



**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

| Fiscal Years                            | 2013                       | 2014            | 2015            | 2016            | 2017            |
|---|----------------------------|-----------------|-----------------|-----------------|-----------------|
| Capital Expenditures                    | <u>\$241,597.94</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>        |
| External Revenues                       | <u>0</u>                   | <u>0</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>        |
| Program Income (County)                 | <u>0</u>                   | <u>0</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>        |
| In-Kind Match County                    | <u>0</u>                   | <u>0</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>        |
| <b>NET FISCAL IMPACT</b>                | <b><u>\$241,597.94</u></b> | <b><u>0</u></b> | <b><u>0</u></b> | <b><u>0</u></b> | <b><u>0</u></b> |
| # ADDITIONAL FTE POSITIONS (Cumulative) | <u>0</u>                   | <u>0</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>        |

Budget Account No.: Fund 4011 Dept 721 Unit W014 Object 6502

Is Item Included in Current Budget? Yes X No     

Reporting Category N/A

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

One (1) time capital expenditure from user fees with balances brought forward.

C. Department Fiscal Review: Debra M. West

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Development and Control Comments:**

[Signature] 8/19/2013  
OFMB HW 8/16 2013

[Signature] 8/19/13  
Contract Development and Control

**B. Legal Sufficiency:**

[Signature] 8/20/13  
Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
Department Director

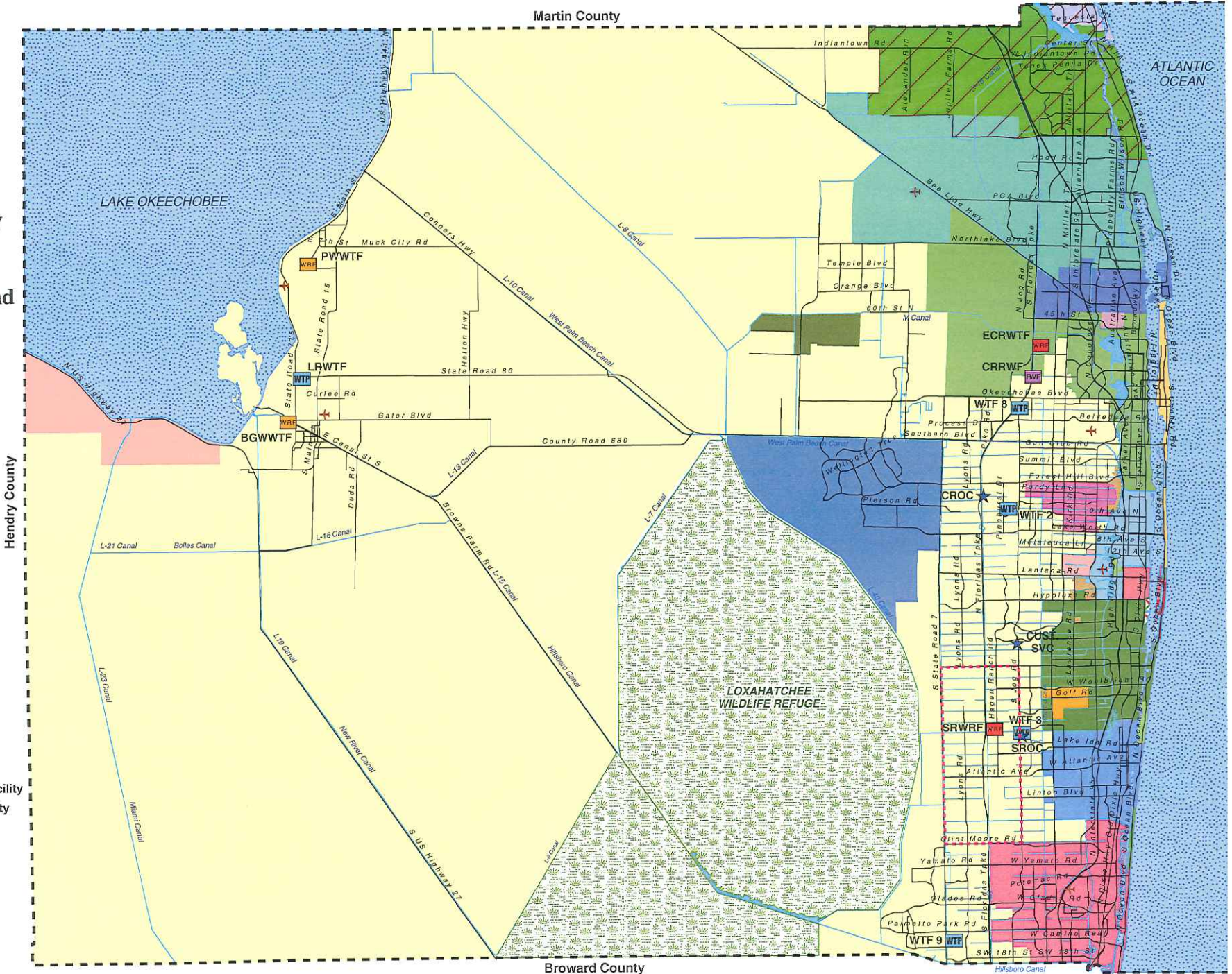
This summary is not to be used as a basis for payment.



**Palm Beach County  
Water Utilities  
Department  
Service Area (SA) and  
Major Facilities**

Attachment 1

- Legend**
- ★ Administration
  - WTF Water Treatment Facility
  - WRF Reclamation Facility
  - WRPF Wastewater Reclamation Facility
  - WRWF Wastewater Treatment Facility
  - Mandatory Reclaimed SA
  - - - Palm Beach County Limits
  - Yellow P.B.C.W.U.D. Service Area



Martin County

ATLANTIC OCEAN

Hendry County

Broward County



**CONSENT TO ASSIGNMENT**

**THIS CONSENT TO ASSIGNMENT** ("Consent"), relating to the Water, Wastewater and Reclaimed Water Improvements Design Build Contract (R2012-0160D), approved by the Palm Beach County Board of County Commissioners on January 24, 2012 (the "Contract"), is entered into by Palm Beach County (County); Calvin Giordano & Associates, Inc., ("Assignor") and Cardinal Contractors, Inc. ("Assignee").

**WITNESSETH:**

WHEREAS, Assignor and Assignee have entered into that certain Assignment and Assumption of Agreement (Attachment A) dated July 26, 2013, pursuant to which Assignor proposes to assign the Contract to Assignee ("Assignment"); and

WHEREAS, Assignee and Assignor have requested that the County consent to the assignment and transfer of the Contract;

WHEREAS, County hereto wishes to provide its consent to the assignment and transfer of the Contract from Assignor to Assignee under the terms and conditions contained herein;

WHEREAS, Assignor desires to assign the Contract to Assignee in accordance with the terms and conditions set forth below;

NOW, THEREFORE, in consideration of the mutual terms, conditions, promises, covenants, and payments hereinafter set forth, the receipt and sufficiency of which are hereby acknowledged, County, Assignor and Assignee agree as follows:

1. The foregoing recitals are true and correct and are incorporated herein by reference.
2. County hereby consents to the assignment and transfer of the Contract from Assignor to Assignee.
3. This Consent shall not operate as a waiver of any prohibition against further assignments or transfers without the County's consent.
4. By entering into this Consent County does not in any manner adopt, accept or approve any of the terms or conditions of any of the agreements between Assignor and Assignee pertaining to assignment, if any.
5. This Consent shall not operate or be construed as any waiver of any term, condition, right or remedy of County under the Contract.
6. Effective as of July 26, 2013 as contemplated by the Assignment by and between Assignor and Assignee:
  - (a) Under this Consent, Assignor hereby grants, bargains, sells, conveys, transfers, assigns, and sets over its entire rights, and delegates its entire obligations under the Contract to Assignee.
  - (b) Assignee hereby accepts the assignment of the Contract from Assignor and acknowledges and represents to the County that it will abide by and assume each and every term, obligation and condition including, but not limited to, each and every responsibility, duty, and obligation of Assignor set forth in the Contract.

7. Any notices required by the terms of the Contract shall be delivered as directed therein to Assignee at:  
    Cardinal Contractors, Inc.  
    5365 Stirling Road  
    Fort Lauderdale, FL 33314
  
8. Except as otherwise set forth herein, the terms and conditions of the Contract, shall remain in full force and effect between the parties. In case of a perceived conflict between the terms of the Contract and this Consent, the terms of this Consent shall govern.
  
9. The individuals executing this Consent on behalf of Assignor and Assignee represent that they have full authority to execute this document on behalf of the entity for which they are acting herein.
  
10. This Consent may be executed in any number of counterparts which, collectively, shall constitute one and the same instrument. Facsimile signatures shall be effective as original signatures with regard to this Consent. Each party represents to the other that the execution and delivery of this Consent by such party have been properly authorized and that all signatures are genuine.

IN WITNESS WHEREOF, the parties hereto have made and executed this CONSENT TO ASSIGNMENT on the respective dates under each signature: the Board of County Commissioners of Palm Beach County, Florida, has made and executed this Consent on behalf of the said County and caused the seal of the said County to be affixed hereto on the \_\_\_ day of \_\_\_\_\_, 2013; Calvin Giordano & Associates, Inc., signing by and through its authorized signatory, duly authorized to execute same; and Cardinal Contractors, Inc., signing by and through its authorized signatory, duly authorized to execute same.

ATTEST:  
 SHARON R. BOCK  
 CLERK AND COMPTROLLER

PALM BEACH COUNTY, FLORIDA, A  
 Political Subdivision of the State of Florida  
 BOARD OF COUNTY COMMISSIONERS

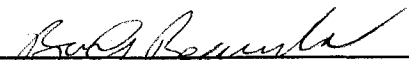
\_\_\_\_\_

By: \_\_\_\_\_  
 Steven L. Abrams, Mayor

APPROVED AS TO FORM AND LEGAL  
 SUFFICIENCY

APPROVED AS TO TERMS AND  
 CONDITIONS

\_\_\_\_\_  
 Assistant County Attorney

  
 \_\_\_\_\_  
 Bevin A. Beaudet, P.E., Director  
 Water Utilities Department

Dawn Hopkins

(witness signature)

Dawn Hopkins

(witness name printed)

(Corporate Seal)

RW

(witness signature)

Robin C. Wilson

(witness name printed)

(Corporate Seal)

Calvin Giordano & Associates, Inc.

By: Shelley Eicher

Shelley Eicher  
(print signatory's name)

Senior Vice President  
(print title)

Cardinal Contractors, Inc.

By: WJMcD

William J. McDevitt

(print signatory's name)

President

(print title)

Attachment A

**ASSIGNMENT AND ASSUMPTION OF AGREEMENT**

This ASSIGNMENT AND ASSUMPTION OF AGREEMENT (the "Assignment") is made and delivered as of July 26<sup>th</sup>, 2013 (the "Effective Date"), by and between CALVIN, GIORDANO & ASSOCIATES, a Florida Corporation (the "Assignor"), and CARDINAL CONTRACTORS, INC. ("Cardinal"), a Florida corporation (the "Assignee").

**RECITALS**

- A. Assignor and Palm Beach County Florida ("Palm Beach County") are parties to that certain "Water, Wastewater & Reclaimed Water Improvements Design/Build Contract Project No. WUD 11-134" dated as of January 24, 2013, R2012-0160 (the "Agreement").
- B. The Agreement pertains to the performance by Assignor of certain design/build services for Palm Beach County Florida, as more particularly described in the Agreement.
- C. Assignor desires to assign to Assignee all right, title, interest, privilege, benefit and remedies of Assignor in and to the Agreement, and Assignee desires to accept such assignment and assume the obligations of Assignor under the Agreement, all on the terms and conditions set forth below.

**AGREEMENT**

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee agree as follows:

- 1. **Assignment.** From and after the Effective Date, Assignor hereby assigns and transfers to Assignee all right, title, interest, privilege, benefit, remedy, obligation, duty and responsibility of Assignor in, to and under the Agreement.
- 2. **Assumption.** From and after the Effective Date, Assignee hereby accepts such assignment and assumes the obligations of Assignor to Palm Beach County under the Agreement, to the extent of such obligations accruing from and after the Effective Date. Assignor shall defend, indemnify and hold harmless Assignee from and against any liability, damages, causes of action, expenses, costs, and attorney's fees incurred by Assignee by reason of any breach or failure of Assignor to fulfill, perform, discharge or observe its obligations under the Agreement arising before the Effective Date.

3. Representations and Warranties In making this Assignment, Assignor warrants and represents to Assignee the following:

a. Assignor has authority to make this Assignment, has the written consent of Palm Beach County to enter into this Assignment, if required by the Agreement, and is the sole owner of the rights, title, interests, privileges, benefits and remedies set forth in the Agreement. Assignor has not previously assigned, sold, pledged, transferred or otherwise encumbered any of its rights, title, interest, privileges, benefits and remedies under the Agreement.

b. The copy of the Agreement that Assignor has delivered to Assignee is complete and correct.

c. As of the Effective Date, the Agreement is in full force and effect and is enforceable in accordance with its terms, and no default, breach, or event which could constitute a default or breach after notice or passage of time exists with respect to the Agreement.

4. Miscellaneous.

a. Nothing in this Assignment shall be construed or interpreted to affect or reduce the obligations of the parties under the Agreement.

b. This Assignment shall be binding on the parties and their respective successors and assigns.

c. The headings to paragraphs of this Assignment are for convenient reference only and shall not be used in interpreting this Assignment.

d. This Assignment shall be governed by and interpreted in accordance with the laws of the State of Florida.

e. This Assignment may be executed in counterparts, each of which shall be deemed an original, and both of which together shall constitute one and the same instrument. Execution of this Assignment by any party may be evidenced by facsimile.

5. This Assignment is conditioned on the consent to this Assignment and approval of the terms hereof by the Palm Beach County Board of Commissioners. In the event this Assignment is not approved by the Palm Beach County Board of Commissioners, the Assignment shall have no effect and all of its terms shall be null and void.

IN WITNESS WHEREOF, the parties have executed this Assignment as of the date first written above.

*[Signatures on following page]*



ASSIGNEE:

CARDINAL CONTRACTORS, INC.,  
a Florida corporation

By: [Signature]  
Name: William J. McDevitt  
Title: President

[Signature]  
Robin C. Wilson Assistant Secretary

ASSIGNOR:

CALVIN, GIORDANO & ASSOCIATES, a  
Florida corporation

By: [Signature]  
Name: DENNIS GIORDANO  
Title: PRESIDENT

[Signature]



**AMENDMENT NO. 1**

**THE BOARD OF COUNTY  
COMMISSIONERS OF PALM BEACH  
COUNTY, FLORIDA, WATER,  
WASTEWATER AND RECLAIMED  
WATER IMPROVEMENTS DESIGN BUILD  
CONTRACT (R2012-0160D)**

**WHEREAS**, On January 24, 2012, Palm Beach County Board of County Commissioners approved the Contract for Water, Wastewater and Reclaimed Water Improvements Design/Build Services with Calvin, Giordano & Associates, Inc. (R2012-0160); and

**WHEREAS** the Board of County Commissioners consented to the assignment of the Contract from Calvin Giordano & Associates, Inc. to Cardinal Contractors, Inc.; and

**NOW, THEREFORE, BE IT MUTUALLY AGREED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA AND CARDINAL CONTRACTORS, INC., that:**

1. Replace General Provisions Section F.6 (Builders Risk Insurance) with the following:

**BUILDER'S RISK** With respect to any of the work involving the construction of real property (buildings and improvements other than buildings) during the construction project, the Contractor shall maintain, at County's sole expense, Builders Risk insurance providing coverage for the entire work at the project site, and will also cover portions of work located away from the site but intended for use at the site, and will also cover portions of the work in transit. Coverage shall be written on a All-Risk, Replacement Cost, and Completed Value Form basis in an amount at least equal to the projected completed value of the project as well as subsequent modifications of that sum. If a sublimit applies to the perils of wind or flood, the sublimit shall not be less than 25% of the projected completed value of the project. The deductible shall not exceed \$25,000, nor shall a wind percentage deductible, when applicable, exceed five percent (5%).

Partial Occupancy or use of the work shall not commence until insurance company or companies providing insurance as required have consented to such partial occupancy or use. Contractor shall take reasonable steps to notify and obtain consent of the insurance company or companies, and agree to take no action, other than upon mutual consent, with respect to occupancy or use of the work that could lead to cancellation, lapse, or reduction of insurance.

The coverage shall be kept in force until Substantial Completion has been obtained, or until no one but the County has any property interest in the project, or until Contractor and County mutually consent to the termination, whichever occurs first. The Contractor agrees and understands the County shall not provide any Builder's Risk insurance on behalf of Contractor for loss or damage to work, or to any other property of owned, hired, or borrowed by the Contractor. County shall be responsible for payment of any applicable deductible amounts, except to the extent the underlying loss or damage results from the fault, negligence or misconduct of Contractor or any of its subcontractors, vendors, officers, employees or agents whether or not covered by insurance, in which case Contractor shall be responsible for payment of the deductible amounts.

2. General Provisions Section F.13, Insurance Coverage & Limit Table, add the following:

|  |  |
|--|--|
| <p><b><u>BUILDERS RISK:</u></b><br/>Limit not less than:</p>   | <p>The total project completed construction value as well as subsequent modifications to that sum.</p> |
| <p>Endorsement to waive coverage termination from Occupancy Clause.</p>                                  | <p>Yes</p>   |
| <p>Endorsement cover until final acceptance of the project by Certificate of Occupancy by the Owner.</p> | <p>Yes</p>   |
| <p>Additional Insured &amp; Loss Payee endorsements required:</p>  | <p>Yes</p>   |

3. The Clerk of this Board shall cause this Amendment to be recorded as part of the Contract.

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida, has made and executed this Contract on behalf of the said County and caused the seal of the said County to be affixed hereto, and the Contractor has hereunto set his hand and seal the day and year written. The Contractor represents that it is authorized to execute this contract on behalf of itself and its Surety.

ATTEST:  
SHARON R. BOCK  
CLERK AND COMPTROLLER

PALM BEACH COUNTY, FLORIDA, A  
Political Subdivision of the State of Florida  
BOARD OF COUNTY COMMISSIONERS

\_\_\_\_\_

By: \_\_\_\_\_  
Steven L. Abrams, Mayor

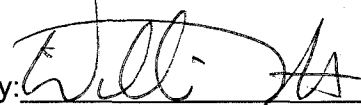
APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY

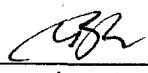
APPROVED AS TO TERMS AND  
CONDITIONS

\_\_\_\_\_  
Assistant County Attorney

  
\_\_\_\_\_  
Bevin A. Beaudet, Director  
Water Utilities Department

CARDINAL CONTRACTORS, INC.

By:   
\_\_\_\_\_  
(signatory)

  
\_\_\_\_\_  
(witness signature)

William J. McDevitt  
\_\_\_\_\_  
(print signatory's name)

Robin C. Wilson, Assistant Secretary  
\_\_\_\_\_  
(witness name printed)

President  
\_\_\_\_\_  
(print title)

(Corporate Seal)

July 26 \_\_\_\_\_, 2013  
(date of execution)

10405 Technology Terrace  
\_\_\_\_\_  
(Contractor's Official Address)

Lakewood Ranch, FL 34211  
\_\_\_\_\_  
(Contractor's City, State, Zip Code)

**WORK AUTHORIZATION NO. 02**  
**Palm Beach County Water Utilities Department**  
**Water, Wastewater & Reclaimed Water Services**

**Project No. WUD 12-022**  
**District: 5**  
**Budget Line Item No. 4011-721-W014-6502**  
**Project Title: SCADA System Tower Improvements**

**THIS AUTHORIZATION No. 02** to the Contract for Water, Wastewater & Reclaimed Water Services Design-Build dated January 24, 2012 (R2012-0160), by and between Palm Beach County and the Design Build Entity as assigned to Cardinal Contractors, Inc., is for the Design-Build Services of this Work Authorization. The Contract provides for 26% SBE participation overall. This Work Authorization includes 60.18% overall participation. The cumulative proposed SBE participation, including this authorization is 51.28% overall. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

1. DESIGN-BUILD ENTITY: Cardinal Contractors, Inc.
2. ADDRESS: 10405 Technology Terrace Lakewood Ranch, FL 34211
3. Description of Services (Scope of Work) to be provided by the Design Build Entity:

See **ATTACHMENT A.**

4. Services completed by the Design Build Entity to date:

See **ATTACHMENT G.**

5. Design Build Entity shall begin work promptly or deliver ordered materials within the following calendar days from the approval date of the Work Authorization:

Substantial Design Completion (not including permitting) 135 Calendar Days after receipt of executed Work Authorization and notice to proceed with design.

Substantial Construction Completion 150 Calendar Days after receipt of all permits and issuance of notice to proceed with construction.

