#### PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

Meeting Date: September 10, 2013 Conse

Consent [X] Public Hearing [ ] Regular []

### Department: Water Utilities Department

## I. EXECUTIVE BRIEF

**Motion and Title:** Staff recommends motion to approve: 1) Consent to Assignment of the Water, Wastewater and Reclaimed Water Improvements Design Build Contract (R2012-0160) "Contract" from Calvin Giordano & Associates, Inc. (Calvin Giordano) to Cardinal Contractors, Inc. (Cardinal); 2) Amendment No. 1 to the Contract adding Builders Risk Insurance; and 3) Work Authorization No. 2 to the Contract for Supervisory Control and Data Acquisition (SCADA) System Tower Improvements in the amount of \$241,597.94.

Summary: On January 24, 2012, Palm Beach County Board of County Commissioners(BCC) approved the Contract for Water, Wastewater and Reclaimed Water Improvements Design/Build Services with Calvin Giordano (R2012-0160). Calvin Giordano has performed design services pursuant to the contract. At this time, Calvin Giordano needs to assign the contract to its design build team contractor, Cardinal so that Cardinal can issue the statutorily and contractually required construction bonds for the project. The contract provides that this assignment requires approval of the BCC. Builders Risk Insurance is being added to the Contract as the County will no longer be providing self insurance coverage. Work Authorization No. 2 will install a new SCADA communications tower at Water Treatment Plant No. 9 (WTP 9). The existing SCADA tower does not meet the current building code and needs replacement. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15% overall. The contract with Cardinal provides for SBE participation of 26% overall. This Authorization includes 60.18% overall participation. The cumulative SBE participation, including this Work Authorization is 44.82% overall. Cardinal is a non-local company. (WUD Project No. 12-022) District 5 (JM)

**Background and Justification:** 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 (R2012-0160). Assignment of the Contract from the Engineer (Calvin Giordano) to the Contractor (Cardinal) is necessary to provide bonding from the Design Build entity. Builders Risk insurance is being added to the Contract as the County will no longer be providing self insurance coverage as of February 2013. Work Authorization No. 2 will provide a new SCADA communications tower at WTP 9. The existing retractable SCADA tower is in need of replacement and is too low for remote reading of water meters. The new SCADA tower will be 99' high to provide for remote meter reading of water meters.

#### Attachments:

- 1. Location Map
- 2. Three (3) Original Consent of Assignment
- 3. Three (3) Original Amendment No. 1
- 4. Two (2) Original Work Authorizations No. 2

Recommended By:	Department Director	7/15/13
·	Department Director	Date
Approved By:	Assistant County Administrator	8/21/2013 Date
		, -

## II. FISCAL IMPACT ANALYSIS

## A. Five Year Summary of Fiscal Impact:

Fiscal Years	2013	2014	2015	2016	2017	
Capital Expenditures External Revenues Program Income (County) In-Kind Match County	\$241,597.94 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0		
NET FISCAL IMPACT	<u>\$241,597.94</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
Budget Account No.: F	und_4011_Dept	721	Unit_W01	4_Object_	6502	
Is Item Included in Current	Budget?	Yes X	No	-		
	De	porting C	atogon N/A			

Reporting Category <u>N/A</u>

## 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:

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III. REVIEW COMMENTS

A. OFMB Fisçal, and/or Contract Development and Control Comments:

19/2013

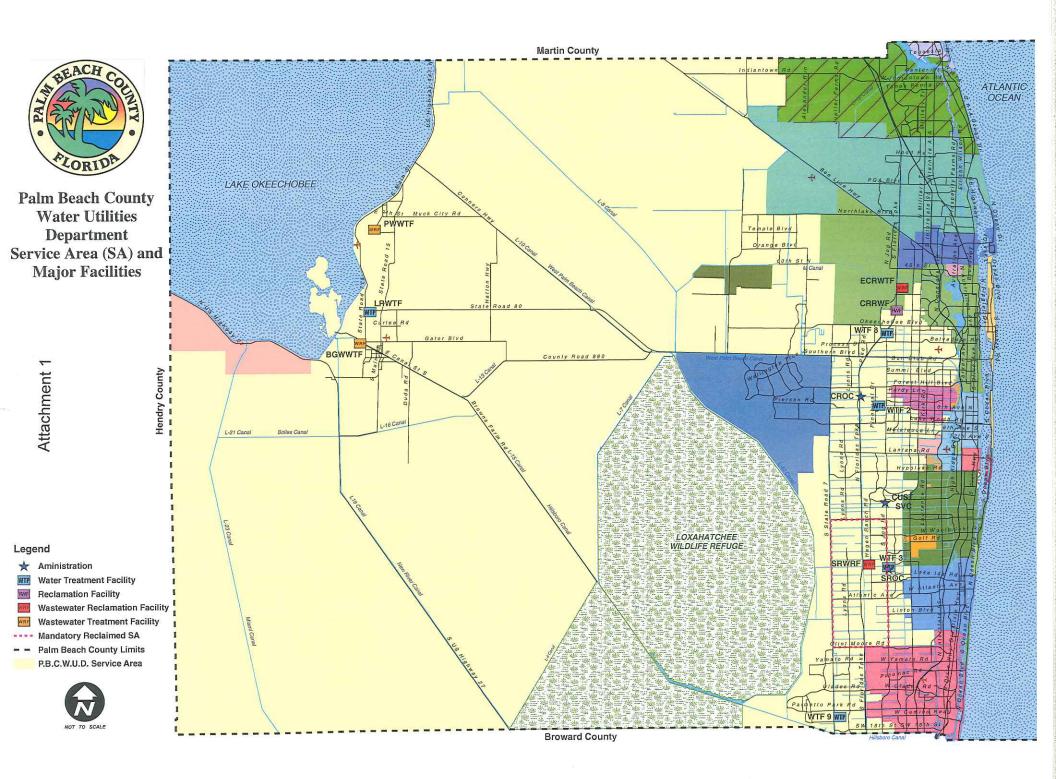
229113 Mr. J. Jercobas Intract Development and Con

Β. Legal Sufficiency: Assistant

C. Other Department Review:

**Department Director** 

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



#### **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.

1 of 3

Attachment # \_\_

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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 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

Bevin A. Beaudet, P.E., Director

Water Utilities Department

Assistant County Attorney

2 of 3

(witness signature U

(witness name printed)

(Corporate Seal)

Gol.

(witness signature)

Robin C. Wilson (witness name printed)

(Corporate Seal)

Calvin Giordano & Associates, Inc.

By: Shelley Eich

Shelley Eichner (print signatory's name)

President SOMUT 1 *م*)آ (print title)

Cardinal Contractors Inc. By:

William J. McDevitt

(print signatory's name)

President

(print title)

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#### ASSIGNMENT AND ASSUMPTION OF AGREEMENT

This ASSIGNMENT AND ASSUMPTION OF AGREEMENT (the "Assignment") is made and delivered as of July  $2\mathcal{L}^{+4}$ , 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. <u>Assignment</u>. 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. <u>Assumption</u>. 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. <u>Representations and Warranties</u> 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. <u>Miscellaneous</u>.

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.

c. 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]

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#### **ASSIGNEE:**

CARDINAL CONTRACTORS, INC., a Florida corporation

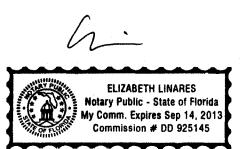
By: Name: William J. McDevitt Title: President

Bh ( Robin C. Wilson Assistant Secretary

#### **ASSIGNOR:**

CALVIN, GIORDANO & ASSOCIATES, a Florida corporation

By: Name: J 0 ENNIS (-SIDKDA Title: PRESIDENT



#### 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:

<u>BUILDER'S RISK</u> 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.

> Amendment No. 1 Page 1 of 3

3

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:

BUILDERS RISK:	· · · · · · · · · · · · · · · · · · ·
Limit not less than:	The total project completed construction value as well as subsequent modifications to that sum.
Endorsement to waive coverage	
termination from Occupancy	Yes
Endorsement cover until final acceptance of the project by Certificate of Occupancy by the Owner.	Yes
Additional Insured & Loss Payee endorsements required:	Yes

3.

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

Amendment No. 1 Page 2 of 3 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:

CONDITIONS

Steven L. Abrams, Mayor

APPROVED AS TO TERMS AND

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

Assistant County Attorney

Bevin A. Beaudet, Director

Water Utilities Department

CARDINAL CONTRACTORS, INC.

Rν (signatory)

William J. McDevitt

(print signatory's name)

President

(print title)

July 26 (date of execution)

20 13

10405 Technology Terrace (Contractor's Official Address)

Lakewood Ranch, FL 34211

(Contractor's City, State, Zip Code)

Amendment No. 1 Page 3 of 3

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

(witness signature)

(Corporate Seal)

#### 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 <u>26</u>% SBE participation overall. This Work Authorization includes <u>60.18</u>% overall participation. The cumulative proposed SBE participation, including this authorization is <u>51.28</u>% 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) <u>135</u> Calendar Days after receipt of executed Work Authorization and notice to proceed with design.

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

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

Liquidated damages will apply as follows: <u>\$1,000</u> per day past substantial completion date. <u>\$500</u> per day past final completion date. (For Liquidated Damages Rates see ATTACHMENT B)

Attachment #

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 <u>\$ 241,597.94</u>, 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 <u>01/24/2012</u> 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

ATTEST:

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

Steven L. Abrams, Mayor

SPAG

Board of County Commissioners

Palm Beach County,

Typed Name:

Deputy Clerk

Date

Signed:

Approved as to Form and Legal Sufficiency

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

Typed Name: \_\_\_\_

County Attorney

DESIGN BUILD ENTITY:

Cardinal Contractors, Inc.

ATTEST:

Witness

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

(CORPORATE SEAL)

till A

(Signature)

William J. McDevitt, President (Name and Title)

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

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

#### 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 <u>11-134</u> (CONTRACT) with <u>Calvin, Giordano & Associates, as assigned to Cardinal Contractors, Inc.</u> (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 <u>all</u> 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) <u>135</u> Calendar Days after receipt of executed Work Authorization and notice to proceed with design.

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

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

Liquidated damages will apply as follows: <u>\$1,000</u> per day past substantial completion date. <u>\$500</u> 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

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

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

#### Dollars (\$ 241.597.94)

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 \_\_\_\_\_\_, 20<u>13</u>, between Principal and County for the design and construction of <u>SCADA Systems Tower improvementa</u>, 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 Ackowledgment Witness

Donna J. Frowd Print name

Cardinal C	ontractors, Inc.	
Principal	that	(Seal)
Print name	William J. McDevitt	
	President	
Title	· · · · ·	
Federal Insu & Western	urance Company Surety Company	
Surety		(Seal)
190	1 Des	
Print name	Debbie L. Welsh	

Attorney-in-Fact Title

## CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

## State of California

County of MARIN

On <u>August 7, 2013</u> before me, <u>Donna J. Frowd</u>, <u>Notary Public</u>, personally appeared <u>Debbie L. Welsh</u> 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. Anns

DONNA J. FROWD COMM. #1866131 ARY PUBLIC-CALIFORNIA MARIN COUNTY m. Expires October 22, 2013

 POWER
 Federal Insurance Company

 OF
 Vigilant Insurance Company

 ATTORNEY
 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.

vid B

neth C. Wender

Chubb

Surety

STATE OF NEW JERSEY County of Somerset

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, and PACIFIC INDEMNITY COMPANY, vigilant in the said secretary of FEDERAL 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 signed 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 JERSFY No. 2316685 Commission Expires July 16, 2014

#### 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 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 7 th day of August, 2013



Kunth The her 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

Form 15-10- 0225B- U (Ed. 5- 03) CONSENT

Vice Presi

# 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.

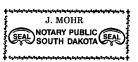
WESTERN SURETY COMPANY

State of South Dakota County of Minnehaha

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



ohr

Mohr, Notary Public

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  $\frac{7th}{day}$  of  $\frac{August}{2013}$ .

CERTIFICATE



WESTERN SURETY COMPANY

Nelson, Assistant Secretary

Form F4280-7-2012

Originals issued: 3

#### 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) <u>Cardinal Contractors, Inc. and Federal</u> 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 <u>August 7, 2013</u>

#### SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY

Cardinal Contractors, Inc.	(Seal)
(Contractor)	()
By: tilt	William J. McDevitt, President
(Signature)	(Printed Name)
Federal Insurance Company & Western Surety Company	(Seal)
(Surety)	0000
By: Debbie L. Weish, Att	orney-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( $\mathfrak{s}$ ) 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)

DONNA J. FROWD COMM. #1866131 ARY PUBLIC-CALIFORNIA MARIN COUNTY n. Expires October 22, 2013

Those Signature Anna (

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 ball 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.

meth C. Wanda

evid B. Norris, Jr., Vice Presi

STATE OF NEW JERSEY County of Somerset

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, 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, 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 JERSFY No. 2316685 Commission Expires July 16, 2014

#### CERTIFICATION

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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, Guarn, 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  $7 extsf{th}$  day of  $extsf{August}$  , 2013



Kunth P. Wende stant Secreta

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

Form 15-10- 0225B- U (Ed. 5- 03) CONSENT

# 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.



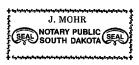
WESTERN SURETY COMPANY

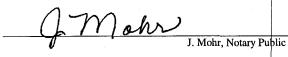
State of South Dakota County of Minnehaha

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





Vice President

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 day of August 7th 2013 my name and affixed the seal of the said corporation this \_

