



DATE: November 28, 2016

TO: Ruffin Hall, City Manager

CC: Marchell Adams-David, Assistant City Manager
Diane B. Sauer, Parks, Recreation and Cultural Resources Director

FROM: Kate Pearce, Parks, Recreation and Cultural Resources, Senior Planner
Stephen C. Bentley, Parks, Recreation and Cultural Resources, Superintendent

SUBJECT: Flower Cottage Lease at Dorothea Dix Park

On June 3, 2016, the Raleigh City Council approved the Memorandum of Understanding (MOU) between the City of Raleigh (the City) and the Dix Park Conservancy (Conservancy). The terms of the MOU outline that the City will explore options for an office site for the Conservancy on Dix Park. The City and the Conservancy identified a 1.6 +/- acre site including a small cottage, known as the Flower Cottage, as the potential site.

The purpose of the lease agreement is to allow use of the identified property by the Conservancy to support the planning, development, and operation of Dorothea Dix Park. The lease agreement defines the following details:

- Term: Nine years
- Rent: \$1.00/year
- Open Space: Subject to prior written approval by the City, the Dix Park Conservancy has the option to use approximately 2.75 +/- acres of open space, adjacent to the Leased Premises for public and/or private events, in accordance with applicable laws, statutes, and ordinances.
- Condition: The Conservancy agrees to accept the property "as is" and is responsible for all improvements.
- Insurance and Liability: The Conservancy will carry property insurance in an amount equal to the full replacement cost of improvements on the Leased Premises and a policy of general liability and umbrella or excess liability insurance.



City Of Raleigh

NORTH CAROLINA

To: Ruffin Hall, City Manager
From: Aaron Brower, P.E., Public Utilities Assistant Director
CC: Robert Massengill, P.E., Public Utilities Director
Date: December 14, 2016
Re: Approval – Sole Source Procurement – Big Branch South Pump Station Expansion

The Big Branch South Pump Station expansion project is near the bid stage process. This project includes the addition of a third pump, instrumentation, controls and SCADA modifications, as well as other pump station upgrades for future area growth. Sole sourcing or limiting competition on certain plant components and work will offer certain benefits and cost savings to the City that other manufacturers or vendors cannot offer. As per General Statute 143-129 (e)(6), the City Council may waive competitive bidding when a need for standardization and compatibility is an overriding consideration.

CITI – Instrumentation, Control System Integration, SCADA: CITI has been the instrumentation and control system integrator consultant for many projects with the Public Utilities Department over the past several years. Utilizing one integrator for the entire system minimizes the potential programming complications that can cause operational malfunctions and reduces security risks associated with giving multiple vendors access to sensitive controls that operate the City's water and wastewater treatment plants and pump stations. CITI has submitted an estimate of \$68,250 which includes instrumentation, new PLC, SCADA integration, and associated equipment.

Aurora Pump represented by Mechanical Equipment Company (MECO) - Vertical Turbine Solids Handling Pump, suction elbow, stand, and spare rotating assembly. The existing Big Branch South PS was originally designed to include a future third pump, and currently uses two Aurora pumps. A third Aurora pump for this capacity increase will provide standardization of equipment at the pump station, reduce maintenance costs, and simplify control and operation of the pump station. The City's consultant, Highfill Infrastructure, recommends the sole source procurement of the Aurora Model 613 pump provided by MECO at an estimate of \$92,200.

JWC Environmental Channel Monster Grinders represented by Heyward, Inc. – (2) 5 MGD Hydraulic Drive Grinders: The existing channel grinder needs to be replaced and additional grinder capacity provided for the expansion. Public Utilities have several JWC grinders in many of the existing sewer pump stations and would like to provide for standardization to reduce maintenance costs. The City's consultant, Highfill Infrastructure, recommends the sole source procurement of the (2) 5 MGD grinders provided by Heyward at an estimate of \$143,860.

Recommendation:

Approve the sole source procurement of the equipment and services specified.