Final Construction Completion 180 Calendar Days after receipt of all permits and notice to proceed with construction.

Liquidated damages will apply as follows:

\$1,000 per day past substantial completion date.

\$500 per day past final completion date.

(For Liquidated Damages Rates see ATTACHMENT B)

The parties hereby agree and acknowledge that County's actual damages in the event of delay would be difficult or impossible to ascertain and that the foregoing liquidated damages amount represents a liquidated sum of damages agreed upon by the parties as a measure of damages in the event of such delay and not as a penalty.

6. The Guaranteed Maximum Price to be paid to the Design Build Entity for providing the requested services in accordance with the Contract shall be \$ 241,597.94, subject to adjustment in accordance with the terms of the Contract.
7. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 01/24/2012 remain in full force and effect.



WORK AUTHORIZATION NO. 02

Project No. WUD 12-022

Project Title: SCADA System Tower Improvements

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

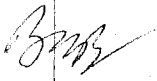
Sharon R. Bock, Clerk & Comptroller,  
Palm Beach County

Palm Beach County,  
Board of County Commissioners

ATTEST:

Signed: \_\_\_\_\_

Signed: \_\_\_\_\_  
Steven L. Abrams, Mayor



Typed Name: \_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_ Date

Approved as to Form and Legal  
Sufficiency

Signed: \_\_\_\_\_

Typed Name: \_\_\_\_\_  
County Attorney

DESIGN BUILD ENTITY:

Cardinal Contractors, Inc.

ATTEST:

\_\_\_\_\_  
Witness

\_\_\_\_\_  
(Signature)

Robin C. Wilson, Assistant Secretary  
(Name and Title)

William J. McDevitt, President  
(Name and Title)

(CORPORATE SEAL)

8/6/2013  
Date

**LIST OF ATTACHMENTS**

**WORK AUTHORIZATION NO. 02**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

|                       |   |
|-----------------------|---|
| <b>ATTACHMENT – A</b> | Scope of Work   |
| <b>ATTACHMENT – B</b> | Rate for Liquidated Damages   |
| <b>ATTACHMENT – C</b> | Public Construction Bond  |
| <b>ATTACHMENT – D</b> | Form of Guarantee   |
| <b>ATTACHMENT – E</b> | Work Authorization Cost Schedule  |
| <b>ATTACHMENT – F</b> | SBE Schedule 1 and Schedule 2   |
| <b>ATTACHMENT – G</b> | Authorization Status Report - Summary and Status of Authorizations      |
| <b>ATTACHMENT – H</b> | Authorization Status Report - Summary of SBE/Minority Business Tracking |
| <b>ATTACHMENT – I</b> | Location Map  |
| <b>ATTACHMENT – J</b> | Design-Build Criteria   |
| <b>ATTACHMENT – K</b> | Vendor Quotes   |

# ATTACHMENT A

## WORK AUTHORIZATION NO. 02

Palm Beach County Water Utilities Department

Water, Wastewater & Reclaimed Water Services Design-Build Contract

### SCOPE OF WORK FOR

### SCADA SYSTEM TOWER IMPROVEMENTS

#### INTRODUCTION

Palm Beach County (County) entered into an agreement entitled Water, Wastewater & Reclaimed Water Improvements - Palm Beach County Water Utilities Department Project No. WUD 11-134 (CONTRACT) with Calvin, Giordano & Associates, as assigned to Cardinal Contractors, Inc. (DESIGN BUILD ENTITY) to provide design-build services for various general activities on the Water, Wastewater & Reclaimed Water Services Design-Build Contract dated January 24, 2012, (R2012-0160). This Work Authorization will be performed under that CONTRACT.

This Work Authorization encompasses providing services related to design, permitting, and construction services as required to complete the work associated with demolition of the existing communications tower and the construction of a new 99' communications tower at WTP 9 in accordance with this Work Authorization and the associated design criteria attached hereto as Attachment J. The new tower will be used for automatic meter reading (AMI), lift station supervisory control and data acquisition (SCADA), and wellfield SCADA.

The proposed work to be performed by the Design-builder generally includes furnishing all labor, equipment, materials, tools, supervision, and services required to design, construct, test, and startup the completed improvements described in detail in the Design Criteria (See Attachment J) and generally described below.

This project includes the design, site planning, permitting, and construction of a 99' communication tower. After completion and start-up of the new tower and related communications systems, the Design-Builder shall remove the existing 900 MHz antenna from the roof of the control building and demolish the existing 80' collapsible SCADA tower with 400 MHz antennas on the west side of the pump room. The concrete foundation at the existing tower shall be removed to a depth of not less than 12" below adjacent finished grade. The new tower shall be located on the west side of the pump room approximately 10 to 20 feet from the existing 80' tower. An angled Subsurface Utility Excavation (soft dig) trench will be undertaken at the footer site to ensure that the new tower and its footer do not impact the existing pipe networks. Topographic surveys of the area between the building and the wall for 50 feet north and south of the tower site will be secured to locate all aboveground

improvements and topography on a 10' grid. Soil borings shall be secured at the new tower location for use in design. The existing SCADA antenna systems must remain in service until construction and testing of the new tower and systems is complete. Therefore, existing antennas and cables will not be transferred to the new towers. Instead, the Design-builder shall install a County-furnished meter reading antenna and shall furnish and install new SCADA antennas and all communications lines to the new tower.

## **SCOPE OF SERVICES**

Design Build Entity shall perform the Scope of Services as described herein:

### **Task 1 – Data Collection and Surveys**

1. Receive NTP for Design
2. Review as-built drawings and specifications. Examine demolition and structural requirements.
3. Determine electrical and instrumentation requirements.
4. Coordinate with existing plant SCADA, confirming available I/O.
5. Conduct field surveys including Subsurface Utility Excavation.
6. Conduct soil borings.
7. Research various communication tower suppliers and submit preferred tower type and material specifications to the County for approval.
8. Summarize permitting approval requirements.

### **Task 2 – 90% Design**

1. Design demolition of existing tower.
2. Design structural components
3. Electrical design associated with the proposed 400 MHz SCADA receiving and sending antennas and the 900 MHz wellfield antenna for the proposed communications tower.
4. Electrical design associated with the proposed AMI meter reading antenna on the proposed communications tower. Design of the meter reading system will be completed by others. Our design will be limited to the installation only.
5. Submit site plans to PBC WUD for their use in obtaining Zoning Approval.
6. Submit plans to PBC WUD for review and approval.
7. Complete Building Permit applications and submit to PBC WUD, along with plans, for execution.

### **Task 3 – 100% Design**

1. Prepare performance specification for new tower
2. Prepare final details.
3. Prepare 100% Plans.
4. Submit plans to PBC WUD for review and approval.

### **Task 4 – Permitting**

1. Provide 3 sets of signed and sealed plans along with completed permit applications for the building permits. County will submit building permit application and pay all fees.

### **Task 5 – Pre-Construction Services**

1. Pre-Construction Meeting.
2. Shop Drawing review and approval.

### **Task 6 – Construction Services**

1. Receive NTP for Construction
2. Construct tower foundation.
3. Erect tower.
4. Provide engineering inspections during construction.
5. Furnish and install new 400 MHZ receiving and sending antennas and new 900 MHZ wellfield antenna for the proposed SCADA tower. Position antennas in accordance with section 1.1 of the attached Design Criteria. Install County furnished AMI antenna at top of tower.
6. Furnish and install all conduits, cabling, instrumentation, and controls as outlined in section 1.1 of the attached Design Criteria and in accordance with the permitted plans.
7. Install lightning protection and grounding system.
8. Provide engineering inspections during construction.
9. Make final connections of all cables and conductors.
10. Restore all disturbed areas to conditions meeting or exceeding their pre-construction state.
11. Start-up and test lightning protection system, grounding system, meter reading system, and lift station SCADA system.
12. Schedule and conduct training with owner's operations personnel.
13. Upon satisfactory passing and completion of testing and training, turn over to owner fully-operational systems and O&M manuals for all equipment furnished by Design-Builder.
14. Remove 900 MHz antenna from roof of control building and return it to PBCWD for reuse.
15. Remove 400 MHz antenna from the existing tower and return to PBCWD for reuse.
16. Demolish and dispose of existing 80' collapsible tower.
17. Remove existing tower footer to a depth not less than 12" below finished grade.
18. Restore area with sod to match existing adjacent material.

### **Task 7 – Project Close-Out**

1. Restore all areas and improvements disturbed by the work to a condition that matches or exceeds its pre-construction condition.
2. Coordinate preparation of final As-Built Plan.
3. Coordinate and provide all required final certifications.
4. Obtain all final inspections (PBC Zoning, Building, and FCC and/or FAA, as applicable) and close out all permits. When possible, provide computer print-out from permitting agency evidencing permits have been properly closed.
5. Prepare project close-out documentation package, including signed-off permits, As-Built drawings and photographs.

## **ASSUMPTIONS**

1. Two (2) separate notices to proceed shall be issued – one for design phase (tasks 1-4 above) and one for construction phase (tasks 5 – 7 above). The NTP for Construction will not be issued until all permits are secured and the project is fully funded.
2. PBCWUD will make available all existing record drawings including the existing towers and SCADA systems.
3. PBCWUD will make available all existing geotechnical information.
4. Due to the requirement for minimal down-time, all antennas and cables will be new. No antennas or cables will be re-used or relocated, regardless of their existing condition.
5. Meter reading antennas and radio equipment shall be furnished by PBCWUD and installed by the design builder.
6. Design of the AMI meter reading equipment will be completed by others. Our design will be limited to the installation design.
7. New SCADA antennas [one (1) 400 MHz (Lift Station) receiving and sending antenna and one (1) 900 MHz (Wellfield) antenna] shall be furnished and installed by the Design-builder. County shall provide preferred specifications for the antennas and their installation.
8. A radio survey, including aiming and height requirements for the new SCADA antenna locations, will be provided by PBCWUD.
9. Meter Reading equipment will not require a separate, enclosed space at WTP 9.
10. PBCWUD will provide power requirements for the Meter Reading equipment.
11. PBCWUD will provide thermal cooling requirements for the Meter Reading equipment.
12. There is/are existing homerun conduit(s) from the hand hole at the base of the proposed tower location to the existing I/O panel in the electric room. The conduit(s) has/have sufficient capacity to accommodate three (3) new coaxial cables, and the conduit(s) is/are in sufficiently good physical condition to tolerate pulling of new cables within.
13. PBCWUD reviews will be completed within two (2) weeks.
14. PBCWUD will execute all zoning approval activities, including applications, filing, hearing attendance, etc.
15. Any and all permit fees will be paid by PBCWUD.

## **COMPENSATION**

Compensation for this Work Authorization shall not exceed the Guaranteed Maximum Price.

## **SBE PARTICIPATION**

As described in General Provisions Section A.3 of the Contract, SBE participation is included in ATTACHMENT F under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization/Contract and Schedule 2 establishes the SBE contribution from each subcontractor (Letter of Intent to perform as an SBE).



**ATTACHMENT B**

**WORK AUTHORIZATION NO. 02**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

**Rates for Liquidated Damages**

Substantial Design Completion (not including permitting) 135 Calendar Days after receipt of executed Work Authorization and notice to proceed with design.

Substantial Construction Completion 150 Calendar Days after receipt of all permits and issuance of notice to proceed with construction.

Final Construction Completion 180 Calendar Days after receipt of all permits and notice to proceed with construction.

Liquidated damages will apply as follows:

\$1,000 per day past substantial completion date.

\$500 per day past final completion date.

The parties hereby agree and acknowledge that County's actual damages in the event of delay would be difficult or impossible to ascertain and that the foregoing liquidated damages amount represents a liquidated sum of damages agreed upon by the parties as a measure of damages in the event of such delay and not as a penalty.

ATTACHMENT C

WORK AUTHORIZATION NO. 02

Original bonds issued: 3

Bond Nos: Federal: 82326640  
Western: 929571381

**PUBLIC CONSTRUCTION BOND**

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto

Palm Beach County Board of County Commissioners  
301 N. Olive Avenue  
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of

Dollars (\$ 241,587.94)

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated \_\_\_\_\_, 2013, entered into a contract with the County for

Project Name: SCADA Systems Tower Improvements  
Project No.: WUD 12-022  
Project Description: Design, site planning, permitting and construction of a 99' communication tower  
Project Location: Water Treatment Plant No. 9  
22530 SW 65<sup>th</sup> Ave, Boca Raton, FL 33428  
PCN# 00-42-43-27-05-081-0380

In accordance with Design Criteria Drawings Specifications prepared by

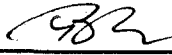
Name of Design Firm: Palm Beach County Water Utilities Department  
Location of Firm: 8100 Forest Hill Blvd., West Palm Beach, FL 33416  
Phone: (561) 493-6110  
Fax: (561) 493-6008

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.


THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated \_\_\_\_\_, 2013, between Principal and County for the design and construction of SCADA Systems Tower Improvements, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and

2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and
3. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the contract; and
4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.
5. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.
6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.
7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.
8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.
9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

  
 \_\_\_\_\_  
 Witness  
  
 Robin C. Wilson  
 \_\_\_\_\_  
 Print name

See attached Notary Acknowledgment  
 \_\_\_\_\_  
 Witness  
  
 Donna J. Frowd  
 \_\_\_\_\_  
 Print name

Cardinal Contractors, Inc.  
 \_\_\_\_\_  
 Principal  (Seal)  
 \_\_\_\_\_  
 Print name William J. McDevitt  
  
 \_\_\_\_\_  
 Title President  
  
 Federal Insurance Company  
 & Western Surety Company  
 \_\_\_\_\_  
 Surety (Seal)  
 \_\_\_\_\_  
 Print name - Debbie L. Welsh  
  
 \_\_\_\_\_  
 Attorney-in-Fact  
 \_\_\_\_\_  
 Title

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of MARIN

On August 7, 2013 before me, Donna J. Frowd, Notary Public, personally appeared Debbie L. Welsh who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

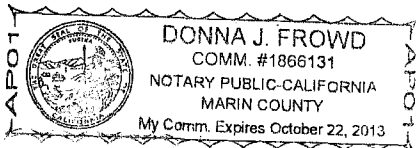
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(seal)

Signature

Donna J. Frowd





**Chubb  
Surety**

**POWER  
OF  
ATTORNEY**

**Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company**

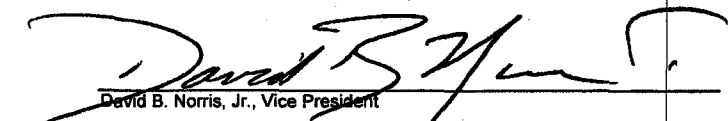
**Attn: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Donna J. Frowd, Michael Brophy McGowan, Susan J. McGowan, Debbie L. Welsh and Donna L. Welsh** of **Novato, California**

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **23rd** day of **November, 2011**.

  
Kenneth C. Wendel, Assistant Secretary

  
David B. Norris, Jr., Vice President

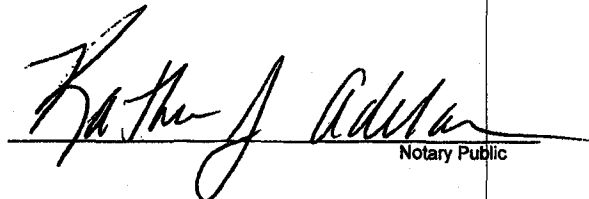
STATE OF NEW JERSEY  
County of Somerset ss.

On this **23rd** day of **November, 2011** before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By- Laws and in deponent's presence.

Notarial Seal



**KATHERINE J. ADELAAR  
NOTARY PUBLIC OF NEW JERSEY  
No. 2316685  
Commission Expires July 14, 2014**

  
Notary Public

**CERTIFICATION**

Extract from the By- Laws of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys- in- Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, **Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By- Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this **7th** day of **August, 2013**



  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael Brophy Mc Gowan, Donna L Welsh, Donna J Frowd, Debbie L Welsh, Individually**

of Novato, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 20th day of March, 2013.



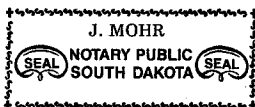
WESTERN SURETY COMPANY

Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 20th day of March, 2013, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires  
June 23, 2015



J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 7th day of August, 2013.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary



**ATTACHMENT D**

**WORK AUTHORIZATION NO. 02**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

**FORM OF GUARANTEE**

**GUARANTEE FOR (Contractor and Surety Name) Cardinal Contractors, Inc. and Federal Insurance Company and Western Surety Company**

We the undersigned hereby guarantee that the Water, Wastewater & Reclaimed Water Improvements Design/Build Contract R2012-0160, Project Number WUD 12-022, Palm Beach County, Florida, will be constructed and bonded, in accordance with the plans and specifications; that the work constructed will fulfill the requirements of the guaranties included in the Contract Documents. We agree to repair or replace any or all of our work, together with any work of others which may be damaged in so doing, that may prove to be defective in the workmanship or materials within a period of one year from the date of Substantial Completion of all of the above named work by the County of Palm Beach, State of Florida, without any expense whatsoever to said County of Palm Beach, ordinary wear and tear and unusual abuse or neglect excepted by the County. When correction work is started, it shall be carried through to completion.

In the event of our failure to acknowledge notice, and commence corrections of defective work within five (5) calendar days after being notified in writing by the Board of County Commissioners, Palm Beach County, Florida, we, collectively or separately, do hereby authorize Palm Beach County to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

DATED August 7, 2013

**SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY**

Cardinal Contractors, Inc. (Seal)  
(Contractor)

By: [Signature] William J. McDevitt, President  
(Signature) (Printed Name)

Federal Insurance Company & Western Surety Company (Seal)  
(Surety)

By: [Signature] Debbie L. Welsh, Attorney-in-Fact  
(Signature) (Printed Name)

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of MARIN

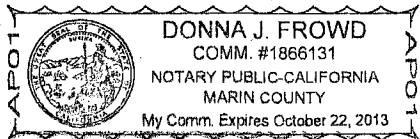
On August 7, 2013 before me, Donna J. Frowd, Notary Public, personally appeared Debbie L. Welsh who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/~~she~~/~~they~~ executed the same in ~~his~~/~~her~~/~~their~~ authorized capacity(ies), and that by ~~his~~/~~her~~/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(seal)

Signature *Donna J. Frowd*





**Chubb  
Surety**

**POWER  
OF  
ATTORNEY**

**Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company**

**Attn: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Donna J. Frowd, Michael Brophy McGowan, Susan J. McGowan, Debbie L. Welsh and Donna L. Welsh of Novato, California**

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **23rd** day of **November, 2011**.

  
Kenneth C. Wendel, Assistant Secretary

  
David B. Norris, Jr., Vice President

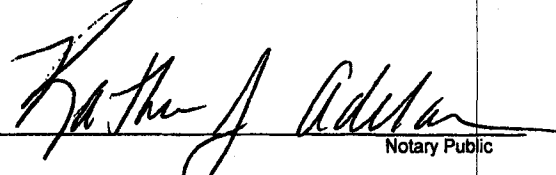
STATE OF NEW JERSEY  
County of Somerset ss.

On this **23rd** day of **November, 2011** before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



**KATHERINE J. ADELAAR  
NOTARY PUBLIC OF NEW JERSEY  
No. 2316685  
Commission Expires July 16, 2014**

  
Notary Public

**CERTIFICATION**

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, **Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this **7th** day of **August, 2013**



  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael Brophy Mc Gowan, Donna L Welsh, Donna J Frowd, Debbie L Welsh, Individually**

of Novato, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 20th day of March, 2013.



WESTERN SURETY COMPANY

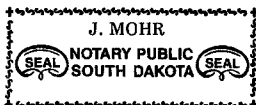
*Paul T. Bruflat*

Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 20th day of March, 2013, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires  
June 23, 2015



*J. Mohr*

J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 7th day of August, 2013.