CERTIFICATE



WESTERN SURETY COMPANY

Relson Assistant Secretary

Form F4280-7-2012

## 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.

ACORD CERT	'IFIC	ATE OF LIA		SURA	NCE	DATE (MM/DI	
THIS CERTIFICATE IS ISSUED AS A MA CERTIFICATE DOES NOT AFFIRMATIVE BELOW. THIS CERTIFICATE OF INSUR REPRESENTATIVE OR PRODUCER, AN	TTER O ELY OR I ANCE D	F INFORMATION ONLY AN NEGATIVELY AMEND, EXT OES NOT CONSTITUTE A	D CONFERS NO RI END OR ALTER TH	GHTS UPON	THE CERTIFICATE H	POLICIES	
IMPORTANT: If the certificate holder is the terms and conditions of the policy, certificate holder in lieu of such endors	an ADD certain p	ITIONAL INSURED, the po policies may require an en	licy(ies) must be en dorsement. A state	dorsed. If S ment on this	UBROGATION IS WAI	/ED, subject confer rights	to to the
PRODUCER		5).	CONTACT NAME;		•		
MCGRIFF, SEIBELS & WILLIAMS OF TEXAS, IN 818 Town & Country Blvd, Suite 500 Houston, TX 77024-4549	С.		PHONE 713-877- (A/C, No, Ext): 713-877- E-MAIL ADDRESS:	-8975	FAX (A/C, No	a): 713-877-8974	1
				URER(S) AFFOR	DING COVERAGE		NAIC #
			INSURER A :Zurich Am			L D4	16535 19445
INSURED Cardinal Contractors, Inc.		INSURER B :National Union Fire Insurance Company of Pittsburgh, PA					
10405 Technology Terrace Lakewood Ranch, FL 34211			INSURER D :				
			INSURER E :				
			INSURER F :				
COVERAGES CER THIS IS TO CERTIFY THAT THE POLICIES C		E NUMBER: X2U32GBX			REVISION NUMBER:		D
INDICATED. NOTWITHSTANDING ANY REC CERTIFICATE MAY BE ISSUED OR MAY PE	UIREMEN	NT, TERM OR CONDITION OF IE INSURANCE AFFORDED B	ANY CONTRACT OR Y THE POLICIES DES	OTHER DOCU	MENT WITH RESPECT	O WHICH THIS	5
EXCLUSIONS AND CONDITIONS OF SUCH	ADDL SUE	BR	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LI	MITS	
A GENERAL LIABILITY	INSR WV	GLO 5490287-01 SIR: \$250.000	02/28/2013	02/28/2014	EACH OCCURRENCE	\$	2,000,000
X COMMERCIAL GENERAL LIABILITY		SIR: \$250,000			DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	2,000,000
CLAIMS-MADE X OCCUR					MED EXP (Any one person)	\$	2,000,000
					PERSONAL & ADV INJURY GENERAL AGGREGATE	\$ \$	4,000,000
GEN'L AGGREGATE LIMIT APPLIES PER:					PRODUCTS - COMP/OP AG		4,000,000
						\$	
		BAP 5490286-01	02/28/2013	02/28/2014	COMBINED SINGLE LIMIT (Ea accident)	\$	2,000,000
X ANY AUTO ALL OWNED SCHEDULED					BODILY INJURY (Per person BODILY INJURY (Per accide		
AUTOS AUTOS					PROPERTY DAMAGE	\$	
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AND EMPLOYERS' LIABILITY Y / N					E,L. EACH ACCIDENT	<u>R</u> \$	
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A				E.L. DISEASE - EA EMPLO		
If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - POLICY LIN	1IT \$	
						\$	
						\$ \$	
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHIC RE: Palm Beach County, Florida, Water, Wast Palm Beach County is included as Additional favor of Palm Beach County as respects the C Umbrella Liability policies are Primary and No	ewater & Insured a	Reclaimed Water Improvements respects the General Liability	nts Design/Build Project y, Auto Liability and Ur Liability and Workers'	ct No. WUD 11 mbrella Liability Compensation	policies. General Liabili	cy, r toto Elotonic	ovided in y and
CERTIFICATE HOLDER			CANCELLATION	1			
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Palm Beach County Board of County Commissioners 50 S. Military Tr.Four Points Ctr. #110 West Palm Beach, FL 33415	, t				Aug	X	
ACORD 25 (2010/05)	The	ACORD name and logo			CORD CORPORATIO	N. All rights	reserved

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		AGE	NCY CUSTOMI L	ER ID: OC #:			
ODUCER	ADDITION					Page 2 of 2	
ODUCER GRIFF, SEIBELS & WILLIAMS OF TEXAS,	INC.		INSURED Cardinal Cont	ractors, Inc.			
RRIER		NAIC CODE	ISSUE DATE:	07/16/2013	<u> </u>		
DITIONAL REMARKS	· · · · · · · · · · · · · · · · · · ·			01110/2010	······		
IIS ADDITIONAL REMARKS FORM I							
PRM NUMBER: FORM T Professional Liability Poli							
Effective 06/15/2013-06/15/ Steadfast Insurance Company	2014	00002					
\$5,000,000 Each Claim/Aggre \$250,000 SIR Each Claim	gate Limit						
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CORD 101 (2008/01)				© 2008 ACOR		N. All rights	reserv
	The ACORD n	ame and logo a	are registered	marks of ACORD	CERTIFIC	ATE NUMBER:	×2U32
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			DA	TE (MM/DD/	•
EVIDENCE OF PRO				8/14/201	
THIS EVIDENCE OF PROPERTY INSURANCE IS ISSUED AS A MA ADDITIONAL INTEREST NAMED BELOW. THIS EVIDENCE DOES N COVERAGE AFFORDED BY THE POLICIES BELOW. THIS EVIDEN ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCT	OT AFFIRMATIVELY C	OR NEGATIVELY AN ES NOT CONSTITUT	MEND, EXTEND O	R ALTER	THE
AGENCY PHONE (A/C, No, Ext): (877) 945-7378	COMPANY				
Villis of Florida, Inc. /o 26 Century Blvd. P.O. Box 305191 /ashville, TN 37230-5191	Hartford Fire Insurar One Hartford Plaza Hartford, CT 06115	nce Company			
AX A/C, Noj.(888) 467-2378 E-MAIL ADDRESS:					
SODE: SUB CODE: JGENCY USTOMER ID #: CARDCON-03					
NSURED	LOAN NUMBER		POLICY NUMBER		
Cardinal Contractors, Inc.	EFFECTIVE DATE	EXPIRATION DATE	CONTINUE		
10405 Technology Terrace Lakewood Ranch, FL 34211	1/1/2013	1/1/2014	TERMINAT	TED IF CHEC	CKED
	THIS REPLACES PRIOR EV	IDENCE DATED:			
PROPERTY INFORMATION					
OCATION/DESCRIPTION 2530 S.W. 65th Avenue, Boca Raton, FL 33428					
				ſ	
THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF EVIDENCE OF PROPERTY INSURANCE MAY BE ISSUED OR MAY PEF SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH	ANY CONTRACT OR C	AFFORDED BY THE	WITH RESPECT 1 POLICIES DESCRI	FO WHICH BED HER	H THIS
COVERAGE INFORMATION COVERAGE / PERILS / FORMS		AMO	UNT OF INSURANCE	DEDUC	TIBLE
imit at location imit, Property in Transit or at Temporary Location			250,000 100,000		*****
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eductible, All Other Covered Perils eductible, Wind and Hail: 5%					
•					
•					
eductible, Wind and Hall: 5%					
REMARKS (Including Special Conditions)	% of values at risk at the	time of the loss suble	ect to a minimum o	f \$25,000	per
reductible, Wind and Hall: 5%	i% of values at risk at the	time of the loss subje	ect to a minimum o	f \$25,000	per
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hail Deductible is 5	% of values at risk at the	time of the loss subje	ect to a minimum o	f \$25,000	per
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hail Deductible is 5	i% of values at risk at the	time of the loss subje	ect to a minimum o	f \$25,000	per
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hail Deductible is 5	% of values at risk at the	time of the loss subje	ect to a minimum o	f \$25,000	per
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hail Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN					
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hall Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.					
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hall Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ADDITIONAL INTEREST			E THEREOF, NOT		
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hall Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ADDITIONAL INTEREST	CELLED BEFORE THE MORTGAGEE LOSS PAYEE	EXPIRATION DATE	E THEREOF, NOT		
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hail Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN		EXPIRATION DATE	E THEREOF, NOT		
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hall Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ADDITIONAL INTEREST	CELLED BEFORE THE MORTGAGEE LOSS PAYEE	EXPIRATION DATE	E THEREOF, NOT		
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hall Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ADDITIONAL INTEREST NAME AND ADDRESS Palm Beach County Board of County Commissioners c/o Palm Beach County Water Utilities Dept.	CELLED BEFORE THE MORTGAGEE LOSS PAYEE LOAN #	EXPIRATION DATE	E THEREOF, NOT		
REMARKS (Including Special Conditions) pecial Conditions: roject: Communications Antenna Installation. Wind and Hail Deductible is 5 ccurrence. Coverage is effective 8/13/2013. CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CAN DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ADDITIONAL INTEREST NAME AND ADDRESS Palm Beach County Board of County Commissioners	CELLED BEFORE THE MORTGAGEE LOSS PAYEE LOAN # AUTHORIZED REPRESENT/	EXPIRATION DATE	E THEREOF, NOT	FICE WIL	L BE

## 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

		·				1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	July 15, 20
roject Title	· · · · · · · · · · · · · · · · · · ·	······			CCI Job#	/ CGA Project No.	
	WTP #9 Communication Tower					31209-5004 / 11-	4416.9
/A Number	f				PBC WUI	D Project No.	
	WA-2					12-022	
							:
sk #1	Data Collection and Survey, B&I,	Contract Development					
	Engineering Services				\$	12,645.15	
	Cardinal Contractors	•			\$	9,540.34	
				Task #1 Total	Ś	-₹2,185.49	
					•		
							-
ask #2	90% Design Submittal					1	
	Engineering Services	4			\$	14,828.60	
	Cardinal Contractors				Ś	-	
		•		Task #2 Total	<u> </u>	14,828.60	
				1056 #4 10101	4	A7,020.00	
ask #3	100% Design Submittal						
145K #3					\$	4,566.80	
	Engineering Services Cardinal Contractors		. •		ې \$		
	Carumat contractors			T			
		All and the second		Task #3 Total	<b>. \$</b>	4,566.80	
Task #4	Permitting				·		
	Engineering Services				\$	4,465.80	
	Cardinal Contractors				\$	1,500.00	
				Task #4 Tota	\$	5,965.80	
					-		
Task #5	Pre-Construction Meeting and	Shop Drawing Review					
	Engineering Services				\$	5,541.00	:
	Cardinal Contractors				\$	10,000.00	
		•		Task #5 Tota	1 \$	15,541.00	
Task #6	WTP #9 Tower Construction						
	Engineering Services				\$	10,587.80	
	Cardinal Contractors				\$	140,388.00	
	·			Task #6 Tota	ıl ş	150,975.80	
Task #7	WTP #9 Project Close-Out		· · · ·	1.11			
	Engineering Services				Ś	4,571.00	
	Cardinal Contractors				Ś	1,000.00	
	warming wersthickly			Task #6 Tota		5,571.00	
				1056 #0 101	ai 2		
		•		C. he	ai é	219,634.49	
				Subtot Allowance (10%)			
				Allowance (10%)	\$	21,963.45	

Page 1

# SBE Schedules 1 and 2

### SCHEDULE #1

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

PROJECT NAME:	SCADA SY	stem Tower Improve	ements		PROJE	ECT NUMBER:	WUD 12-022			
NAME OF PRIME BIDDER	<u>Calvin, Gio</u> as assigne	rdano & Associates d to Cardinal Contra	<u>, Inc.</u> ctors, Inc.		ADDRESS: PHONE NO DEPARTME	561-684-6161	oulevard, Suite FAX NO. Water Utilities	<u>561-684-6363</u>	n Beach, Florida	3341
CONTACT PERSON: Karl K	Kennedy, P.	<u>E.</u>								
BID OPENING DATE: N/A		, ,								
		Р	LEASE IDENTIFY A	LL APPLICA	ABLE CATEG	ORIES		`		
Name, Address and Telephor	ne		ooth Categories) Small Business	Black	Hispanic	Women	Dollar Am Caucasian	ount Other (Please	Specify)	
Number of Minority Contracto Electrical Design Associates, Inc.	2	X	X						der ja stienen	
5300 W. Atlantic Avenue, Sta. 408				\$	\$	\$13,358.00	\$	\$		
Delray Beach, FL 33484										
RADISE International 4152 W. Blue Heron Blvd., Ste. 228		X	X		đ	\$	Ś	\$11,758.50 <i>A</i>	SIAN	
Riviera Beach, FL 33404				\$	\$	ψ	· ·		m	
Alan Gerwig & Associates, Inc. 12798 W. Forest Hill Bivd., Ste. 204			X		* *		· · · ·			
			السبيبي ا	\$	\$	\$	\$10,780.00	\$		<del></del>
Wellington, FL 33415 Powerline of South Florida, Inc.			X						1 25 - 5 1 1	
711 Commerce Way, Ste. 6	t.			\$	\$	\$	\$109,500.00	\$	·	
Jupiter, FL 33458	· .			- <del></del>	¥					
	-			\$	\$	\$ \$ 13,358.00	\$ \$120,280.00	\$ \$11,758,50		
PRIME CONTRACTOR TO C	COMPLETE	•	TOTAL	<u> </u>	\$ -	\$ 13,358.00	\$120,200.00	<b><math>\phi</math><math>f</math><math>f</math><math>f</math><math>f</math><math>\phi</math><math>f</math><math>f</math><math>f</math><math>\phi</math><math>f</math><math>f</math><math>f</math><math>\phi</math><math>f</math><math>f</math><math>f</math><math>\phi</math><math>f</math><math>f</math><math>f</math><math>f</math><math>f</math><math>f</math><math>f</math><math>f</math></b>		
BID PRICE: \$241,597.94		Total Value	of SBE Participation	: \$145,396.5	<u>0</u>		. *			
	•				•				n oach	
NOTE: 1. The amount	t listed on th	his form for a Subco	ntractor must be sup	ported by pri	ce or percenta	age included of	n Schequie 2 of	r a proposaritor		

The amount listed on this form for a Subcontractor must be supported by price of percentage metabolics.
 Subcontractor listed in order to be counted toward goal attainment.
 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 th eappropriate category.
 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 Cont		ADDRESS: 10405 Technology Terrace Lakewood Ranch, FL 34211	
		FAX NO.:941-7 <u>56-3295</u>	
CONTACT PERSON: Michael Brandao	PHONE NO.: <u>941-377-8542</u>		
ND OPENING DATE		USER DEPARTMENT:	

THIS DÓCUMENT IS TO BE COMPLETED BY THE PRIME CONTRACTOR AND SUMBITTED 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 AND DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE -M/WBE'S ON THIS PROJECT. IF THE PRIME ON THIS PROJECT.* THE 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 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.