HIGHFILL
INFRASTRUCTURE
ENGINEERING, P.C.

2703 Jones Franklin Road, Suite 201
Cary, North Carolina 27518
Tel 919-481-4342 Fax 919-882-9762

December 13, 2016

Ms. Janeen Goodwin, PE
Project Engineer
City of Raleigh Public Utilities Department
One Exchange Plaza, Suite 620
Raleigh, NC 27601

RE: Big Branch South PS Expansion – Sole Source Justification
HIGHFILL Project No.: RAL1502

Dear Ms. Goodwin:

The Big Branch South PS Expansion project includes the addition of a third pump, instrumentation, controls, and SCADA modifications, as well as other pump station upgrades. Our recommendation is to sole source the pump, spare rotating assembly, influent sewage grinder, and SCADA modifications for station consistency, and ease of operation.

Mechanical Equipment Company (MECO) is recommended as the sole source provider for the third pump, suction elbow, stand, and spare rotating assembly. Consistent with the other pumps in the station, the new pump will be an Aurora pump. We recommend contracting with MECO so that all pumps in the station are by the same manufacturer. MECO has provided a proposal for the pump, motor, accessories, suction elbow, stand, spare rotating assembly and startup in the amount of \$92,187.00. The quoted price does not include tax.

Heyward is recommended as the sole source provider for the two influent sewage grinders to be installed. The new grinders will be JWC Channel Monsters. The City Operations staff would like to standardize their sewage grinders and many of the existing sewer pump stations already have JWC grinders in place. Operations staff has found that using JWC's "trade-in" program reduces downtime due to maintenance and repairs. Operations staff has discovered that they cannot perform the grinder repairs as efficient and cost effective as JWC. Heyward has provided a proposal for the grinders needed for this project in the amount of \$143,860.00 for two grinders (\$71,930.00 each grinder). The quoted price does not include tax.

CITI, LLC (CITI) is recommended as the sole source provider for the instrumentation, control system integration, and SCADA modifications. CITI is familiar with this station, has done previous work at this station, and has provided similar services to CORPUD for many other projects. CITI's knowledge and station familiarity will likely reduce complications that can arise from these types of modifications. CITI has provided a proposal for the materials, services, and labor needed for this work in the amount of \$68,248.59.

We have reviewed the Heyward, CITI, and MECO proposals and find them to be reasonable and within the scope of this project. We recommend that Heyward, CITI, and MECO be accepted as sole source providers for this project. If approved, the proposals will be included in the bid documents as an allowance and the successful bidder will be required to coordinate with Heyward, CITI, and MECO to construct a complete project. If you have any questions or need additional information, please contact us.

Engineering is our profession. Service is our passion.

Sincerely,

HIGHFILL INFRASTRUCTURE ENGINEERING, P.C.

A handwritten signature in black ink that reads "Eddie Sasser". The signature is written in a cursive style with a large, stylized initial "E".

Eddie Sasser, PE
Project Manager



4030 Yancey Road, Charlotte, NC 28217
 P.O. Box 33758, Charlotte, NC 28233
 PHONE 704.969.2484 FAX 704.969.2480
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SYSTEMS INTEGRATOR

WWW.CITI-LLC.COM

CITI SCOPE PROPOSAL C16253

Date: November 11, 2016
To: Bidding Contractors
Project: City of Raleigh, NC
 Big Branch South PS Expansion
Reference: Telemetry Equipment and Services

CITI, LLC, an equipment supplier, offers to furnish the following described materials and services as our scope in accordance with the attached "Conditions of Sale" and other provisions that are referenced herein. This proposal and pricing shall remain in effect for 60 days.

Please note that CITI, LLC is a N.C. Dept. of Administration HUB certified Hispanic owned business.

