



# Engineering & Construction Workshop

October 31, 2012

# Engineering and Construction Workshop - Agenda

- **Introductions/Safety Briefing**

Greg Perrine, VP Facilities & Logistics Services

- **Welcome**

Paul McElroy, CEO/Managing Director

- **Procurement Update**

John McCarthy, Director Procurement Services

- **Update on Infrastructure Projects**

Pete Sheridan, Director Projects

- **JEA Development**

Pete Hallock, Development Project Advisor



# Procurement Update

John McCarthy, Director Procurement Services

# Procurement Update Agenda

## Water & Sewer Engineering Services

- Process Overview
- Process Goals
- Changes discussed during last Workshop
- Proposed Change from lessons learned
- Topics for next Workshop

# JEA's RFP Process Overview

## Water & Sewer Engineering Services

- During FY11, JEA introduced a new process that involved issuing individual RFPs for each project >\$35K to Pre-Qualified Firms
- JEA's previous process selected from a pool of Firms having General Services Agreements with JEA
- New Process also provided ability to directly assign work <\$35K per project to Pre-Qualified Firms
- 92 Pre-Qualified Firms have been approved in 20 different categories of Engineering Services work since this program began

# JEA's Evaluation Process Goals Water & Sewer Engineering Services

- Provide Opportunities for Qualified Engineering Firms
- Select most Qualified Firm(s) for specific project(s)
- Strong local preference for offices in Jacksonville
- Promote JSEB Opportunities
- Faster Cycle Times
- Increased Transparency
- Improve Evaluation Process

# Changes from last Workshop

## Water & Sewer Engineering Services

- > \$35K Work
  - Evaluation Criteria Changes
    - Increase Volume of Work from 5 to 10 points
    - Score Proximity of Project Manager only and increase to 10 points
  - More prescriptive RFPs to reduce process costs
  - Project Bundling to select multiple firms from Solicitation
  - Implement a formal Evaluator Training Program
- < \$35K Work
  - Increased communications and transparency – continue to increase Awards to Local HQ and JSEBs

# Proposed Change from Lessons Learned Water & Sewer Engineering Services

- Lessons Learned from Greenland WTP Project
  - Relatively large project
  - Volume of Work Category motivated behavior not in JEA's best interest
    - Larger Firms subcontracted under Smaller Firms to receive more evaluation points
  - In JEA's best interest to contract directly with Firm most responsible for the success of the project
  - Going forward, JEA intends to eliminate Volume of Work Category for larger projects, e.g. Engineering Fee > \$300K, and move these points to JSEB and Proximity Categories



# Topics for next Workshop

## Water & Sewer Engineering Services

- JEA Procurement will conduct its annual Vendor Survey for this process and present findings at next Workshop
- JEA Procurement will also update info on Contract Awards at next Workshop



# Update on ECS Infrastructure Projects

Pete Sheridan, Director Projects

# ECS Project Work Review

- Bid Activity Last Six Months
- Future Bid Activity, next 12 months
  - First Half of FY 2013 (October '12 to March '13)
    - Engineering
    - Construction
  - Second Half of FY 2013 (April '13 to September '13)
    - Engineering
    - Construction



# Bid Activity Last Six Months

# Bid Activity Last Six Months –

## Engineering:

- Plant (Electric, Water & Wastewater) -
  - General Power Engineering Service Contract - \$5M – Black & Veatch\*
  - Fairfax WTP Reservoir Rehabilitation - \$270K -Hazen & Sawyer, P.C.
  - Greenland WTP - \$920K - Jacobs Engineering Group, Inc.
- Substation/Transmission –
  - Point Meadows Substation-Site Design - \$343K – Fred Wilson and Associates

\* Subject to Negotiation and Award

# Bid Activity Last Six Months –

## Engineering:

- Grid (Water & Wastewater) –
  - St. Augustine Road – (Wishart St. to Inwood Terr.) - \$104K, J. E. Collins Engineering
  - Clark Rd to District II Force Main Replacement - \$160K, Gannett Fleming
  - Barnes Rd. Force Main Replacement - \$70K, Jones Edmunds

# Bid Activity Last Six Months –

## Construction:

- Plant (Electric, Water & Wastewater) –
  - District II Effluent Diversion - \$987K – T. G. Utility Company, Inc.
  - Brandy Branch Generating Station, New Shared Services Building – \$639K – Genesis Construction & Management, Inc.
  - Service Area Monitoring Wells - Rowe Drilling Company - \$1.6M
  - Arlington East UV Conversion - Ortega Industrial Services - \$4M
  - Arlington WTP: Fill Line & Booster Pump Station – Sawcross, Inc.- \$1.765M (*subject to award approval 11/11/12*)
- Substation/Transmission –
  - Jax Heights 230kV Circuit 954 Intercon & Termination Bay - \$250K
  - Georgia St Circuit Breaker and Grounding System - \$179K

