RFP.

Points will be awarded based on a sliding scale pursuant to the evaluation matrix attached to this RFP.

3.1.1.6. TIE

In addition to the above, JEA has a database evidencing the amount of work previously given to each company. Said criteria will be considered in the event of a tie. In order for new companies to be given opportunity to work with JEA, extra points shall be given to those companies who have not done business with JEA in the past.

3.1.2. REQUIRED FORMS TO SUBMIT WITH PROPOSAL

To submit a Proposal in response to this RFP, all of the following forms must be completed and submitted as part of the Proposal. The Proposer must obtain the required forms, other than the Minimum Qualification Form, by downloading them from JEA.com. If the Proposer fails to complete or fails to submit one or more of the following forms, the Proposal shall be rejected.

The following forms are required to be submitted:

- Company's Proposal
- Minimum Qualifications Form - This form can be found in Appendix B of this Solicitation
- Proposal Form - This form can be found in Appendix B of this Solicitation
- List of JSEB Certified Firms (if any)
- List of Subcontractors/Shop Fabricators (if any)

If the above listed forms are not submitted with the Proposal by the Proposal Due Time and Date, JEA shall reject the Proposal.

JEA also requires the following documents to be submitted prior to Contract execution. A Proposal will not be rejected if these forms are not submitted at the Proposal Due Time and Date. However, failure to submit these documents prior to Contract execution could result in Proposal rejection.

- Conflict of Interest Certificate Form - This form can be found on JEA.com
- Insurance Certificate
- W-9
- Evidence of active registration with the State of Florida Division of Corporations (www.sunbiz.org)
- Any technical submittals as required by the Technical Specifications

3.1.3. NUMBER OF CONTRACTS TO BE AWARDED

JEA intends to Award one (1) Contract(s) for the Work. JEA reserves the right to Award more than one Contract based on certain groupings of the Work items, or JEA may exclude certain Work items, if JEA determines that it is in its best interest to do so.

3.1.4. CONTRACT COMMERCIAL TERMS

Company acknowledges that once it is approved to a Qualified Proposer List (QPL), the Company will agree to JEA's General and Special Contract terms of the Request for Qualifications which can be found on jea.com. If Company is subsequently Awarded a Contract pursuant to this process, no negotiation of Contract terms will be allowed and a Contract will be executed upon ten (10) days upon receipt of the Contract Documents. If Company does not agree to JEA's Contract terms and does not execute the Contract within the stated timeframe, JEA may rescind Company's Award and may Award the Contract to next highest ranked Proposer that successfully negotiates with JEA.

3.1.5. DISCOUNT PRICING

JEA offers any or all of the following option payment terms, one of which may be executed at the request of the Company by sending an email to the JEA Buyer listed in this Solicitation:

- o 1% 20, net 30
- o 2% 10, net 30
- o 3% 5, net 30

Company may request alternate payment terms for JEA's consideration, however, alternate payment terms are not effective until acceptance by JEA in writing. Please note, all payment dates are calculated from the date of the Invoice receipt by JEA's Accounts Payable.

3.1.6. PAYMENT METHOD - PROGRESS PAYMENTS

Upon Company's completion and JEA's Acceptance of the completion of each predetermined Milestone, the Company shall submit to JEA an Invoice for the amount/percentage of the Work or Services completed corresponding to that Milestone.

3.1.7. TERM OF CONTRACT - THROUGH COMPLETION OF WORK

The Contract shall be in force through completion of all Work, Acceptance and final payment, including resolution of all disputes, claims, or suits, if any. Certain provisions of this Contract may extend past termination including, but not limited to, Warranty and Indemnification provisions.

This Contract, after the initial year, shall be contingent upon the existence of lawfully appropriated funds for each subsequent year of the Contract.

3.1.8. JACKSONVILLE SMALL AND EMERGING BUSINESS (JSEB) PROGRAM REQUIREMENTS

3.1.9. OPTIONAL USE OF JACKSONVILLE SMALL AND EMERGING BUSINESS (JSEB) PROGRAM

It is at the Company's option as to whether it chooses to subcontract to a JSEB firm. JEA encourages the use of JSEB qualified firms; however, the Company is not required to utilize JSEB firms to be Awarded this Contract.

JSEB firms that qualify for this Contract are only those shown on the current City of Jacksonville JSEB directory appearing at www.COJ.net. Certification of JSEB firms must come from the City of Jacksonville. No other agency or organization is recognized for purposes of this Contract.

In no case shall the Company make changes to the JSEB firms listed in its Bid, revise the JSEB Scope of Work or amount of Work as stated in its Bid without prior written notice to the JEA Contract Administrator, and without subsequent receipt of written approval for the JEA Contract Administrator.

Any subcontractors of Company shall procure and maintain the insurance required of Company hereunder during the life of the subcontracts. Subcontractors' insurance may either be by separate coverage or by endorsement under insurance provided by Company. Note: Any JSEB firms identified by Bidders for this Solicitation are considered "Subcontractors" under the direct supervision of the Prime or General Contractor (herein referred to as Company in this Solicitation). Companies should show good faith efforts in providing assistance to JSEB firms in the securing of Subcontractors' insurance requirements stated in this section. Company shall submit subcontractors' Certificates of Insurance to JEA prior to allowing subcontractors to perform Work on JEA's job sites.