WESTERN SURETY COMPANY

*L. Nelson*

L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
07/16/2013

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

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

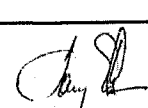
|   |   |                                    |
|---|---|------------------------------------|
| <b>PRODUCER</b><br>MCGRIFF, SEIBELS & WILLIAMS OF TEXAS, INC.<br>818 Town & Country Blvd, Suite 500<br>Houston, TX 77024-4549 | <b>CONTACT NAME:</b>                      |                                    |
|   | <b>PHONE (A/C, No, Ext):</b> 713-877-8975 | <b>FAX (A/C, No):</b> 713-877-8974 |
| <b>E-MAIL ADDRESS:</b>  |   |                                    |
| <b>INSURER(S) AFFORDING COVERAGE</b>  |   | <b>NAIC #</b>                      |
| <b>INSURER A :</b> Zurich American Insurance Company  |   | 16535                              |
| <b>INSURER B :</b> National Union Fire Insurance Company of Pittsburgh, PA  |   | 19445                              |
| <b>INSURER C :</b>  |   |                                    |
| <b>INSURER D :</b>  |   |                                    |
| <b>INSURER E :</b>  |   |                                    |
| <b>INSURER F :</b>  |   |                                    |

**COVERAGES**                      **CERTIFICATE NUMBER:** X2U32GBX                      **REVISION NUMBER:**

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

| INSR LTR | TYPE OF INSURANCE   | ADDL INSR | SUBR WVD | POLICY NUMBER                    | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS                                    |               |
|----------|---|-----------|----------|----------------------------------|-------------------------|-------------------------|---|---------------|
| A        | <b>GENERAL LIABILITY</b><br><input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY<br><input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR<br><br>GEN'L AGGREGATE LIMIT APPLIES PER:<br><input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC |           |          | GLO 5490287-01<br>SIR: \$250,000 | 02/28/2013              | 02/28/2014              | EACH OCCURRENCE                           | \$ 2,000,000  |
|          |   |           |          |                                  |                         |                         | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ 2,000,000  |
|          |   |           |          |                                  |                         |                         | MED EXP (Any one person)                  | \$ 10,000     |
|          |   |           |          |                                  |                         |                         | PERSONAL & ADV INJURY                     | \$ 2,000,000  |
|          |   |           |          |                                  |                         |                         | GENERAL AGGREGATE                         | \$ 4,000,000  |
|          |   |           |          |                                  |                         |                         | PRODUCTS - COMP/OP AGG                    | \$ 4,000,000  |
|          |   |           |          |                                  |                         |                         |   | \$            |
| A        | <b>AUTOMOBILE LIABILITY</b><br><input checked="" type="checkbox"/> ANY AUTO<br><input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS<br><input type="checkbox"/> HIRED AUTOS  |           |          | BAP 5490286-01                   | 02/28/2013              | 02/28/2014              | COMBINED SINGLE LIMIT (Ea accident)       | \$ 2,000,000  |
|          |   |           |          |                                  |                         |                         | BODILY INJURY (Per person)                | \$            |
|          |   |           |          |                                  |                         |                         | BODILY INJURY (Per accident)              | \$            |
|          |   |           |          |                                  |                         |                         | PROPERTY DAMAGE (Per accident)            | \$            |
|          |   |           |          |                                  |                         |                         | Physical Damage Ded.                      | 2500          |
| B        | <input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR<br><input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE<br><input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000  |           |          | BE37709396                       | 02/28/2013              | 02/28/2014              | EACH OCCURRENCE                           | \$ 10,000,000 |
|          |   |           |          |                                  |                         |                         | AGGREGATE                                 | \$ 10,000,000 |
|          |   |           |          |                                  |                         |                         |   | \$            |
|          | <b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b><br>ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N<br>If yes, describe under DESCRIPTION OF OPERATIONS below  |           | N/A      |                                  |                         |                         | WC STATUTORY LIMITS                       |               |
|          |   |           |          |                                  |                         |                         | OTHER                                     |               |
|          |   |           |          |                                  |                         |                         | E.L. EACH ACCIDENT                        | \$            |
|          |   |           |          |                                  |                         |                         | E.L. DISEASE - EA EMPLOYEE                | \$            |
|          |   |           |          |                                  |                         |                         | E.L. DISEASE - POLICY LIMIT               | \$            |
|          |   |           |          |                                  |                         |                         |   | \$            |
|          |   |           |          |                                  |                         |                         |   | \$            |
|          |   |           |          |                                  |                         |                         |   | \$            |
|          |   |           |          |                                  |                         |                         |   | \$            |

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES** (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
RE: Palm Beach County, Florida, Water, Wastewater & Reclaimed Water Improvements Design/Build Project No. WUD 11-134  
Palm Beach County is included as Additional Insured as respects the General Liability, Auto Liability and Umbrella Liability policies. A Waiver of Subrogation is provided in favor of Palm Beach County as respects the General Liability, Auto Liability, Umbrella Liability and Workers' Compensation policies. General Liability, Auto Liability and Umbrella Liability policies are Primary and Non-Contributory. All as required by written contract and subject to policy terms, conditions and exclusions.

|  |   |
|--|---|
| <b>CERTIFICATE HOLDER</b><br><br>Palm Beach County<br>Board of County Commissioners<br>50 S. Military Tr. Four Points Ctr. #110<br>West Palm Beach, FL 33415 | <b>CANCELLATION</b><br><br>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. |
|  | <b>AUTHORIZED REPRESENTATIVE</b><br><br>   |



AGENCY CUSTOMER ID: \_\_\_\_\_  
LOC #: \_\_\_\_\_



### ADDITIONAL REMARKS SCHEDULE

|  |           |                                       |  |
|--|-----------|---------------------------------------|--|
| PRODUCER<br>MCGRIFF, SEIBELS & WILLIAMS OF TEXAS, INC. |           | INSURED<br>Cardinal Contractors, Inc. |  |
| POLICY NUMBER  |           |                                       |  |
| CARRIER  | NAIC CODE | ISSUE DATE: 07/16/2013                |  |

**ADDITIONAL REMARKS**

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: \_\_\_\_\_ FORM TITLE: \_\_\_\_\_

Professional Liability Policy No. EOC 948566602  
Effective 06/15/2013-06/15/2014  
Steadfast Insurance Company  
\$5,000,000 Each Claim/Aggregate Limit  
\$250,000 SIR Each Claim



# EVIDENCE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY)  
8/14/2013

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

|   |  |   |   |   |
|---|--|---|---|---|
| <b>AGENCY</b><br>Willis of Florida, Inc.<br>c/o 28 Century Blvd.<br>P.O. Box 305191<br>Nashville, TN 37230-5191 |  | <b>PHONE (A/C, No, Ext):</b> (877) 945-7378 | <b>COMPANY</b><br>Hartford Fire Insurance Company<br>One Hartford Plaza<br>Hartford, CT 06115 |   |
| <b>FAX (A/C, No):</b> (888) 467-2378  |  | <b>E-MAIL ADDRESS:</b>                      |   |   |
| <b>CODE:</b>  |  | <b>SUB CODE:</b>                            |   |   |
| <b>AGENCY CUSTOMER ID #:</b> CARDCON-03   |  |   |   |   |
| <b>INSURED</b><br><br>Cardinal Contractors, Inc.<br>10405 Technology Terrace<br>Lakewood Ranch, FL 34211        |  | <b>LOAN NUMBER</b>                          | <b>POLICY NUMBER</b><br>21MSIN9976  |   |
|   |  | <b>EFFECTIVE DATE</b><br>1/1/2013           | <b>EXPIRATION DATE</b><br>1/1/2014  | <input type="checkbox"/> <b>CONTINUED UNTIL TERMINATED IF CHECKED</b> |
| <b>THIS REPLACES PRIOR EVIDENCE DATED:</b>  |  |   |   |   |

### PROPERTY INFORMATION

|   |
|---|
| <b>LOCATION/DESCRIPTION</b><br>22530 S.W. 65th Avenue, Boca Raton, FL 33428 |
|---|

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

### COVERAGE INFORMATION

| COVERAGE / PERILS / FORMS                           | AMOUNT OF INSURANCE | DEDUCTIBLE |
|---|---------------------|------------|
| Limit at location                                   | 250,000             |            |
| Limit, Property in Transit or at Temporary Location | 100,000             |            |
| Deductible, All Other Covered Perils                |                     | 5,000      |
| Deductible, Wind and Hail: 5%                       |                     |            |


### REMARKS (Including Special Conditions)

|  |
|--|
| <b>Special Conditions:</b><br>Project: Communications Antenna Installation. Wind and Hail Deductible is 5% of values at risk at the time of the loss subject to a minimum of \$25,000 per occurrence. Coverage is effective 8/13/2013. |
|--|

### CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

### ADDITIONAL INTEREST

|   |  |   |
|---|--|---|
| <b>NAME AND ADDRESS</b><br><br>Palm Beach County Board of County Commissioners<br>c/o Palm Beach County Water Utilities Dept.<br>P.O. Box 16097<br>West Palm Beach, FL 33416-6097 | <input type="checkbox"/> <b>MORTGAGEE</b>  | <input checked="" type="checkbox"/> <b>ADDITIONAL INSURED</b> |
|   | <input type="checkbox"/> <b>LOSS PAYEE</b> |   |
| <b>LOAN #</b>   |  |   |
| <b>AUTHORIZED REPRESENTATIVE</b><br>  |  |   |

**ATTACHMENT E**

**WORK AUTHORIZATION NO. 02**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

**Work Authorization Cost Schedule**

*(Provide breakdown of materials, labor and subcontractors)*

**ATTACHMENT E - WORK AUTHORIZATION  
SCHEDULE OF BID ITEMS**

|                            |                            |                       |
|----------------------------|----------------------------|-----------------------|
|                            |                            | DATE<br>July 15, 2013 |
| Project Title              | CCI Job# / CGA Project No. |                       |
| WTP #9 Communication Tower | 31209-5004 / 11-4416.9     |                       |
| WA Number                  | PBC WUD Project No.        |                       |
| WA-2                       | 12-022                     |                       |

|                |  |    |                   |
|----------------|--|----|-------------------|
| <b>Task #1</b> | <b>Data Collection and Survey, B&amp;I, Contract Development</b> |    |                   |
|                | Engineering Services   | \$ | 12,645.15         |
|                | Cardinal Contractors   | \$ | 9,540.34          |
|                | <b>Task #1 Total</b>   | \$ | <b>22,185.49</b>  |
| <br>           |  |    |                   |
| <b>Task #2</b> | <b>90% Design Submittal</b>                                      |    |                   |
|                | Engineering Services   | \$ | 14,828.60         |
|                | Cardinal Contractors   | \$ | -                 |
|                | <b>Task #2 Total</b>   | \$ | <b>14,828.60</b>  |
| <br>           |  |    |                   |
| <b>Task #3</b> | <b>100% Design Submittal</b>                                     |    |                   |
|                | Engineering Services   | \$ | 4,566.80          |
|                | Cardinal Contractors   | \$ | -                 |
|                | <b>Task #3 Total</b>   | \$ | <b>4,566.80</b>   |
| <br>           |  |    |                   |
| <b>Task #4</b> | <b>Permitting</b>  |    |                   |
|                | Engineering Services   | \$ | 4,465.80          |
|                | Cardinal Contractors   | \$ | 1,500.00          |
|                | <b>Task #4 Total</b>   | \$ | <b>5,965.80</b>   |
| <br>           |  |    |                   |
| <b>Task #5</b> | <b>Pre-Construction Meeting and Shop Drawing Review</b>          |    |                   |
|                | Engineering Services   | \$ | 5,541.00          |
|                | Cardinal Contractors   | \$ | 10,000.00         |
|                | <b>Task #5 Total</b>   | \$ | <b>15,541.00</b>  |
| <br>           |  |    |                   |
| <b>Task #6</b> | <b>WTP #9 Tower Construction</b>                                 |    |                   |
|                | Engineering Services   | \$ | 10,587.80         |
|                | Cardinal Contractors   | \$ | 140,388.00        |
|                | <b>Task #6 Total</b>   | \$ | <b>150,975.80</b> |
| <br>           |  |    |                   |
| <b>Task #7</b> | <b>WTP #9 Project Close-Out</b>                                  |    |                   |
|                | Engineering Services   | \$ | 4,571.00          |
|                | Cardinal Contractors   | \$ | 1,000.00          |
|                | <b>Task #6 Total</b>   | \$ | <b>5,571.00</b>   |
| <br>           |  |    |                   |
|                | Subtotal   | \$ | 219,634.49        |
|                | Allowance (10%)  | \$ | 21,963.45         |
|                | <b>Work Authorization #2 Total</b>                               | \$ | <b>241,597.94</b> |

**ATTACHMENT F**  
**SBE Schedules 1 and 2**

## ATTACHMENT F

### SCHEDULE #1

#### LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME: SCADA System Tower Improvements

PROJECT NUMBER: WUD 12-022

NAME OF PRIME BIDDER: Calvin, Giordano & Associates, Inc.  
as assigned to Cardinal Contractors, Inc.

ADDRESS: 560 Village Boulevard, Suite 340, West Palm Beach, Florida 33411

PHONE NO. 561-684-6161 FAX NO. 561-684-6363

DEPARTMENT Water Utilities Department

CONTACT PERSON: Karl Kennedy, P.E.

BID OPENING DATE: N/A

#### PLEASE IDENTIFY ALL APPLICABLE CATEGORIES

| Name, Address and Telephone<br>Number of Minority Contractor                                      | (Check one or both Categories)      |                                     |       |          |              | Dollar Amount |                        |
|---|-------------------------------------|-------------------------------------|-------|----------|--------------|---------------|------------------------|
|   | Minority Business                   | Small Business                      | Black | Hispanic | Women        | Caucasian     | Other (Please Specify) |
| Electrical Design Associates, Inc.<br>5300 W. Atlantic Avenue, Ste. 408<br>Delray Beach, FL 33484 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | \$    | \$       | \$13,358.00  | \$            | \$                     |
| RADISE International<br>4152 W. Blue Heron Blvd., Ste. 228<br>Riviera Beach, FL 33404             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | \$    | \$       | \$           | \$            | \$11,758.50 ASIAN      |
| Alan Gerwig & Associates, Inc.<br>12798 W. Forest Hill Blvd., Ste. 204<br>Wellington, FL 33415    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | \$    | \$       | \$           | \$10,780.00   | \$                     |
| Powerline of South Florida, Inc.<br>711 Commerce Way, Ste. 6<br>Jupiter, FL 33458                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | \$    | \$       | \$           | \$109,500.00  | \$                     |
|   | <input type="checkbox"/>            | <input type="checkbox"/>            | \$    | \$       | \$           | \$            | \$                     |
| <b>PRIME CONTRACTOR TO COMPLETE:</b>  | <b>TOTAL</b>                        |                                     | \$    | \$       | \$ 13,358.00 | \$120,280.00  | \$11,758.50            |

BID PRICE: \$241,597.94

Total Value of SBE Participation: \$145,396.50

- NOTE:
1. The amount listed on this form for a Subcontractor must be supported by price or percentage included on Schedule 2 or a proposal from each Subcontractor listed in order to be counted toward goal attainment.
  2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount under the appropriate category.
  3. M/WBE information is being collected for tracking purposes only.

**SCHEDULE 1  
LIST OF PROPOSED SBE-M/WBE PARTICIPATION**

PROJECT NAME OR BID NAME: SCADA System Tower Improvements

PROJECT NO. OR BID NO.: WUD 12-022

NAME OF PRIME BIDDER: Cardinal Contractors, Inc.

ADDRESS: 10405 Technology Terrace Lakewood Ranch, FL 34211

CONTACT PERSON: Michael Brandao PHONE NO.: 941-377-8542

FAX NO.: 941-756-3295

BID OPENING DATE: \_\_\_\_\_

USER DEPARTMENT: \_\_\_\_\_

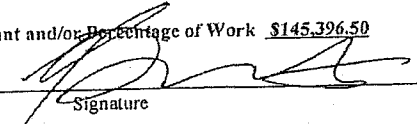
THIS DOCUMENT IS TO BE COMPLETED BY THE PRIME CONTRACTOR AND SUBMITTED WITH BID PACKET. PLEASE LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE -M/WBE'S ON THIS PROJECT. IF THE PRIME IS AN SBE-M/WBE, PLEASE ALSO LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT. THE PRIME AFFIRMS THAT IT WILL MONITOR THE SBES LISTED TO ENSURE THE SBES PERFORM THE WORK WITH ITS OWN WORKFORCE.

| Name, Address and Phone Number   | (Check one or both Categories)      |                                     | DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK |          |             |              |                           |             |
|--|-------------------------------------|-------------------------------------|---|----------|-------------|--------------|---------------------------|-------------|
|  | M/WBE<br>Minority<br>Business       | SBE<br>Small<br>Business            | Black                                   | Hispanic | Women       | Caucasian    | Other<br>(Please Specify) |             |
| 1. Electrical Design Associates, Inc.<br>5300 W. Atlantic Avenue Suite 408<br>Delray Beach, FL 33484 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____                                   | _____    | \$13,358.00 | _____        | _____                     |             |
| 2. RADISE International<br>4152 W. Blue Heron Blvd. Suite 228<br>Riviera Beach, FL 33404             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____                                   | _____    | _____       | _____        | \$11,758.50<br>(Asian)    |             |
| 3. Alan Gervig & Associates, Inc.<br>12798 W. Forest Hill Blvd. Suite 204<br>Wellington, FL 33415    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | _____                                   | _____    | _____       | \$10,780.00  | _____                     |             |
| 4. Powerline of South Florida, Inc.<br>711 Commerce Way Suite 6<br>Jupiter, FL 33458                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | _____                                   | _____    | _____       | \$109,500.00 | _____                     |             |
| (Please use additional sheets if necessary)  |                                     |                                     | Total                                   | _____    | _____       | \$13,358.00  | \$120,280.00              | \$11,758.50 |

Total Bid Price \$ 241,597.94

Total SBE-M/WBE Participation Dollar Amount and/or Percentage of Work \$145,396.50

I hereby certify that the above information accurate to the best of my knowledge:

  
 Signature \_\_\_\_\_ Title PROJECT MANAGER

- NOTE:
- The amount listed on this form for a SBE-M/WBE Prime or Subcontractor must be supported by price or percentage listed on the signed Schedule 2 or signed proposal in order to be counted toward goal attainment.
  - Firms may be certified by Palm Beach County as an SBE and/or M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount and/or percentage under the appropriate category.
  - M/WBE information is being collected for tracking purposes only.

ATTACHMENT F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 12-022 PROJECT NAME: WTP 9 South Communication Tower

TO: Calvin Giordano & Associates, Inc. as assigned to Cardinal Contractors, Inc. (Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) - (check one or more, as applicable):

Small Business Enterprise X Minority Business Enterprise

Black Hispanic Women Caucasian X Other (Please Specify)

Date of Palm Beach County Certification: December 28, 2012 to December 27, 2015

The undersigned is prepared to perform the following described work in connection with the above project (Specify in detail, particular work items or parts thereof to be performed):

Table with 5 columns: Line Item/Lot No., Item Description, Qty / Units, Unit Price, Total Price. Row 1: Design & Permitting, LS, \$7,300. Row 2: Construction Administration, LS, \$3,480.

at the following price \$10,780 (Subcontractor's quote)

And will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County. If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Alan Gerwig & Associates, Inc. (Print Name of SBE-M/WBE Subcontractor)

By: [Signature] (Signature)

Alan Gerwig, P.E., President (Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: May 21, 2013



ATTACHMENT F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 12-022 PROJECT NAME: WTP 9 SCADA Tower Improvements

TO: Calvin Giordano & Associates, Inc. as assigned to Cardinal Contractors, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) - (check one or more, as applicable):

Small Business Enterprise \_\_\_\_\_ Minority Business Enterprise X

Black \_\_\_\_\_ Hispanic X Women X Caucasian \_\_\_\_\_ Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: 5/16/12 through 5/25/15

The undersigned is prepared to perform the following described work in connection with the above project  
(Specify in detail, particular work items or parts thereof to be performed):

| Line Item/Lot No. | Item Description            | Qty / Units | Unit Price | Total Price |
|-------------------|-----------------------------|-------------|------------|-------------|
| 1                 | Data Collection and Surveys | 1           |            | \$ 1,878.00 |
| 2                 | Zoning Approval             | 1           |            | \$ 0.00     |
| 3                 | Design                      | 1           |            | \$ 6,214.00 |
| 4                 | Permitting                  | 1           |            | \$ 878.00   |
| 5                 | Preconstruction Services    | 1           |            | \$ 3,010.00 |
| 6                 | Site Visits                 | 1           |            | \$ 968.00   |
| 7                 | Closeout                    | 1           |            | \$ 410.00   |

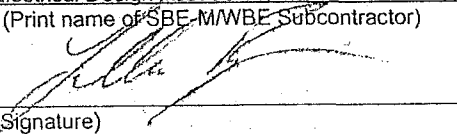
at the following price \$ 13,358.00  
(Subcontractor's quote)

And will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ 0.00

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Electrical Design Associates, Inc.  
(Print name of SBE-M/WBE Subcontractor)

By:   
(Signature)

Lillian M. Reyes, P.E./ President  
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: 05/20/13

ATTACHMENT F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 12-022

PROJECT NAME: PBCWUD CSA NO. 4 SCADA SYSTEM IMPROVEMENTS

TO: Calvin, Giordano & Associates, Inc. as assigned to Cardinal Contractors, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise  Minority Business Enterprise

Black  Hispanic  Women  Caucasian  Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: 11/1/11

The undersigned is prepared to perform the following described work in connection with the above project  
(Specify in detail, particular work items or parts thereof to be performed):

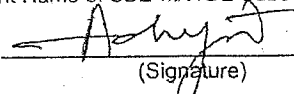
| Line Item/Lot No. | Item Description                               | Qty / Units | Unit Price         | Total Price        |
|-------------------|--|-------------|--------------------|--------------------|
| <u>1</u>          | <u>Construction Materials Testing Services</u> | <u>1</u>    | <u>\$11,758.50</u> | <u>\$11,758.50</u> |
|                   |  |             |                    |                    |
|                   |  |             |                    |                    |

at the following price  
\$ 11,758.50  
(Subcontractor's quote)

And will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.  
If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ 0

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

RADISE International, L.C.  
(Print Name of SBE-M/WBE Subcontractor)

By:   
(Signature)

Kumar A. Allady, P.E. / President  
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: May 17, 2013

**SCHEDULE 2  
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE SUBCONTRACTOR**

This document must be completed by the SBE-M/WBE Subcontractor and submitted with the bid packet. Specify in detail, the particular work items to be performed and the dollar amount and/or percentage for each work item. SBE credit will only be given for items which the SBE-M/WBE Subcontractor are SBE certified to perform. Failure to properly complete Schedule 2 may result in your SBE participation not being counted.