Sian         Other           (Please Specify)
(Asian)
(Asian)
780.00
500.00
<u>280.00</u> <u>\$11,758.50</u>
CT MANAGER

# SCHEDULE 2

LETTE	R OF INTENT	TOFEREC			· · · · · · · · · · · · · · · · · · ·	and all a state of the state of	
ROJECT NO	.WUD 12-022_		NAME: WT	'P 9 Sout	h Communica	tion Tower	
O: Calvin G	iordano & Asso		as assigned to Name of Prir				
he undersigi	ned is certified b	y Palm Beacl	h County as	a(n) — (c	heck one or mo	re, as applicable):	
	Business Enter						
						cify)	
						7, 2015	
he undersign Specify in de	ed is prepared to r tail, particular we	perform the foll ark items or p	owing descri arts thereof	bed work i to be perf	n connection with ormed):	the above project	
ine em/Lot Io.	ltem Descript	ion	Qty /	Units	Unit Price	Total Price	
1 2	Design & Per Construction	mitting Administratio	LS onLS_		\$7,300 \$3,480		
						· · · ·	
at the following \$10,780	g price . (Sub	contractor's qu	uote)				
Beach County If undersigned amount of any The undersig	/. d intends to sub-s / such subcontrac ined subcontracto	subcontract an it must be state or understands	y portion of t ed: \$ s that the p	ihis subco	ntract to a non-c	cution of a contract wit ertified SBE subcontrac  rime bidder does not	ctor, t
subcontractor	from providing qu	iotations to oth	er bidders			iates, Inc	
	•			•	Name of SBE-M	WBE Subcontractor)	
	-			Ву: С	(Sig	nature)	
				(Print	Gerwig, P.E., Pr name/title of per of SBE-M/WBE S	son executing on	
		•		Date	: May 21, 2013_	·	
				Date	: May 21, 2013_		
				Date	: May 21, 2013_		
				Date	May 21, 2013_		
· · · · · · · · · · · · · · · · · · ·				Date	May 21, 2013_		
· ·				Date	: May 21, 2013_		

## 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: <u>Calvin Giordano & Associates, Inc. as assigned to Cardinal Contractors, Inc.</u> (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	<u>\$ 1,878.00</u>
2	Zoning Approval			<u>\$0.00</u>
3	Design		1	<u>\$ 6,214.00</u>
4	Permitting		1	<u>\$    878.00</u>
5	Preconstruction Services		1	<u>\$ 3,010.00</u>
6	Site Visits	·	1	<u>\$    968.00  </u>
7	Closeout		1	<u>\$ 410.00</u>

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)
All Kanning
the filter of

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

## SCHEDULE 2

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

PROJECT NO. <u>WUD 12-022</u>	PROJECT NAME: !	PBCWUD CSA NO. IMPROVEMEN	<u>4 SCADA SYSTEM</u> NTS
TO: <u>Calvin, Giordano &amp; Associate</u>			
	(Name of Prime Bi	lauer)	
The undersigned is certified by Palm	n Beach County as a(n)	- (check one or mo	re, as applicable):
Small Business Enterprise	X M	nority Business Ente	erprisex
Black Hispanic Women	Caucasian	Other (Please Speci	fy)
Date of Palm Beach County Certific	ation:1	1/1/11	
The undersigned is prepared to perform (Specify in detail, particular work iter	I the following described with the following	ork in connection with performed):	the above project
Line Item/Lot Item Description No.	Qty / Units	Unit Price	Total Price
_1 Construction Materials Test	ing Services <u>1</u>	\$ <u>11,758.50</u>	\$ <u>11,758.50</u>
at the following price		-	
	ctor's quote)	<u> </u>	

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) ٨

h  $\sim$ By (Signature)

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

2013 1.+ Ma Date:

#### SCHEDULE 2

## LETTER OF INTENT TO PERFORM AS AN SBE-MAWBE 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: <u>CALVIN GIORDANO & ASSOCIATES as assigned</u> 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: \_\_\_\_\_ AH4\_ 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/ Lot No. 	Item Description ELECTRICAL & 1&C TOWER	Qty/Units	Unit Price	Total Price/ Percentage 544,500 465,000
		······································		
				-
				-
at the following	price or percentage (Sub	6 109, 500 contractor's quote)		•
with Palm Beac If undersigned i subcontractor, t	tto a formal agreement for work with you on h County. Intends to sub-subcontract any portion of the amount of any such subcontract must be tage	is subcontract to a non-cer	a.	
The undersigne prevent Subcor	d subcontractor understands that the provi ntractor from providing quotations to other	bidders. POWERLI	ve of S.	Fe Inc.
÷	· · · · · · · ·	(Print name of SBE-N	1/WEE Subcontra	ctor)
·		By:	AS LAES	SIG PRES.
		(Print name/title of profile of SBE-M/WBE Sub	erson executing or	behalf
Revised 3/15	/11	Date:	DAY !	2013

# Attachment G

# AUTHORIZATION STATUS REPORT

## SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Globaltech Project No.
	CONSULTANT SERVICE AUTHORIZATIONS					
CSA-1	Emergency Generator Storage at NROC	Approved	\$11,689.09	4/9/2012	11-012	11-4416.3
CSA-2	WTP 3 Chemical Containment Area and Corrosion Inhibitor Storage	Approved	\$49,987.17	4/30/2012	12-003	11-4416.2
CSA-3	Morikami Reclaimed Water Storage and Pumping Facilities Existing Equipment Evaluation	Approved	\$13,355.28	5/14/2012	11-027	11-4416.1
CSA-4	SCADA System Tower Improvements	Approved	\$92,999.24	10/24/2012	12-022	
				-		
	Total CSA's	-	\$168,030.78			
	WORK AUTHORIZATIONS					
WA-1	NROC Emergency Generator Storage	Approved	\$68,860.40	10/11/2012	11-012	11-4416.8
WA-2	SCADA System Tower Improvements	Pending	\$241,597.94		12-022	
<u> </u>						
2 						
				·····		
				· · · · · · · ·		
	Total WA's		\$310,458.34	······		
	Total		\$478,489.12		<u> </u>	· · · · · · · · · · · · · · · · · · ·

# Attachment H

# AUTHORIZATION STATUS REPORT Disaster Recovery Services Design/Build Contract

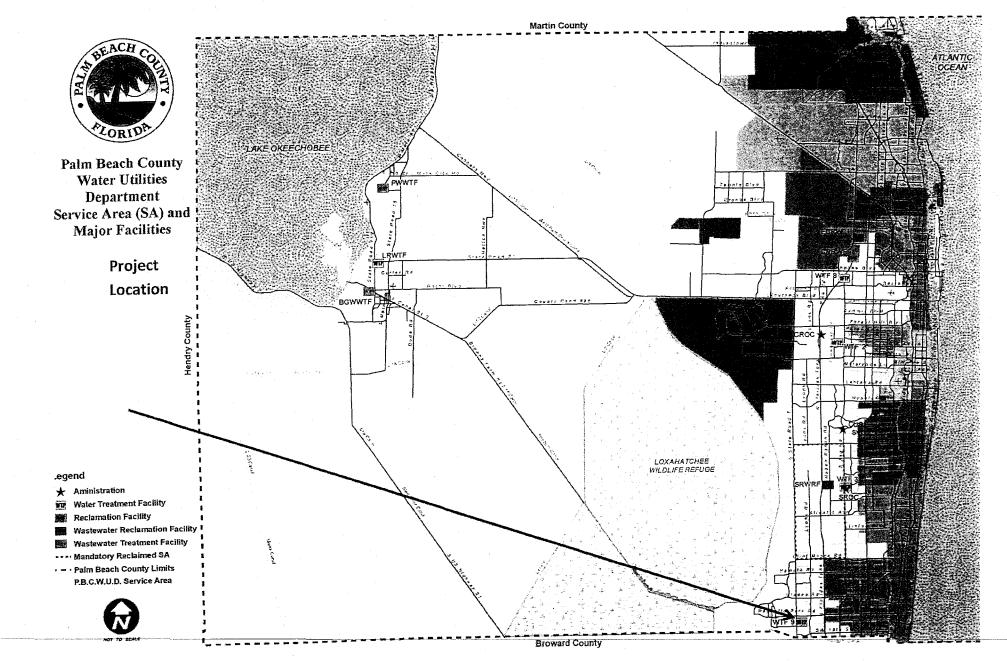
SUMMARY OF

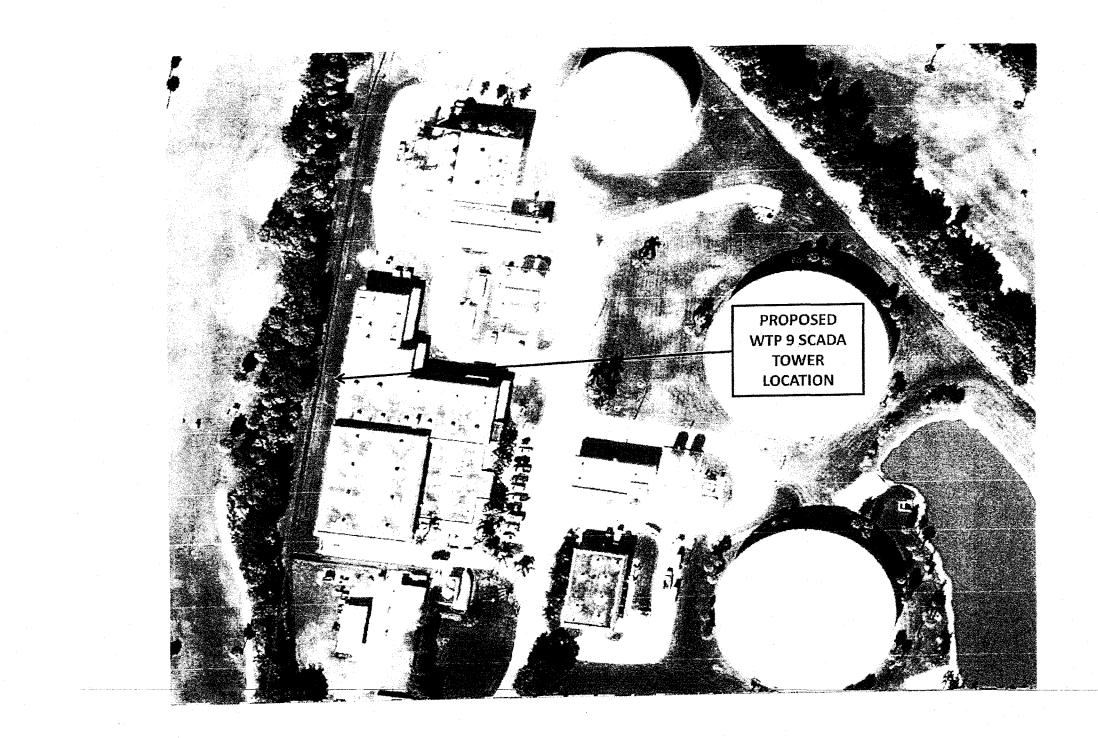
SBE / MINORITY BUSINESS TRACKING SYSTEM Consultant Services Authorizations and Work Authorizations

## WORK AUTHORIZATION NO. 2

	TOTAL	SBE
Current Proposal		
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%
Signed / Approved Authorizations		
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%
Signed / Approved Authorizatons plus Current Proposal		
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%
GOAL	26.00%	

ATTACHMENTI





## 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 Countyfurnished 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 thorough fares. 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-ofway, the Owner will have them removed upon adequate prior notice by the Designbuilder.

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 alignments; 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 contract 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 lightening 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

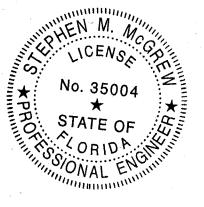
Surge protection shall be provided to protect all electronic instrumentation from surges propagating along the signal, telephone, and power supply lines. Locate the suppression device as close as possible to the load device. The protection systems shall be such that the protection level shall not interfere with normal operation, but shall be lower than the instrument surge withstand level, and be maintenance free and selfrestoring. 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

8 3 Date:



# ATTACHMENT K SUPPORTING DOCUMENTATION

	TP#9 - Antenn	a Tower /	WA#2 CO	1 Prime		FSTI	MATE SUMM	ARY - COSTS	& BID PRICE	s						07/30/2013	10:59
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Pass Through Totals Total Pass Through Cost: 57,206.15 Total Pass Through Adjustment: 0.00

-----Estimate Notes-----Engineering Firm: Owner: Estimator in Charge: MB Bid Date: 01/09/2013

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

Spread Markups On TOTAL COST

NOTE: Biditents that are subitents (have a parent biditem) are printed in italies.