All question and correspondence concerning the JSEB program should be addressed to the following contact:

G. Nadine Carswell
JSEB Manager
JEA
21 W. Church Street, CC-6
Jacksonville, FL 32202
(904) 665-6257

carsgs@jea.com

3.2. COMPLETING THE SUBMITTAL DOCUMENTS

3.2.1. SUBMITTING THE PROPOSAL

The Proposer shall submit one (1) original Proposal, three (3) duplicates (hardcopies) and four (4) CDs. If there is a discrepancy between the electronic copy and the hard copy, the hard copy will prevail. JEA will not accept Proposals transmitted via email. **IF Proposer IS INTERESTED IN SUBMITTING A RESPONSE TO THIS RFP, PLEASE EMAIL krucdr@jea.com TO RECEIVE THIS PROPOSAL FORM IN A WORD FORMAT. REQUESTS MUST BE MADE NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE PROPOSAL OPENING.**

3.2.2. COMPLETING THE PROPOSAL

Proposers shall submit their Proposals and any enclosed documents attached to this RFP with responses typewritten or written in ink. Proposers should refer to the Special Instructions of this RFP to review specific items which may be required with the submittal of the Bid. The Proposer, or its authorized agent or officer of the firm, shall sign the Proposal. Failure to sign the Proposal may disqualify the Proposal. JEA-approved erasures, interlineations or other corrections shall be authenticated by affixing in the margin, immediately opposite the correction, the handwritten signature of each person executing the Proposal. Failure to authenticate changes may disqualify the Proposal. JEA may disqualify any Proposals that deviate from the requirements of this RFP, and those that include unapproved exceptions, amendments, or erasures.

3.2.3. OBTAINING OFFICIAL SPECIFICATION DRAWINGS FOR THIS RFP

If drawings are required to be reviewed prior to submitting a Proposal, JEA offers electronic drawing files for viewing at no-charge at JEA.com.

3.2.4. ADDENDA

JEA may issue Addenda prior to the Bid opening date to revise, in whole or in part, or clarify the intent or requirements of the Solicitation. The Proposer shall be responsible for ensuring it has received all Addenda prior to submitting its Proposal and shall acknowledge receipt of all Addenda by indicating where requested on the Bid Form. JEA will post all Addenda when issued online at jea.com. The Proposer must obtain Addenda from the JEA website. All Addenda will become part of the Solicitation and any resulting Contract Documents. It is the responsibility of each Proposer to ensure it has received and incorporated all Addenda into its Proposal. Failure to acknowledge receipt of Addenda may be grounds for rejection of a Proposal.

3.2.5. MODIFICATION OR WITHDRAWAL OF PROPOSALS

The Proposer may modify or withdraw its Proposal at any time prior to the Proposal Due Date and Time by giving written notice to JEA's Chief Purchasing Officer. JEA will not accept modifications submitted by telephone, telegraph, email, or facsimile, or those submitted after Proposal Due Date and Time. The Proposer shall not modify or withdraw its Proposal from time submitted and for a period of 90 days following the opening of Proposals.

3.3. GENERAL INSTRUCTIONS

3.3.1. CONTRACT EXECUTION AND START OF WORK

Within thirty (30) days from the date of Award, JEA will present the successful Proposer with the Contract Documents. Unless expressly waived by JEA, the successful Proposer shall execute a Contract for the Work or Services within ten (10) days after receiving the Contract from JEA. If the Proposer fails to execute the Contract or associated documents as required, or if it fails to act on a JEA-issued Purchase Order (PO), JEA may cancel the

Award with no further liability to the Proposer, retain the bid security or bond (if applicable), and Award to the next-ranked company.

Upon JEA's receipt of the executed Contract, certificate of insurance, and recorded Payment and Performance bonds (if applicable), JEA will issue a PO, in writing and signed by an authorized JEA representative as acceptance of the Proposal or Bid and authorization for the company to proceed with the Work, unless otherwise stated in the Contract or PO.

For Construction Services: In the event that JEA intends to authorize the successful Proposer to proceed with administrative work only, or with only a portion of the Work, then the PO shall state the specific limitations of such authorization and JEA will issue a separate written Notice to Proceed to authorize the Proposer to begin Field Work, when applicable, or to perform the remainder of the Work, or any portion thereof. The Proposer shall ensure that it is prepared to begin Field Work upon receipt of Notice to Proceed. Any Work performed outside of this partial authorization shall be at the Proposer's risk and JEA shall have no obligation to pay for such Work.

3.3.2. AVAILABILITY OF PROPOSALS AFTER OPENING

In accordance with the Florida Public Records Law, Florida Statute, Chapter 119, copies of all proposals are available for public inspection thirty (30) days after the opening of Proposals or on the date of Award announcement, whichever is earlier. Proposers may review opened Proposals once they are available for public inspection by contacting the designated Buyer or JEA's Public Records custodian whose contact information can be found at jea.com. JEA will post a summary of proposal opening results at www.jea.com.

3.3.3. SUBCONTRACTORS

The Company shall list the names of all Subcontractors and subsuppliers/shop fabricators that it plans to utilize for the performance of the Work. All subcontractors shall be listed on the Subcontractors Form which is available at jea.com. Failure to submit this form with the Proposal shall result in rejection of Company's Proposal. The Company shall not use Subcontractors and subsuppliers/shop fabricators other than those shown on the Subcontractor form unless it shows good cause and obtains the JEA Representative's prior written consent. In cases where the Subcontractor or subsupplier/shop fabricator is a JSEB firm, the City of Jacksonville Ombudsman will review the substitution request, and make a written recommendation prior to the JEA Representative's written consent.

If the Company plans to use Subcontractors or subsupplier/shop fabricators to perform over fifty percent (50%) of the Work, the Company shall obtain JEA's approval at least five (5) days prior to the Proposal Due Date. Failure to obtain JEA approval will disqualify the Company and result in rejection of Company's Proposal.

3.3.4. THIRD PARTY AGREEMENT REQUESTS

In the event Company will or may request JEA execute a third party agreement (including but not limited to: a joint check agreement, or revocable or irrevocable letter of direction with surety), then Company will disclose this fact in writing in its Proposal. This information will be taken into consideration by JEA in evaluating each Proposal. In the event Company is awarded this Work, then JEA will execute such documents, provided however, the same incorporates any additional language required by JEA's Chief Purchasing Officer.

3.3.5. JEA PUBLICATIONS

Applicable JEA publications are available at jea.com.

3.3.6. CONFLICT OF INTEREST

A person or company who receives a Contract which was not procured pursuant to public bidding procedures to perform a feasibility study, or who participated in the drafting of an invitation to bid or request for proposals, or who

developed a program for future implementation shall not be eligible to contract with JEA for any other contracts dealing with that specific subject matter.