PROJECT NO. WUD 12-022 PROJECT NAME: SCADA SYSTEM TOWER IMPROVEMENTS

TO: CALVIN GIORDANO & ASSOCIATES as assigned to Cardinal Contractors, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as - (check one or more, as applicable):

Small Business Enterprise  Minority Business Enterprise

Black  Hispanic  Women  Caucasian  Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: AUG 6, 2011

The services to be provided include the following - (Please check one)

Labor and Material  Materials Only

The undersigned is prepared to perform the following described work in connection with the above project (Specify in detail, particular work items or parts thereof to be performed. Additional Sheets may be used.):

| Line Item/<br>Lot No. | Item Description                | Qty/Units | Unit Price | Total Price/<br>Percentage |
|-----------------------|---------------------------------|-----------|------------|----------------------------|
| <u>1</u>              | <u>ELECTRICAL &amp; I&amp;C</u> |           |            | <u>\$44,500</u>            |
| <u>2</u>              | <u>TOWER</u>                    |           |            | <u>\$65,000</u>            |
|                       |                                 |           |            |                            |
|                       |                                 |           |            |                            |

at the following price or percentage \$ 109,500  
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated.  
Price or Percentage 0

The undersigned subcontractor understands that the provision of this form to Prime Bidder does not prevent Subcontractor from providing quotations to other bidders.

POWERLINE A S. FC INC.  
(Print name of SBE-M/WBE Subcontractor)  
By: [Signature]  
(Signature)  
THOMAS LAESSIG PRES.  
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)  
Date: MAY 1, 2013



## Attachment H

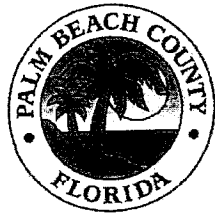
### AUTHORIZATION STATUS REPORT Disaster Recovery Services Design/Build Contract

SUMMARY OF  
SBE / MINORITY BUSINESS TRACKING SYSTEM  
Consultant Services Authorizations and Work Authorizations

#### WORK AUTHORIZATION NO. 2

|   | TOTAL         | SBE          |
|---|---------------|--------------|
| <b>Current Proposal</b>                                       |               |              |
| Value of Consultant Service Authorization                     | \$0.00        |              |
| Value of Work Authorization                                   | \$241,597.94  |              |
| Value of Consultant Service & Work Authorizations             | \$241,597.94  |              |
| Value of SBE Letters of Intent                                | \$145,396.50  | \$145,396.50 |
| Actual Percentage   | 60.18%        | 60.18%       |
| <b>Signed / Approved Authorizations</b>                       |               |              |
| Value of Consultant Service Authorizations                    | \$168,030.78  |              |
| Value of Work Authorizations                                  | \$68,860.40   |              |
| Value of Consultant Service & Work Authorizations             | \$236,891.18  |              |
| Total Value of SBE Signed Subcontracts                        | \$100,011.24  | \$100,011.24 |
| Actual Percentage   | 42.21%        | 42.21%       |
| <b>Signed / Approved Authorizations plus Current Proposal</b> |               |              |
| Value of Consultant Service Authorizations                    | \$168,030.78  |              |
| Value of Work Authorizations                                  | \$310,458.34  |              |
| Value of Consultant Service & Work Authorizations             | \$478,489.12  |              |
| Total Value of Subcontracts & Letters of Intent               | \$245,407.74  | \$245,407.74 |
| Actual Percentage   | 51.28%        | 51.28%       |
| <b>GOAL</b>   | <b>26.00%</b> |              |

ATTACHMENT I



Palm Beach County  
Water Utilities  
Department  
Service Area (SA) and  
Major Facilities

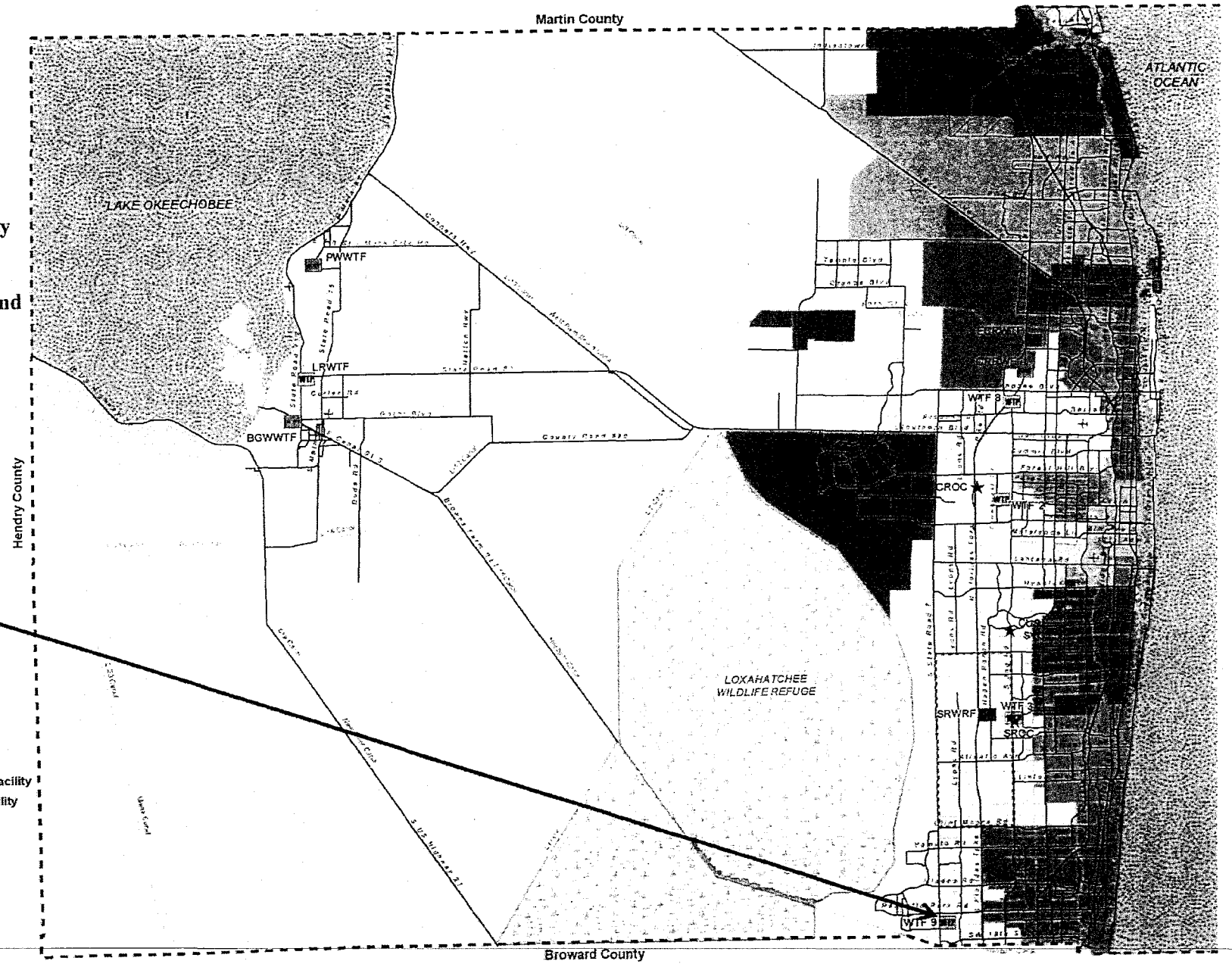
Project  
Location

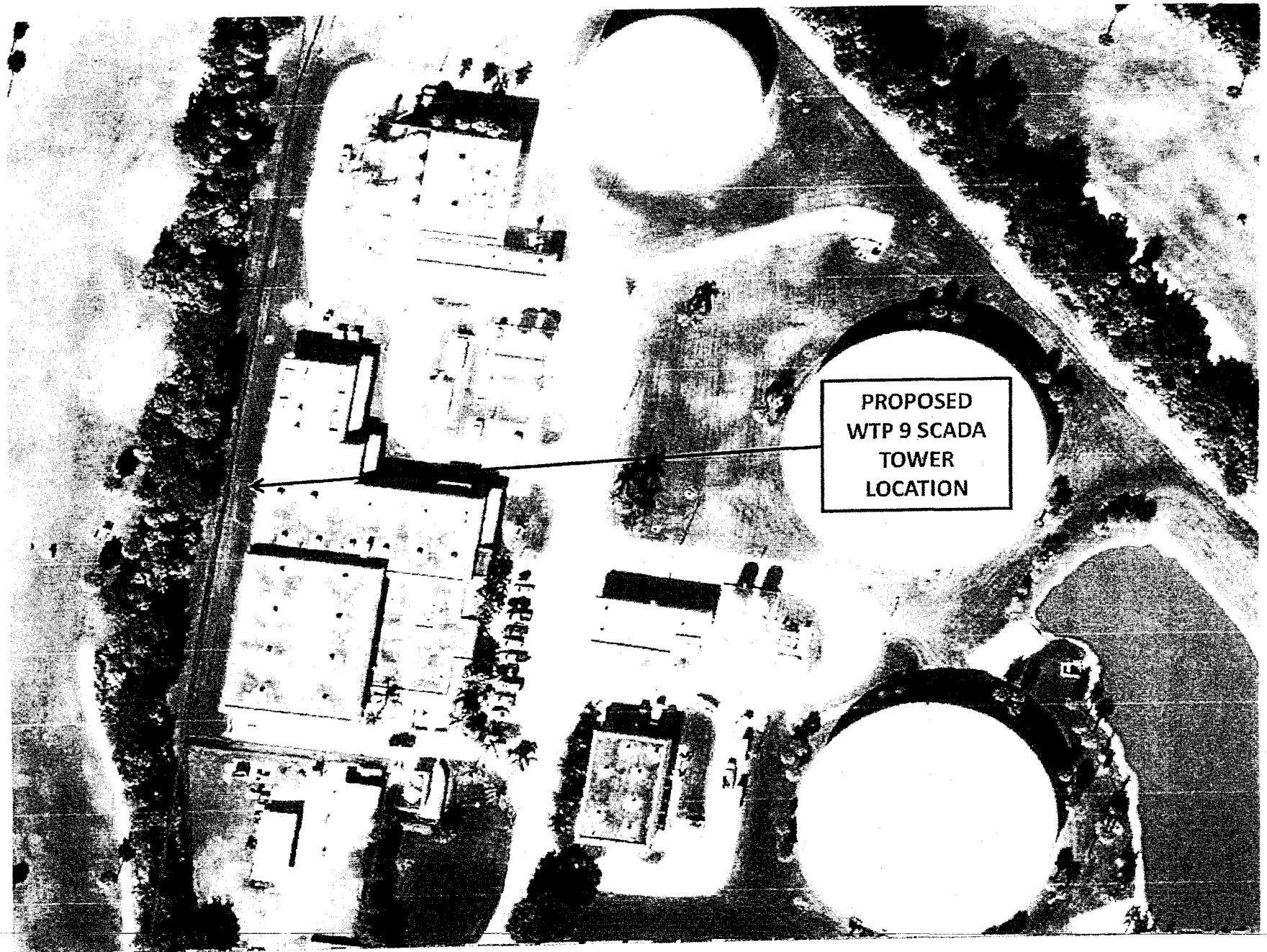
Legend

- ★ Administration
- Water Treatment Facility
- Reclamation Facility
- Wastewater Reclamation Facility
- Wastewater Treatment Facility
- Mandatory Reclaimed SA
- - - Palm Beach County Limits
- · · P.B.C.W.U.D. Service Area



NOT TO SCALE





PROPOSED  
WTP 9 SCADA  
TOWER  
LOCATION

# ATTACHMENT J

## WORK AUTHORIZATION NO. 02

### DESIGN CRITERIA FOR SCADA SYSTEM TOWER IMPROVEMENTS

#### Part 1 General

##### 1.1 Summary of Work

The proposed work to be performed as described below is located at the following facilities:

Water Treatment Plant No. 9, 22530 SW 65<sup>th</sup> Ave, Boca Raton, FL 33428  
PCN 00-42-43-27-05-081-0380 (see attached location map)

The proposed work to be performed by the Design-Builder generally includes furnishing all labor, equipment, materials, tools, supervision, and services required to design, construct, test, and startup the proposed work is described as follows:

- 1) Furnish and install SCADA monopole towers with height of approximately 99' (under 100' zoning threshold)
  - a) Monopole shall be hot dipped galvanized
  - b) Provide lightning protection and grounding system
  - c) Provide step bolts
  - d) Provide safety gear, warning sign and tower identification plate (hot dipped galvanized steel) at flange base of monopole.
- 2) County shall furnish meter reading antenna and radio to be installed by Design-Builder
- 3) SCADA tower and foundation system must conform with 160 MPH wind load per Florida building code. Provide signed and sealed structural calculations with building permit application.
- 4) Review existing soil borings which shall be used as a guideline to establish the GMP. Provide additional soil boring at each of the proposed SCADA tower locations. Submit 3 originals of soil boring test report.
- 5) Provide utility locates of the proposed SCADA tower locations to verify both are free of conflicts and allow adequate space to maintain existing underground utilities.
- 6) Provide zoning site plan approval of SCADA towers prior to purchasing materials.
- 7) Provide 3 full sized and 3 half sized plans at 60%, 90% and 100% design. Respond to all 60% and 90% review comments in writing.
- 8) Provide 3 sets of signed and sealed full sized prints for building permit. County will pay for building permit fee and zoning application fees.
- 9) Coordination meetings will be held at 60%, 90% and 100% design.
- 10) Provide 8 sets of shop drawings beginning at 90% design.
- 11) Provide record drawings in CAD and PDF formats and 3 full size sets.
- 12) The pre-construction meeting will be held following the final minimum requirements:
  - a) Zoning approval



- b) Building Permit issued
- 13) Construction meetings will be held monthly.
- 14) Conform to the Water Utilities Minimum Engineering Standards, Design-Manual and security requirements.

15) WTP 9

- a) Provide new 400 MHZ receiving and sending antennas. Provide new 900 MHZ wellfield antenna for the proposed SCADA tower.
- b) Install antennas staggered with County furnished meter reading antenna on top of monopole tower, 400 MHZ (for LS SCADA) antennas 15' from top and 900 MHZ (for Wellfield SCADA) 30' from top. Confirm actual locations with radio survey prior to installation.
- c) Test lightning protection and grounding systems per NEC.
- d) Install conduit from monopole tower to the building (rigid conduit above grade and PVC conduit underground).
- e) Install coaxial cable from 400 MHZ antenna to existing radio in SCADA/Ethernet switch panel.
- f) Install coaxial cable from 900 MHZ antenna to existing radio in the existing LS SCADA panel at the NE corner of the Membrane Room.
- g) Install coaxial cable from new meter reading antenna to new County-furnished meter reading radio in the SCADA/Ethernet switch panel.
- h) County will provide connections to Ethernet switch and will test new antennas.
- i) Upon completion of antenna testing demolish existing SCADA tower with 400 MHZ antenna and foundation to 1' below grade after testing is complete. Remove existing 900 MHZ antenna from roof of control building. Return 400 MHZ and 900 MHZ antennas to County.

### **1.2 Permits and Fees**

It shall be the Design-builder's responsibility to secure all permits required to complete the work under this contract, except permits obtained by the Owner. The Design-builder shall be responsible for all inspections and requirements to close-out the completed permits. The Owner shall pay all permit fees. The Design-builder shall be responsible for all Business tax fees for work within the county or Municipalities.

### **1.3 Tests**

The Design-builder shall pay for all required tests.

### **1.4 Site elevations, Lines and Grades**

The Design-builder shall employ a land surveyor registered in the State of Florida. The Design-builder shall be responsible to establish elevations, lines and levels, utilizing recognized engineering survey practices. The Design-builder shall provide all labor, instruments and stakes, templates, and other materials necessary for marking and maintaining all lines and grades. The Design-builder shall submit a copy of as-built drawings signed/sealed by the land surveyor that the elevations and locations of the work in Florida State plane coordinates are in conformance with the contract documents.

### **1.5 Work Area**

The Design-builder shall confine his activities to the site(s) designated by Owner for the work or staging areas for materials storage. All debris, materials, piping, and miscellaneous waste products from the proposed work shall be removed from the project as soon as possible. They shall be disposed of in accordance with applicable federal, state, and local regulations. The Design-builder shall be responsible for determining these regulations and shall bear all costs or retain any profit associated with disposal of these items.

The Design-builder shall protect his work throughout its length by the erection of suitable barricades and handrails, where required. The Design-builder shall further indicate this work at night by the maintenance of suitable lights or flares, especially along or across thoroughfares. Wherever it is necessary to cross a public walk, the Design-builder shall provide suitable safe walkways with hand railings. The Design-builder also comply with all laws or ordinances covering the protection of such work and the safety measures to be employed therein. The Design-builder shall carry out his work so as not to deny access to private property. All utility access manholes, valves and fire hydrants shall be kept accessible at all times. No trenches or holes near walkways, in roadways or road shoulder are to be left open during night hours without the permission of the Owner.

### **1.6 Underground Utilities**

All water pipes, storm drains, force mains, gas or other piping, telephone or power cables or conduits, and all other obstructions, whether or not shown, shall be temporarily removed from or supported across pipeline excavations. Before disconnecting any pipes or cables, the Design-builder shall obtain permission from the Owner, or shall take suitable arrangements for their disconnection by the Owner. The Design-builder shall be responsible for any damage to any such pipes, conduits or cables and shall restore them to service promptly as soon as the work has progressed past the point involved. Approximate locations of known water, sanitary, drainage, power and telephone installations along route of new pipelines or in vicinity of the work as shown on as-built drawings, but must be verified in the field by the Design-builder. The Design-builder shall uncover these pipes, ducts cables, etc., carefully, by hand, to verify location and depth of cover. Any discrepancies or differences found shall be brought to the attention of the Owner in order that necessary changes may be made. Where fences, walls or other man made obstructions exist illegally in the public right-of-way, the Owner will have them removed upon adequate prior notice by the Design-builder.

All excavation activity shall comply with Florida Statute 553.851 regarding notification of existing gas and oil pipeline company Owners and shall also notify "SUNSHINE STATE" at 1 (800)-432-4770 at least forty-eight (48) hours prior to excavating. Evidence of such notice shall be furnished to the Owner prior to excavating. Provide independent locate firm within plant and pump station boundaries.

### **1.7 Maintenance of Operations**

The Design-builder's activities or any partial SCADA shutdowns shall minimize disruption to the treatment facilities and conveyance. The Design-builder shall schedule and perform the proposed work in a manner such that the Owner can keep the existing

treatment and conveyance facilities in continuous dependable operation. Operation of all existing valves, gates and equipment shall be performed by Owner.

### **1.8 Plant Shutdowns**

Owner shall approve all SCADA and plant shutdowns.

### **1.9 Project Coordination**

Design-builder shall be solely responsible for coordination of all the proposed work. He shall supervise, direct and cooperate fully with all sub-contractors, manufacturers, fabricators, suppliers, distributors, installers, testing agencies and all others whose services, materials or equipment are required to ensure completion of the proposed work within the contract time.

Design-builder shall cooperate with and coordinate his work with the work of any other contractor, utility service company or Owner's employees performing additional work related to the project at the site. Design-builder shall not be responsible for damage done by Design-builders not under his jurisdiction. Design-builder shall not be liable for any such loss or damage unless it is through the negligence of Design-builder. Design-builder shall also coordinate his work with the work of others to assure compliance with schedules.

Design-builder shall attend and participate in all project coordination or progress meetings and report on the progress of all work and compliance with schedules. The Design-builder shall provide and maintain a field office with telephone facilities where he or a responsible representative of his organization may be reached at any time while work is in progress.

The Design-builder shall be responsible for coordinating and completing the overall system startup and testing. The Design-builder is responsible for providing all labor, equipment, and materials for conducting systems startup and testing.