# Bid Activity Last Six Months –

## Construction *continued*:

- Grid (Water & Wastewater) -
  - San Jose Phase Out – Tie to Royal Lakes Outfall – \$980K, TB Landmark
  - San Jose Phase Out - Plant Master Pump Station - \$417K, Grimes Utilities
  - Septic Tank Phase Out, Lincoln Villas Service Area I - \$360K, Eagerton Plumbing
  - University Blvd, Stetson Rd to St Augustine Rd - \$557K, TB Landmark
  - North Jax FM, Pulaski to Main Street - \$983K, Callaway Contracting, Inc.
  - San Jose Blvd, St Augustine to Miruelo Circle N - \$567K, Petticoat Schmitt



# Bid Activity Last Six Months –

## Construction *continued*:

- Grid (Water & Wastewater) -
  - TWMP:
    - Segment 3, Arco Rd to Arlington WTP - \$1.898M, Callaway Contracting, Inc.
    - Segment 4, Arlington WTP to Arlington Expressway - \$3.52M, Sayar Enterprises
    - Segment 5, Arlington Expressway to Southside Blvd - \$3.18M, JB Coxwell



# Future Bid Activity

**What's planned for the next 6 months?**

(October '12 to March '13)

# Future Bid Activity

10/01/12 – 3/31/13

## Engineering:

- Plant (Electric, Water & Wastewater) –
  - Ponce de Leon WTP High Service Pump Bldg. Replacement – Nov' 12 - \$56K
- Substation/Transmission –
  - None
- Grid (Water & Wastewater) –
  - None

# Future Bid Activity

10/01/12 – 3/31/13

## Construction:

- Plant (Electric, Water & Wastewater) –
  - Buckman Digesters 1 & 2: Cover Replacement – Nov'12 - \$3.6 M
  - Greenland Production Wells – Nov'12 - \$1.5 M
  - Greenland Water Treatment Plant – Feb'13 - \$4.0 M
  - Abandonment of 26 Offline Production Wells – Feb'13 - \$1.5 M
- Substation/Transmission -
  - Firestone 230kV to 69kV Autotransformer Addition - \$450K

# Future Bid Activity

10/01/12 – 3/31/13

## Construction *continued*:

- Grid (Water & Wastewater) -
  - Barnes Road Force Main Replacements - \$582K
  - Clark Road to District II Force Main Replacements - \$2.5M
  - Riverside Avenue, San Juan to Edison Avenue - \$2.5M
  - Normandy Blvd. from Lane Ave to Verna Blvd 12" WM - \$189K
  - Melvin Road from Ricker Rd to Melvin Circle Water Main Replacement - \$500K
  - Septic Tank Phase Out, Lincoln Villas Service Area 2 - \$1.3M
  - Carder Street to Kingsbury Water and Force Main Replacement - \$1.1M
  - TWMP:
    - Segment 6, Bradley Rd (SS to Cortez Rd) - \$2.52M (bids received)



# Future Bid Activity

**What's in the queue for  
second half of FY2013?**

(April '13 to September '13)

# Future Bid Activity

4/01/13 – 09/30/13

## Engineering:

- Plant (Electric, Water & Wastewater) –
  - None
- Substation/Transmission –
  - Cecil Commerce North Substation – Civil Site Design - \$250K
- Grid (Water & Wastewater) –
  - Timuquana Road at Ortega River Force Main Replacement - \$80K

# Future Bid Activity

4/01/13 – 09/30/13

## Construction:

- Plant (Electric, Water & Wastewater) –
  - Northside Medical Facility - September'13 - \$750K
  - Ponce de Leon WTP High Service Pump Bldg Replacement – May '13 - \$700 K
  - Fairfax WTP Reservoir Rehab – May'13 - \$1.2 M
- Substation/Transmission -
  - Kennedy T-14 Addition & T2 Upgrade - \$500K
- Grid (Water & Wastewater) –
  - None



# Summary of Next 12 months work for Plant, Substation/Transmission & Grid - Electric, Water & Wastewater

- October 2012 to March 2013:
  - Engineering: \$ 56,000
  - Construction: \$ 23,441,000
  - Total 1st half: \$ 23,497,000
- April 2013 to September 2013 :
  - Engineering: \$ 330,000
  - Construction: \$ 1,900,000
  - Total 2nd half: \$ 2,230,000