Should JEA erroneously Award a Contract in violation of this policy, JEA may terminate the Contract at any time with no liability to Proposer, and Proposer shall be liable to JEA for all damages, including but not limited to the costs to rebid the Work. The purpose of this policy is to encourage bidding and eliminate any actual or perceived advantage that one Proposer may have over another.

3.3.7. ETHICS (RFP)

By signing the Proposal, the Proposer certifies this Proposal is made without any previous understanding, agreement or connection with any other person, firm, or corporation submitting a Proposal for the same Work other than as a Subcontractor or supplier, and that this Proposal is made without outside control, collusion, fraud, or other illegal or unethical actions. The Proposer shall comply with all JEA and City of Jacksonville ordinances, policies and procedures regarding business ethics.

The Proposer shall submit only one (1) Proposal in response to this RFP. If JEA has reasonable cause to believe the Proposer has submitted more than one (1) Proposal for the same Work, other than as a Subcontractor or subsupplier, JEA shall disqualify the Proposal and may pursue debarment actions.

The Company shall disclose the name(s) of any public officials who have any financial position, directly or indirectly, with this Proposal by completing and submitting the Conflict of Interest Certificate Form found at jea.com. Failure to fully complete and submit the Conflict of Interest Certificate will disqualify the Proposal. If JEA has reason to believe that collusion exists among the Companies, JEA will reject any and all Proposals from the suspected Company and will proceed to debar Company from future JEA Awards in accordance with the JEA Purchasing Code.

JEA is prohibited by its Charter from awarding contracts to JEA officers or employees or companies in which a JEA officer or employee has a financial interest. JEA shall reject any and all Proposals from JEA officers or employees as well as any and all Proposals in which a JEA officer or employee has a financial interest.

In accordance with Florida Statutes Sec. 287.133, JEA will reject Proposals from any persons or affiliates convicted of a public entity crime as listed on the Convicted Vendor list maintained by the Florida Department of Management Services. JEA shall not make an Award to any officer, director, executive, partner, shareholder, employee, member, or agent active in management of the Company listed on the Convicted Vendor list for any transaction exceeding \$35,000 for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor list.

If the Company violates any requirement of this clause, the Proposal may be rejected and JEA may debar offending companies and persons.

3.3.8. EX PARTE COMMUNICATION

Ex Parte Communication is strictly prohibited. Ex Parte Communication is defined as any inappropriate communication concerning a Solicitation between a firm submitting a Proposal and a JEA representative during the time in which the Solicitation is being advertised through the time of Award. Examples of inappropriate communications include: private communications concerning the details of Solicitation in which a Bidder becomes privy to information not available to the other Bidders. Social contact between Bidders and JEA representatives should be kept to an absolute minimum during the solicitation process.

Failure to adhere to this policy will disqualify the noncompliant Company's Proposal. Any questions or clarifications concerning a Solicitation must be sent in writing via email to the JEA Buyer at least five (5) business days prior to

the opening date. If determined by JEA, that a question should be answered or an issue clarified, JEA will issue an addendum to all Bidders.

For more information on Ex Parte communications, see JEA Procurement Code, Article 1-110, which is available at www.jea.com.

3.3.9. PROHIBITED FUTURE EMPLOYMENT

It shall be unlawful and a class C offense for any person, who was an officer or employee of JEA, after his or her employment has ceased, to be employed by or enter into any contract for personal services, with a person or company who contracted with, or had a contractual relationship with JEA, while the contract is active or being completed, or within two years of the cessation, completion, or termination of the person's or company's contractual relationship with JEA, where (1) the contract with JEA had a value that exceeded \$250,000, and (2) the officer or employee had a substantial and decision-making role in securing or negotiating the contract or contractual relationship, or in the approval of financial submissions or draws in accordance with the terms of the contract; except that this prohibition shall not apply to an employee whose role is merely as a review signatory, or to contracts entered into prior to January 1, 2008, or to contracts that have been competitively procured. With respect to this subsection a contract is competitively procured if it has been obtained through a sealed low bid award. A "substantial and decision-making role" shall include duties and/or responsibilities that are collectively associated with: (i) approving solicitation or payment documents; (ii) evaluating formal bids and proposals; and (iii) approving and/or issuing award recommendations for JEA Awards Committee approval. The contract of any person or business entity who hires or contracts for services with any officer or employee prohibited from entering into said relationship shall be voidable at the pleasure of JEA. This prohibition shall not apply to any former officer or employee after two years from cessation from JEA employment.

3.3.10. HIRING OF OTHER PARTY'S EMPLOYEES

Each party recognizes that the other party has incurred or will incur significant expenses in training its own employees and agrees that it will not pursue or hire, without the other party's consent, the other party's employees or the employees of its subsidiaries for a period of two (2) years from the termination date of this Contract.

3.3.11. RESERVATIONS OF RIGHTS TO JEA

The Solicitation provides potential Companies with information to enable the submission of written offers. The Solicitation is not a contractual offer or commitment by JEA to purchase products or services.

Proposals shall be good for a period of ninety (90) days following the opening of the Proposals.

JEA reserves the right to reject any or all Proposals, or any part thereof, and/or to waive informalities if such action is in its best interest. JEA may reject any Proposals that it deems incomplete, obscure or irregular including, but not limited to, Proposals that omit a price on any one or more items for which prices are required, Proposals that omit Unit Prices if Unit Prices are required, Proposals for which JEA determines that the Proposal is unbalanced, Proposals that offer equal items when the option to do so has not been stated, Proposals that fail to include a Bid Bond, where one is required, and Proposals from Companies who have previously failed to satisfactorily complete JEA contracts of any nature or who have been scored by JEA as "Unacceptable" and as a result, are temporarily barred from bidding additional work.

JEA reserves the right to cancel, postpone, modify, reissue and amend this Solicitation at its discretion.

JEA reserves the right to cancel or change the date and time announced for opening of Proposals at any time prior to the time announced for the opening of Proposals. JEA may Award the Contract in whole or in part. In such cases whenever JEA exercises any of these reservations, JEA will make a commercially reasonable effort to notify, in

writing, all parties to whom Solicitations were issued. JEA may award multiple or split Contracts if it is deemed to be in JEA's best interest.