	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19							e e fi				
Cardinal Contractor	rs. Inc.											Page 1
MB-31209-04B	WTP#9 - Antenna Towe	r / WA#2	CCI Prime							07/30/20		11:00
Mike Brandao				Cos	t Report							
Activity	Desc	¢	Quantity		Unit		Perm	Constr	Equip 🕋	Sub-		
Resource		Pcs	Unit		Cost	Labor Ma	aterial N	fatl/Exp	Ment Co	ontract	Total	
	· · · · · · · · · · · · · · · · · · ·			<del></del>						<u></u>		·····
						•						
BID ITEM =	1807 ENGINEERING SERVICES	•		11	1.5	Tables of Oser		1 000	EO-		MB 1.000	· .
Description = E	ENOUVERKING SER VICES			Unit =	LS	Takcoff Qua	ur:	1.000	Engr Qu	au.	1.000	
1807.	ENGINEERINGISERVICE	s: 1		n Ouan:	1.00 1	CS - CHIrs/Sh	n:	00 Cal	0 - WC:0	1 DFT		
	n and all the second	77. <b>19</b> 10 10 10 10 10 10 10 10 10 10 10 10 10	a al an air an air an air a' an an an air									
4CGA	CALVIN GIORDANO & S		1.00 LS	· 5	7,206.150					57,206	57,206	
<u></u>			·		·····			·				· · · · · · · · · · · · · · · · · · ·
DADENT PTEM	- 210										MB	
PARENT ITEM = Description =	= 310 WTP #9 WORK			Unit =	LS	Takcoff Qua	an:	1.000	Engr Q	uan:	1.000	
•	ditems of Parent Item 310:											
Listing of Sub-Die	unchis of Farcht field Jio.					· .						
BID ITEM =	2200								_ •_		MB	
Description =	DEMOLITION & RESTORA	TION		Unit =	LS	Takcoff Qu	an:	1.000	Engr Q	uan:	0.000	
01501 0 1	DUMPSIFERS			Quan	CINE STREET	MONH-5/S	NII: 2002	S.UUM Cal:7	do service a	UED FURIAR		
4DUMPSTER	Dumpster Costs		2.00 MON		500.000					1,000	1,000	
01506	FINALCEEANING					DAVIT-C	. n	2002 (63)-	e In WC	01-DFT		
01506	APRICATE SPACETICS AND			Quan		DAY, Hrs/S		5.0073.Cal.	HU228111C-1	V 151/131/200	**Un	reviewed
-	l and adjusted from E	M-2012			<b>n</b>			Lab Dear	2.00	Ean Dam	0.00	
<u>Z-LAB</u> Z1-LAB	Labor Crew w/ Foreman PBC Laborer	2.00	48.00 MH	00 CH	Prod 28.640	1,375	NCA	Lab Pcs:	3.00	Eqp Pcs:	1,375	
Z2-FOREMAN	PBC Foreman	1.00	24.00 MH		41.800	1,003					1,003	
\$2,377.92	14.4000 MH/DA	AYS	72.00 MH		[ 475.584 ]	2,378					2,378	t i
01512 2.4	PUNGHLIST				5.00	DAY_Hrs/S	sheet and	8.00 6.1	do wo	01:DETE		
UIUIL				V040	-10-10-1-1-UU	19031211130	2111 - 1.042	0.00				UNICED CONTRACTOR
Z-LAB	Labor Crew w/ Foreman			00 CH	Prod	1: 24.000		Lab Pcs:	3.00	Eqp Pcs:	0.00	
2 ZI-LAB	MATERIALS PBC Laborer	2.00	1.00 LS 48.00 MH		500.000 28.640	1,375	500				500 1,375	
Z2-FOREMAN	PBC Foreman	1.00	24.00 MH		41.800	1,003					1,003	
\$2,877.92	14.4000 MH/D	AYS	72.00 MH		[ 475.584 ]	2,378	500				2,878	3
02200	DEMOLISH EXISTING		Атумприо =	- 		EA HrsA	SPUL	8'00 5000	AN WC	01-DFT		
OTTO A TRANSPORT	AND INCOMPANY AND DESCRIPTION		CAUSINEL #25%	Marine Manager	1.555 St 1.00	22012-22014 AN	ULL CALLE	U.V.VIIICAL	~			***********
Z-LAB	Labor Crew w/ Foreman			.00 CH	Рго	d: 12.00	00 MU	Lab Pes:	3.00	Eqp Pcs:	0.00	
4DUMPSTER 8CR22BT	Dumpster Costs —> Crane - Boom Truck 2		1.00 EA 8.00 HR		500.000 80.641				645	500	50 64:	
Z1-LAB	PBC Laborer	2.00	8.00 MK		28.640	229			640		22	
Z2-FOREMAN	PBC Foreman	1.00	4.00 MH		41.800	167					16	
\$1,541.44	12,0000 MH/E	A	12.00 MH		[ 396.32 ]	396			645	500	1,54	1
02750	SODDING				π: <b>1.000 0</b> 0	).SF Hirs/	/Shft-	8.00 Ch	40 WC	01 DET		
actes and subjects			eren er en sen sen sen sen sen sen sen sen sen									
Z-LAB	Labor Crew w/ Foreman	1 00		.00 CH	Pro		000 CH	Lab Pcs:	3.00	Egp Pcs: 400	- 0.04 40	
4SOD Z1-LAB	Sodding Subcontractor PBC Laborer	1.00 2.00	1,000.00 SF 8.00 MH		0.400 28.640				V	400	22	
Z2-FOREMAN	PBC Foreman	1.00	4.00 MH		41.800						16	
\$796.32	0.0120 MH/S		12.00 MH		[ 0.396 ]					400	79	96
. <b>v</b> ,	Tratalar 2000	DEMO	THE ALL & DOC	r00+770	M		<u>-</u> -					
=====> Item \$8,593.60	Totals: 2200 - 168.0000 MH/LS	DEMO	LITION & RES 168.00 MH	ORATIC	)N [5548.48]	5,548	500	}	645	1,900	8,59	94
8,593.600	I LS		20000 000		,,	5,548.48	500.00			1,900.00		

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Cardinal Contracto	ors, Inc.		•	· ·									Page 2	
MB-31209-04B Mike Brandao		ntenna Towe	ar/WA	#2 CCI Prime		Cos	t Report		,			07/30/	-	
						-	-	•					· •	
Activity Resource	Desc	·	Pcs	Quantity Unit			Unit Cost	Labor M	Perm Naterial	Constr Matl/Exp	Equip Ment	Sub- Contract	Total	
BID ITEM =	9510									1 000		•	MB	
	REMOVE & REP		69.46.5%			Unit =		Takeoff Q		1.000		Quan:	0.000	
9510.	REMONE & R	eplace X	COUST	UC CEILING	ПЦE.	Quan	1.00	LS PHrsA	Shirt: 2 - M	8.00 Cal: 14	0.4.WC	01-DFT		
<u>Z-LAB</u> 2CEILING	Labor Crew w/ F PURCHASE CE			1.00 LS	5.33	СН	Prod 800.000	: 16.00	10 MU 852	Lab Pcs:	3.00	Eqp Pcs:	0.00 852	
Z1-LAB Z2-FOREMAN	PBC Laborer PBC Foreman		2.00 1.00	10.67 MH 5.33 MH			28.640 41.800	306 223					306 223	
\$1,380.38		000 MH/LS		16.00 MH			41.800 [ 528.38 ] '	528	852				1,380	
> Item 7 \$1,380.38	Fotals: 951 16.0000 N		REMO	VE & REPLA 16.00 MH			C CEILING	G TILES 528	852				1,380	
1,380.380	10.0000 1	1 LS		10.00 1411			[ 220,20 ]	528.38	852.00				1,380.38	
							-				<u> </u>		<u>`</u>	
BID ITEM =		<u></u>				11'-		Taba of the		1 000	<b>17</b>	Our	MB 0.000	
Description =	99' ANTENNA 1	UNEK		a management of the second		Unit =	= LS	Takeoff Q	uall.	1.000	Engr	Quan:		· · ·
13000	LOOPLIC NOROL	IE CONVE	RUNE			Quan	1:00	EASCHIS	Shft:	8,00 Cal:	40; +WC	2:01-DFT		
	(992MONOPO	10111011101												
Z-FOR 4TOWER	Working Forem	an Only			80.00		Proc	1: 80.00	100 MU	Lab Pcs:	1.00	Eqp Pcs: 65.000		
4TOWER Z2-FOREMAN	Working Forem TOWER SUBC PBC Foreman	an Only ONTRACT	1.00	1.00 LS 80.00 MH	ł		65,000.000 41.800	3,344	00 MU	Lab Pcs:	1.00	65,000	65,000 3,344	
4TOWER Z2-FOREMAN \$68,344.00	Working Forem TOWER SUBC PBC Foreman 80.	an Only ONTRACT	1.00 A	1.00 LS 80.00 MH 80.00 MH	ł		65,000.000		100 MU	Lab Pcs:	1.00		65,000	 _
4TOWER Z2-FOREMAN \$68,344.00 > Item \$68,344.00	Working Forem TOWER SUBC PBC Foreman 80.	an Only ONTRACT 2000 MH/E 2000 - MH/LS	1.00 A	1.00 LS 80.00 MH	H H VER		65,000.000 41.800	3,344 3,344 3,344	100 MU	Lab Pcs:	1.00	65,000 65,000 65,000	65,000 3,344 68,344 68,344	· · · · ·
4TOWER Z2-FOREMAN \$68,344.00	Working Forem TOWER SUBC PBC Foreman 80. Totals: 130	an Only ONTRACT 2000 MH/E	1.00 A	1.00 LS 80.00 MF 80.00 MF TENNA TOW	H H VER		65,000.000 41.800 [ 3344 ] 	3,344 3,344	00 MU	Lab Pes:	1.00	65,000 65,000	65,000 3,344 68,344 68,344 68,344.00	
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4TOWER 22-FOREMAN \$68,344.00 \$68,344.00 68,344.00 BID ITEM = Description =	Working Forem TOWER SUBC PBC Foreman 80. Totals: 136 80.0000 1 = 16000 ELECTRICAL V	an Only ONTRACT 2000 MH/E. 2000 - MH/LS 1 LS VORK	1.00 A 99' AN	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF	H H VER H	Unit	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS	3,344 3,344 3,344 3,344.00 Takeoff (	Quan:	1.000	Eng	65,000 65,000 65,000 65,000.00 r Quan:	65,000 3,344 68,344 68,344 68,344.00 MB 0.000	
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4TOWER         22-FOREMAN         \$68,344.00         ====> Item         \$68,344.00         BID ITEM         Description =         16000         4ELECTRICAL         BID ITEM         Description =         17000         2-LAB         21&C	Working Forem TOWER SUBC PBC Foreman 80. Totals: 136 \$0.0000 f = 16000 ELECTRICAL Electrical Subc = 17000 SCADA ANTE SCADA ANTE Labor Crew w J&C Subcontr	an Only ONTRACT 0000 MH/EJ 000 - MH/LS 1 LS 1 LS WORK USWORK USWORK USWORK USWORK USWORK USWORK USWORK USWORK USWORK USWORK	1.00 A 99' AN	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (POWERLIN 1.00 LS	H H H H H H H H H H H H H H H H H H H	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 100 44,500.000 = LS n 2.0 Pro 2,800.000	3,344 3,344 3,344 3,344.00 Takcoff DIES 4Hr Takcoff 0 EA 1hr od: 6.0	Quan: Shft: Quan: Shft:	1.000 <u>8/00/ Cal</u> 1.000 <u>8/00 Cal</u> J Lab Pcs: 0	Eng 402 W ) Eng	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800	
4TOWER         22-FOREMAN         \$68,344.00         ====> Item         \$68,344.00         BID ITEM         Description =         16000         4ELECTRICAL         BID ITEM         Description =         17000         2-LAB         2I&C         3HARDWARE         Z1-LAB	Working Forem TOWER SUBC PBC Foreman 80. Totals: 136 80.0000 1 = 16000 ELECTRICAL V ElECTRICAL V ElECTRICAL V ElECTRICAL NT ElECTRICAL NT ELECTRICAL NT ELECTRICAL NT ELECTRICAL NT ELECTRICAL NT SCADA ANTE SCADA ANTE Labor Crew W I&C Subcontr /S Bolting Hardw PBC Laborer	an Only ONTRACT 20000 MH/E. 2000 - MH/LS 1 LS WORK WORK USWORK USWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWOR SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORS SWORS SWOR SWORS SWOR SWORS SWORS SWORS SWORS SWORS SWORS SWOR	1.00 A 99' AN //TP#9	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (POWJERIJIN 1.00 LS 1.00 LS 1.00 LS 1.00 LS 8.00 M	H H H H H H H H	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS a:	3,344 3,344 3,344 3,344.00 Takcoff DES_0Hr Takcoff 0 EA_1Hr od: 6.0	Quan: 2/Shft:2/2 Quan: 2/Shft:2/2 2,800	1.000 3100/ Cal- 1.000 <u>\$.00</u> Cal J Lab Pcs:	Eng 402 W ) Eng 40 W	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229	
4TOWER 22-FOREMAN \$68,344.00 ====> Item \$68,344.00 68,344.000 BID ITEM = Description = 16000 4ELECTRICAL BID ITEM = Description = 17000 2-LAB 21&C 3HARDWARE	Working Forem TOWER SUBC PBC Foreman 80. Totals: 136 80.0000 1 = 16000 ELECTRICAL V ELECTRICAL V	an Only ONTRACT 20000 MH/E. 2000 - MH/LS 1 LS WORK WORK USWORK USWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWOR SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORK SWORS SWORS SWOR SWORS SWOR SWORS SWORS SWORS SWORS SWORS SWORS SWOR	1.00 A 99' AN 200 1.00	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (POWERTIN 1.00 LS 1.00 LS 1.00 LS 1.00 LS 8.00 M	4 4 4 <b>E</b> 2 2 2 3 4.00 S S 1H 1H	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS a:	3,344 3,344 3,344.00 Takeoff DECS_/Hin DECS_/Hin deci: 6.6 ) 0 229 ) 167	Quan: <u> <u> </u> </u>	1.000 <u>8:00</u> Cal 1.000 <u>8:00</u> Cal J Lab Pes: 0 369	Eng 40 W ) Eng 40 W 3.00	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369	
4TOWER         22-FOREMAN         \$68,344.00         ====> Item         \$68,344.00         BID ITEM         Description =         16000         4ELECTRICAL         BID ITEM         Description =         17000         2-LAB         21&C         3HARDWAREL         21-LAB         22-FOREMAN         \$3,565.80         ====> Item	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 20000 MH/E. 2000 - MH/LS 1 LS 2000 - MH/LS 1 LS 2000 - MH/L 2000 MH/L 20000 MH/L 20000 MH/L 20000 MH/L	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( DES Hr Takcoff 0 EA Hr od: 6.( ) ) 229 ) 167 ] 396	Quan: Quan: SShft: SShft: 2,800 2,800	1.000 <u>3:00</u> Cal 1.000 <u>\$:00</u> Cal J Lab Pcs: 0 369 0 369	Eng 40 YY 6 Eng 40 YY 3.00	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 s: 0.00 2,800 369 229 167 3,566	
4TOWER         22-FOREMAN         \$68,344.00         \$68,344.00         68,344.00         68,344.00         BID ITEM         Description =         16000         4ELECTRICAL         BID ITEM         Description =         17000         2-LAB         21&C         3HARDWAREL         21-LAB         22-FOREMAN         \$3,565.80	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr //S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 20000 MH/E. 2000 - MH/LS 1 LS 2000 - MH/LS 1 LS 2000 - MH/L 2000 MH/L 20000 MH/L 20000 MH/L 20000 MH/L	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF 100 LS 1.00 LS 1.00 LS 1.00 LS 1.00 LS 1.00 LS 1.00 LS 1.00 LS 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS a: 2.0 44,500.000 = LS n: 2.0 Pro 2,800.000 346.930 28.640 41.800	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: Quan: SShft: SShft: 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167	
4TOWER         22-FOREMAN         \$68,344.00         ====> Item         \$68,344.00         BID ITEM         Description =         16000         4ELECTRICAL         BID ITEM         Description =         17000         2LAB         2I&C         3HARDWARE         Z1-LAB         22-FOREMAN         \$3,565.80	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 2000 MH/EJ 200 - MH/LS 1 LS 200 - MH/LS 2000 MH/I 2000 MH/I 2000 MH/LS	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: 2 Quan: 2 2,800 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167 3,566	
4TOWER 22-FOREMAN \$68,344.00 ====> Item \$68,344.00 68,344.00 BID ITEM = Description = 16000 4ELECTRICAL BID ITEM = 17000 2-LAB 21&C 3HARDWARE 21-LAB 22-FOREMAN \$3,565.80 ====> Item	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 2000 MH/EJ 200 - MH/LS 1 LS 200 - MH/LS 2000 MH/I 2000 MH/I 2000 MH/LS	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: 2 Quan: 2 2,800 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167 3,566	
4TOWER 22-FOREMAN \$68,344.00 ====> Item \$68,344.00 68,344.00 BID ITEM = Description = 16000 4ELECTRICAL BID ITEM = Description = 17000 2-LAB 21&C 3HARDWARE 21-LAB 22-FOREMAN \$3,565.80 ====> Item \$3,565.80	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 2000 MH/EJ 200 - MH/LS 1 LS 200 - MH/LS 2000 MH/I 2000 MH/I 2000 MH/LS	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: 2 Quan: 2 2,800 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167 3,566	
4TOWER 22-FOREMAN \$68,344.00 ====> Item \$68,344.00 68,344.00 BID ITEM = Description = 16000 4ELECTRICAL BID ITEM = Description = 17000 2-LAB 21&C 3HARDWARE 21-LAB 22-FOREMAN \$3,565.80 ====> Item \$3,565.80	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 2000 MH/EJ 200 - MH/LS 1 LS 200 - MH/LS 2000 MH/I 2000 MH/I 2000 MH/LS	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: 2 Quan: 2 2,800 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167 3,566	
4TOWER 22-FOREMAN \$68,344.00 ====> Item \$68,344.00 68,344.00 BID ITEM = Description = 16000 4ELECTRICAL BID ITEM = Description = 17000 2-LAB 21&C 3HARDWARE 21-LAB 22-FOREMAN \$3,565.80 ====> Item \$3,565.80	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 2000 MH/EJ 200 - MH/LS 1 LS 200 - MH/LS 2000 MH/I 2000 MH/I 2000 MH/LS	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: 2 Quan: 2 2,800 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167 3,566	
4TOWER 22-FOREMAN \$68,344.00 ====> Item \$68,344.00 68,344.00 BID ITEM = Description = 16000 4ELECTRICAL BID ITEM = Description = 17000 2-LAB 21&C 3HARDWARE 21-LAB 22-FOREMAN \$3,565.80 ====> Item \$3,565.80	Working Forem TOWER SUBC PBC Foreman 80. Totals: 13( 80.0000 1 = 16000 ELECTRICAL ELECTRICAL Electrical Subc Electrical Subc SCADA ANTE SCADA ANTE Labor Crew w I&C Subcontr /S Bolting Hardw PBC Laborer PBC Foreman	an Only ONTRACT 2000 MH/EJ 200 - MH/LS 1 LS 200 - MH/LS 2000 MH/I 2000 MH/I 2000 MH/LS	1.00 A 99' AN VTP#9 VTP#9 2.00 1.00 EA	1.00 LS 80.00 MF 80.00 MF TENNA TOW 80.00 MF (ROWERLIN 1.00 LS 1.00 LS	H YER H I I I S S S S S S S S S S S S S S S S	Unit Quar Qua	65,000.000 41.800 [ 3344 ] [ 3344 ] = LS 11.00 44,500.000 44,500.000 44,500.000 22.00 Pro 2,800.000 346,930 23.640 41.800 [ 198.16	3,344 3,344 3,344.00 Takeoff ( <u>0 EA 11r</u> od: 6.( ) ) 229 ) 167 ] 396	Quan: 2 Quan: 2 2,800 2,800 2,800	1.000 <u>8'00</u> Cal 1.000 <u>8'00</u> Cal J Lab Pcs: 0 369 0 369 0 369	Eng 40	65,000 65,000 65,000.00 r Quan: <u>65,000.00</u> r Quan: <u>65,000</u> <u>7</u> <u>44,500</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	65,000 3,344 68,344 68,344 68,344.00 MB 0.000 44,500 MB 0.000 s: 0.00 2,800 369 229 167 3,566	