## **Part 2 Acceptance Test Requirements**

### **2.1 Starting and Placing Equipment in Operation**

Design-builder shall initially start-up and place all equipment installed into successful operation according to manufacturer's written instructions and as instructed by manufacturer's field representative. Design-builder shall provide all materials, labor, tools, equipment, chemicals, lubricants, and expendables required to complete start-up. No system or subsystem shall be started up for continuous operation unless all components of that system or subsystem, including instrumentation, have been tested and proven to be operable as required for proposed work.

General system startup activities include: cleaning; removing temporary protective coatings; flushing and replacing greases and lubricants, where required by manufacturer; lubrication, checking shaft, and coupling alignments and resetting where required; checking and setting motor, pump and other equipment rotation, safety interlocks, and belt tensions; checking and correcting if necessary leveling plates, grout, bearing plates, anchor bolts, fasteners, and alignment of piping which may put stress on pumping equipment; performing any adjustments; providing chemicals and lubricants and all other required operating fluids; providing fuel, electricity, water, filters, and other expendables required for start-up of equipment.

Owner shall provide sufficient personnel to assist Design-builder in the start-up, but the prime responsibility for proper mechanical operation shall belong to Design-builder. Manufacturer's representative shall be present during initial start-up and operation. Owner shall assume responsibility for operation of the equipment upon completion of start-up and placing equipment in operation.

## **2.2 Minimum Start-up Requirements**

- A. After system has been placed in operation the Design-builder shall clean strainers, drives, pockets, orifices, valve seats and headers in fluid system to assure freedom from foreign materials. He shall remove rust, scale and foreign materials from equipment and renew defaced surfaces. All visible leakage shall be repaired.
- B. The Design-builder shall check each electrical control circuit to assure that operation complies with regulations and requirements of proposed work and to provide desired performance. The Design-builder shall vent gasses trapped in any part of systems and verify that liquids are drained from all parts of gas or air systems.
- C. The Design-builder shall inspect for cleanliness, and clean and remove all foreign materials, verify alignment, replace defective bearings and those, which run rough or noisy, and grease as necessary and in accord with manufacturer's recommendations.
- D. The Design-builder shall adjust tension in V-belt drives, and adjust varipitch sheaves and drives for proper equipment speed, adjust drives for alignment of sheaves and V-belts, and clean and remove foreign materials before starting operation.
- E. The Design-builder shall check each motor for comparison to amperage nameplate value and correct conditions which produce excessive current flow and exist due to equipment malfunction.
- F. The Design-builder shall check glands and seals for cleanliness and adjustment before running pump; inspect shaft sleeves for scoring; inspect mechanical faces, chambers, and seal rings, and replace if defective; and verify that piping system is free of dirt and scale before circulating liquid through the pump.

## **2.3 Equipment Startup and Performance Testing**

The Design-builder shall be responsible for performance testing during startup of all mechanical, electrical, instrumentation, and piping equipment and systems.

- A. Provide a testing plan setting forth the sequence in which all testing work required for the proposed upgrades will be implemented.
- B. Document the results of all equipment and system tests and submit documentation to the Owner. Provide calibration tags for all equipment certifying the date of calibration.

## **2.4 Instruction of Operations and Maintenance Personnel**

Training shall be provided prior to turning the operation of a system, unit process or piece of equipment. Training shall be scheduled for each plant staff work shift accordingly. No system, unit process or any piece of equipment shall be started up for continuous operation without the approved operation and maintenance manuals being turned over to Owner.

Design-builder shall provide services of supplier's operation and maintenance training specialists to instruct Owner's personnel in recommended operation and maintenance procedures for products and equipment. Supplier may be required to provide a combination of classroom and field training. All training shall be conducted at the site, unless otherwise stated in the Specifications. Owner reserves the right to videotape training sessions.

Training of plant's personnel shall commence only after acceptable preliminary operation and maintenance data have been provided and starting and placing equipment in operation and equipment and system startup and performance testing, has been completed. Provide written documentation and checklists outlining important training items. Provide spreadsheets needed to document new processes for input by operators.

### **Part 3 Technical Requirements**

#### **3.1 Plant Site / Civil Requirements**

The Design-builder shall be responsible for becoming completely familiar with the site conditions in connection with developing the final site plan including all site investigations, analysis of subsurface conditions, geotechnical conditions, and soil borings. Limited geotechnical investigation data for the site are provided in Appendix A.

#### **3.2 Demolitions**

Design-builder shall be responsible for all labor, materials, equipment and incidentals required for demolitions and pay for all disposal fees. Design-builder shall not start removals without the permission of the Owner. At least 48 hours prior to commencement of any demolition activities, the Design-builder shall advise the Owner, in writing, of the proposed schedule.

Design-builder shall carry out operations so as to avoid interference with Owner's operations and work in the existing facilities. Design-builder shall perform all demolition and removal work so as not to interfere with the use and safe passage to and from adjacent structures and shall prevent damage or injury to structures, occupants, and adjacent features, which might result from falling debris or other causes. Design-builder shall erect and maintain barriers, lights, sidewalk sheds, and other necessary protective devices. The Design-builder is responsible for repairing damage to the Owner's property or facilities.

Design-builder shall not bring explosives on site nor use explosives without written consent of authorities having jurisdiction. Design-builder shall use water sprinkling, temporary enclosures, and other suitable methods for dust control within the lowest partial level in compliance with governing regulations. Surfaces of walls, floors, ceilings, or other areas, which are exposed by any of the removals, and which will remain as architecturally finished surfaces shall be repaired and re-finished by Design-builder with the same or matching materials as the existing adjacent surface. Adjacent structures, facilities, and improvements of dust, dirt, and debris caused by demolition operations shall be cleaned and returned to pre-construction conditions.

Where piping that is to be removed passes through existing walls, the piping shall be cut off and properly capped on each side of the wall. When underground piping is to be altered or removed, the remaining piping shall be properly capped. Abandoned underground piping may be left in place and grouted under major structures/roadways, unless it interferes with the work. Any changes to potable water piping work shall be made in conformance with all applicable codes and under the same requirements as other underground piping.

All materials and equipment removed from existing work shall become the property of Design-builder, except for those which Owner has identified and marked for their use. All materials and equipment marked by the Owner for its use shall be carefully removed by Design-builder so as not to be damaged, and shall be cleaned and stored in a protected location specified by the Owner. Design-builder shall dispose of all demolition materials, equipment, debris, and all other items not marked by the Owner, off the work site and in conformance with all existing applicable laws and regulations. Upon completion of the work, all materials, equipment, waste, and debris of every sort shall be removed and premises shall be left, clean, neat and orderly.

### **3.3 Excavation and Backfill**

Design-builder shall furnish all labor, materials, equipment and incidentals required to perform all excavating, backfilling and disposing of earth materials required for the purpose of construction structures, conduits, pipelines, grading, and other facilities required to complete the work in every respect.

Design-builder shall be solely responsible for designing, installing, operating and maintaining whatever system is required to satisfactorily accomplish all necessary sheeting, bracing, protection, underpinning and dewatering.

Design-builder shall be responsible for all field test data and shall submit to Owner copies of the following test reports from his testing laboratory.

Design-builder shall perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction. Design-builder shall obtain all necessary permits for work in roads, rights of way, etc. He shall also obtain permits as required by local, state and federal agencies for discharging water from excavations. The use of explosives will not be permitted.

Data on subsurface conditions will be made available by Owner for the convenience of Design-builder. The reports are not intended as a representation or warranty of continuity of such conditions between soil borings. Owner will not be responsible for interpretations or conclusions drawn by Design-builder. Additional test borings and other exploratory operations may be made by Design-builder at no cost to Owner.

Drawings from existing records showing certain surface and underground structures adjacent to the work will be made available by Owner. It is not guaranteed to be correct or complete and is shown for the convenience of the Design-builder. Design-builder shall explore ahead of the required excavation to determine the exact location of all structures. They shall be supported and protected from injury by the Design-builder. If they are broken or injured, they shall be restored immediately by the Design-builder at its expense.

Design-builder shall locate existing underground utilities in the areas of work. If utilities are to remain in place, Design-builder shall provide adequate means of protection during earthwork operations. If uncharted or incorrectly charted piping or other utilities are encountered during excavation, Design-builder shall consult the Owner immediately for directions as to procedure. Design-builder shall cooperate with Owner and utility companies in keeping respective services and facilities in operation. Design-builder shall repair damaged utilities to the satisfaction of Owner.

Design-builder shall not interrupt existing utilities serving facilities occupied and used by Owner or others, except when permitted in writing by Owner and then only after acceptable temporary utility services have been provided.

### **3.4 Cast-In-Place Concrete**

Design-builder shall be responsible for providing concrete consisting of Portland cement, fine and coarse aggregate, water, and approved admixtures; then combined, mixed, transported, placed, finished and cured to accommodate the proposed work. All admixtures, curing compounds, etc. used in concrete or the curing and repair of concrete, which can contact potable water, shall be certified as conforming to the requirements of ANSI/NSF 61 for contact with potable water when in the finished concrete.

### **3.5 Miscellaneous Metals**

All metals shall be non-ferrous except of steel reinforcing and as approved by the Owner. All bolt, nuts and washers shall be 316 stainless steel the nuts shall be coated to prevent galling. Anchor bolts shall be 316 stainless steel. Stanchions, pipe supports, equipment bases, braces and straps shall be 316 stainless steel or aluminum.

### **3.6 Painting**

Design-builder shall provide all labor, materials, tools, equipment, and incidentals as required to furnish and apply paint systems for surface preparation and painting of all new and existing interior and exterior items and surfaces throughout the project areas. Mechanical and process items to be painted include new and existing walls, floors, piping, mechanical equipment, supports, and any pertinent accessory items or area damaged by the construction activity. Owner's approval shall be required for all components of the surface preparation, selection of colors, and paint system application before start of proposed work.

## **Part 4 Electrical Requirements**

### **4.1 Basic Requirements**

Design-builder shall design and provide all labor, materials, equipment and incidentals to complete the electrical work. All systems shall be properly grounded. Exterior systems shall have lightning protection.

### **4.2 Codes**

Material and equipment shall be installed in accordance with the current standards and recommendations of the National Electrical Code, the National Electrical Safety Code, and with local codes, which apply. Where discrepancies arise between codes, the most restrictive regulation shall apply.

### **4.3 Area Classifications**

#### **A. Wet Locations**

The following areas shall be considered wet locations

1. All outdoor areas.
2. All indoor areas below grade unless otherwise specified.
3. Materials, equipment and incidentals in areas identified as wet locations shall meet NEC and NEMA requirements for wet locations. Enclosures shall meet NEMA 4 requirements as a minimum. Conduits shall be terminated at enclosures with watertight, threaded hubs.

#### **B. Corrosive Locations**

All chemical storage and pumping areas or rooms. Materials, equipment and incidentals in areas identified as corrosive shall meet NEC and NEMA requirements for corrosive locations. Conduit systems shall be PVC and enclosures shall meet NEMA 4X requirements. Conduits shall be terminated at enclosures with watertight hubs. Independent supports shall be PVC-coated galvanized steel, or fiberglass-reinforced epoxy struts.

### **4.4 Electrical Equipment**

All new electrical equipment shall be capable of operating successfully at full-rated load, without failure, with an ambient outside air temperature of 0 degrees F to 122 degrees F and an elevation of 400 feet (MSL). All electrical devices and equipment shall have ratings based on 75 degrees C terminations. All electrical equipment enclosures at a minimum shall meet NEMA 12 requirements.

### **4.5 Schematic Diagrams**

Schematic diagrams shall be prepared by the Design-builder to act as guidance in fulfilling the operational intent of the conceptual documents. It shall be the Design-builder's responsibility to meet all safety and electrical codes, and to provide all equipment, appurtenances and specialty items required to provide for complete and operable systems. Review of control schemes submitted by Design-builder shall not relieve Design-builder of their contractual responsibility to provide complete and successfully operating systems.

### **4.6 Raceway Systems**

Design-builder shall furnish and install conduit and fittings to form complete, coordinated, and grounded raceway systems. Design-builder shall provide for the proper installation of all conduits for each system.

- A. Rigid aluminum conduit for exposed indoor conduit runs in non-corrosive areas and rigid aluminum at all other sites.
- B. PVC Schedule 80 for individual conduit runs direct buried in earth and PVC coated rigid steel at all other sites (minimum 24-inch burial depth).
- C. Schedule 40 PVC for conduit runs embedded in or under structural concrete slabs or in concrete ductbanks (all sites).
- D. PVC schedule 80 conduit for exposed indoor and outdoor runs in corrosive areas and PVC coated rigid steel at all other sites.
- E. Flexible conduit for connections to motors and equipment.



#### **4.7 Inspections, Testing and Adjustments**

Accompany the normal installation tests with inspections to demonstrate to the satisfaction of the required judicial authorities the following:

- A. Connections: All circuits are properly connected in accordance with the drawings and applicable approved shop drawings.
- B. Operation: All circuit and devices are operable.
- C. Identification: All conductors are properly identified at each terminal.

Test each electrical circuit after permanent cables are in place to demonstrate that the circuit and connected equipment perform satisfactory and that they are free from improper grounds and short circuits. Individually test 600-volt cables for insulation resistance between phases and from each phase to ground. Test after cables are installed and before they are put in service with a Megger whose rating is suitable for the tested circuit. Tests shall meet with the applicable specifications of ICEA S 66 524 and NEMA WC7 1971. The insulation resistance for any given conductor shall not be less than megohm for 600 volt and less service. Any cable not meeting this value or which fails when tested under full load conditions shall be replaced with a new cable for the full length.

Test shielded instrumentation cable shields with an ohmmeter of continuity along the full length of the cable and for shield continuity to ground. Connect shielded instrumentation cables to a calibrated 4-20 milliamp DC signal transmitter and receiver. Test at 4, 12, and 20 milliamp transmitter settings.

Test the completed ground systems for continuity and for resistance to ground using an electrical ground resistance tester. Ground system resistance must be less than 5 ohms. Add up to two additional rods, spaced at 20 feet minimum from other electrodes, until resistance is less than 5 ohms.

Operate all starters, circuit breakers and associated equipment to demonstrate suitability and compliance with Specifications and reference standards, except for short circuit interrupting rating or other inherent design features covered by shop tests. Test all motors for direction of rotation and reverse connections if necessary. Check control circuits to determine that operation and sequence are correct and adjust limit switches, pressure switches, float switches, timers and other devices to give proper operation.

### **Part 5 instrumentation and Control Requirements**

#### **5.1 General**

Design-builder shall provide all labor, materials, equipment, and incidentals as shown, specified and required to furnish, install, calibrate, test, start-up and place in satisfactory operation a complete and operating system for proposed work, including programming of the PLC, SCADA, and all required wire terminations. Tag number, equipment number, and description shall match the Owners numbering convention standards.

#### **5.2 Calibration, Start-Up and Testing**

Field verify the calibration and performance of each instrument prior to start-up of the associated equipment, and document on a separate sheet for each.

### **5.3 System Check-Out and Start-Up Responsibilities**

Design-builder shall retain the services of the system supplier to supervise and/or perform check-out and start-up of all system components. As part of these services, the system supplier shall coordinate and include check-out and start-up for those equipment items not manufactured or provided by him. The services of an authorized manufacturer's representative to check the equipment installation and place the equipment in operation may be required. The manufacturer's representative shall be thoroughly knowledgeable about the installation, operation and maintenance of the equipment.

Check and approve the installation of all instrumentation and control system components and all cable and wiring connections between the various system components prior to placing the various processes and equipment into operation. Conduct a complete system checkout and adjustment, including calibration of all instruments, tuning of control loops, checking operation functions, and testing of final control actions. When there are future operational functions included in this work, they should be included in the system checkout. All problems encountered shall be promptly corrected to prevent any delays in start up of the various unit processes.

System supplier shall provide all test equipment necessary to perform the testing during system checkout and start up. Design-builder and system supplier shall be responsible for initial operation of monitoring and control system and shall make any required changes, adjustment or replacements for operation, monitoring and control of the various processes and equipment necessary to perform the functions intended.

Design-builder shall furnish to the Owner certified calibration reports for field instruments and panel mounted devices specified in this Section as soon as calibration is completed. Design-builder shall furnish Owner an installation inspection report certifying that all equipment has been installed correctly and is operating properly. The report shall be signed by authorized representatives of both Design-builder and the system supplier.

### **5.4 Instrumentation and Control System Field Test**

Following the plant monitoring and control system checkout and initial operation system supplier, under the supervision of the Design-builder, shall perform a complete system test to verify that all equipment and programmed software is operating properly as a fully integrated system, and that the intended monitoring and control functions are fully implemented and operational. Any defects or problems found during the test shall be corrected by system supplier, and then retested to demonstrate proper operation. Following demonstration of all system functions, the plant monitoring and control system including field sensors/transducers and instruments, and telemetry system shall be running and fully operational for a continuous 72 hour period.

### **5.5 Control Panels and Enclosures**

Control panels located inside control or electrical room areas shall be NEMA 12 rated unless differently noted on drawings. All others shall be stainless steel or non-metallic NEMA 4 except in corrosive areas, which shall be NEMA 4X. Provide panel ventilation or air conditioning if required by ambient conditions. Use pan type construction for doors. Door widths shall not exceed 36-inches. Exterior panel with displays shall face

north. Exterior control panels shall be 316 stainless steel with powder coated white epoxy exterior finish.

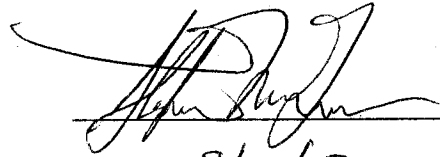
**5.6 Surge Protection**

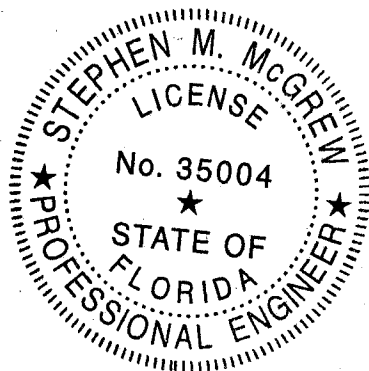
Surge protection shall be provided to protect all electronic instrumentation from surges propagating along the signal, telephone, and power supply lines. Locate the suppression device as close as possible to the load device. The protection systems shall be such that the protection level shall not interfere with normal operation, but shall be lower than the instrument surge withstand level, and be maintenance free and self-restoring. Instruments shall be housed in suitable metallic cases, properly grounded. Ground wires for all surge protectors shall be connected to a good earth ground and where practical each ground wire run individually and insulated from each other.

**5.7 Lightning Protection**

Furnish and install UL certified lightning protection system including grounding system. Grounding grid resistance shall be 5 ohms or less.