**Next 12 months total work is estimated at:  
\$25,727,000**

# FY 14 Look Ahead

CP Number	Project Description
DE090-01	St Johns North WTP - Packed Tower Replacement
PP100-36	N Jax FM – New Berlin Rd to T-Line - FM
PP100-44	N Jax FM - Pulaski MPS to T-Line - S
PP100-48	William Burgess - SR200 to Harts Rd - FM

**FY 14 total work is estimated at:  
\$17,952,000**

PP138-04	Mandarin WRF High Level UV Upgrade
PP156-03	Buckman WWTF Bio Gas Upgrades
PP175-25S	Timuquana Road at Ortega River - S
PP175-27S	Ductile Iron FM Replacement - R&R
DE180-09	Alachua Master Pump Station Improvements
PP180-15	Keyhaven Pump Station - Force Main Improvements
PP417-10	T-Line – Glen Kernan to Gate Parkway Reclaimed Transmission
PP417-19	Reuse Storage Tank at Cedar Bay WRF (District II)
PP417-23	Nocatee Reclaimed Water Storage Expansion & Supplemental Water
PP711-18	Buckman WWTP - Bio-filter Bed Replacement
PP711-20	Biosolids Cake Loading and Unloading - New project to replace "Biosolids Drum Dryer Roll and Replacement"
PP737-01	Norwood WTP Reservoir Rehab

Thank you for your continued interest and for calling the area directors and managers directly for the most current information. Their contact numbers are:

<b>NAME</b>	<b>Position</b>	<b>Phone Number</b> (all have 904-665 prefix)	<b>Email Address</b> (end in @jea.com)
Edwin Dendor	Director of Plant & Facility Projects	6079	dendeh
Margaret Limbaugh	Manager of Power Plant Projects	7334	limbmz
Hai Vu	Manager of Water, Wastewater & Facility Projects	4028	vuhx
Vijay Burbure	Director of Substation & Transmission Projects	6782	burbva
<b>Michael Short</b>	Manager of Substation & Transmission Projects	<b>7048</b>	<b>shorml</b>
John Norse	Manager of Electric Grid Project Design	6074	norsjw
Ken Talley	Manager of Electric Grid Project Construction	6092	tallkm
<b>Darrell Hamilton</b>	Manager of Electric Protection Systems & Controls	<b>7137</b>	<b>hamidd</b>
<b>Pete Sheridan</b>	Dir of Water & WW Grid, Joint & Development Projects	<b>7409</b>	<b>sherpj</b>
<b>Bradley Collier</b>	Manager of TWMP Projects	<b>6493</b>	<b>collbw2</b>
<b>Pete Hallock</b>	Development Project Advisor	<b>8689</b>	<b>hallpc</b>
Bradley Collier	Manager of Water & Sewer Grid Projects	6493	collbw2
Jim Connolly	Manager of Construction Support Services	6313	connjm
<b><del>Pete Sheridan-TBD</del></b>	Manager of Joint projects (COJ, FDOT, JTA, JPA, Adjacent Counties)	7409	sherpj
Ann Freudenthal	Manager of Project Support and Controls	7655	freuca
Charles Bayless	Manager of Project Support and Controls	6304	baylcb



# JEA Development

“Building a Better Community Together”

Pete Hallock, Development Project Advisor

# JEA Development

- Reorganized division
- Seasoned Development Advisor
- Reanalyzing How we do business
- Customer Service Focus
  - Proactive
  - Quick and Consistent Reviews

# JEA Development

- Encourage Pre-Application Meetings
  - JEA Guidance
  - Opportunity for Developer
  - More information the better we can help
  - Water/Sewer/Electric
  - JEA Plan/Project Submittal List

# JEA Development

- Plan Submittal (Water/Sewer)
  - 15 day review time
  - Phased Developments
    - Within the City of Jacksonville
    - Outside the City of Jacksonville
  - Submit PDFs, along with Hard Copy



## Water/Sewer/Reuse Project Submittal Check List

- 1. Current Service Availability Letter
- 2. Executed JEA Agent of Authorization Form
- 3. Copy of Division of Corporation (Sunbiz) (sunbiz.org)
- 4. Property Appraiser's map defining property
- 5. Hydraulic Calculations (water and/or sewer)
- 6. Executed Industrial Waste Pre-treatment Determination Survey (if applicable)
- 7. Soil Borings for Pump Station
- 8. 2 Sets of completed development plans (paper and PDF) 24" x 36"
- 9. A CD of project submittal or email a PDF
- 10. Connection Pressure Letter (if applicable)
- 11. Copy of existing JEA easements
- 12. Intent to Construct and Dedicate Application (Required if anything is done in the right-of-way)