3.3.12. CERTIFICATION AND REPRESENTATIONS OF THE COMPANY

By signing and submitting a proposal, the Proposer certifies and represents as follows:

- a. That it has carefully examined all available records and conditions, including sites if applicable, and the requirements and specifications of Solicitation prior to submitting its Proposal. Where the Proposer visits sites, no Work or other disturbance is to be performed while at the site without written permission by JEA in advance of the site visit. The Proposer shall comply with all safety requirements described in the Proposal and shall be prepared to show proof of a minimum of \$1 million of general liability insurance or the amount specified in this Solicitation (whichever is greater).
- b. That every aspect of the Proposal and the detailed schedule for the execution of the Work, are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of JEA. JEA assumes no responsibility for any understanding or representation made by any of its representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that JEA assumes the responsibility.
- c. That the individual signing the Proposal is a duly authorized agent or officer of the firm. Proposals submitted by a corporation must be executed in the corporate name by the President or Vice President. If an individual other than the President or Vice President signs the Proposal, satisfactory evidence of authority to sign must be submitted upon request by JEA. If the Proposal is submitted by a partnership, the Proposal must be signed by a partner whose title must under the signature. If an individual other than a partner signs the Proposal, satisfactory evidence of authority to sign must be submitted upon request by JEA.
- d. The corporation or partnership must be in active status at the Florida Division of Corporations (www.sunbiz.org) prior to Award.
- e. That the firm maintains in active status any and all licenses, permits, certifications, insurance, bonds and other credentials including, but not limited to, contractors license and occupational licenses necessary to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Proposer shall immediately notify JEA of status change.
- f. That it has read, understands and will comply with these instructions and the Section titled Ethics.

3.3.13. PROHIBITION AGAINST CONTINGENT FEES

The Company warrants that it has not employed or retained any company or person, other than a bona fide employee working for the Company, or an independent sales representative under contract to the Company, to solicit or secure a contract with JEA, and that it has not paid or agreed to pay any person, company, corporation, individual or Company, other than a bona fide employee working solely for the Company, or an independent sale representative under contract to the Company, any fee, commission, percentage, gift, or any other consideration, contingent upon or resulting from the Award or making of the Contract. For a breach or violation of these provisions occurs, JEA

shall have the right to terminate the Contract without liability, and at its discretion, to deduct from the Contract Price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration.

3.3.14. PROTEST OF RFP AND AWARD PROCESS

Companies shall file any protests regarding this RFP in writing and in accordance with the JEA Procurement Code, as amended from time to time. The JEA Procurement Code is available online at jea.com.

3.3.15. SUNSHINE LAW

General

Article I, Section 24, Florida Constitution, guarantees every person access to all public records and Chapter 119, Florida Statutes, provide a broad definition of public records. JEA is a body politic and corporate and subject to these laws and related statutes ("Florida's Public Records Laws"). All responses to this Solicitation are public records and available for public inspection unless specifically exempt by law.

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

JEA

Attn: Public Records

21 West Church Street

Jacksonville, Florida 32202

Ph: 904-665-8606

publicrecords@jea.com

Redacted Submissions

If a Proposer believes that any portion of the documents, data or records submitted in response to this Solicitation are exempt from Florida's Public Records Law, Proposer must (1) clearly segregate and mark the specific sections of the document, data or records as "Confidential," (2) cite the specific Florida Statute or other legal authority for the asserted exemption, and (3) provide JEA with a separate redacted copy of its response (the "Redacted Copy"). The cover of the Redacted Copy shall contain JEA's title and number for this Solicitation and Proposer's name, and shall be clearly titled "Redacted Copy." Proposer should only redact those portions of records that Proposer claims are specifically exempt from disclosure under Florida's Public Records Laws. If Proposer fails to submit a redacted copy of information it claims is confidential, JEA is authorized to produce all documents, data and other records submitted to JEA in answer to a public records request for such information.

In the event of a request for public records to which documents that are marked as confidential are responsive, JEA will provide the Redacted Copy to the requestor. If a requestor asserts a right to any redacted information, JEA will notify Proposer that such an assertion has been made. It is Proposer's responsibility to respond to the requestor to assert that the information in question is exempt from disclosure under applicable law. If JEA becomes subject to a demand for discovery or disclosure of Proposer's redacted information under legal process, JEA shall give Proposer prompt notice of the demand prior to releasing the information (unless otherwise prohibited by applicable law.) Proposer shall be responsible for defending its determination that the redacted portions of its response are not subject to disclosure.

By submitting a response to this Solicitation, Proposer agrees to protect, defend and indemnify JEA from and against all claims, demands, actions, suits, damages, liabilities, losses, settlements, costs and expenses (including but not limited to reasonable attorney fees and costs) arising from or relating to Proposer's determination that the redacted portions of its response to this Solicitation are not subject to disclosure.

4. TECHNICAL SPECIFICATIONS/DETAILED SCOPE OF WORK

4.1. TECHNICAL SPECIFICATIONS/DETAILED SCOPE OF WORK (APPENDIX A)

Technical Specifications and a Detailed Scope of Work are located in Appendix A of this document.

5. FORMS

5.1. FORMS (APPENDIX B)

Forms required to be submitted with this solicitation are provided in Appendix B or can be obtained on the JEA website at www.jea.com.

6. PROJECT DEFINITION

6.1. PROJECT DEFINITION (APPENDIX C)

The project definition can be found in Appendix C.

7. EVALUATION MATRIX

7.1. EVALUATION MATRIX

The attached form is the matrix that will be used to evaluate all proposals submitted in response to this RFP.

**102-16 Appendix A Technical Specifications
ENGINEERING SCOPE OF SERVICES**

Nocatee Re-Pump Facility Augmentation Well

GENERAL

Consultant agrees to provide Engineering Services for the above project as outlined herein.