Stephen McGrew, P.E.  
P.E. License #35004  
Palm Beach County Water Utilities  
8100 Forest Hill Boulevard  
West Palm Beach, FL 33413

  
Date: 8/12/13



ATTACHMENT K  
SUPPORTING DOCUMENTATION

Cardinal Contractors, Inc.  
MB-31209-04B WTP#9 - Antenna Tower / WA#2 CCI Prime  
Mike Brandao

ESTIMATE SUMMARY - COSTS & BID PRICES

| Bid#    | Client#<br>Bid Description       | Quantity | Unit | Manhours      | Direct Labor        | Perm Matl         | Constr Matl   | Equip-Ment        | Sub-Contr             | Direct Total          | Indirect Charge | Total Cost | Total Cost Unit Price | Markup          | Balanced Bid<br>Total Unit Price | Bid Price  | Bid Total        |
|---------|----------------------------------|----------|------|---------------|---------------------|-------------------|---------------|-------------------|-----------------------|-----------------------|-----------------|------------|-----------------------|-----------------|----------------------------------|------------|------------------|
| 310     | WTP #9 WORK                      | 1.00     | LS   | 276<br>276.00 | 9,817<br>9,817.18   | 4,152<br>4,152.00 | 369<br>369.48 | 645<br>645.13     | 111,400<br>111,400.00 | 126,384<br>126,383.79 |                 | 126,384    | 126,383.79            | 13,892<br>11.0% | 140,276                          | 140,275.66 | 140,275.66<br>MB |
| 1807    | ENGINEERING SERVICES             | 1.00     | LS   |               |                     |                   |               |                   | 57,206<br>57,206.15   | 57,206<br>57,206.15   |                 | 57,206     | 57,206.15             | *** PT ***      | 57,206                           | 57,206.15  | 57,206.15<br>MB  |
| 2200    | DEMOLITION & RESTORATION         | 1.00     | LS   | 168<br>168.00 | 5,548<br>5,548.48   | 500<br>500.00     |               | 645<br>645.13     | 1,900<br>1,900.00     | 8,594<br>8,593.61     |                 |            |                       |                 |                                  |            | MB               |
| 9510    | REMOVE & REPLACE ACOUSTIC CEILIN | 1.00     | LS   | 16<br>16.00   | 528<br>528.38       | 852<br>852.00     |               |                   |                       | 1,380<br>1,380.38     |                 |            |                       |                 |                                  |            | MB               |
| 13000   | 99' ANTENNA TOWER                | 1.00     | LS   | 80<br>80.00   | 3,344<br>3,344.00   |                   |               |                   | 65,000<br>65,000.00   | 68,344<br>68,344.00   |                 |            |                       |                 |                                  |            | MB               |
| 16000   | ELECTRICAL WORK                  | 1.00     | LS   |               |                     |                   |               |                   | 44,500<br>44,500.00   | 44,500<br>44,500.00   |                 |            |                       |                 |                                  |            | MB               |
| 17000   | SCADA ANTENNA                    | 1.00     | LS   | 12<br>12.00   | 396<br>396.32       | 2,800<br>2,800.00 | 369<br>369.48 |                   |                       | 3,566<br>3,565.80     |                 |            |                       |                 |                                  |            | MB               |
| 1000000 | GENERAL CONDITIONS               | 1.00     | LS   | 146<br>146.00 | 11,641<br>11,641.18 |                   |               | 2,550<br>2,550.00 |                       | 14,191<br>14,191.18   |                 | 14,191     | 14,191.18             | 1,560<br>11.0%  | 15,751                           | 15,751.05  | 15,751.05        |
| Totals: |                                  |          |      | 422           | 21,458              | 4,152             | 2,919         | 645               | 168,606               | 197,781               |                 | 197,781    |                       | 15,451          | 213,232                          |            | 213,232.86       |

Code between Balanced Bid & Bid Price: U=Unbalanced, F=Frozen, C-Closing Biditem (item to absorb unbalancing differences).  
[bracketed numbers represent adjusted quantities]  
\*\* in front of the Biditem indicates a Non-Additive item

Markup % is shown as a percentage of cost

| Builders Risk           | 3.0000 % of TC |     |  |  |        |       |       |     |         | 4,217   | 4,217 |         |  |        | 4,217   |  |            |
|-------------------------|----------------|-----|--|--|--------|-------|-------|-----|---------|---------|-------|---------|--|--------|---------|--|------------|
| Bend from Summary Table |                |     |  |  |        |       |       |     |         | 2,184   | 2,184 |         |  |        | 2,184   |  |            |
| Markup on Resource Cost |                |     |  |  |        |       |       |     |         |         |       |         |  | 15,451 |         |  |            |
| ***** TOTAL             | JOB =====>     | 422 |  |  | 21,458 | 4,152 | 2,919 | 645 | 168,606 | 197,781 | 6,401 | 204,182 |  | 15,451 | 219,634 |  | 213,232.86 |

Cardinal Contractors, Inc.  
MB-31209-04B WTP#9 - Antenna Tower / WA#2 CCI Prime  
Mike Brundao

ESTIMATE SUMMARY - COSTS & BID PRICES

| Bid# | Client#<br>Bid Description | Quantity | Unit<br>Manhours | Direct<br>Labor | Perm<br>Matl | Constr<br>Matl | Equip-<br>ment | Sub-<br>Contr | Direct<br>Total | Indirect<br>Charge | Total<br>Cost | Total Cost<br>Unit Price | Markup | Balanced Bid<br>Total | Unit Price | Bid<br>Price | Bid<br>Total |
|------|----------------------------|----------|------------------|-----------------|--------------|----------------|----------------|---------------|-----------------|--------------------|---------------|--------------------------|--------|-----------------------|------------|--------------|--------------|
|------|----------------------------|----------|------------------|-----------------|--------------|----------------|----------------|---------------|-----------------|--------------------|---------------|--------------------------|--------|-----------------------|------------|--------------|--------------|

Spread Indirects On TOTAL COST      Spread Markups On TOTAL COST      Spread Addons&Bonds On DO NOT SPREAD

Bond Calculations  
Selected Bond Table: C Description: Bond Calc Design-

|                   | Contract Amount | Rate per 1000                  | Bond Amount |
|-------------------|-----------------|--------------------------------|-------------|
| First:            | \$ 100,000      | 10.00                          | \$ 1,000.00 |
| Next:             | \$ 400,000      | 9.90                           | \$ 1,184.38 |
| Next:             | \$ 2,000,000    | 9.50                           | \$ 0.00     |
| Next:             | \$ 2,500,000    | 9.35                           | \$ 0.00     |
| Next:             | \$ 5,000,000    | 9.00                           | \$ 0.00     |
| Remainder:        |                 | 8.87                           | \$ 0.00     |
|                   |                 | Subtotal:                      | \$ 2,184.38 |
| Time Threshold 1: | 0               | Extended Time Rate 1: 0.0000 % | \$ 0.00     |
| Time Threshold 2: | 0               | Extended Time Rate 2: 0.0000 % | \$ 0.00     |
| Length of Job:    | 9               | Total Bond Amount:             | \$ 2,184.38 |

Pass Through Totals  
Total Pass Through Cost: 57,206.15  
Total Pass Through Adjustment: 0.00

-----Estimate Notes-----

Bid Date: 01/09/2013

Owner:  
Estimator in Charge: MB

Engineering Firm:

Desired Bid (if specified)= 0.00      Sort:      Hold Acct: N      Subitem: Y      NonAdd: N  
Last Summary on 07/30/2013 at 10:57 AM.  
Last Spread on 07/30/2013 at 10:57 AM.

NOTE: Biditems that are subitems (have a parent biditem) are printed in italics.

Cost Report

| Activity Resource  | Desc                | Quantity Pcs | Unit      | Unit Cost  | Perm Labor    | Constr Material | Equip Mat/Exp | Sub-Ment Contract | Total    |
|--|---------------------|--------------|-----------|------------|---------------|-----------------|---------------|-------------------|----------|
| BID ITEM = 1807  |                     |              |           |            |               |                 |               |                   |          |
| Description = ENGINEERING SERVICES   |                     |              | Unit = LS |            | Takeoff Quan: | 1.000           |               | Engr Quan:        | MB 1.000 |
| 1807 ENGINEERING SERVICES (Quan: 1.000 LS, Hrs/Shift: 3.00, Cal: 40, WC: 01-DEF) |                     |              |           |            |               |                 |               |                   |          |
| 4CGA   | CALVIN GIORDANO & S | 1.00         | LS        | 57,206.150 |               |                 |               | 57,206            | 57,206   |

PARENT ITEM = 310  
 Description = WTP #9 WORK  
 Unit = LS Takeoff Quan: 1.000 Engr Quan: MB 1.000

Listing of Sub-Biditems of Parent Item 310:

BID ITEM = 2200  
 Description = DEMOLITION & RESTORATION  
 Unit = LS Takeoff Quan: 1.000 Engr Quan: MB 0.000

01501 DUMPSTERS (Quan: 1.000 MON, Hrs/Shift: 8.00, Cal: 40, WC: 01-DEF)

|           |                |      |     |         |  |  |  |       |       |
|-----------|----------------|------|-----|---------|--|--|--|-------|-------|
| 4DUMPSTER | Dumpster Costs | 2.00 | MON | 500.000 |  |  |  | 1,000 | 1,000 |
|-----------|----------------|------|-----|---------|--|--|--|-------|-------|

01506 FINAL CLEANING (Quan: 15.000 DAY, Hrs/Shift: 8.00, Cal: 40, WC: 01-DEF) \*\*Unreviewed

\*\*\*\*\* Copied and adjusted from EM-2012-007 \*\*\*\*\*

|            |                       |      |       |    |               |       |               |               |       |
|------------|-----------------------|------|-------|----|---------------|-------|---------------|---------------|-------|
| Z-LAB      | Labor Crew w/ Foreman |      | 24.00 | CH | Prod: 24.0000 | CH    | Lab Pcs: 3.00 | Eqp Pcs: 0.00 |       |
| Z1-LAB     | PBC Laborer           | 2.00 | 48.00 | MH | 28.640        | 1,375 |               |               | 1,375 |
| Z2-FOREMAN | PBC Foreman           | 1.00 | 24.00 | MH | 41.800        | 1,003 |               |               | 1,003 |
| \$2,377.92 | 14.4000 MH/DAYS       |      | 72.00 | MH | [ 475.584 ]   | 2,378 |               |               | 2,378 |

01512 RUNG LISTS (Quan: 5.000 DAY, Hrs/Shift: 8.00, Cal: 40, WC: 01-DEF)

|            |                       |      |       |    |               |       |               |               |       |
|------------|-----------------------|------|-------|----|---------------|-------|---------------|---------------|-------|
| Z-LAB      | Labor Crew w/ Foreman |      | 24.00 | CH | Prod: 24.0000 | CH    | Lab Pcs: 3.00 | Eqp Pcs: 0.00 |       |
| 2          | MATERIALS             |      | 1.00  | LS | 500.000       | 500   |               |               | 500   |
| Z1-LAB     | PBC Laborer           | 2.00 | 48.00 | MH | 28.640        | 1,375 |               |               | 1,375 |
| Z2-FOREMAN | PBC Foreman           | 1.00 | 24.00 | MH | 41.800        | 1,003 |               |               | 1,003 |
| \$2,877.92 | 14.4000 MH/DAYS       |      | 72.00 | MH | [ 475.584 ]   | 2,378 | 500           |               | 2,878 |

02200 DEMOLISH EXISTING TOWER AT WTP#9 (Quan: 1.000 EA, Hrs/Shift: 8.00, Cal: 40, WC: 01-DEF)

|            |                         |      |       |    |               |     |               |               |       |
|------------|-------------------------|------|-------|----|---------------|-----|---------------|---------------|-------|
| Z-LAB      | Labor Crew w/ Foreman   |      | 4.00  | CH | Prod: 12.0000 | MU  | Lab Pcs: 3.00 | Eqp Pcs: 0.00 |       |
| 4DUMPSTER  | Dumpster Costs          |      | 1.00  | EA | 500.000       |     |               | 500           | 500   |
| 8CR22BT    | => Crane - Boom Truck 2 |      | 8.00  | HR | 80.641        |     | 645           |               | 645   |
| Z1-LAB     | PBC Laborer             | 2.00 | 8.00  | MH | 28.640        | 229 |               |               | 229   |
| Z2-FOREMAN | PBC Foreman             | 1.00 | 4.00  | MH | 41.800        | 167 |               |               | 167   |
| \$1,541.44 | 12.0000 MH/EA           |      | 12.00 | MH | [ 396.32 ]    | 396 | 645           | 500           | 1,541 |

02750 SODDING (Quan: 1,000.00 SF, Hrs/Shift: 8.00, Cal: 40, WC: 01-DEF)

|            |                       |      |          |    |              |     |               |               |     |
|------------|-----------------------|------|----------|----|--------------|-----|---------------|---------------|-----|
| Z-LAB      | Labor Crew w/ Foreman |      | 4.00     | CH | Prod: 4.0000 | CH  | Lab Pcs: 3.00 | Eqp Pcs: 0.00 |     |
| 4SOD       | Sodding Subcontractor | 1.00 | 1,000.00 | SF | 0.400        |     |               | 400           | 400 |
| Z1-LAB     | PBC Laborer           | 2.00 | 8.00     | MH | 28.640       | 229 |               |               | 229 |
| Z2-FOREMAN | PBC Foreman           | 1.00 | 4.00     | MH | 41.800       | 167 |               |               | 167 |
| \$796.32   | 0.0120 MH/SF          |      | 12.00    | MH | [ 0.396 ]    | 396 |               | 400           | 796 |

====> Item Totals: 2200 - DEMOLITION & RESTORATION

|            |                |  |        |    |             |          |        |        |          |          |
|------------|----------------|--|--------|----|-------------|----------|--------|--------|----------|----------|
| \$8,593.60 | 168.0000 MH/LS |  | 168.00 | MH | [ 5548.48 ] | 5,548    | 500    | 645    | 1,900    | 8,594    |
| 8,593.600  | 1 LS           |  |        |    |             | 5,548.48 | 500.00 | 645.12 | 1,900.00 | 8,593.60 |

Cost Report

| Activity   | Desc                                    | Quantity | Unit      | Unit Cost  | Perm Labor    | Constr Material | Equip         | Sub-Ment | Sub-Contract | Total    |
|--|---|----------|-----------|------------|---------------|-----------------|---------------|----------|--------------|----------|
| BID ITEM = 9510  |   |          |           |            |               |                 |               |          |              |          |
| Description =  | REMOVE & REPLACE ACOUSTIC CEILING TILES |          | Unit = LS |            | Takeoff Quan: |                 | 1.000         |          | Engr Quan:   | MB 0.000 |
| 9510 REMOVE & REPLACE ACOUSTIC CEILING TILES Quan: 1.00 EA Hrs/Shft: 8.00 Cal: 40 WC: 01-DET |   |          |           |            |               |                 |               |          |              |          |
| Z-LAB  | Labor Crew w/ Foreman                   |          | 5.33 CH   | Prod:      | 16.0000 MU    |                 | Lab Pcs: 3.00 |          | Eqp Pcs:     | 0.00     |
| 2CEILING   | PURCHASE CEILIN@106.                    | 1.00     | LS        | 800.000    |               |                 | 852           |          |              | 852      |
| Z1-LAB   | PBC Laborer                             | 2.00     | 10.67 MH  | 28.640     |               | 306             |               |          |              | 306      |
| Z2-FOREMAN   | PBC Foreman                             | 1.00     | 5.33 MH   | 41.800     |               | 223             |               |          |              | 223      |
| \$1,380.38   | 16.0000 MH/LS                           |          | 16.00 MH  | [ 528.38 ] |               | 528             | 852           |          |              | 1,380    |
| =====> Item Totals: 9510 - REMOVE & REPLACE ACOUSTIC CEILING TILES                           |   |          |           |            |               |                 |               |          |              |          |
| \$1,380.38   | 16.0000 MH/LS                           |          | 16.00 MH  | [ 528.38 ] |               | 528             | 852           |          |              | 1,380    |
| 1,380.380  | 1 LS                                    |          |           |            |               | 528.38          | 852.00        |          |              | 1,380.38 |

|  |                      |      |           |            |               |          |               |  |            |           |
|--|----------------------|------|-----------|------------|---------------|----------|---------------|--|------------|-----------|
| BID ITEM = 13000   |                      |      |           |            |               |          |               |  |            |           |
| Description =  | 99' ANTENNA TOWER    |      | Unit = LS |            | Takeoff Quan: |          | 1.000         |  | Engr Quan: | MB 0.000  |
| 13000 99' MONOPOLE (POWERLINE) Quan: 1.00 EA Hrs/Shft: 8.00 Cal: 40 WC: 01-DET |                      |      |           |            |               |          |               |  |            |           |
| Z-FOR  | Working Foreman Only |      | 80.00 CH  | Prod:      | 80.0000 MU    |          | Lab Pcs: 1.00 |  | Eqp Pcs:   | 0.00      |
| 4TOWER   | TOWER SUBCONTRACT    | 1.00 | LS        | 65,000.000 |               |          |               |  |            | 65,000    |
| Z2-FOREMAN   | PBC Foreman          | 1.00 | 80.00 MH  | 41.800     |               | 3,344    |               |  |            | 3,344     |
| \$68,344.00  | 80.0000 MH/EA        |      | 80.00 MH  | [ 3344 ]   |               | 3,344    |               |  |            | 68,344    |
| =====> Item Totals: 13000 - 99' ANTENNA TOWER                                  |                      |      |           |            |               |          |               |  |            |           |
| \$68,344.00  | 80.0000 MH/LS        |      | 80.00 MH  | [ 3344 ]   |               | 3,344    |               |  |            | 68,344    |
| 68,344.000   | 1 LS                 |      |           |            |               | 3,344.00 |               |  | 65,000.00  | 68,344.00 |

|   |                          |      |           |            |               |  |       |  |            |          |
|---|--------------------------|------|-----------|------------|---------------|--|-------|--|------------|----------|
| BID ITEM = 16000  |                          |      |           |            |               |  |       |  |            |          |
| Description =   | ELECTRICAL WORK          |      | Unit = LS |            | Takeoff Quan: |  | 1.000 |  | Engr Quan: | MB 0.000 |
| 16000 ELECTRICAL WORK WTP#9 (POWERLINE) Quan: 1.00 EA Hrs/Shft: 8.00 Cal: 40 WC: 01-DET |                          |      |           |            |               |  |       |  |            |          |
| 4ELECTRICAL   | Electrical Subcontractor | 1.00 | LS        | 44,500.000 |               |  |       |  |            | 44,500   |
|   |                          |      |           |            |               |  |       |  |            | 44,500   |

|   |                        |      |           |            |               |        |               |        |            |          |
|---|------------------------|------|-----------|------------|---------------|--------|---------------|--------|------------|----------|
| BID ITEM = 17000  |                        |      |           |            |               |        |               |        |            |          |
| Description =   | SCADA ANTENNA          |      | Unit = LS |            | Takeoff Quan: |        | 1.000         |        | Engr Quan: | MB 0.000 |
| 17000 SCADA ANTENNA Quan: 2.00 EA Hrs/Shft: 8.00 Cal: 40 WC: 01-DET |                        |      |           |            |               |        |               |        |            |          |
| Z-LAB   | Labor Crew w/ Foreman  |      | 4.00 CH   | Prod:      | 6.0000 MU     |        | Lab Pcs: 3.00 |        | Eqp Pcs:   | 0.00     |
| 2I&C  | I&C Subcontractor      | 1.00 | LS        | 2,800.000  |               |        | 2,800         |        |            | 2,800    |
| 3HARDWARE/S   | Bolting Hardwar@106.5% | 1.00 | LS        | 346.930    |               |        | 369           |        |            | 369      |
| Z1-LAB  | PBC Laborer            | 2.00 | 8.00 MH   | 28.640     |               | 229    |               |        |            | 229      |
| Z2-FOREMAN  | PBC Foreman            | 1.00 | 4.00 MH   | 41.800     |               | 167    |               |        |            | 167      |
| \$3,565.80  | 6.0000 MH/EA           |      | 12.00 MH  | [ 198.16 ] |               | 396    | 2,800         | 369    |            | 3,566    |
| =====> Item Totals: 17000 - SCADA ANTENNA                           |                        |      |           |            |               |        |               |        |            |          |
| \$3,565.80  | 12.0000 MH/LS          |      | 12.00 MH  | [ 396.32 ] |               | 396    | 2,800         | 369    |            | 3,566    |
| 3,565.800   | 1 LS                   |      |           |            |               | 396.32 | 2,800.00      | 369.48 |            | 3,565.80 |



Cost Report

| Activity | Desc | Quantity | Unit | Unit Cost | Labor | Perm Material | Constr Matl/Exp | Equip Ment | Sub-Contract | Total |
|----------|------|----------|------|-----------|-------|---------------|-----------------|------------|--------------|-------|
|----------|------|----------|------|-----------|-------|---------------|-----------------|------------|--------------|-------|

BID ITEM = 17000  
 Description = SCADA ANTENNA Unit = LS Takeoff Quan: 1.000 Engr Quan: 0.000 MB

Total of Above Sub-Biditems

|                    |                |               |             |          |          |        |        |            |            |  |
|--------------------|----------------|---------------|-------------|----------|----------|--------|--------|------------|------------|--|
| ====> Item Totals: | 310            | - WTP #9 WORK |             |          |          |        |        |            |            |  |
| \$126,383.78       | 276.0000 MH/LS | 276.00 MH     | [ 9817.18 ] | 9,817    | 4,152    | 369    | 645    | 111,400    | 126,384    |  |
| 126,383.780        | 1 LS           |               |             | 9,817.18 | 4,152.00 | 369.48 | 645.12 | 111,400.00 | 126,383.78 |  |

BID ITEM = 1000000  
 Description = GENERAL CONDITIONS Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

01504 CONTRACT DEVELOPMENT Quant: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|            |                          |          |             |       |  |  |  |  |       |
|------------|--------------------------|----------|-------------|-------|--|--|--|--|-------|
| Z6-ASST.PM | => PBC Assistant PM      | 16.00 MH | 42.570      | 681   |  |  |  |  | 681   |
| Z7-EST     | => PBC Estimator         | 16.00 MH | 78.840      | 1,261 |  |  |  |  | 1,261 |
| Z8-PM2     | => PBC Project Manager I | 8.00 MH  | 122.560     | 980   |  |  |  |  | 980   |
| Z9-VP      | => PBC Vice President    | 1.00 MH  | 219.930     | 220   |  |  |  |  | 220   |
| \$3,142.97 | 41.0000 MH/LS            | 41.00 MH | [ 3142.97 ] | 3,143 |  |  |  |  | 3,143 |