CITI Scope Summary

| ITEM | QTY | DESCRIPTION |
|------------------|-----|--|
| Materials | | |
| 1 | 1 | Raleigh WW RTU control panel with Type 4 wall mount 48"Hx36"Wx12"D enclosure including the following equipment: <ul style="list-style-type: none"> • Momentum PLC with I/O modules providing 64 DI, 16 DO, 8 AI • 10" Magelis Operator Interface Terminal • 900 MHZ radio and radio coaxial cable connection • DC power supply with UPS battery backup • Surge suppression for 120V power input • Five channel intrinsically safe relay • Four Liquid Level Control relays for discrete level inputs to PLC • Switches for PM visit acknowledgement, backup lead and lag pump selection, Multitrode probe selection (WW1 or WW2), alarm test, and alarm silence. |
| 2 | 1 | Yagi directional antenna |
| 3 | 1 | Lot of coaxial antenna transmission cabling for interconnection of RTU panel and antenna. |
| 4 | 2 | Type N male coaxial cable connector for terminating coaxial cable ends. |
| 5 | 2 | Weatherproofing kit for type N coaxial connectors. |
| 6 | 1 | Coaxial cable grounding kit and materials for grounding of antenna system. |
| 7 | 2 | Siemens XRS-5 ultrasonic transducer with 30M of integral cable. ¹ |
| 8 | 1 | Pressure transducer assembly per Detail on contract drawing C-2.0, including Siemens Sitrans P200 pressure transmitter, Ashcroft Type 82 threaded isolation ring with Safe Quick Release™ and needle valve and 2" SS Ball valve and threaded nipple for connection to tapping saddle that will be provide by others. |
| 9 | 2 | Multitrode multipoint level sensing probe system with the following components: <ul style="list-style-type: none"> • 3 meter probe with 10 sensor points and 30 meters of cable² • 5 sensor Intrinsically Safe Barrier (to be installed in RTU control panel) |
| 10 | 2 | Suspended float type level switch with 60 ft integral cable (backup high level float). |

¹ Manufacturer cable shall be connected to terminals provided by others in Wet Well Junction Box. Two-conductor shielded cable as specified in Attachment A shall be provided by others to interconnect from Wet Well Junction Box to RTU control panel.

² The maximum cable length available with the multi-sensor probe is 30 meters. The cable shall be terminated at the Wet Well Junction Box and extended from there to the RTU panel using ten 14 AWG individual conductor control cables or a single equivalent 10-conductor cable.



SYSTEMS INTEGRATOR

CITI Scope Proposal C16253
 City of Raleigh, NC
 Big Branch South PS Expansion
 Telemetry Equipment and Services
 November 11, 2016
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| ITEM | QTY | DESCRIPTION |
|-----------------|-----|--|
| 11 | 1 | Red strobe alarm light with NEMA 4X housing and ½-inch conduit mounting connection. |
| 12 | 1 | Alarm horn with NEMA 4X wall/rack mount junction box and ½-inch conduit connection. |
| Services | | |
| 13 | 1 | Combined RTU control panel, instrumentation and telemetry hardware submittal |
| 14 | 1 | RTU PLC programming and telemetry SCADA application programming at Neuse River WWTP for new I/O and monitoring/control |
| 15 | 1 | OIT application development |
| 16 | 1 | Relocate existing SCADA pole to new location as identified on contract drawing E2.1 |
| 17 | 1 | Antenna and coaxial cable installation. |
| 18 | 1 | Coaxial cable terminations and grounding installation. |
| 19 | 1 | Telemetry equipment startup |
| 20 | 1 | Field instrumentation configuration and verification for instruments in our scope |
| 21 | 1 | External connection/loop checks for I/O signals to RTU Panel |
| 22 | 1 | Operations training for instrumentation and controls in this scope |
| 23 | 1 | Final documentation for PLC and SCADA programming applications electronic files stored on Neuse River WWTP NAS drive. |

CITI Price Summary

| | |
|---|-------------------------------------|
| <i>Total Price for CITI scope of materials and services =</i> | \$ 68,248.59 including taxes |
|---|-------------------------------------|