SCOPE OF SERVICES

The Scope of Work to be performed under this task consists of conceptual design, final detailed design, permitting, bid phase support (if needed), and services during construction for the following:

- A. **Non-potable augmentation well** – One (1) 16-inch Upper Floridan Aquifer raw water production well with a 1,000 GPM capacity
- B. **Well Head Assembly and Raw Water Main**
 - 1. Well head assembly including a vertical turbine pump, associated piping and fittings, all necessary instrumentation and control and electrical equipment, and SCADA system.
 - 2. A raw water main from the proposed well connecting to the reuse water Ground Storage Tank, currently under construction.

The design and specifications shall comply with JEA Water & Sewer Standard Specifications; JEA Water, Sewer and Reclaimed Water Design Guidelines requirements; JEA Rules and Regulations for Water, Sewer & Reclaimed Water Services for water pipeline design; and other applicable standards.

TASK PLAN

General tasks that are to be included in this project include the following:

A. Augmentation Well

- 1. Design Services
 - i. Kickoff Meeting

Lead the design kickoff meeting at the date, location and time established by JEA. Prepare a work plan that addresses project goals expectations, lines of communication, participants, design standards, and schedule. Prepare minutes from meeting.
 - ii. Final Design
 - 1. Well Drilling Bid Documents
 - a. Bid set engineering drawings
 - b. Bid set written specifications

- c. Itemized Bid Form
 - 2. Class 1 cost estimates
 - 3. Asset Management documentation
 - iii. Cost Estimates

Prepare opinions of construction cost in accordance with the Association for the Advancement of Cost Engineering International, Inc. (AACE) for the purpose of assisting JEA in preparing budget funding request. Expected accuracy will be as follows: Class 3 estimate for 30% design deliverable and System study; Class 2 estimate for 60% design deliverable, and Class 1 estimate for 90% and 100% design deliverable.
- 2. Permitting Assistance

Provide assistance to JEA and/or contractor in filing and obtaining all the necessary permits from local and state agencies to include but not limited to:

 - i. SJRWMD CUP letter modification
 - ii. COJ zoning exception, if needed
 - iii. Well construction permit
 - iv. FDEP certificate of completion for Well 8A
 - v. SJRWMD Construction and Testing Plan
 - vi. Environmental Resources Permit (ERP) for stormwater management, if needed
- 3. Bid Phase Services
 - i. Attend the pre-bid conference at the date and time established by JEA.
 - ii. Interpret construction contract documents in regard to Contractor questions. Support JEA with drawings and/or specification updates for addenda issuance. JEA will coordinate and issue all addenda.
 - iii. JEA will conduct the bid opening. Attendance is not required by Engineer at the bid opening.
 - iv. Provide Conformed drawings and specifications. JEA will be responsible for the coordination and distribution of conformed copies of the construction contract documents.
- 4. Services During Construction
 - i. Attend and participate in the pre-construction meeting to answer technical questions
 - ii. Review and approve shop drawings
 - iii. Attend monthly status meetings/site visits or as needed
 - iv. Respond to Contractor RFIs
 - v. Preparation of FDEP certification of completion, with required attachments
 - vi. Walk-through inspection at Substantial and Final completion
 - vii. Review and approve final O&M manuals for the equipment
 - viii. Prepare and submit Record Drawings

B. Well Head Assembly and Raw Water Main

1. Design Services

i. Kickoff Meeting

Lead the design kickoff meeting at the date, location and time established by JEA. Prepare a work plan that addresses project goals expectations, lines of communication, participants, design standards, and schedule. Prepare minutes from meeting.

ii. Conceptual Design, including, but not limited to, the following components:

1. Updated project summary and description
2. Finalized site layout
3. Pump Selection Technical Memorandum
4. Finalized structural, mechanical, architectural, electrical, and instrumentation design parameters
5. Finalized process and instrumentation diagrams (P&IDs)
6. Plan views & major elevation drawings, electrical and I&C drawings
7. Class 3 30% conceptual cost estimate
8. Cost variance analysis
9. List of specifications
10. Preliminary geotechnical report
11. Preliminary survey

iii. Final Design, including, but not limited to, the following components:

1. Final engineering drawings
2. Final written specifications
3. Final bid form
4. Class 1 final cost estimate
5. Asset management documentation
6. Final QC performed
7. Final survey
8. Geotechnical Report

iv. Cost Estimates

Prepare opinions of construction cost at all stages of deliverables in accordance with the Association for the Advancement of Cost Engineering International, Inc. (AACE) for the purpose of assisting JEA in preparing budget funding request. Expected accuracy will be as follows: Class 3 estimate for 30% design deliverable and System study; Class 2 estimate for 60% design deliverable, and Class 1 estimate for 90% and 100% design deliverable. In addition, with each opinion of cost, Consultant will show variances, in percentage and dollar amounts, in estimates of major components of the project. JEA will provide a template for the Consultant to use.

2. Permitting Assistance

Provide assistance to JEA and/or contractor in filing and obtaining all the necessary permits from local and state agencies to include but not limited to:

- i. St. Johns County
- ii. FDEP permit to construct the well, well head assembly and raw water main.
- iii. FDEP certificate of completion.
- iv. Environmental Resources Permit (ERP) for stormwater management, if needed.
- v. SJRWMD well construction permit

Assistance will include the following:

- i. Pre-meetings with permit authorities as needed to insure necessary approvals.
- ii. Preparation of applications, exhibits, drawings, and specifications as needed for execution and submittal.
- iii. Furnishing additional information about the project design as required for permit approval.
- iv. Submittal of applications to the permitting authorities. JEA will provide payment for necessary permits.

3. Bid Phase Services, if needed

- i. Attend the pre-bid conference at the date and time established by JEA.
- ii. Interpret construction contract documents in regard to Contractor questions. Support JEA with drawings and/or specification updates for addenda issuance. JEA will coordinate and issue all addenda.
- iii. JEA will conduct the bid opening. Attendance is not required by engineer at the bid opening.
- iv. Provide Conformed drawings and specifications. JEA will be responsible for the coordination and distribution of conformed copies of the construction contract documents.