01508 MOBILIZATION/DEMOLITION Quant: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|          |               |         |         |  |  |       |  |  |       |
|----------|---------------|---------|---------|--|--|-------|--|--|-------|
| 3HAULING | Hauling Costs | 2.00 EA | 750.000 |  |  | 1,500 |  |  | 1,500 |
|----------|---------------|---------|---------|--|--|-------|--|--|-------|

01509 PHOTOGRAPHS Quant: 1.00 MON Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|              |                            |          |         |  |  |  |  |  |     |
|--------------|----------------------------|----------|---------|--|--|--|--|--|-----|
| 3PHOTO       | Construction Photos        | 0.00 MON | 75.000  |  |  |  |  |  | 75  |
| 4AERIALPHOTO | Aerial Photos              | 0.00 EA  | 250.000 |  |  |  |  |  | 250 |
| 4PHOTO       | Professional Photo Service | 0.00 MON | 150.000 |  |  |  |  |  | 150 |
| 4VIDEO       | Professional Video Service | 0.00 EA  | 650.000 |  |  |  |  |  | 650 |
| \$0.00       |                            |          | [ ]     |  |  |  |  |  |     |

01510 PLANS Quant: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|             |                   |         |         |  |  |    |  |  |     |
|-------------|-------------------|---------|---------|--|--|----|--|--|-----|
| 3BLUEPRINTS | Blueprint Copying | 0.00 LS | 125.000 |  |  |    |  |  | 125 |
| 3FEDEX      | Fedex charges     | 3.00 EA | 25.000  |  |  | 75 |  |  | 75  |
| \$75.00     |                   |         | [ ]     |  |  | 75 |  |  | 75  |

01514 SAFETY EQUIPMENT Quant: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|             |                        |         |         |  |  |     |  |  |       |
|-------------|------------------------|---------|---------|--|--|-----|--|--|-------|
| 3SAFETY     | Safety Supplies        | 1.00 LS | 850.000 |  |  | 850 |  |  | 850   |
| 3SAFETYCONC | Concrete Safety@106.5% | 0.00 MH | 0.800   |  |  |     |  |  | 0.800 |
| \$850.00    |                        |         | [ ]     |  |  | 850 |  |  | 850   |

01518 SMALL TOOLS & SUPPLIES Quant: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|             |                    |         |       |  |  |  |  |  |       |
|-------------|--------------------|---------|-------|--|--|--|--|--|-------|
| 3SMALLTOOLS | Small Tools@106.5% | 0.00 MH | 1.790 |  |  |  |  |  | 1.790 |
|-------------|--------------------|---------|-------|--|--|--|--|--|-------|

01527 DRINKING WATER Quant: 1.00 MON Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|             |                           |          |         |  |  |     |  |  |     |
|-------------|---------------------------|----------|---------|--|--|-----|--|--|-----|
| 3WATERDRINK | Drinking Water, Cups, Ice | 1.00 MON | 125.000 |  |  | 125 |  |  | 125 |
|-------------|---------------------------|----------|---------|--|--|-----|--|--|-----|

01528 O&M MANUALS Quant: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: 01 DFT

|            |                          |         |            |           |          |      |          |      |     |
|------------|--------------------------|---------|------------|-----------|----------|------|----------|------|-----|
| Z-MAN      | Management "Crew" Custom | 4.00 CH | Prod:      | 4.0000 MU | Lab Pcs: | 1.00 | Eqp Pcs: | 0.00 |     |
| Z6-ASST.PM | PBC Assistant PM         | 1.00    | 4.00 MH    | 42.570    | 170      |      |          |      | 170 |
| \$170.28   | 4.0000 MH/LS             | 4.00 MH | [ 170.28 ] | 170       |          |      |          |      | 170 |

Cost Report

| Activity Resource                                | Desc                     | Quantity Pcs | Unit      | Unit Cost     | Perm Labor | Constr Material | Equip Mat/Exp | Sub-Ment Contract | Total           |
|--|--------------------------|--------------|-----------|---------------|------------|-----------------|---------------|-------------------|-----------------|
| BID ITEM = 1000000                               |                          |              |           |               |            |                 |               |                   |                 |
| Description = GENERAL CONDITIONS                 |                          |              | Unit = LS | Takeoff Quan: |            | 1.000           |               | Engr Quan:        | 1.000           |
| 01634  | BACKHOE                  |              |           | Quan: 1.00    | MON        | Hrs/Shft: 8.00  | Cal: 40       | WC: 01            | DET             |
| 8LDRBH-R   | Loader - Backhoe 420D    | 0.00         | HR        | 29.104        |            |                 |               |                   |                 |
| 01700  | CONSTRUCTIONMANAGER      |              |           | Quan: 1.00    | LS         | Hrs/Shft: 8.00  | Cal: 40       | WC: 01            | DET             |
| Z-MAN  | Management "Crew" Custom | 20.00        | CH        | Prod: 20.0000 | MU         | Lab Pcs: 1.00   |               | Eqp Pcs: 0.00     |                 |
| Z8-PM2   | PBC Project Manager II   | 1.00         | 20.00     | MH            | 122.560    | 2,451           |               |                   | 2,451           |
| Z9-VP  | ==> PBC Vice President   |              | 1.00      | MH            | 219.930    | 220             |               |                   | 220             |
| \$2,671.13                                       | 21.0000 MH/LS            | 21.00        | MH        | [ 2671.13 ]   | 2,671      |                 |               |                   | 2,671           |
| 01702  | SUPERINTENDENT           |              |           | Quan: 1.00    | MON        | Hrs/Shft: 8.00  | Cal: 40       | WC: 01            | DET             |
| Z-MAN  | Management "Crew" Custom | 80.00        | CH        | Prod: 80.0000 | MU         | Lab Pcs: 1.00   |               | Eqp Pcs: 0.00     |                 |
| Z4-SUPER   | PBC Superintendent       | 1.00         | 80.00     | MH            | 70.710     | 5,657           |               |                   | 5,657           |
| \$5,656.80                                       | 80.0000 MH/MON           | 80.00        | MH        | [ 5656.8 ]    | 5,657      |                 |               |                   | 5,657           |
| =====> Item Totals: 1000000 - GENERAL CONDITIONS |                          |              |           |               |            |                 |               |                   |                 |
| \$14,191.18                                      | 146.0000 MH/LS           | 146.00       | MH        | [ 11641.18 ]  | 11,641     | 2,550           |               |                   | 14,191          |
| 14,191.180                                       | 1 LS                     |              |           |               | 11,641.18  | 2,550.00        |               |                   | 14,191.18       |
| 197,781.11                                       | *** Report Totals ***    | 422.00       | MH        |               | 21,458     | 4,152           | 2,919         | 645               | 168,606 197,781 |

>>> indicates Non Additive Activity

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.  
 This report shows TAKEOFF Quantities with the resources.

"Unreviewed" Activities are marked.

Bid Date: 01/09/13 Owner: Engineering Firm:  
 Estimator-In-Charge: MB

JOB NOTES  
 1-800-444-3196  
 APPEND

Estimate created on: 05/18/2011 by User#: 0 -  
 Source used: D:\PLANT MASTER.zip (a backup) from 05/18/2011 10:56:10 AM

\*\*\*\*\*Estimate created on: 11/04/2011 by User#: 1 -  
 Source used: C:\HEAVYBID\HBSAVE\PLANT MASTER-ESTIMATE\PLANTMASTER.zip (a backup) from 11/04/2011 8:39:58 AM

\*\*\*\*\*Estimate created on: 01/08/2013 by User#: 11 - User 11  
 Source estimate used: I:\HEAVYBID\EST\PLANTMASTER

\*\*\*\*\*Estimate created on: 01/11/2013 by User#: 6 - Mike Brandao  
 Source estimate used: I:\HEAVYBID\EST\MB-31209-07

\*\*\*\*\*Estimate created on: 01/11/2013 by User#: 6 - Mike Brandao  
 Source estimate used: I:\HEAVYBID\EST\31209-04

\*\*\*\*\*Estimate created on: 02/02/2013 by User#: 6 - Mike Brandao  
 Source estimate used: I:\HEAVYBID\EST\MB-31209-04

Cost Report

| Activity | Desc | Quantity | Unit | Unit Cost | Labor | Perm Material | Constr Mat/Exp | Equip Ment | Sub-Contract | Total |
|----------|------|----------|------|-----------|-------|---------------|----------------|------------|--------------|-------|
|----------|------|----------|------|-----------|-------|---------------|----------------|------------|--------------|-------|

BID ITEM = 1000000  
 Description = GENERAL CONDITIONS Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000  
 \*\*\*\*\*Estimate created on: 07/15/2013 by User#: 6 - Mike Brandao  
 Source estimate used: I:\HEAVYBID\EST\MB-31209-04A

\* on units of MH indicate average labor unit cost was used rather than base rate.  
 [ ] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens  
 In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE%

-----Calendar Codes-----  
 40 40 Hour Week (5-8's) (Default Calendar)  
 410 40 Hour Week (4-10's)  
 45 45 Hour Week (5-9's)  
 50 50 Hour Week (5-10's)  
 AOT All Overtime

**Bid Summary Totals Report**

**Standard Markup Instructions**

|              | Cost Basis | Markup % | Markup |
|--------------|------------|----------|--------|
| Labor:       | 21,458     | 15.00    | 3,219  |
| Burden:      | 0          | 15.00    | 0      |
| Perm Matl:   | 4,152      | 15.00    | 623    |
| Const Matl:  | 2,919      | 15.00    | 438    |
| Sub:         | 111,400    | 10.00    | 11,140 |
| Eq. Op. Exp: | 422        | 5.00     | 21     |
| Co. Equip:   | 223        | 5.00     | 11     |
| Rented Eq.:  | 0          | 5.00     | 0      |
| Misc1:       | 0          | 15.00    | 0      |
| Misc2:       | 0          | 15.00    | 0      |
| Misc3:       | 0          | 15.00    | 0      |
| Overrides:   | 57,206     |          | 0      |
| Total:       | 197,780    | 7.81     | 15,452 |

Selected Bond Table: C

**Previous Run**

Summary: 07/30/2013 10:57 AM  
 Spread: 07/30/2013 10:57 AM  
 Summary run on Takeoff Quan and Adjusted to Bid Quan.

**Standard Spreads**

Indirect Spread: Total  
 Markup Spread: Total  
 Addon/Bond Spread: No Spread

**Totals as of Last Spread**

|               | Cost    | Markup | Total   |
|---------------|---------|--------|---------|
| Direct:       | 140,575 | 15,452 | 156,027 |
| Indirect:     | 0       | 0      | 0       |
| Addons:       | 4,217   | 0      | 4,217   |
| Bond:         | 2,184   |        | 2,184   |
| SubTotal:     | 146,976 | 15,452 | 162,428 |
| Pass Through: | 57,206  |        | 57,206  |
| Total:        | 204,182 | 15,452 | 219,634 |

**Key Indicators**

|                 |   |             |   |                             |
|-----------------|---|-------------|---|-----------------------------|
| Balanced Markup | / | Total Labor | = | Balanced Markup/Total Labor |
| 15,451.74       | / | 21,458.36   | = | 72.01%                      |
| Indirect Cost   | / | Direct Cost | = | Indirect Cost/Direct Cost   |
| 0.00            | / | 197,781.12  | = | 0.00%                       |

ESTIMATE RECAP - BID QUANTITIES

|              | DIRECT     | INDIRECT | TOTAL      | % OF TOTAL |
|--------------|------------|----------|------------|------------|
| Labor        | 21,458.36  |          | 21,458.36  | 10.850%    |
| Burden       |            |          |            | 0.000%     |
| Lab+Bur      | 21,458.36  |          | 21,458.36  | 10.850%    |
| Perm Matl    | 4,152.00   |          | 4,152.00   | 2.099%     |
| ConstrMtl    | 2,919.48   |          | 2,919.48   | 1.476%     |
| Co. Equip    | 222.73     |          | 222.73     | 0.113%     |
| Rented Eq    |            |          |            | 0.000%     |
| Eqp Oper     | 422.40     |          | 422.40     | 0.214%     |
| Sub          | 168,606.15 |          | 168,606.15 | 85.249%    |
| Total Costs: | 197,781.12 |          | 197,781.12 | 100.001%   |
| % of Total   | 100.000%   | 0.000%   | 100.000%   |            |

| Escalation on: | Labor     | Burden   | Perm Matl | Const Matl | Co Equip | Rented Eqp       |
|----------------|-----------|----------|-----------|------------|----------|------------------|
|                | 0         | 0        | 0         | 0          | 0        | 0                |
|                | 100.00 %  | 100.00 % | 100.00 %  | 100.00 %   | 100.00 % | 100.00 %         |
|                | Eq Op Exp | Sub      | Misc1     | Misc2      | Misc3    | Total Escalation |
|                | 0         | 0        | 0         | 0          | 0        | 0                |
|                | 100.00 %  | 100.00 % | 100.00 %  | 100.00 %   | 100.00 % | 100.00 %         |

\* Data Below here is dependent on the Summary Process. \*  
 The Summary Process was last run 07/30/2013 at 10:57 AM

|  |                        |                   |         |
|--|------------------------|-------------------|---------|
| Markup on Resource Costs                         | 15,451.74              | 7.8125%           |         |
| MARKUP TOTALS ==>                                | 15,451.74              | 7.8125%           |         |
| Cost Addons                                      |                        |                   |         |
| Builders Risk                                    | 3.0000 % of Total Cost | 4,217.25          | 2.1323% |
| Bond from Summary Table                          | 2,184.38               | 1.1044%           |         |
| MARKUP, ADDON & BOND TOTALS ==>                  | 21,853.37              | 11.0493%          |         |
|  |                        | (% of costs)      |         |
| COST + MARKUP ----->                             | \$219,634.49           |                   |         |
|  | (On Takeoff Quantity)  |                   |         |
| There * ARE NOT * closing accounts for this bid. |                        | -Effect on Bid-   |         |
| Rounding difference:                             |                        |                   |         |
| Unbalancing difference:                          |                        |                   |         |
| From Cut&Add Sheet-costs:                        |                        | (on Bid Quantity) |         |
| From Cut&Add Sheet-markup:                       |                        | (on Bid Quantity) |         |
| Pass Through Adjustments:                        |                        | None              |         |
| Net Adjustments (to the balanced bid):           |                        | [or desired bid]  |         |
| BALANCED BID TOTAL                               | \$219,634.49           |                   |         |
| DESIRED BID (if specified)                       |                        |                   |         |

|   |                                 |        |
|---|---------------------------------|--------|
| BID TOTAL (on bid quantities)               | \$213,232.86                    |        |
| BID COSTS (on bid quantities)               | \$146,976.60                    |        |
| MARKUP (on bid quantities)                  | \$9,050.11                      | 6.157% |
| EXPECTED JOB VALUE (on takeoff quantities): | \$213,232.86                    |        |
| EXPECTED COSTS (on takeoff quantities):     | \$146,976.60                    |        |
| EXPECTED MARKUP (on takeoff quantities):    | \$9,050.11                      | 6.157% |
| Adjust to Bid Quantities =                  | Y                               |        |
| Report Variation =                          | Uses customized report headings |        |

On Takeoff Quantities

|                     |        |   |        |
|---------------------|--------|---|--------|
| Labor Hrs. (MH/MHS) | 422    | 0 | 422    |
| (incl burden)       | 21,458 | 0 | 21,458 |
| Labor (DAY/DAYS)    | 0      | 0 | 0      |
| (incl burden)       | 0      | 0 | 0      |
| Labor (OtherUnits)  | 0      | 0 | 0      |
| (incl burden)       |        |   |        |
| Labor Burden        | 0      | 0 | 0      |

Spread Indirects on: Total Cost Spread Markup on: Total Cost  
 Spread Addons&Bond on: No Spread

|            |        |        |          |        |        |           |
|------------|--------|--------|----------|--------|--------|-----------|
| Markup on: | Labor  | Burden | PermMatl | CM     | CoEqp  | RentedEqp |
|            | 15.00% | 15.00% | 15.00%   | 15.00% | 5.00%  | 5.00%     |
|            | EOE    | Sub    | Misc1    | Misc2  | Misc3  |           |
|            | 5.00%  | 10.00% | 15.00%   | 15.00% | 15.00% |           |

Bond Calculations

Selected Bond Table: C Description: Bond Calc Design-Build

|                   | Contract Amount | Rate per 1000         | Bond Amount      |
|-------------------|-----------------|-----------------------|------------------|
| First:            | \$ 100,000      | 10.00                 | \$ 1,000.00      |
| Next:             | \$ 400,000      | 9.90                  | \$ 1,184.38      |
| Next:             | \$ 2,000,000    | 9.50                  | \$ 0.00          |
| Next:             | \$ 2,500,000    | 9.35                  | \$ 0.00          |
| Next:             | \$ 5,000,000    | 9.00                  | \$ 0.00          |
| Remainder:        |                 | 8.87                  | \$ 0.00          |
|                   |                 | Subtotal:             | \$ 2,184.38      |
| Time Threshold 1: | 0               | Extended Time Rate 1: | 0.0000 % \$ 0.00 |
| Time Threshold 2: | 0               | Extended Time Rate 2: | 0.0000 % \$ 0.00 |
| Length of Job:    | 9               | Total Bond Amount:    | \$ 2,184.38      |

Key Indicators

Balanced Markup / Total Labor = Balanced Markup/Total Labor

Cardinal Contractors, Inc.

07/30/2013

10:57

MB-31209-04B

WTP#9 - Antenna Tower / WA#2 CCI Prime

\*\*\* Mike Brandao

|               |   |             |   |                           |
|---------------|---|-------------|---|---------------------------|
| 15,451.74     | / | 21,458.36   | = | 72.01%                    |
| Indirect Cost | / | Direct Cost | = | Indirect Cost/Direct Cost |
| 0.00          | / | 197,781.12  | = | 0.00%                     |

----- ESTIMATE NOTES: -----

Bid Date: 01/09/2013

Owner:

Engr Firm:

Estimator-In-Charge: MB

Desired Bid (if specified) = 0.00

Notes: 1-800-444-3196

APPEND

Estimate created on: 05/18/2011 by User#: 0 -  
Source used: D:\PLANT MASTER.zip (a backup) from 05/18/2011 10:56:10 AM

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Source used: C:\HEAVYBID\HBSAVE\PLANT MASTER ESTIMATE\PLANTMASTER.zip (a backup) from 11/04/2011 8:39:58 AM

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\*\*\*\*\*Estimate created on: 01/11/2013 by User#: 6 - Mike Brandao  
Source estimate used: I:\HEAVYBID\EST\MB-31209-07

\*\*\*\*\*Estimate created on: 01/11/2013 by User#: 6 - Mike Brandao  
Source estimate used: I:\HEAVYBID\EST\31209-04

\*\*\*\*\*Estimate created on: 02/02/2013 by User#: 6 - Mike Brandao  
Source estimate used: I:\HEAVYBID\EST\MB-31209-04

\*\*\*\*\*Estimate created on: 07/15/2013 by User#: 6 - Mike Brandao  
Source estimate used: I:\HEAVYBID\EST\MB-31209-04A

Last Summary on 07/30/2013 at 10:57 AM.

Last Spread on 07/30/2013 at 10:57 AM.