CITI Clarifications:

1. The scope of this proposal excludes all of the following regardless of the specification responsibility statements:
 - Equipment mounting racks and stands, sensor support brackets, support anchors and hardware, flange fitting accessory kits, pipe taps, isolation valves, etc. as may be required or shown on the contract drawings, unless specifically listed in our materials scope;
 - Field wiring materials, power disconnect switches, conduits, junction boxes, and pull boxes;
 - Analog and power circuit surge protection for field components and instruments supplied by others;
 - Nametags for field components and instruments supplied by others;
 - Materials not specifically listed in our scope;
 - Building or work permits;
 - Demolition or relocation of existing instrumentation and panels;
 - Onsite supervision of equipment installation;
 - Field wiring terminations of power and control wiring at panels, field instruments, and process components;
2. Materials will be released for manufacture and shipment to the job site upon receipt of the approved submittal and your authorization. After your authorization to release, you must accept deliveries when equipment is available. You must assume custody upon delivery and provide suitable facilities in accordance with the specifications for on-site storage until materials are installed and powered. Our hardware submittals will be available within 6 weeks after receipt of an executed order. Materials can be fully delivered in accordance with an agreed upon schedule within 12 weeks after approval of the submittal.
3. After your completion of equipment installation and field wiring terminations, we will begin the field services described in our scope herein. You will need to have qualified staff present during this testing to assist in verifying that each external connection to the equipment is correctly wired and to operate the interconnected field process equipment and panels furnished by others.
4. All materials are warranted for 18 months after delivery, 12 months after completion of their respective acceptance testing, or 12 months after the original project completion date, whichever occurs first. We will be

“Our Innovation Sets Standards”



SYSTEMS INTEGRATOR

CITI Scope Proposal C16253
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responsible for shipping and repair costs for non-conforming or defective items during the warranty period. You will be responsible for removal, appropriate packaging, return shipment, receipt, and re-installation of any equipment items which you originally installed.

5. Our insurance coverage is: general liability - \$1,000,000/\$2,000,000; auto liability - \$1,000,000; excess liability - \$1,000,000; and workers compensation - \$1,000,000. If any additional coverage or endorsements are required, the charges for additions to our policy will be charged to you as an extra expense at actual cost times a multiplier of 1.15.
6. We will retain all rights to Intellectual Property developed under this project and will grant the end user non-transferable rights to its use and modification.
7. Shipping is FOB factory, freight cost allowed. Payment terms for this project are net 30 days after the date of each invoice. Payment to CITI shall not be dependent on you being paid by any third parties. Materials that are delivered or approved for storage in our facility will be billed complete at time of delivery/storage in accordance with a pre-submitted schedule of values. Services will be billed on a percentage completed against this schedule of values.
8. We will accept retainage being withheld from the progress payments due to us if it is applied the same as the Owner applies retainage against the prime contract. Retainage withheld from us must be paid in full within 60 days after we complete our scope of supply regardless of the retainage status against the prime contract. Changes to retainage against us must occur within seven days after the Owner changes the prime contract retainage.
9. If you request for us to start work prior to receipt of an executed purchase order, it must be understood that you accept this proposal with its clarifications and conditions of sale, and negotiation of a purchase order with different terms and conditions will not be considered.
10. We will accept a purchase order for our scope of supply subject to these clarifications and the attached CITI, LLC "Conditions of Sale". A subcontract will not be accepted. The order will need to incorporate this proposal or specifically include within its body the listing of materials, services, and clarifications from this proposal so as to define our scope of supply and terms. Flow down clauses will not be accepted. All terms of our agreement must be specifically listed in the order.

If you have any questions about our scope of supply please call us. Thank you for your consideration.