4. Services during Construction

- i. Attend and participate in the pre-construction meeting to answer technical questions
- ii. Review and approve shop drawings
- iii. Attend monthly status meetings/site visits or as needed
- iv. Respond to Contractor RFIs
- v. Preparation of FDEP certification of completion, with required attachments
- vi. Walk-through inspection at Substantial and Final completion
- vii. Review and approve final O&M manuals for the equipment
- viii. Prepare and submit Record Drawings

DELIVERABLES

Consultant shall provide deliverables including, but not limited to the following:

A. Augmentation Well

1. Well Drilling Bid Documents – to be completed at the same time as the 30% Design for the Well Head Assembly and Raw Water Main
 - a. Bid set engineering drawings
 - b. Final written specifications
 - c. Itemized Bid Form
 - d. Asset Management Documentation
 - e. Applicable permits

B. Well Head Assembly and Raw Water Main

1. 30% Conceptual Design Documents
 - a. Updated project summary and description
 - b. Finalized site layout
 - c. Pump Selection Technical Memorandum
 - d. Finalized structural, mechanical, architectural, electrical, and instrumentation design parameters
 - e. Finalized process and instrumentation diagrams (P&IDs)
 - f. Plan views & major elevation drawings, electrical and I&C drawings
 - g. Class 3 30% conceptual cost estimate, including variance analysis
 - h. List of specifications
 - i. Preliminary geotechnical report
 - j. Preliminary survey
2. 90% Design Documents
 - a. 90% engineering drawings
 - b. 90% written specifications
 - c. Final design calculations
 - d. Applicable permits
 - e. Asset management documentation
 - f. Class 1 90% definitive cost estimate, including variance analysis
3. 100% Design Documents
 - i. 100% engineering drawings
 - ii. 100% written specifications
 - iii. Final QC
 - iv. Updated Asset management documentation
 - v. Class 1 cost estimates, including variance analysis
 - vi. Final survey
 - vii. Final Geotechnical Report
4. Construction Documents
 - a. Conformed engineering drawings
 - b. Conformed written specifications
 - c. Certificate(s) of Completion

- d. Record Drawings – three (3) sets of signed and sealed Record Drawings and one (1) electronic copy on CD or DVD

INFORMATION BY JEA

The following shall be provided by JEA for this RFP.

- i. Project Definition

SCHEDULE

JEa anticipates the following schedule for the completion of the project:

- Design Dec 2016 – February 2017
- Construction March 2017 – September 2017

**APPENDIX B
PROPOSAL FORM**

102-16 Engineering Services for the Nocatee Re-Pump Facility Augmentation Well

COMPANY INFORMATION:

COMPANY NAME: _____

BUSINESS ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE: _____

FAX: _____

EMAIL OF CONTACT: _____

PROJECT MANAGER PROXIMITY

In order to receive points for this criterion, Company's office must be occupied and staffed with at least three (3) employees for a duration of six (6) months prior to the Proposal Due Date stated in the RFP.

Check the box to confirm Company meets criterion ☐ YES ☐ NO

The Company shall submit one (1) original Proposal, three (3) duplicates (hardcopies), and four (4) CDs or USB drives. If there is a discrepancy between the electronic copy and hard copy, the hard copy will prevail. JEA will not accept Proposals transmitted via email.

Company's Certification

By submitting this Proposal, the Proposer certifies that it has read and reviewed all of the documents pertaining to this RFP and agrees to abide by the terms and conditions set forth therein, that the person signing below is an authorized representative of the company, that the company is legally authorized to do business in the State of Florida, and that the company maintains in active status an appropriate license for the work. The company certifies that its recent, current, and projected workload will not interfere with the company's ability to Work in a professional, diligent and timely manner.

The Proposer certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Company shall immediately notify JEA of status change.

We have received addenda _____ through _____

Signature of Authorize Officer of Company or Agent

Date

Printed Name & Title

Phone Number

102-16 Appendix C

Project Definition

Nocatee Re-Pump Facility

Augmentation well



Prepared For:
JEA Capital Budget Planning

Prepared By:
Robert Zammataro
JEA Water/Wastewater System Planning
21 West Church Street, T-4
Jacksonville, FL 32202
Phone: (904) 665-4488

March 2016
(Revised June 2016)

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Section I - General Information

Project Team

The project team is responsible for establishing the project goals and objectives and project execution. The team will execute the project in accordance with the approved project definition and will submit any revisions as required.

Project Manager:	Hai Vu, PE – Manager, Water Plants E&C
O&M Operations:	Mike Dvoroznak, PE – Manager Water Treatment
System Planning:	Rob Zammataro, PE – Manager, W/WW System Planning
Environmental Services:	Tom Bartol, Mgr Water Policy and Permitting & Compliance

Background/ Justification

JEA serves the Nocatee community in north St. Johns County. This developing community uses Reclaimed Water as a primary source for landscape irrigation. As the Nocatee community matures the demand for reclaimed water is increasing exponentially during peak irrigation times in the spring and summer months.

In the spring of 2015 JEA faced several challenges in meeting the irrigation demands for the Nocatee community. To increase reliability and service JEA has taken several steps to improve the reclaimed water system and reliability in the community.

- Installed additional pumps at the Nocatee pumping facility to provide additional supply to the customers
- Increased the existing storage tank to hold an additional 200,000 gallons.
- Added an augmentation fill line from the potable water system to add additional supply during peak times.
- Installing a new booster pumping station along US1 to deliver more water from the Bartram Facility to the Nocatee facility.

In addition to the near term projects listed above JEA has also started projects which are scheduled for completion for the summer of 2017.

- A new 3 million gallon storage tank at the Nocatee facility.
- A new 2.5 million gallon storage tank at the Bartram pumping facility.
- Upgrading the high service pumps at Bartram Pumping Facility.

Despite all the improvements, meeting demand will still be problematic due to the high demand spikes in the morning hours. More than half of the daily usage occurs in a four hour window, (between 4am-8am). This means the JEA reclaimed water tanks remain full of water for 16 hrs a day without being utilized.