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Cardinal Contractors	s, Inc.										Page 3
MB-31209-04B Mike Brandao	WTP#9 - Antenna Tower / WA	#2 CCI Prime	Cost	Report					07/3	0/2013	11:00
•				•							
Activity Resource	Desc Pes	Quantity Unit		Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total	
BID ITEM =	17000									MB	
Description = S	CADA ANTENNA		Unit =	LS	Takeoff		1.000	Engr	Quan:	0.000	
н	•			Total o	f Above S	Sub-Bidite	ms				
> Item To \$126,383.78 126,383.780	tals: 310 - WTP # 276.0000 MH/LS 1 LS	9 WORK 276.00 MH	[9	817.18]	9,817 9,817.18	4,152 4,152.00			111,400 111,400.00	126,384 126,383.78	
BID ITEM =	1000000						-		-		
	GENERAL CONDITIONS		Unit =	LS	Takeofi	f Quan:	1.000	Eng	Quan:	1.000	)
01504	CONTRACTIOEVELOPMENT		Quan:	1.00	ES > H	rs/Shft:	8.00 Cal:	40: W	G:01-DFT	Ū.	
Z6-ASST.PM	=> PBC Assistant PM	16.00 MH		42.570	68	1				68	
Z7-EST	==> PBC Estimator	16.00 MH		78.840	1,26 980					1,26 98	
Z8-PM2 Z9-VP	=> PBC Project Manager 1 => PBC Vice President	8.00 MH 1.00 MH		122.560 219.930	22					22	
\$3,142.97	41.0000 MH/LS	41.00 MH	ť	3142.97 ]	3,14	3				3,14	3
01508	MOBILIZATION//DEMOBILI	ZATION	Quan:	1.00	)ILS T	irs/Shft:	8.00 . Cal	40 W	€:01 <sup>‡</sup> DF	I San Ar	
<b>3HAULING</b>	Hauling Costs	2.00 EA		750.000			1,500			1,50	0
01509	PHOTOGRAPHS		Quan	1.0	MONI	bs/Shft:	8.002 Cal	40 J.W	G:01-DE	n.	
зрното	Construction Photos	0.00 MON		75.000							
4AERIALPHOTO		0.00 EA		250.000							
4PHOTO	Professional Photo Service Professional Video Service	0.00 MON		150.000 650.000							
4VIDEO \$0.00	Professional Video Service	0.00 EA		[]							
01510,	PLANS		. Quan:	1.0	0 I.S. 1	Hrs/Shn:	8.00. Cal	40 W	/C:01-DF	T. s. s. s.	
<b>3BLUEPRINTS</b>	Blueprint Copying	0.00 LS		125.000							
3FEDEX \$75.00	Fedex charges	3.00 EA		25.000 [			75 75				75 75
	SAFETY EQUIPMENT		Quan	Roman	<b>REP</b> ECT	Hrs/Shft:	<u>8.00 C</u> a	1:/40 Y	VC:01-DI	T T	
3SAFETY	Safety Supplies	1.00 LS		850.00	)		850	)		8	50
3SAFETYCONC \$850.00	Concrete Safety@106.5%	0.00 MH		0.80 . [			850	)	· .	8	50
01518	SMALL TOOLS & SUPPLIES		Quan	2003 yri	ю LS	Hrs/Shft:	8.00 Ca	J: (40 / N	YC: 01-D	FT	
	S Small Tools@106.5%	0.00 MH		1.79	0						
01527	DRINKING WATER		Quai	n: 1. 1.	00 MON	Hrs/Shft:	8.00 C:	ป: 40	WC:01-D	FT Sa	
	K Drinking Water, Cups, Ice	1.00 MON		125.00	0		12	5			125
01528	O&NI MANUALS		Qua	n:////////////////////////////////////	00 LS	Hrs/Shft	8.00 C	al: 40	WC: 01-D	FT.	
Z-MAN	Management "Crew" Custom		.00 CH		rod:		IU Lab Pcs				.00
Z6-ASST.PM \$170.28	PBC Assistant PM 1.0 4.0000 MH/LS			42.57 [ 170.28	10	170 170					170 170

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Cardinal Contracto	ors, Inc.					•	на. 1914 г. – С.	
MB-31209-04B Mike Brandao	WTP#9 - Antenna To	ower/WA#2	CCI Prime	Cost Report			07/30	/2013
					• •			
Activity Resource	Desc		uantity Unit	Uni Cos		Perm Constr aterial Matl/Exp	Equip Sub- Ment Contract	Total
BID ITEM = Description =	1000000 GENERAL CONDITIONS		-	Unit = LS	5 Takeoff Qua	n: 1.000	Engr Quan:	1.000
01634	ВАСКНОБА			Quane II	00.MONHrs/Sh	iti:	40 WC:014DET	
&LDRBH-R	Loader - Backhoe 420D		0.00 HR	29,10	4			· · ·
01700	CONSURVENION	NAGER		Quine II	00 LS & Hrs/Sh	fit:	40 WCH019DET	
Z-MAN	Management "Crew" Cust					MU Lab Pcs:	1.00 Eqp Pcs	
Z8-PM2 Z9-VP	PBC Project Manager II ==> PBC Vice President	1.00	20.00 MH 1.00 MH	122.56 219.93	0 220			2,451 220
\$2,671.13	21.0000 MH/	ls Signal	21.00 MH	[ 2671.13				2,671
01702	SUPERINUENDENI						40. WC:01:DET	
<u>Z-MAN</u> Z4-SUPER \$5,656.80	Management "Crew" Cust PBC Superintendant 80.0000 MH	1.00	80.00 80.00 MH 80.00 MH	O CH Pi 70.71 [ 5656.8	0 5,657	) MU Lab Pcs:	1.00 Eqp Pcs	:: 0.00 5,657 5,657
<b>=====&gt;</b> Item \$14,191.18 14,191.180	Totals: 1000000 146.0000 MH/LS 1 LS	- GENERA	L CONDITIONS 146.00 MH	[ 11641.18	11,641 11,641.18	2,550 2,550.00	. ·	14,191 14,191.18
	*** Report Totals * on Additive Activity Si	***	422.00 MH		21,458	4,152 2,91	9 645 168,604	6 197,781
>>> indicates N Report Note The estimate was	on Additive Activity	Quantitics.		· · · · ·	21,458	4,152 2,91	9 645 168,60	6 197,781
>>> indicates N Report Note The estimate was This report show	on Additive Activity s: s prepared with TAKEOFF (	Quantitics.			21,458	4,152 2,91	9 645 168,604	6 197,781
>>> indicates N Report Note The estimate way This report show "Unreviewed" A	on Additive Activity s:	Quantities, h the resource	25.		21,458	4,152 2,91	9 645 168,60	6 197,781
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Cardinal Contrac MB-31209-04B Mike Brandao		ower/WA#2	CCI Prime	Cost R	leport					07/3	0/2013	Page 5 11:00
Activity Resource	Desc	Qu Pcs	uantity Unit		Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total	· .
BID ITEM :	= 1000000											
				TINIA	LS	Takeoff	Ouan:	1.000	Engr	Quan:	1.000	
Description =	GENERAL CONDITION	i.		Unit =	1.5	140001	Zum.	1.000	2.50	Q		
*********	**Estimate created	n: <u>0</u> 7/15/	-	er#: 6 - M			<b>.</b>	1.000	24.50	<b>Z</b>		
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source esti	**Estimate created imate used: I:\HEAV	m: 07/15/ BID\EST\M	IB-31209-04	er#: 6 - M A				1.000				
* on units of MI	**Estimate created imate used: I:\HEAV Hindicate average labor unit	on: 07/15/ BID\EST\M cost was used	IB-31209-04	er#: 6 - M A					<b></b>			
* on units of Mi [] in the Unit	**Estimate created imate used: I:\HEAV Hindicate average labor unit Cost Column = Labor Unit C	on: 07/15/ BID\EST\M cost was used ost Without La	IB-31209-04 rather than base abor Burdens	er∦: 6 – M A trate.	ike Br	andao						
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Source esti on units of MI ) in the Unit In equipma 	**Estimate created imate used: I:\HEAV Hindicate average labor unit Cost Column = Labor Unit C ent resources, rent	cost was used ost Without La and EOE	rather than base abor Burdens 3 % not = 1	er∦: 6 – M A trate.	ike Br	andao						
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* on units of M) { } in the Unit	**Estimate created imate used: I:\HEAV H indicate average labor unit Cost Column = Labor Unit C ent resources, rent Codes	n: 07/15/ BID\EST\M cost was used ost Without La % and EOE ) (Default Cal	rather than base abor Burdens 3 % not = 1	er∦: 6 – M A trate.	ike Br	andao						