# JEA Development

- Plan Submittal (Electric)
  - Start design at Preliminary Submittal
    - Assist with Development Schedules
    - Assist with Platting/Easement Process
  - Need drawing files




# JEA Development

- Acceptance Process
  - Critical Final Step
  - Time Sensitive
    - Bacteriological Tests
    - Development Construction
  - Successful Project

# JEA Development

- Acceptance Process
  - How to be Successful
    - Final Inspections
    - Easements/Plats finalized and recorded
    - Engineers Final Certification
    - Owners Affidavit
    - All Fees Paid
    - Dedication Asset Breakdown Letter
    - Asbuilts with easement recording
    - Testing certifications and results
  - JEA Cannot Release Meters Until the above is completed



**JEA**  
Building Community

**ACCEPTANCE CHECKLIST**

PROJECT: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 DEVELOPER: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 UTILITY CONTRACTOR: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 AVAILABILITY NO.: \_\_\_\_\_

ACCEPTANCE CHECKLIST AND ATTACHMENTS

1. Engineer's Certificate of Compliance: Certificate in accordance with para 854.124 (Subdivision Regulations is online). Original with PE Seal

2. Clearance Certificate on Water, Sewer and Storm Main: Letters of notification.

3. Pressure Test Certification: "Passed" pressure test results for both water, storm and sewer force mains.

4. Pump Station "Start-Up": A copy of pump station start-up report with the name of Pump (ex: Myers), control panel (ex: Nitron) and pumps to address.

5. Record of Final Inspection: Final inspection record should indicate addressees and deficiencies noted. The original with Project Engineer/Inspector's Certification that all punch-list items have been satisfied.

6. Owner's Affidavit: The original affidavit should be completed by the owner or developer. The affidavit should address JEA not the City of Jacksonville. Original and Notarized

7. Approved As-Built Drawings Letter: Approval letter, received for water main, sewage collection systems, sewage lift stations and manholes to be accepted by maintenance prior to issuance of final acceptance letter.

8. Dedication Asset Breakdown Letter – A detailed letter of the utility assets being dedicated should be submitted.

Example:

Sanitary Sewer Collection System			
Mains			
	Quantity	Cost Per Unit	Total Cost
8" PVC (DR 25)	850	\$25.30	\$21,250.00
Water Distribution System			
Mains			
	Quantity	Cost Per Unit	Total Cost
8" PVC (DR 25)	600	\$18.50	\$11,000.00
Storm Distribution System			
Mains			
	Quantity	Cost Per Unit	Total Cost
8" PVC (DR 25)	400	\$12.50	\$5,000.00

# JEA Development

- Process Changes Underway
  - Blackbelt & Risk Analysis Studies
    - Improve efficiency
    - Improve consistency
  - Bench Mark Studies
    - Review of other agencies
    - Compare JEA
  - JEA Development Advisory Committee

# JEA Development

- Process Changes Underway
  - Close Coordination with NEFBA
  - Water/Sewer Standard Changes
  - Design Guideline Changes

# JEA Development

- What Have We Achieved So Far?
  - Macro – Culture Change
  - Micro
    - Proposed Standards Changes posted prior to implementation
    - Electric Design Process Improvement
    - Water Only Meter for Lift Stations
    - Landscaping Plan for Lift Stations (COJ)



# JEA Development

## Division Goal

“The JEA Development Group Members, from Plan Reviewer through management, are considered (by the Development Community, other counties and utilities) to be experts in their field.”

# JEA Development

## Quotable Quotes

- July 11, 2012 RE: Old San Jose  
“I would like to thank you for all your assistance. We are grateful that JEA has employees that take pride and responsibility (in what they) do.”
- July 28, 2012 RE: Max Leggett / Parkway Shops  
DeWayne Hein commented to others “JEA has turned around and has been a huge help in getting our project completed on time.”
- August 9, 2012 RE: Dollar General, Normandy Blvd.  
“Thank you .....for all your help. You were available and provided the kind of service we have come to expect from JEA. I work in multiple municipalities in the state and JEA has always been the best to work with.”
- August 28, 2012 RE: Telephone call from Toney Sleiman  
“I am calling for one reason only – to tell you that you all are doing a great job. JEA used to be very difficult to work with, but now it has completely turned around.”
- September 7, 2012 RE: Durbin Crossing North Phase 2F-2  
“Great turn around, thank you very much. My builders will be glad.”