The primary transmission main which delivers water to the Nocatee tank is only 24-inches in diameter. Even though it is considered a large Diameter pipe, during the short high demand period the system cannot keep up with the demand. One solution used by many Utilities is a localized augmentation

source. As a short term solution JEA is installing an augmentation fill line from the potable water system. This is not a desirable solution because the potable fill line will stress the potable water system. A better solution is a local non-potable well for augmentation.

JEA is recommending installing a 1,000gpm well at the Nocatee Reclaimed Water Re-pump facility to assist with the high peak demand periods during the spring and summer months. **This project is needed for reliability**

Annual Consumption

The main function of the augmentation well is to provide assistance during the peak demand of the system. The peak flow occurs during the 4 AM to 8 AM window. The data from a typical spring day is listed in the table below.

Time	Demand 6/14/2015 (SCADA)			Projected 2016 Water Demand (125%)
	MGD	GPM	Tank Water Level	
12:00 AM	2.41	1,673	21.50	2,092
1:00 AM	2.26	1,566	21.58	1,958
2:00 AM	2.73	1,895	21.51	2,369
3:00 AM	2.02	1,403	21.39	1,754
4:00 AM	3.52	2,442	21.10	3,052
5:00 AM	5.11	3,552	17.88	4,440
6:00 AM	7.09	4,926	13.52	6,157
7:00 AM	7.29	5,063	8.65	6,329
8:00 AM	5.45	3,787	5.72	4,733
9:00 AM	2.83	1,962	6.40	2,452
10:00 AM	1.90	1,322	8.72	1,653
11:00 AM	0.96	664	12.56	829
12:00 PM	0.93	649	16.57	811
1:00 PM	0.00	0	20.99	0
2:00 PM	0.73	510	21.12	638
3:00 PM	0.84	581	21.22	726
4:00 PM	0.89	618	21.32	772
5:00 PM	0.36	247	21.51	309
6:00 PM	0.73	508	21.15	635
7:00 PM	1.55	1,078	21.26	1,348
8:00 PM	3.70	2,571	21.40	3,214
9:00 PM	4.64	3,221	21.42	4,026
10:00 PM	4.53	3,142	21.00	3,928
11:00 PM	4.19	2,908	20.73	3,635

To calculate the Annual consumption the worst case scenario was considered. If the 1000gpm pump was utilized for four (4) hours a day for the three month period (12 weeks) during the high irrigation times. **The annual allocation would calculate out to 55,000gal/day.**

Section II - Project Scope

Scope

The scope includes the design and construction oversight services of a 16-inch Floridan Aquifer raw water production well with a 1,000 GPM capacity, vertical turbine pump, wellhead assembly, associated piping and fittings necessary to connect to the Ground Storage Tank, and any necessary instrumentation and control and electrical equipment.

General Requirements

General engineering requirements include the following:

- Engineer shall obtain as-built facility drawings and existing equipment specifications from JEA.
- Engineer shall perform existing facility inspections, obtain required measurements and observe operation and operational tests.
- Engineer's design shall be in accordance with JEA WTP Design Standards and JEA Water and Sewer Standards Manual as amended by the JEA project team.
- Equipment types, specifications and acceptable suppliers shall be those approved by the JEA Standards Committee where applicable.

Capacity

The proposed capacity of the augmentation well is 1,000 GPM, based upon:

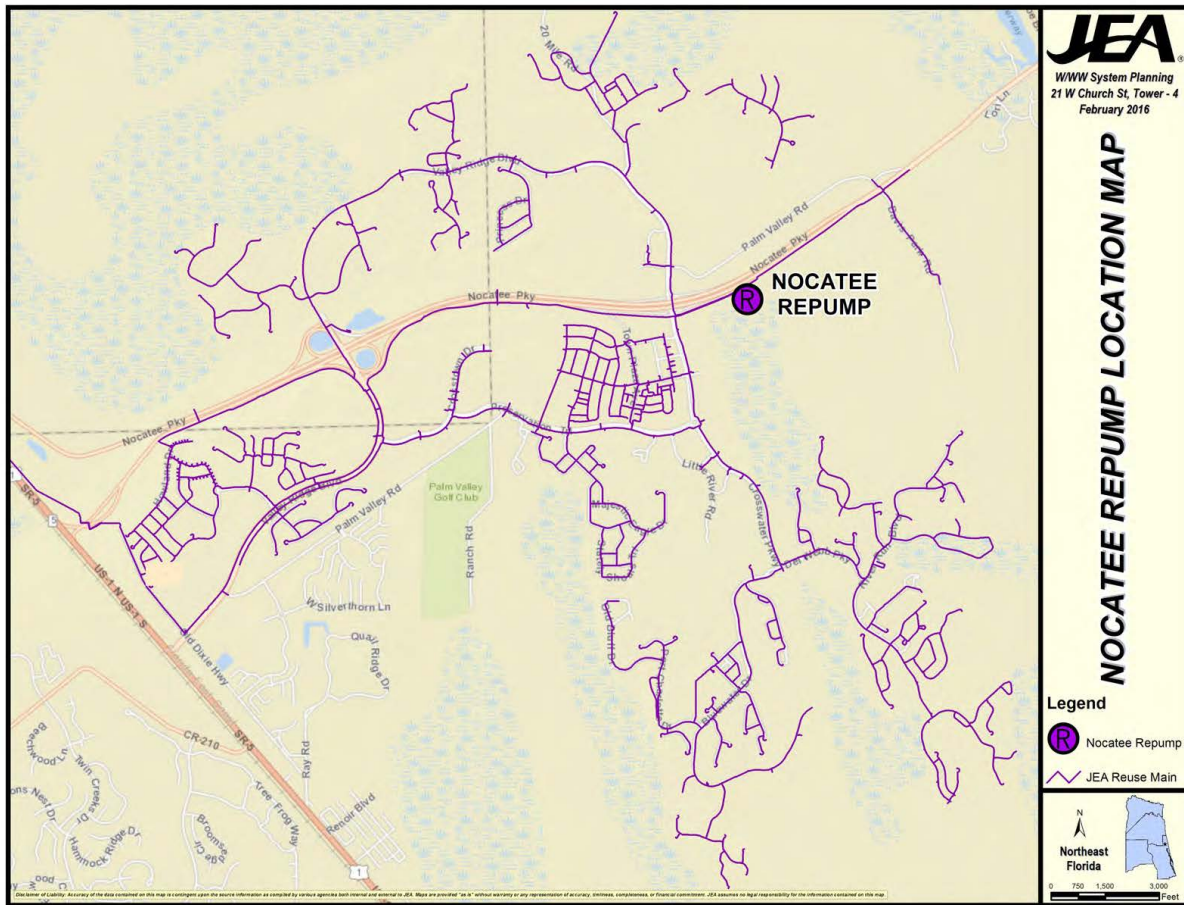
- Estimated potentiometric surface of the Floridan aquifer is 30ft NAVD88, which equate to approximately 10 ft above grade. Assume 10ft degradation over time so static water level will be at grade.
- Estimated Specific capacity 30gpm/ft
- Estimated drawdown 33ft @ 1000gpm
- Tank Ht. 40ft