Cardinal Contract MB-31209-04B		Antenna Tower /	WA#2 CCI Prin	ne		07/30/20 Page:	13 10:58 1
		В	d Summary To	tals Report		·	·
Standard Markup	Instructions			Previous Run			
	Cost Basis	Markup %	Markup	Summary: Spread:	07/30/2013 10 07/30/2013 10	):57 AM	
Labor:	21,458	15.00	3,219	Summary run o	n Takeoff Quan a	nd Adjusted to	Bid Quan.
Burden:	0	15.00	0	·			
Perm Matl:	4,152	15.00	623	Standard Spre	ads		
Const Matl:	2,919	15.00	438	Indirect Spr			
Sub:	111,400	10.00	11,140	Markup Spr			
Eq. Op. Exp:	422	5.00	21		d Spread: No Sp		
Co. Equip:	223	5.00	11				
Rented Eq.:	0	5.00	Û.	Totals as of La	ist Spread		
Misc1:	0	15.00	0		Cost:	Markup:	Total:
Misc2:	0	15.00	Ő	Direct:	140,575	15,452	156,027
Misc3:	0	15.00	Õ	Indirect:	0	0	0
Overrides:	57,206	10100	· 0	Addons:	4,217	0	4,217
Total:	197,780	7.81	15,452	Bond:	2,184		2,184
x 00000				SubTotal:	146,976	15,452	162,428
Selected Be	ond Table: C			Pass Throu		-	57,206
	•			Total:	204,182	15,452	219,634
Key Indicators			AN A				
Balanced Marku		/ Total La	hor		Balanced Mark	un/Total Labor	
15,451.74	ιų ·	/ 21,458.			72.01%	up/ rotat Dabor	
15,451.74		/ 21,400.	0		12.0170		
Indirect Cost	7	/ Direct (	ost	=	Indirect Cost/D	irect Cost	
0.00		/ 197,781		=	0.00%		
5.00	2 · · · ·						
				•			
		•					
-							
	· · · · ·						

## Cardinal Contractors, Inc. MB-31209-04B WTP#9 - Antenr \*\*\* Mike Brandao

## - 07/30/2013 - ---- 10:57

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

		ESTIMATE I	RECAP - BID QU	JANTITIES		
		DIRECT	INDIRECT	TOTAL	% OF TOTA	T
	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	9%
	Total Costs:	197,781.12		197,781.12	100.001	1%
•	% of Total	100.000%	0.000%	100.000%		· '
Iscalation on:	Labor	Burden	Perm Matl	Const Matl	Co Eqp	Rented Eqp
	0	0	0	0	Ō	0
	100.00 %	100.00%	100.00 %	100.00 %	100.00 %	100.00 %
	Eq Op Exp	Sub	Misc1	Misc2	Misc3 Tota	al 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%
<i>Cost Addons</i> Builders Risk	3.0000 % of Total Cost	4,217.25	2.1323%
Bond from Summary Tabl	e	2,184.38	1.1044%
MARKUP, ADDON & B	OND TOTALS ===>	21,853.37	11.0493%
COST + MARKUP	>	\$219,634.49 (On Takeoff Quantity)	(% of costs)

There \* ARE NOT \* closing accounts for this bid.

Rounding difference: Unbalancing difference: From Cut&Add Sheet-costs: From Cut&Add Sheet-markup: Pass Through Adjustments:

Net Adjustments (to the balanced bid):

\$219,634\_49

-Effect on Bid-

(on Bid Quantity)

(on Bid Quantity)

[or desired bid]

None

BALANCED BID TOTAL DESIRED BID (if specified)

,

-31209-04B WTP#9	- Antenna Tower	/WA#2 CCI Prim	e .			-	07/30/2013	10:57
Mike Brandao	- Ancina 10wci							
BID TOTAL (on bid qua				\$213,2				
BID COSTS (on bid quan				\$146,9			2 1 5 7 6	
MARKUP (on bid quar	ntities)			\$9,0	)50.11		6.157%	
EXPECTED JOB VALU	F (on takeoff quar	utities).		\$213 3	232.86			
	on takeoff quantiti				976.60			
EXPECTED MARKUP					050.11		6.157%	
	(o							
Adjust to Bid Quantities :	= Y							
Report Variation =		l report headings					· . ·	
	On Tal	keoff Quantities		· · · · · · · · · · · · · · · · · · ·	<u> </u>		. <u> </u>	
	(22)	<u>^</u>	400		•			
	422	0	422					
(incl burden) 21	,458	0	21,458					
Labor (DAY/DAYS)	0	0	0					
(incl burden)	0	0	0					
(mor ourden)	U	Υ.	J					
Labor (OtherUnits)	0	0	0					
(incl burden)								
				1.1				
Labor Burden	0	0	ه_					
Spread Indirects on	Total	Cost		Spread	Markun on		Total Cost	
Spread Indirects on: Spread Addons&Bond of	Total (			Spread	Markup on	: '	Total Cost	
Spread Indirects on: Spread Addons&Bond o				Spread	Markup on	: '	Total Cost	
Spread Addons&Bond o	on: No Sp	read		Spread		:		
Spread Addons&Bond o	on: No Sp Burden	read PermMati	CM		CoEqp		RentedEqp	
Spread Addons&Bond o arkup on: Labor 15.00%	on: No Sp Burden 15.00%	read PermMatl 15.00%	15.00	)%	CoEqp 5.00%			
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Spread Addons&Bond o arkup on: Labor 15.00%	on: No Sp Burden 15.00%	read PermMatl 15.00%	15.00	)% 2	CoEqp 5.00%		RentedEqp	
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Spread Addons&Bond of arkup on: Labor 15.00% EOE 5.00% Selected Bond Table: O	n: No Sp Burden 15.00% Sub 10.00% Bond Calculati C Description	PermMatl 15.00% Misc1 15.00% ons : Bond Calc Des	15.00 Misc 15.00 sign-Bui	)% 2 )%	CoEqp 5.00% Misc3	- · ·	RentedEqp	
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Spread Addons&Bond of [arkup on: Labor 15.00% EOE 5.00% Selected Bond Table: C Contract Amo First: \$ 100, Next: \$ 400, Next: \$ 2,000,	n: No Sp Burden 15.00% Sub 10.00% Bond Calculati Description unt Rate pe 000 000 000	read PermMatl 15.00% Misc1 15.00% ons : Bond Calc Des r 1000 10.00 9.90 9.50	15.00 Misc 15.00 sign-Bui Bond \$ \$ \$	)% 2 )% ild 1 Amount 1,000.00 1,184.38 0.00	CoEqp 5.00% Misc3		RentedEqp	
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Balanced Markup

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Total Labor

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Balanced Markup/Total Labor

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	Cardinal Contractors, I MB-31209-04B *** Mike Brandao		nna Tower / WA#	2 CCI Prime			07/30/2013	10:57	
	15,451.74	. 1	21,458.36		<b>=</b> .	72.01%	• •		
	Indirect Cost 0.00	) /	Direct Cost 197,781.12			Indirect Cost/I 0.00%	Direct Cost		
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	Estimator-In-Charge: Notes:	N 1-800-444-319 APPEND	1B 96	Desired Bid (	if specified)	=	0.00		
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ATTACHMENT K (CONTINUED) QUOTATIONS