ATTACHMENT K

(CONTINUED)

QUOTATIONS



CGA PROPOSAL



Calvin, Giordano & Associates, Inc.  
 EXCEPTIONAL SOLUTIONS  
 1605 Stage Blvd., Suite 140, West Palm Beach, Florida 33409  
 Phone: 561.681.6111 - Fax: 561.681.6389

ATTACHMENT E - WORK AUTHORIZATION  
 SCHEDULE OF BID ITEMS

|   |                               |                      |
|---|-------------------------------|----------------------|
| Certificate of Authorization No. 514        |                               | DATE<br>May 17, 2013 |
| Project Title<br>WTP #9 Communication Tower | CGA PROJECT NO.<br>11-4416.9  |                      |
| WA Number<br>WA-2                           | FBC WUD Project No.<br>12-022 |                      |

| Work Activity  | Employee Classification                        | Hours              | Hourly Rate            | Total               |
|----------------|--|--------------------|------------------------|---------------------|
| <b>Task #1</b> | <b>Data Collection and Survey</b>              |                    |                        |                     |
|                | <b>Engineering Services</b>                    |                    |                        |                     |
|                | Calvin, Giordano & Associates                  |                    |                        |                     |
|                | Associate, Engineering (VI)                    | 0                  | \$ 190.00              | \$ -                |
|                | Director, Engineering (V)                      | 0                  | \$ 165.00              | \$ -                |
|                | Project Manager (IV)                           | 8                  | \$ 145.00              | \$ 1,160.00         |
|                | Project Engineer (III)                         | 0                  | \$ 125.00              | \$ -                |
|                | Engineer (II)                                  | 1                  | \$ 105.00              | \$ 105.00           |
|                | CADD Technician (Engineering)                  | 0                  | \$ 95.00               | \$ -                |
|                | CADD Technician (Surveying)                    | 8                  | \$ 95.00               | \$ 760.00           |
|                | Registered Surveyor                            | 2.5                | \$ 130.00              | \$ 325.00           |
|                | Survey Crew                                    | 8                  | \$ 135.00              | \$ 1,080.00         |
|                | Soft Dig (per hole)                            | 0                  | \$ 480.00              | \$ -                |
|                | Utility Locates (per hour)                     | 8                  | \$ 205.00              | \$ 1,640.00         |
|                | <b>Engineering Task Labor Subtotal</b>         | <b>35.50</b>       |                        | <b>\$ 5,070.00</b>  |
|                | <b>Subconsultants (10% Markup)</b>             |                    |                        |                     |
|                | EDA (Electrical) SBE                           | Fee \$ 1,878.00    | Markup (10%) \$ 187.80 | \$ 2,065.80         |
|                | RADISE (Geotech) SBE                           | \$ 5,008.50        | \$ 500.85              | \$ 5,509.35         |
|                | AGA (Structural) SBE                           | \$ -               | \$ -                   | \$ -                |
|                | Colome' (Architectural) SBE                    | \$ -               | \$ -                   | \$ -                |
|                | <b>Engineering Task Subconsultant Subtotal</b> | <b>\$ 6,886.50</b> | <b>\$ 688.65</b>       | <b>\$ 7,575.15</b>  |
|                | <b>Task #1 Total</b>                           |                    |                        | <b>\$ 12,645.15</b> |

| Work Activity  | Employee Classification                        | Hours               | Hourly Rate            | Total               |
|----------------|--|---------------------|------------------------|---------------------|
| <b>Task #2</b> | <b>90% Design Submittal</b>                    |                     |                        |                     |
|                | <b>Engineering Services</b>                    |                     |                        |                     |
|                | Calvin, Giordano & Associates                  |                     |                        |                     |
|                | Associate, Engineering (VI)                    | 1                   | \$ 190.00              | \$ 190.00           |
|                | Director, Engineering (V)                      | 1                   | \$ 165.00              | \$ 165.00           |
|                | Project Manager (IV)                           | 13                  | \$ 145.00              | \$ 1,885.00         |
|                | Project Engineer (III)                         | 2                   | \$ 125.00              | \$ 250.00           |
|                | Engineer (II)                                  | 0                   | \$ 105.00              | \$ -                |
|                | CADD Technician (Engineering)                  | 8                   | \$ 95.00               | \$ 760.00           |
|                | CADD Technician (Surveying)                    | 0                   | \$ 95.00               | \$ -                |
|                | Registered Surveyor                            | 0                   | \$ 130.00              | \$ -                |
|                | Survey Crew                                    | 0                   | \$ 135.00              | \$ -                |
|                | Soft Dig (per hole)                            | 0                   | \$ 480.00              | \$ -                |
|                | Utility Locates (per hour)                     | 0                   | \$ 205.00              | \$ -                |
|                | <b>Engineering Task Labor Subtotal</b>         | <b>25.00</b>        |                        | <b>\$ 3,250.00</b>  |
|                | <b>Subconsultants (10% Markup)</b>             |                     |                        |                     |
|                | EDA (Electrical) SBE                           | Fee \$ 4,676.00     | Markup (10%) \$ 467.60 | \$ 5,143.60         |
|                | RADISE (Geotech) SBE                           | \$ -                | \$ -                   | \$ -                |
|                | AGA (Structural) SBE                           | \$ 5,850.00         | \$ 585.00              | \$ 6,435.00         |
|                | Colome' (Architectural) SBE                    | \$ -                | \$ -                   | \$ -                |
|                | <b>Engineering Task Subconsultant Subtotal</b> | <b>\$ 10,526.00</b> | <b>\$ 1,052.60</b>     | <b>\$ 11,578.60</b> |
|                | <b>Task #2 Total</b>                           |                     |                        | <b>\$ 14,828.60</b> |

| Work Activity  | Employee Classification                        | Hours              | Hourly Rate         | Total              |
|----------------|--|--------------------|---------------------|--------------------|
| <b>Task #3</b> | <b>100% Design Submittal</b>                   |                    |                     |                    |
|                | <b>Engineering Services</b>                    |                    |                     |                    |
|                | <b>Calvin, Giordano &amp; Associates</b>       |                    |                     |                    |
|                | Associate, Engineering (VI)                    | 1                  | \$ 190.00           | \$ 190.00          |
|                | Director, Engineering (V)                      | 1                  | \$ 165.00           | \$ 165.00          |
|                | Project Manager (IV)                           | 9                  | \$ 145.00           | \$ 1,305.00        |
|                | Project Engineer (III)                         | 4                  | \$ 125.00           | \$ 500.00          |
|                | Engineer (II)                                  | 0                  | \$ 105.00           | \$ -               |
|                | CADD Technician (Engineering)                  | 0                  | \$ 95.00            | \$ -               |
|                | CADD Technician (Surveying)                    | 0                  | \$ 95.00            | \$ -               |
|                | Registered Surveyor                            | 0                  | \$ 130.00           | \$ -               |
|                | Survey Crew                                    | 0                  | \$ 135.00           | \$ -               |
|                | Soft Dig (per hole)                            | 0                  | \$ 480.00           | \$ -               |
|                | Utility Locates (per hour)                     | 0                  | \$ 205.00           | \$ -               |
|                | <b>Engineering Task Labor Subtotal</b>         | <b>15.00</b>       |                     | <b>\$ 2,160.00</b> |
|                | <b>Subconsultants (10% Markup)</b>             | <b>Fee</b>         | <b>Markup (10%)</b> |                    |
|                | EDA (Electrical) SBE                           | \$ 1,538.00        | \$ 153.80           | \$ 1,691.80        |
|                | RADISE (Geotech) SBE                           | \$ -               | \$ -                | \$ -               |
|                | AGA (Structural) SBE                           | \$ 650.00          | \$ 65.00            | \$ 715.00          |
|                | Colome' (Architectural) SBE                    | \$ -               | \$ -                | \$ -               |
|                | <b>Engineering Task Subconsultant Subtotal</b> | <b>\$ 2,188.00</b> | <b>\$ 218.80</b>    | <b>\$ 2,406.80</b> |
|                | <b>Task #3 Total</b>                           |                    |                     | <b>\$ 4,566.80</b> |

| Work Activity  | Employee Classification                        | Hours              | Hourly Rate         | Total              |
|----------------|--|--------------------|---------------------|--------------------|
| <b>Task #4</b> | <b>Permitting</b>                              |                    |                     |                    |
|                | <b>Engineering Services</b>                    |                    |                     |                    |
|                | <b>Calvin, Giordano &amp; Associates</b>       |                    |                     |                    |
|                | Associate, Engineering (VI)                    | 0                  | \$ 190.00           | \$ -               |
|                | Director, Engineering (V)                      | 0                  | \$ 165.00           | \$ -               |
|                | Project Manager (IV)                           | 6                  | \$ 145.00           | \$ 870.00          |
|                | Project Engineer (III)                         | 14                 | \$ 125.00           | \$ 1,750.00        |
|                | Engineer (II)                                  | 0                  | \$ 105.00           | \$ -               |
|                | CADD Technician (Engineering)                  | 0                  | \$ 95.00            | \$ -               |
|                | CADD Technician (Surveying)                    | 0                  | \$ 95.00            | \$ -               |
|                | Registered Surveyor                            | 0                  | \$ 130.00           | \$ -               |
|                | Survey Crew                                    | 0                  | \$ 135.00           | \$ -               |
|                | Soft Dig (per hole)                            | 0                  | \$ 480.00           | \$ -               |
|                | Utility Locates (per hour)                     | 0                  | \$ 205.00           | \$ -               |
|                | <b>Engineering Task Labor Subtotal</b>         | <b>20.00</b>       |                     | <b>\$ 2,620.00</b> |
|                | <b>Subconsultants (10% Markup)</b>             | <b>Fee</b>         | <b>Markup (10%)</b> |                    |
|                | EDA (Electrical) SBE                           | \$ 878.00          | \$ 87.80            | \$ 965.80          |
|                | RADISE (Geotech) SBE                           | \$ -               | \$ -                | \$ -               |
|                | AGA (Structural) SBE                           | \$ 800.00          | \$ 80.00            | \$ 880.00          |
|                | Colome' (Architectural) SBE                    | \$ -               | \$ -                | \$ -               |
|                | <b>Engineering Task Subconsultant Subtotal</b> | <b>\$ 1,678.00</b> | <b>\$ 167.80</b>    | <b>\$ 1,845.80</b> |
|                | <b>Task #4 Total</b>                           |                    |                     | <b>\$ 4,465.80</b> |

| Work Activity | Employee Classification                          | Hours              | Hourly Rate      | Total              |
|---------------|--|--------------------|------------------|--------------------|
| Task #5       | Pre-Construction Meeting and Shop Drawing Review |                    |                  |                    |
|               | Engineering Services                             |                    |                  |                    |
|               | Calvin, Giordano & Associates                    |                    |                  |                    |
|               | Associate, Engineering (IV)                      | 0                  | \$ 190.00        | \$ -               |
|               | Director, Engineering (V)                        | 0                  | \$ 165.00        | \$ -               |
|               | Project Manager (IV)                             | 4                  | \$ 145.00        | \$ 580.00          |
|               | Project Engineer (III)                           | 0                  | \$ 125.00        | \$ -               |
|               | Engineer (II)                                    | 0                  | \$ 105.00        | \$ -               |
|               | CADD Technician (Engineering)                    | 0                  | \$ 95.00         | \$ -               |
|               | CADD Technician (Surveying)                      | 0                  | \$ 95.00         | \$ -               |
|               | Registered Surveyor                              | 0                  | \$ 130.00        | \$ -               |
|               | Survey Crew                                      | 0                  | \$ 135.00        | \$ -               |
|               | Soft Dig (per hole)                              | 0                  | \$ 480.00        | \$ -               |
|               | Utility Locates (per hour)                       | 0                  | \$ 205.00        | \$ -               |
|               | <b>Engineering Task Labor Subtotal</b>           | <b>4.00</b>        |                  | <b>\$ 580.00</b>   |
|               | Subconsultants (10% Markup)                      |                    |                  |                    |
|               | EDA (Electrical) SBE                             | Fee                | Markup (10%)     |                    |
|               |  | \$ 3,010.00        | \$ 301.00        | \$ 3,311.00        |
|               | RADISE (Geotech) SBE                             | \$ -               | \$ -             | \$ -               |
|               | AGA (Structural) SBE                             | \$ 1,500.00        | \$ 150.00        | \$ 1,650.00        |
|               | Coloma* (Architectural) SBE                      | \$ -               | \$ -             | \$ -               |
|               | <b>Engineering Task Subconsultant Subtotal</b>   | <b>\$ 4,510.00</b> | <b>\$ 451.00</b> | <b>\$ 4,961.00</b> |
|               | <b>Engineering Task Total</b>                    |                    |                  | <b>\$ 5,541.00</b> |

| Work Activity | Employee Classification                | Hours       | Hourly Rate | Total            |
|---------------|--|-------------|-------------|------------------|
| Task #6       | WTP #9 Tower Construction              |             |             |                  |
|               | Engineering Services                   |             |             |                  |
|               | Calvin, Giordano & Associates          |             |             |                  |
|               | Associate, Engineering (VI)            | 0           | \$ 190.00   | \$ -             |
|               | Director, Engineering (V)              | 0           | \$ 165.00   | \$ -             |
|               | Project Manager (IV)                   | 4           | \$ 145.00   | \$ 580.00        |
|               | Project Engineer (III)                 | 0           | \$ 125.00   | \$ -             |
|               | Engineer (II)                          | 0           | \$ 105.00   | \$ -             |
|               | CADD Technician (Engineering)          | 0           | \$ 95.00    | \$ -             |
|               | CADD Technician (Surveying)            | 0           | \$ 95.00    | \$ -             |
|               | Registered Surveyor                    | 0           | \$ 130.00   | \$ -             |
|               | Survey Crew                            | 0           | \$ 135.00   | \$ -             |
|               | Soft Dig (per hole)                    | 0           | \$ 480.00   | \$ -             |
|               | Utility Locates (per hour)             | 0           | \$ 205.00   | \$ -             |
|               | <b>Engineering Task Labor Subtotal</b> | <b>4.00</b> |             | <b>\$ 580.00</b> |

| Subconsultants (10% Markup) | Fee         | Markup (10%) | Total       |
|-----------------------------|-------------|--------------|-------------|
| EDA (Electrical) SBE        | \$ 968.00   | \$ 96.80     | \$ 1,064.80 |
| RADISE (Geotech) SBE        | \$ 6,750.00 | \$ 675.00    | \$ 7,425.00 |
| AGA (Structural) SBE        | \$ 1,380.00 | \$ 138.00    | \$ 1,518.00 |
| Calome' (Architectural) SBE | \$ -        | \$ -         | \$ -        |

Engineering Task Subconsultant Subtotal \$ 9,098.00 \$ 909.80 \$ 10,007.80

Engineering Task Total \$ 10,587.80

| Work Activity | Employee Classification         | Hours | Hourly Rate | Total       |
|---------------|---------------------------------|-------|-------------|-------------|
| Task #7       | WTP #9 Project Close-Out        |       |             |             |
|               | Engineering Services            |       |             |             |
|               | Calvin, Giordano & Associates   |       |             |             |
|               | Associate, Engineering (VI)     | 0     | \$ 250.00   | \$ -        |
|               | Director, Engineering (V)       | 0     | \$ 165.00   | \$ -        |
|               | Project Manager (IV)            | 14    | \$ 145.00   | \$ 2,030.00 |
|               | Project Engineer (III)          | 0     | \$ 125.00   | \$ -        |
|               | Engineer (II)                   | 0     | \$ 105.00   | \$ -        |
|               | CADD Technician (Engineering)   | 0     | \$ 95.00    | \$ -        |
|               | CADD Technician (Surveying)     | 8     | \$ 95.00    | \$ 760.00   |
|               | Registered Surveyor             | 1     | \$ 130.00   | \$ 130.00   |
|               | Survey Crew                     | 4     | \$ 135.00   | \$ 540.00   |
|               | Soft Dig (per hole)             | 0     | \$ 480.00   | \$ -        |
|               | Utility Locates (per hour)      | 0     | \$ 205.00   | \$ -        |
|               | Engineering Task Labor Subtotal | 27.00 |             | \$ 3,460.00 |

| Subconsultants (10% Markup) | Fee       | Markup (10%) | Total     |
|-----------------------------|-----------|--------------|-----------|
| EDA (Electrical) SBE        | \$ 410.00 | \$ 41.00     | \$ 451.00 |
| NADISE (Geotech) SBE        | \$ -      | \$ -         | \$ -      |
| ASA (Structural) SBE        | \$ 600.00 | \$ 60.00     | \$ 660.00 |
| Colome' (Architectural) SBE | \$ -      | \$ -         | \$ -      |

Engineering Task Subconsultant Subtotal \$ 1,010.00 \$ 101.00 \$ 1,111.00

Engineering Task Total \$ 4,571.00

| Work Activity                             | Employee Classification | Hours         | Hourly Rate  | Total               |
|---|-------------------------|---------------|--------------|---------------------|
| <b>Totals</b>                             |                         |               |              |                     |
| <b>Engineering Services</b>               |                         |               |              |                     |
| <b>Calvin, Giordano &amp; Associates</b>  |                         |               |              |                     |
| Lump Sum                                  |                         | 0             | \$ 10,000.00 | \$ -                |
| Associate, Engineering (VI)               |                         | 2             | \$ 190.00    | \$ 380.00           |
| Director, Engineering (V)                 |                         | 2             | \$ 165.00    | \$ 330.00           |
| Project Manager (IV)                      |                         | 58            | \$ 145.00    | \$ 8,410.00         |
| Project Engineer (III)                    |                         | 20            | \$ 125.00    | \$ 2,500.00         |
| Engineer (II)                             |                         | 1             | \$ 105.00    | \$ 105.00           |
| CADD Technician                           | (Engineering)           | 8             | \$ 95.00     | \$ 760.00           |
| CADD Technician                           | (Surveying)             | 16            | \$ 95.00     | \$ 1,520.00         |
| Registered Surveyor                       |                         | 3.5           | \$ 130.00    | \$ 455.00           |
| Survey Crew                               |                         | 12            | \$ 135.00    | \$ 1,620.00         |
| Soft Dig (per hole)                       |                         | 0             | \$ 480.00    | \$ -                |
| Utility Locates (per hour)                |                         | 8             | \$ 205.00    | \$ 1,640.00         |
| <b>Engineering Project Labor Subtotal</b> |                         | <b>130.50</b> |              | <b>\$ 17,720.00</b> |

| Subconsultants (10% Markup)                       |     | Fee                 | Markup (10%)       | Total               |
|---|-----|---------------------|--------------------|---------------------|
| EDA (Electrical)                                  | SBE | \$ 13,358.00        | \$ 1,335.80        | \$ 14,693.80        |
| RADISE (Geotech)                                  | SBE | \$ 11,758.50        | \$ 1,175.85        | \$ 12,934.35        |
| AGA (Structural)                                  | SBE | \$ 10,780.00        | \$ 1,078.00        | \$ 11,858.00        |
| Colome (Architectural)                            | SBE | \$ -                | \$ -               | \$ -                |
| <b>Engineering Project Subconsultant Subtotal</b> |     | <b>\$ 35,896.50</b> | <b>\$ 3,589.65</b> | <b>\$ 39,486.15</b> |

**Engineering Task Total** \$ 57,206.15



State Certificate # EC-13003753

LOW/RESPONSIVE

Date: 1 May 2013

Cardinal Contractors, Inc.

5365 Stirling Rd.

Ft. Lauderdale, FL 33314

Reference: Design Build

PBCWUD WTP #9 WUD 12-022

Summary of Work Pages 1-15

Based on Latest Revised Location

711 Commerce Way Suite # 6 Jupiter, FL. 33458  
Ph. 561-575-4270 Fax 561-575-4269 Email: PowerlineOfSouth@bellsouth.net

|  |              |
|--|--------------|
| 1. Monopole 99 ft. Tower per Specifications    | \$ 65,000.00 |
| 2. P.B.C. provided Antenna Installation        | \$ 10,000.00 |
| 3. Underground Utilities                       | \$ 8,500.00  |
| 4. Grounding/Lighting Protection               | \$ 13,000.00 |
| 5. Inspections & Adjustments                   | \$ 5000.00   |
| 6. Instrumentation & Control System Field Test | \$ 7000.00   |
| 7. Permitting                                  | \$ 1000.00   |

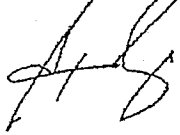
**Total Budgeted Amount: \$ 109,500.00**

*(One Hundred Thirty Five Thousand Five Hundred Dollars)*

*If you have any questions or require additional information, please do not hesitate to contact us.*

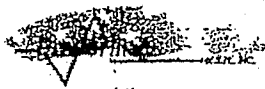
Sincerely

Powerline of South FL Inc.



Thomas Laessig

President



State Certificate # EC-13003753



ELECTRON

NOT USED

WTP # 11 Budgets @ 157,000.00

WTP # 9 Budgets @ 140,000.00

Please feel free to call me should you have any questions.

Albert Laessig

President



NOT USED

Energy Efficient Electric, Inc.  
1600 Mercer Ave. Unit 6  
West Palm Beach, FL. 33401  
Phone (561) 655-7211 Fax (561) 655-9661  
Mobile (561) 722-1383  
E-Mail Address: bill@energyeff.com

March 19, 2013

Electrical Scope of Work  
SCADA Tower @ WTP No. 9  
Project No. WUD 12-022

We are pleased to provide your firm with our scope and proposal for the necessary electrical work on the above referenced project as stated below in the inclusions and clarifications.

1. Provide 99ft Monopole rated for 160 MPH as specified in the DBC for WTP 9 SCADA Tower project.
2. Install PBC provided radio and antenna systems as specified in the DBC for WTP 9 SCADA Tower project.
3. Furnish and install conduit systems on the tower as specified in the DBC for WTP 9 SCADA Tower project.
4. Furnish and install necessary lightning protection and grounding systems as specified in the DBC for WTP 9 SCADA Tower project.
5. Permit fees are included.
6. Provide necessary labor and test equipment to assist with necessary testing as specified in the DBC for WTP 9 SCADA Tower project.
7. Furnish and install necessary conduit system from the tower to the radio equipment as specified in the DBC for WTP 9 SCADA Tower project.
8. Provide submittal drawings for EEE supplied equipment.
9. All engineered drawings including CAD & PDF record drawings are to be provided by others.
10. All surveying is to be by others.

Lump Sum            \$ 162,000.00

Bill Scott  
Vice President