Based upon an estimated 70TDH and a pump efficiency of 70% the Pump motor will be 30 to 40 HP

Right of Way/Easement or Property Acquisition Issues

The property for the Well is currently owned by JEA. No additional property is needed.

Location Map



Construction Constraints

At least 30 days before construction of any of the proposed wells, JEA must submit to the District for review and approval a well construction and aquifer testing program that includes the following:

- Detailed site map (including road features) of proposed production and monitor well(s) locations.
- Latitude/Longitude of proposed well(s) locations.
- Detailed well specifications and drawings.
- Geophysical Logging Program to be conducted upon completion of each well and include the following: Gamma, Caliper, Electric (SP and electrical resistivity), Fluid Resistivity, Temperature, Flow and Video.
- Downhole water quality testing program to include field-testing at 20-foot intervals upon penetration of the top of the Upper Floridan aquifer for specific conductivity, chlorides, temperature and pH (Production and Lower Floridan monitor wells only).

Proposed aquifer testing program for wells in any new wellfield, will be conducted in accordance with the Aquifer Testing Guidelines outlined in the Consumptive Use Permit, Applicant's Handbook

(December 27, 2010) (Production wells only), unless a District- approved aquifer testing program was already performed for a well in the same wellfield drilled to the same water bearing zone.

Electrical System

This Project will require new electrical and control conduit from the existing MCC. The existing MCC has enough capacity to serve the proposed well.

Regulatory and Permitting Requirements

The following permits (at a minimum) are expected to be required and obtained by the Company:

- St. Johns River Water Management District (SJRWMD) Consumptive Use Permit (CUP)
- SJRWMD Well Construction Permits

Section III – Cost & Implementation

Project Deliverables

Consultant shall provide the following deliverables to include but not limited to:

30% Schematic Design Documents	<ul style="list-style-type: none">• Project Summary and description• Site layout• Process flow diagram• Summary of design parameters• Structural, mechanical, architectural, electrical, and instrumentation design parameters• Process calculations• Electrical one-line diagram• Process and instrumentation diagrams (P&IDs)• Major equipment listing• Plan views & major elevation drawings, electrical and I&C drawings• Class 3 30% conceptual cost estimate, including Variance Analysis• List of specifications• Preliminary survey, if required
90% Design Documents	<ul style="list-style-type: none">• 90% engineering drawings• 90% written specifications• Final design calculations• Applicable permits• Asset management documentation• Class 1 90% definitive cost estimate, including Variance Analysis
100% Design Document	<ul style="list-style-type: none">• Final engineering drawings• Final written specifications• Final QC performed• Class 1 final cost estimate• Final survey

Project Schedule

Major activities are as follows:

- Design Consultant Selection/Procurement
- Design/Permitting
- Construction Contractor Procurement
- Construction/ Startup
- Project Closeout

Table No.1 - Project Schedule

[illegible]

Project Management & Delivery

Table No.2 – Project Management & Delivery			
Stage	Administered by:	Performed by:	Submittal To Capital Budget
Project Definition	W/WWSP	W/WWSP	PD
10% Schematic Design	JEA Eng. Services	Eng. Consulting Team	
30% Conceptual Design	JEA Eng. Services	Eng. Consultant Team	Checkpoint, Trend (if necessary)
90% Detail Design	JEA Eng. Services	Eng. Consultant Team	
100% Final Design	JEA Eng. Services	Eng. Consultant Team	Checkpoint, Trend (if necessary)
Bid	JEA Eng. Services	JEA Procurement	Checkpoint, Trend (if necessary)
Construction	JEA Eng. Services	Contractor	

Opinion of Probable Cost

The proposed budget is shown in Table No. 3. The basis of the estimate is the recent completed project Well No.13. The estimate includes Construction, JEA Services, Engineering, and Engineering services during construction. The construction costs listed in the table include Contractor mark-ups such as overhead and profit. A 15% contingency has been added based on the level of detail known at the time of the estimate. A 3% allowance has also been added for JEA costs (e.g. project management. The expected accuracy range of the estimate – 20%/+40%. The cost estimate is based on 2016 dollars. The projected cash flow by fiscal year is provided in Table No.4.

Table No. 3			
ACTIVITY/DESCRIPTION		Calculated	Budget Amount
Total Contractor Costs (x 1,000)			
Wellhead			\$250
	Pumping Equipment		
	Piping		
	Electrical, MCC (Incl. VFD's)		
	SCADA Modification		
Well			\$400
	Subtotal		\$650
Estimating Contingency @15%	10%		\$50
	Total Direct Costs		\$700
JEA Cost & Engineering (x 1,000)			
Engineering /Permitting			\$100
Project Management			\$30
Services During Construction/Inspector			\$20
	Subtotal		\$850
	TOTAL PROJECT COST		\$850

Cash Flow Projection (x 1,000)

Activity/Phase	FY2016	FY2017	FY2018	TOTAL
JEA Project Mgmt.	\$2	\$25	\$3	\$30
Design Engineering		\$100		\$100
Services During Construction		\$20		\$20
Construction		\$610	\$90	\$700
TOTAL	\$2	\$755	\$93	\$850