CGA PROPOSAL

Crefilent of Alechication No. 512         May 17, 2013           With The Communication Tower         CARNOLETINO.         Market Science		1777 561 681,614 J - Fair 567 peld 6364			ATTAC			K AUTHORIZ BID ITEMS	ū	ATE		
WPT PE Conserved earliers Tower         1 - 44.6.2           Avanbee         PE (WUD Project No.           Wold 2         32.022           Varia Activity         Employee Classification         Heart         Natury Rate           Varia Activity         Employee Classification         Heart         Natury Rate         Total           Activity         Employee Classification         Heart         Natury Rate         Total           Activity         Employee Classification         K.B.         5         355.00         5         -           Activity         Engineering         0.5         350.00         5         -         -           CADD Technickin         (Engineering)         0.5         5.00.00         5         -         -           Ullity Locate (or hori)         Engineering Task         Labor Subtotal         5         50.00         5         -         -           Stot (Bercina)         SE         5         5.00.00         5         3.00.00         -         -         -           Ullity Locate (or hori)         SE         5         5.00.00         3.150.00         5         3.00.00         -         -         -         -         -         -         -         -		ertificate of Authorization No	.514			·····		l	May	17, 2013		
Atumber         Jacoba         Jacoba         Jacoba           Wol2         10:002         10:002           Varia Activity         Engineering Excited         Total           Atumber         Heart         Heart         Total           Atumber         Data Collection and Survey         Exgineering Excited         Total           Chin6, Engineering FM         0         5         130:00         5           Project Seginger (M)         0         5         130:00         5           CADD Technickin         (Engineering)         0         5         130:00         5           Sancey Crew         4         5         130:00         5         5:00         5           Sancey Crew         4         5         132:00         5         5:07:00           Sancey Crew         35:50         5         5:07:00         5         5:07:00           Bot (Sancina)         Sate         5         5:07:00         5		Communication Tower		·			CGA		7:1°	<u></u>		
Wold         12-022           Vark Activity         Employee Classification         Hourt         Hourt         Total           Vark Activity         Employee Classification         0         5         355.00         5           Vark Activity         Exploreing FVI         0         5         355.00         5         1.35.00           Project Superver (RII)         0         5         355.00         5         1.35.00           Project Superver (RII)         0         5         355.00         5         1.35.00           CADD Technicin (Exploreering 1)         0         5         55.00         5         35.00           CADD Technicin (Exploreering 1)         0         5         55.00         5         35.00           CADD Technicin (Exploreering 1)         0         5         5         35.00         5         35.00           CADD Technicin (Exploreering 1)         0         5         5         35.00         5         35.00           UBIN Costes (ser hear)         0.5         5         40.00         5         40.00           UBIN Costes (ser hear)         555         5         5         5         5         5           UBIN Activity         Emplorereing Tas		S CONSTRUCTION TO NO.		·····					416.9	**		
Vark Activity         Employee Classification         Heart         Heart         Heart         Total           ask #L         Data Collection and Survey         Engineering Services         Coling         0         3         300.0         5         -           ask #L         Data Collection and Survey         Engineering Services         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.022</td> <td></td>		· · · · · · · · · · · · · · · · · · ·							.022			
Lapineering Sordics           Christ, Singheering (VI)         0         5         1252.00         5         -           Anachia, Engineering (VI)         0         5         1252.00         5         -           Protect, Engineering (VI)         0         5         1252.00         5         -           Project, Engineering (VI)         0         5         1252.00         5         -           CADD Technickin         (Engineering)         0         5         1252.00         5         -           Apact Engineering Tack         Labor Subtoral         0         5         1252.00         5         -           CADD Technickin         (Engineering Tack <labor subtoral<="" td="">         0         5         1252.00         5         1.042.00           Utility (castack for hort)         0         5         442.00         5         1.042.00           Statistic (Second)         SE         5         5.000.05         3.125.00         5         1.042.00           Engineering Tack Labor Subtoral         S         5.000.05         3.020.05         5.020.05         5.020.05           Engineering Tack Subconsultant Subtoral         S         6.886.50         \$         5.020.05         5.020.05      <tr< td=""><td></td><td>Employee Classification</td><td>·</td><td></td><td>Hours</td><td>Hourty Rate</td><td></td><td></td><td></td><td></td></tr<></labor>		Employee Classification	·		Hours	Hourty Rate						
Chin, Giordane & Associates           Associate, Engineering IV)         0         5         190,00         5         -           Project Standinger (VI)         0         5         195,00         5         -           Project Standinger (VI)         0         5         195,00         5         -           Standing (Engineering)         1         5         105,00         5         -           CADD Technikian         (Engineering)         0         5         135,00         5         -           CADD Technikian         (Engineering)         0         5         45,00         5         1,610,00           Subconsubtatis (Dor Markup)         Engineering Task Labor Subtotal         6         5         2,053,00         1,610,00           Subconsubtatis (Generich)         SEE         5         3,003,20         5         2,065,40           Monta Subjer (VI)         SEE         5         3,003,20         5         2,065,40           RAG (Stronuch)         SEE         5         3,003,20         5         2,065,40           Monta Subjer (VI)         SEE         5         5         -         5         -           Engineering Task Suboconsultant Subtotal         \$												
Associals, Engineering (V)         0         5         190,00         5         195,00         5           Dirtrots, Engineering (V)         0         8         135,00         5         1,15,00           Project hataings (V)         0         8         135,00         5         1,05,00           Dirtrots, Engineering (V)         1         5         135,00         5         7,000           CADD Technichin         (Engineering (V)         0         5         55,00         5         7,000           Regittered Survey (Few         8         5         135,00         5         1,610,000         2,55,00         5         5,070,000           Solid Cap (ser-hole)         0         5         135,00         5         1,610,000         5         1,610,000           Solid Consultants (JOS Markup)         Kee         Markup (DS2)         Kean         5         5,070,000           Solid Consultants (JOS Markup)         Solid	Engin											
Director, Engineering (M)         e         s         jispa to the second of t		•										
Project Namber (M)         8         15500         5         1.15000           Project Sigher (M)         0         5         13500         5         105.00           CADD Technichan         (Emplereing)         0         5         15500         5         100.00           Neglet Sigher (M)         0         5         15500         5         100.00         15         100.00           Regittered Sorveyer         2.5         5         100.00         2         25.00         3         25.00           Suncey (Tew         8         5         135.00         5         440.00         3         440.00         3         3         5         5,070.00         3         3         5,070.00         3         3         5,070.00         3         3         3         5,070.00         3         3         3         5,070.00         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3			4					•				
Project Sogioer (III)         0         S         12500         S           Signer(III)         1         5         105:00         5         105:00           CADD Technician         (Expresentin)         0         5         5500         5								-				
Segineer(I)         1         5         105.00         5         105.00           CADD Technician         (Snevsylaj)         0         5         55.00         5         105.00           Negineer(I)         2.5         5         105.00         5         235.00         5         235.00           Servey (rew         2.5         5         105.00         5         1.46.00         1         5         5.070.00           Subconsultants (DX Markup)         Fee         Markup (CX5)         5.070.00         5         5.070.00           Subconsultants (DX Markup)         Sté         5         1.278.00         5         5.033.5         5.032.5         5         5.075.00           Subconsultants (DX Markup)         Sté         5         1.278.00         5         5.032.5         5         5.075.00           Subconsultants (DX Markup)         Sté         5         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,150.00</td> <td></td> <td></td>								1,150.00				
CNDD Technicism         (Engineering)         0         S         S500         S         760,000           According Sorveyer         2.5         130,00         \$         325,00         \$         325,00           Survey Crew         8         \$         135,00         \$         325,00         \$         325,00           Survey Crew         8         \$         135,00         \$         1,464,000         \$           Engineering Task Labor Subtotal         6         \$         105,00         \$         1,464,000           Subconsultants (DS Markup)         Pee         Markup (205)         30,00         \$         1,564,00           Subconsultants (DS Markup)         StE         \$         5,070,00         \$         2,065,80           Subconsultants (DS Markup)         StE         \$         \$         \$         5,033,5           Gold Edinical         StE         \$         \$         \$         \$         \$           Buildential         StE         \$         \$         \$         \$         \$           Buildential         StE         \$         \$         \$         \$         \$           Buildential         StE         \$         \$ <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></td<>								-				
CADD Technician         (survey(st))         8 5         55.00         5         769,000           Registered Surveyor         2.5 \$         130.500         \$         235.50         \$         235.50         \$         235.50         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         245.00         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50         \$         35.50			( <b>T</b> ) )									
Registered Surveyor         2.5         \$         130,00         \$         335,00           Survey Terew         8         \$         133,50         \$         1,0100           Soft Dig (par help)         0         \$         450,00         \$         1,0100           Utility Locates (per holer)         Engineering Task Labor Subtotal         6         \$         2,053,00         \$         1,640,00           Subconsultants (DX Markup)         Fee         Markep (DX)         \$         1,278,00         \$         2,065,30           Subconsultants (DX Markup)         SE         \$         5,003,50         \$         5,003,55         \$         2,065,30           RADISE (Searech)         SE         \$         5,003,50         \$         5,003,55         \$         7,575,15           Engineering Task Subconsultant Subtotal         \$         6,886,50         \$         688,655         \$         7,575,15           Work Activity         Employee Classification         Hours         Hoursy Rate         Total           Sate #2         \$         \$         1         \$         10,600         \$         150,00           Project Mange & Associates         Chine, Giordinado & Associates         \$         1         \$	-											
Survey Cleve         8         S         135.00         S         1,030.00           Soft Dig (per hole)         0         5         48.00         5         1,040.00           Utility Locases (per hour)         e         5         755.00         5         5,070.00           Subconsultants (DOS Markup)         Fee         Markep (DOS)         5         0,085.80         1,090.00           MODE (Escrich)         SEE         5         1,278.00         5         1,278.00         5         1,098.30           MODE (Escrich)         SEE         5         0.5         5         5         -         -           Colone: (Architectural)         SEE         5         -         5         -         -           Engineering Task Subconsultant Subtotal         \$         6,886.50         \$         688.65         \$         7,575.15           Work Activity         Employee Classification         Hours         Hours         Hourly Hale         Total           Task #2         SOX Design Solomittal         Engineering (V)         1         S         150.00         5         165.00           Task #2         SOX Design Solomittal         Engineering (V)         1         S         150.00			(The regard)									
Soft Dig (per hole)         0         5         480,00         5            Utility Locates (per hour)         6         5         703,00         5         1,440,200           Bib (per hole)         85         5         1,878,00         5         1,878,00         5         2,068,30           Subconsubants (DIX Markup)         Fee         Markup (DIX)         5         2,068,30         5         3,593,35         46,874,000         5         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         1,2,642           Work ActMity         Employee Classification         Hours         Hours         Hours         10,500         5         150,600         1,512,602         5         1,2,642         1,2,642         1,2,642												
Vullity Locates (per hour)         6         6         205.00         5         1_540.20           Engineering Task Labor Subtotial         355.50         S         5         5,070.00           Subconsultants (10% Markup)         Fee         Markup (2052)         Fee         Markup (2052)           EDA (Extended)         SEE         S         1,878.00         S         2,088.80           MADDSE (Scentch)         SEE         S         S         5         -           Coloner (Architectra)         SEE         S         -         S         -           Engineering Task Subconsultant Subtatal         \$         6,886.50         \$         688.65         7,575.15           Work Activity         Employee Classification         Hours         Hours         Hourly Rate         Total           Task #2         SOX Design Solumittal         Engineering (M)         1         S         190.00         \$         150.00           Project Manager (W)         1         S         190.00         \$         166.00           Project Inflammering (M)         1         S         126.00         \$         166.00           Project Manager (W)         1         S         135.00         \$         1.66.00			,					1,030200				
Engineering Tack Labor Subtotal         35:50         \$         5,070.00           Subconsubants (DX Markup)         Fee         Markup (LOS)         EDA (Electrical)         SEE         \$         1,878.00         \$         2,068.80           NADSE (Searcek)         SSE         \$         5         5         5         5         -         5         -           Colone' (Architectural)         SSE         \$         -         \$         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         1,2,641         -         5         12,641         -         5         12,641         -         5         1,50.05         -         1,5         13,05.05         5			I					3 640.00				
Subconsultants (10% Markup)         real         Markup (10%)         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         5         1.878.00         7.575.1.5           Work Activity         Employee Classification         Houriy Kate         Total         \$         1.2,641           Work Activity         Employee Classification         Houriy Kate         Total         \$         1.2,641           Work Activity         Employee Classification         Houriy Kate         Total         \$         1.2,641           Work Activity         Employee Classification         Houriy Kate         Total         \$         1.2,641           Work Activity         Employee Classification         Houriy Kate				Carlebarteral		-			•			
EDA [Electricial]       SBE       S       1,278.00       S       137.20       S       2,065.80         RADDSE [Genetech]       SBE       S       5,003.20       S       5003.25       S       5,003.35       S,509.35         GG (Krunden)       SBE       S       -       S       -       S       -         Engineering Task Subconsultant Subtatal       \$       6,886.50       \$       688.65       \$       7,575.1.5         Task #1 Total       \$       12,691         Work ActMity       Employee Classification       Hours       Hourly Rate       Total         Task #2       90% Design Submittal       Engineering (M)       1       \$       190.00       \$       190.00         Task #2       90% Design Submittal       Engineering (M)       1       \$       190.00       \$       190.00         Director, Engineering (M)       1       \$       150.00       \$       165.00       \$       1.65.00         Project Manager (M)       13       \$       145.00       \$       1.85.00       \$       5       -         Project Signeering (M)       13       \$       15.00       \$       -       -       -       -       - <td></td> <td>E1.</td> <td>guidering rask capps</td> <td>additional</td> <td>50.00</td> <td></td> <td>Ş</td> <td>5,070.04</td> <td></td> <td></td>		E1.	guidering rask capps	additional	50.00		Ş	5,070.04				
EDA [Electricial]       SBE       5       1,877.00       5       127.20       5       2,065.80         NADISE (Genere/H)       SDE       5       5       5       5       -       5         AGA (Structural)       SDE       5       5       -       5       -       5       -         Colones' (Architectural)       SDE       5       -       5       -       5       -         Engineering Task Subconsultant Subtotal       \$       6,886.50       \$       688.65       \$       7,575.1.5         Work Activity       Employee Classification       Hours       Hours       Hourly Rate       Total         Task #1       Total       \$       12,691         Work Activity       Employee Classification       Hours       Hourly Rate       Total         Task #2       SOX Design Submittal       Engineering Civit State       Total       \$         Accotate, Engineering (V)       1       5       150.00       \$       1,855.00         Project Suphering (V)       13       \$       1,855.00       \$       5       5         Project Suphering (V)       13       \$       1,855.00       \$       5       5       5		Subcoccultants (10% Marius)	•	Ean		Anter (102)						
RADDEE (GenericA)       SEE       S       SUBJECT       S       SUBJECT       S       SUBJECT       S       S       SUBJECT       S       S       SUBJECT       S       S       SUBJECT       S       S       S       S       SUBJECT       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S <ths< td=""><td></td><td></td><td>586</td><td></td><td></td><td></td><td>7 80 6</td><td>1 055 80</td><td></td><td></td></ths<>			586				7 80 6	1 055 80				
AGA (Structural)       StE       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S <ths< th="">       S       <ths< th=""></ths<></ths<>												
Colone (Architectural)         SE         S         S         S           Engineering Task Subconsultant Subtotal         \$         6,886.50         \$         588.65         \$         7,575.15           Task Subconsultant Subtotal         \$         6,886.50         \$         688.65         \$         7,575.15           Mork Activity         Employee Classification         Hours         Hours         Total         \$         12,641           Mork Activity         Employee Classification         Hours         Hours         Total         \$         12,641           Cabin, Giordano & Associates         Hours         Hours         Hours         Total         \$         12,641           Director, Engineering (VI)         1         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$         190.00         \$				5								
Engineering Task Subconsultant Subtotal         6,886.50         688.65         7,575.15           Task #1 Total         \$ 12,641           Work ActMity         Employee Classification         Hours         Hourly Rate         Total           Task #2         90% Design Submittal         Total         S 12,641         S 12,641           Cask #2         90% Design Submittal         Total         Total         S 12,641           Cask #2         90% Design Submittal         Total         Total         S 120,00         S 150,00           Director, Engineering (M)         1 S 190,00         S 150,00         S 150,00         S 150,00           Project Nameer (W)         1 3 S 145,00         S 1,885,00         S 1,885,00         S 2,800,00           Project Nameer (W)         2 S 105,00         S -         CADD Technichan         Engineer(ng)         S 5 105,00         S -           CADD Technichan         Engineer(ng)         8 S 35,00         S -         S -         S 3,200,00         S -           Sourcey Crew         0 S 135,00         S -         S 3,250,00         S -         S 3,250,00         S -           Subtonsultants (IDSC Markup)         ree         Markup (IDCK)         S 3,250,00         S 3,250,00         S 3,250,00												