CITI, LLC

Anthony Ciresi, PE, PMP
Sr. Project Manager

Attachment: Attachment A: Siemens Ultrasonic Transducer Cable Specs
CITI, LLC Conditions of Sale

Providing exceptional engineered solutions and services since 1940

August 12, 2016

Water

Jeffrey B. Ray
Highfill Infrastructure Engineering, PC
2703 Jones Franklin Road
Raleigh, NC 27518

Wastewater

Fluid

Steam

Reference: Big Branch PS Improvements – Aurora Pump Pricing

Dear Jeff:

We are pleased to offer the Aurora Model 613 pump below to meet the requirements of this project and match the existing units.

| <u>Quantity</u> | <u>Description</u> |
|-----------------|--|
| 1 | Aurora Model 613, Size 10x12x22 vertical sewage pump, dry pit heavy cast iron construction, 705 rpm operating speed, Double Mechanical Seals with carbon vs ceramic faces and Flush-through seal box; Hardened 440C Stainless Steel Wear Rings; Suction Elbow/Stand with clean out 60 hp, 720 rpm, 3/460V, 445HP Fr, TEFC Premium Efficient motor with special T20 coupling and heavy duty motor support stand |

Price: \$62,307.00

Additional Item:

Rotating Assembly for pump described above, pump model 613 size 10x12x22, PF 5H with double mechanical seal (flush-through arrangement), stainless steel impeller wear rings and stainless steel case wear rings \$29,988.00

Estimated Shipment: 14-16 weeks; F.O.B. Factory, Freight Prepaid and Added to Invoice
Terms: 100% net 30 Days. 1½% will be added each month to any balance remaining after 30 days.
Not included: Installation, taxes and any items not listed above.

Thank you for this opportunity to be of service. Please let me know if you have questions. I will be glad to help further in any way that I can.

Sincerely,

Bob McCollum

Robert E. McCollum Jr. PE
Raleigh Office
C: 919-971-1931
E: bmccollum@mechequip.com

THIS QUOTATION IS SUBJECT TO
THE FOLLOWING TERMS AND CONDITIONS OF SALE

1. All prices in this quotation are firm for a period of 30 days and, if accepted, material is subject to immediate shipment unless stated otherwise.
2. Deliveries are subject to change from those quoted and are based on factory availability.
3. MECO reserves the right to bill an additional 3% on orders if the customer elects to pay via Credit Card instead of by check or EFT.
4. MECO does not accept consequential damages or liquidated damages.
5. This quotation includes only equipment and/or services specifically covered in writing herein. We do not certify nor imply that it is in exact conformity with customer's specifications unless so stated herein.
6. Equipment or parts furnished hereunder are manufactured by others and will be repaired or replaced only to the extent of the original manufacturer's guarantee or warranty.
7. We shall not be liable for delay in delivery or failure to manufacture due to causes beyond our control such as acts of God, acts of government, strikes, war, delays of carriers and inability to do things beyond our control to obtain necessary labor, materials or manufacturing facilities.
8. Prices quoted do not include any present or future sales, use, excise or similar taxes. Such taxes will be added to billing where applicable unless customer provides us with a tax exemption certificate acceptable to the taxing authorities.
9. Unless stated otherwise, all sales are FOB factory. Terms of payment are 100% Net 30 days from date of shipment or from date goods are available to ship if customer requests MECO to store goods. 1½% will be added each month to any balance remaining after 30 days. Storage fees will apply should customer request storage or delayed delivery.
10. If a progress payment is unpaid beyond agreed terms, MECO reserves the right to suspend production on any applicable project until the account is in good standing.

The foregoing terms and conditions hereof shall constitute the entire agreement of the parties with respect to any order issued on this quotation and accepted by us.



JWC Environmental
 2850 S. Red Hill Ave. Suite 125
 Santa Ana, CA 92705, USA
 Phone: 949.833.3888
 Toll Free: 800.331.2277
 Fax: 714.242.0240
Page: 1

Quote # 36395

To Heyward Services, Inc **Contact** Richie Shaw
 2101 Cambridge Beltway Dr Ste A
 Charlotte, NC 28273-3372
 US

FOR INTERNAL JWCE and JWCE AGENT ONLY. DO NOT DISTRIBUTE!

All orders will be billed the applicable sales tax, based on the "ship to address", unless a valid tax exemption certificate is provided prior to shipment.

| | | | |
|--|--------------------------------------|--------------------|-------------|
| Project | Big Branch Pump Station Expansion | Bid Date | |
| Quote Date | 12/12/2016 | FOB | Origin |
| Submittals | 4 weeks after receipt of order | Expire Date | 03/31/2017 |
| Ship Equipment | 8 weeks after approval/release | Terms | NET 30 DAYS |
| Consulting Engineer Spec. Section | No Plans, No Specifications | | |

LINE ITEMS

| Line No | Qty | Part/Description |
|---------|-----|--|
| 1 | 1 | CDD2410-XDS2.0 CDD2410-XDS2.0 Channel Monster® system suitable for up to 5 MGD in 31"w x 36"d channel (refer to JWC Environmental flow curves for additional performance data). Scope of supply to include: Grinder with 24" cutter stack using 7-tooth cam cutters in 4130 alloy steel, Optimum Cut Control gearing, 10 dia. 304 stainless steel rotating drum with 1/2" perforation, tungsten carbide mechanical seals with BUNA-N elastomers rated for 90 psi, Cork & Rubber gaskets, hunter green epoxy coated ductile iron end housings with drum siderails, and hydraulic torque motor |
| 2 | 1 | PC2240 Motor Controller PC2240 motor controller in a NEMA 4X 304ss enclosure accepting 460v/3ph/60Hz input power, includes IEC starter with over-current protection, jam-sensing current transformer, low oil level, high oil temp. indicating LED lamps and micro-PLC |
| 3 | 1 | Standard Hydraulic Power Pack Hydraulic power pack with 5hp TEFC 460v/3ph/60Hz motor, (2) 1/2" - 20' hoses with 304 SST quick disconnect fittings at the motor |
| 4 | 1 | Standard Frame Channel-mounting frame assembly fabricated in 304 stainless steel |
| 5 | 1 | Lifting Bail Assembly Lifting bail assembly fabricated in 316 stainless steel |
| 6 | 4 | Operation & Maintenance Manuals |
| 7 | 1 | Shipping & Handling |
| 8 | 1 | Start Up Day of start-up supervision by a factory-authorized representative |

**CITY OF RALEIGH
NORTH CAROLINA
INTER-OFFICE CORRESPONDENCE**

MEMORANDUM

DATE: December 15, 2016

TO: Ruffin Hall
City Manager

FROM: Michael Rogers
Transportation Director

SUBJECT: Fortify Forty Transit Service – Creative Bus Sales

Recommendation:

The Transit Division recommends a contract with Creative Bus Sales for the lease of nine transit buses with a capacity of twenty-four passengers. This request includes a budget amendment to provide funds through calendar year 2017 to lease nine transit buses to be used for transit services to and from Southern Wake County for traffic mitigation during the Fortify roadway project that will be under construction through calendar year 2017. All expenses associated with the bus lease are 100% reimbursable by GoTriangle. Expenses for the lease of the nine buses will be invoiced and received monthly from GoTriangle, who in turn is reimbursed by NCDOT. Should the I-40 Fortify project be completed prior to the end of the lease term, GoRaleigh shall use the leased buses on selected contract routes operated by GoRaleigh for GoTriangle. There will be no cost to the City of Raleigh for the lease of the nine buses over the 12 month term of the lease; the lease costs are a billable expense. This contract was endorsed by the Raleigh Transit Authority on March 10, 2016.

Funding for the leased bus agreement is below.

Increase Revenue Account:
410-0000-530900-580 \$535,140
Misc Revenue - Transit
Increase Expense Account:
410-7470-711040-580 \$535,140
Lease-Equipment

Recommendation:

Authorize the City Manager to execute the contract and approve the budget amendment totaling \$535,140. Accounting details are included with the agenda packet.