Work Activity         Employee Classification         Hours         Hours         Houriy Rate         Total           Task #2         90% Design Submittal Engineering Services         Engineering (W)         1         5         190.00         5         150.00           Director, Engineering (W)         1         5         190.00         5         150.00           Director, Engineering (W)         1         5         150.00         5         1,50.00           Project Manager (W)         1         5         150.00         5         1,50.00           Project Manager (W)         1         5         150.00         5         1,50.00           Engineer (II)         2         5         1,50.00         5         1,50.00           CADD Techniclan         (Engineer(reg)         8         5         50.00         5         -           CADD Techniclan         (Surveying)         0         5         35.00         5         -           Survey Crew         0         5         135.00         5         -         -           Subtonsultants (DOS Markup)         reger         5         3,250.00         5         3,143.50           CMADIS (Geotech)         398         5		Forinseri	a Tack Subconsultant	Subtatal C					-			
Work Activity         Employee Classification         Hours         Hourly Nate         Total           Task #2         SQX Design Submittal Engineering Services			ing rask subcollution	, Jancowi y	0,000.00	y 00.	9.09 y	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SOX Design Submittal Engineering Services       1       S       190,00       5       150,00         Calvin, Giorshan & Associates       1       S       190,00       5       150,00         Director, Engineering (Vi)       1       S       165,00       5       165,00         Project Manager (V)       13       S       145,00       S       1,885,00         Project Manager (Vi)       2       S       125,00       S       250,00         Engineer (Ui)       2       S       125,00       S       250,00         Engineer (Ui)       0       S       105,00       S       -         CADD Technician       (Engineering)       8       S       95,00       S       -         CADD Technician       (Engineering)       0       S       135,00       S       -         Survey Crew       0       S       135,00       S       -       -       -         Soft Dig Envision       0       S       135,00       S       -       -       -         Legen Holi       0       S       135,00       S       -       -       -       -       -       -       -       -       -       -												
SOX Design Submittal Engineering Services       1       S       190,00       5       150,00         Calvin, Giorshan & Associates       1       S       190,00       5       150,00         Director, Engineering (Vi)       1       S       165,00       5       165,00         Project Manager (V)       13       S       145,00       S       1,885,00         Project Manager (Vi)       2       S       125,00       S       250,00         Engineer (Ui)       2       S       125,00       S       250,00         Engineer (Ui)       0       S       105,00       S       -         CADD Technician       (Engineering)       8       S       95,00       S       -         CADD Technician       (Engineering)       0       S       135,00       S       -         Survey Crew       0       S       135,00       S       -       -       -         Soft Dig Envision       0       S       135,00       S       -       -       -         Legen Holi       0       S       135,00       S       -       -       -       -       -       -       -       -       -       -						Task #1	fotal		\$	12,645.1		
SOX Darign Submittal Engineering Services         Cabins, Giordano &, Associates         Associate, Engineering (M)       1       S       190,00       S       150,00         Director, Engineering (V)       1       S       165,00       S       165,00         Project Manager (W)       13       S       145,00       S       1,885,00         Project Manager (W)       2       S       125,00       S       250,00         Project Manager (W)       2       S       125,00       S       250,00         Engineer (W)       2       S       125,00       S       250,00         CADD Technicish       (Engineering)       8       S       95,00       S       -         CADD Technicish       (Engineering)       0       S       135,00       S       -         Support Stend Surveyor       0       S       135,00       S       -       -         Support Crew       0       S       135,00       S       -       -       -         Support Stand K (Jabor Subtotal       25.00       S       255,00       S       -       -         Support Stand K (Jabor Subtotal       25.00       S       5,143,60       -			e e			Task #1 1	fotal		\$	12,645.1		
Engineering Services           Calvin, Giordano 4. Associates           Associate, Engineering (M)         1         S         190,00         5         190,00         5         190,00         5         190,00         5         190,00         5         190,00         5         190,00         5         190,00         5         1,885,00           Project Manager (W)         13         5         1,885,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         760,00         5         7 <th <="" colspan="2" t<="" td=""><td></td><td></td><td>* *</td><td></td><td></td><td>Task #1 ]</td><td>fotal</td><td>•</td><td>\$</td><td>12,645.1</td></th>	<td></td> <td></td> <td>* *</td> <td></td> <td></td> <td>Task #1 ]</td> <td>fotal</td> <td>•</td> <td>\$</td> <td>12,645.1</td>				* *			Task #1 ]	fotal	•	\$	12,645.1
Cabrin, Giordano & Associates         Acrociate, Engineering (V)       1       5       190,00       5       150,00         Director, Engineering (V)       1       5       165,00       5       165,00         Project Manager (IV)       13       5       145,00       5       1,885,00         Project Engineer (III)       2       5       125,00       5       250,00         Engineer (III)       2       5       105,00       5       -         CADD Technician       (Engineering)       8       5       95,00       5       -         CADD Technician       (Surveying)       0       5       35,00       5       -         Surveyor       0       5       135,00       5       -         Subconsultants (Dos Markup)       0       5       205,00       5       -         EDA (Electrical)       58E       5       467,60       5       5,143,60         RADDis (Gostech)	Nork Activity	Employee Classificator	1					ourly Nate		12,645.1		
Associate, Engineering (M)       1       S       190,00       5       150,00         Director, Engineering (V)       1       S       165,00       5       165,00         Project Alanager (W)       2       S       125,00       5       165,00         Project Engineer (U)       2       S       125,00       5       250,00         Engineer (U)       2       S       135,00       5       -         CADD Technician       (Engineering)       0       S       550,00       5       -         CADD Technician       (Engineering)       0       S       550,00       5       -         Survey Crew       0       S       135,00       S       -       -         Soft Dig (per kele)       0       S       135,00       S       -         Liftly Locates (per hele)       0       S       205,00       S       -         Subconsultants (IDSC Markup)       Fee       Markup (105K)       -       S       3,250,00         Subconsultants (IDSC Markup)       S8E       S       5,30,00       S       5,1,43,60         RubiSc (Geotech)       58E       S       5,30,00       S       5,1,43,60         <	Task #2 907	Design Submittal		ĸ				ourly Nate		12,645.		
Director, Engineering (V)       1 \$       165.00 \$       1.65.00         Project Manager (W)       13 \$       145.00 \$       1.835.00         Project Manager (W)       2 \$       125.00 \$       250.00         Engineer (B)       0 \$       195.00 \$       -         CAOD Technician (Engineering)       8 \$       \$ 95.00 \$       -         CAOD Technician (Engineering)       8 \$       \$ 95.00 \$       -         Registered Surveyor       0 \$       \$ 336.00 \$       -         Survey Crew       0 \$       \$ 135.00 \$       -         Solvey Crew       0 \$       \$ 205.00 \$       -         Engineering Task Labor Subtotal       25.00 \$       \$ -       -         Subconsultants (JOS Markup)       Fee       Markup (10%)       \$ 5,143.60         EDA (Electrical)       \$86 \$       \$ 5,350.00 \$       \$ 5,143.60         AGA (Structural)       \$88 \$       \$ 5,80.00 \$       \$ 6,435.00	Task #2 907	Design Submittal	,	×				ourly Rate		12,645.		
Project Manager (IV)       13       S       145,00       S       1,855.00         Project Engineer (II)       2       S       125,00       S       250,00         Engineer (II)       0       S       105,00       S       250,00         CADD Technician (Engineering)       8       S       95,00       S       -         CADD Technician (Surveyng)       0       S       35,00       S       -         Surveyor       0       S       136,00       S       -         Surveyor       0       S       480,00       S       -         Surveyor       0       S       480,00       S       -         Surveyor       0       S       480,00       S       -         Engineering Task Labor Subtotal       25.00       S       3,250,00       -         Subconsultants (105x Markup)       Fee       Markup (105x)       S       5,143,60         RAD [Structural]       S8E </td <td>Fask #2 907</td> <td>Design Submittal Incering Services</td> <td></td> <td>×</td> <td></td> <td></td> <td></td> <td>ourly Kaiz</td> <td></td> <td>12,645.</td>	Fask #2 907	Design Submittal Incering Services		×				ourly Kaiz		12,645.		
Project Engineer (iii)       2       5       125.00       5       250.00         Engineer (ii)       0       5       105.00       5       760.00         CADD Technicbin       [Engineering]       0       5       95.00       5       760.00         CADD Technicbin       [Surveying)       0       5       95.00       5       -         CADD Technicbin       [Surveying)       0       5       135.00       5       -         Survey Crew       0       5       135.00       5       -         Soft Dig (per hole)       0       5       480.07       5       -         Utility Locates (per hole)       0       5       205.00       5       -         Engineering Task Labor Subtotal       25.00       5       5       -         Subconsultants (JOS Markup)       Fee       Markup (10%)       5       5,143.60         EDA (Elecutical)       S8E       5       4676.0       5,143.60       5,143.60         AGA (Surverni)       S8E       5,250.00       5       5,150.00       5       6,435.00	Fask #2 907	: Design Submittai Ineering Services Calvin, Giordano & Associate Associate, Engineering	\$ (V1)	с		Hours S )	H 90.00	5 150.00	Total	12,645.		
Engineer (H)       0       S       105.00       S       -         CAOD Technicism       (Engineer/rg]       8       S       95.00       S       750.00         CAOD Technicism       (Survey'ng)       0       S       55.00       S       -         Registered Surveyor       0       S       139,00       S       -         Survey Crew       0       S       139,00       S       -         Soft Dig (per koln)       0       S       480,00       S       -         Littliky Locates (per koln)       0       S       205,00       S       -         Subconsultants (IDS Markup)       Fee       Markup (10%)       S       5,1,43,60         Subconsultants (IDS Markup)       S8E       S       4,87,60       S       5,1,43,60         RAD (Electrical)       S8E       S       5,85,00       S       6,435,00         AGA (Slovetural)       S8E       S       5,85,00       S       6,435,00	Fask #2 907	: Design Submittal Incering Services Calvin, Giordano & Associate Associate, Engineering Director, Engineering (	\$ (V1)	Х.	1	Hours S )	H 90.00	5 150.00	lefoT	12,645.		
CADD TechnicLin       (Engineering)       8       5       95.00       5       760.00         CADD TechnicLin       (Surveying)       0       5       95.00       5       -         Registered Surveyor       0       5       130.00       5       -         Survey Crew       0       5       130.00       5       -         Sorrey Crew       0       5       480.00       5       -         Soft Dig (per kele)       0       5       480.00       5       -         Utility Locates (per heur)       0       5       205.00       5       -         Engineering Task       Labor Subtotal       25.00       5       -       -         Subconsultants (LOSS Markup)       Fee       Markup (LOS)       5       5,143.60         RAUSE (Geotech)       58E       5       477.60       5       5,143.60         AGA (Stordural)       58E       5       5,30.00       5       51.00       6,435.00	Fask #2 907	: Design Submittal Incerning Services Calvin, Giordano & Associate Aesociate, Engineering Director, Engineering (V Project Manager (IV)	\$ (V1)		1 1 13	Hours S ] S ]	90.00 (53.00) (45.00)	\$ 150.00 \$ 165.00 \$ 1,885.00	Total	12,645.		
CADD Techniclan         (Surveying)         0         5         55,00         5         -           Registered Surveyor         0         5         130,00         5         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Fask #2 907	: Design Submittal Incering Services Calvin, Giordano & Associate Acsociate, Engineering Director, Engineering ( Project Manager (W) Project Engineer (W)	\$ (V1)		1 1 13 2	Hours 5 1 5 3 5 3	90.00 163.00 145.00 125.00	5 150.00 \$ 165.00 \$ 1,885.00 \$ 250.00	Total	12,645.		
Registered Survey Orew         D         S         130,00         S         -           Survey Orew         0         S         135,00         S         -           Soft Dig (per hole)         0         S         480,00         S         -           Utility Locates (per hole)         0         S         205,00         S         3,250,00           Subconsultants (Dax Markup)         Fee         Markup (10%)         S         5,143,60           EDA (Elecutical)         SBE         S         4,676,00         S         5,143,60           AGA (Structural)         SBE         S         5,250,00         S         5,143,60	Fask #2 907	: Design Submittai Ineering Services Calvin, Giordano I. Associate Associate, Engineering Director, Engineering ( Project Manager (IV) Project Engineer (II) Engineer (II)	\$ (V1) Y]		1 1 13 2 0	Hours 5 1 5 1 5 1 5 1 5 1	90.00 (63.00 (45.00 (25.00 (85.00	5 150.00 \$ 165.00 \$ 1,885.00 \$ 250.00 \$ -	Total 0 0 0	12,645.		
Survey Crew         0         5         135.00         5         -           Soft Dig (per kolo)         0         5         480.00         5         -           Utility Locates (per hold)         0         5         205.00         5         3,250.00           Subconsultants (Locates Aper hold)         Fee         Markup (10%)         5         5,143.60           Subconsultants (Locates)         SBE         5         4,87.60         5         5,143.60           AGA (Storetural)         SBE         5         5,350.00         5         5,150.00         6	Fask #2 907	Design Submittal Incering Services Cabrin, Giordano & Associate Actociate, Engineering Director, Engineering ( Project Manager (IV) Project Engineer (II) Engineer (II) CADD Technican	\$ (V1) /j {Engineering}		1 13 13 2 0 0 8	S 2 \$ 2 \$ 3 \$ 3 \$ 5 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	90.00 155.00 125.00 105.00 95.00	5 150.00 \$ 165.00 \$ 1,885.00 \$ 250.00 \$ - \$ 760.00	Total 0 0 0	12,645.		
Soft Dig [per kola]         0         5         480.00         5         -           UtilRty Locates (per hour)         0         \$         205.00         5         -           Engineering Task Labor Subtotal         25.00         \$         3,250.00           Subconsultants (LOS: Markup)         Fee         Markup (LOS:)         5         5,143.60           EDA [Electrical]         S8E         \$         4,676.00         \$         5,143.60           RADSE [Geotech)         S8E         \$         -         \$         -         \$           AGA [Storetural]         S9E         \$         5,850.00         \$         6,432.00	Fask #2 907	i Design Submittal Incerning Services Colvin, Giordano & Associate Associate, Engineering Director, Engineering () Project Manager (IV) Project Engineer (IV) CADD Technician CADD Technician	\$ (V1) /j {Engineering}		1 13 2 0 8	Hours 5 2 5 1 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	90.00 185.00 145.00 105.00 95.00 95.00	5 150.00 \$ 165.00 \$ 1,885.00 \$ 250.00 \$ - \$ 760.00 \$ -	Total 0 0 0	12,645.		
Utility Locates (per hour)         0         \$         205,60         5         -           Engineering Task Labor Subtotal         25.00         \$         3,250.00         \$         3,250.00           Subconsultants (LDX Markup)         Fee         Markup (10%)         \$         \$         3,250.00           EDA (Electrical)         S8E         \$         4,676.00         \$         5,143.60           RADISE (Geotech)         S9E         \$         5,350.00         \$         5,143.60           AGA (Structural)         S9E         \$         5,350.00         \$         6,435.00 <td>Task #2 907</td> <td>i Design Submittai Incering Services Calvin, Giordano &amp; Associate Associate, Engineering Director, Engineering ( Project Manager (W) Engineer (W) Engineer (W) CADD Technician CADD Technician Registered Surveyor</td> <td>\$ (V1) /j {Engineering}</td> <td></td> <td>1 13 2 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Hours 5 1 5 1 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2</td> <td>90.00 (55.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00)</td> <td>5 150.00 \$ 165.00 \$ 1,885.00 \$ 250.00 \$ 760.00 \$ - \$ - \$ -</td> <td>Total 0 0 0</td> <td>12,645.</td>	Task #2 907	i Design Submittai Incering Services Calvin, Giordano & Associate Associate, Engineering Director, Engineering ( Project Manager (W) Engineer (W) Engineer (W) CADD Technician CADD Technician Registered Surveyor	\$ (V1) /j {Engineering}		1 13 2 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours 5 1 5 1 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	90.00 (55.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00) (25.00)	5 150.00 \$ 165.00 \$ 1,885.00 \$ 250.00 \$ 760.00 \$ - \$ - \$ -	Total 0 0 0	12,645.		
Engineering Task Labor Subtotal         25.00         \$ 3,250.00           Subconsultants (LOX Markup)         Fee         Markup (10%)           EDA (Electrical)         S8E         \$ 4,676.00         \$ 4,776.0         \$ 5,143.60           RADISE (Geotech)         S8E         \$ - \$         -         \$ -           AGA (Structural)         S8E         \$ 5,280.00         \$ 5,143.60         \$ 6,435.00	Task #2 907	Design Submittai Incering Services Calvin, Giordano & Associate Associate, Engineering Director, Engineering (I Project Manager (IV) Project Engineer (II) CADD Technician Registered Surveyor Survey Crew	\$ (V1) /j {Engineering}	• • • • •	1 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Kours 5 1 5 1 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	H 190.00 165.00 125.00 95.00 95.00 130.00 135.00	5 150.00 5 1,85.00 5 1,85.00 5 250.00 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Total 0 0 0	12,645.		
EDA (Electrical)         S8E         S         4,676.00         S         5,143.60           RADiSE (Geotech)         S8E         S         -         S         -         S           AGA (Storetural)         S8E         S         5,350.00         S         545.00         S         6,435.00	Task #2 907	i Design Submittal Incerning Services Colvin, Giordano & Associate Associate, Engineering Director, Engineering Project Manager (IV) Project Engineer (II) CADD Technician Registered Surveyor Survey Crew Soft Dig (per Holoj	\$ (Vi) Y] {Engineering} (Surveying)		1 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Nours 5 1 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3	H 190.00 165.00 125.00 95.00 95.00 130.00 135.00 135.00 135.00	5 150.00 5 1.65.00 5 1.855.00 5 -5 5 -5 5 -5 5 -5 5 -5	Total 0 0 0	12,645.		
EDA (Electrical)         S8E         S         4,676.00         S         5,143.60           RADiSE (Geotech)         S8E         S         -         S         -         S           AGA (Storetural)         S8E         S         5,350.00         S         545.00         S         6,435.00	Task #2 907	i Design Submittal Incering Sérvices Colvin, Giordano & Associate Associate, Engineering Director, Engineering Project Engineer (II) CADD Technician Registered Surveyor Survey Crew Soft Die (per kolo) Utility Locates (per hol	\$ (M) {Engineering} (Surveying) ur)	ər Şubtotəl	1 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Hours S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2	H 190.00 165.00 125.00 95.00 95.00 130.00 135.00 135.00 135.00	5         150.00           \$         1.65.00           \$         1.855.00           \$         2.50.00           \$         2.50.00           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -	Total	12,645.		
RADise (Geotech)         SBE         S         -         S           AGA (Structural)         SBE         \$         5,850,00         \$         6,435,00	Task #2 907	i Design Submittai lineening Services Calvin, Giordano I. Associate Associate, Engineering Director, Engineering ( Project Alanayer (IV) Project Engineer (II) Engineer (II) CADD Techniclan Registered Surveyor Survey Grew Soft Dig (per kolo) Utility Locates (per hol	s (V1) {Engineering} (Surveying) ur) Engineering Task Labo		1 13 2 2 2 2 5.00	Hours 5 1 5 1 5 5 1 5 5 5 1 5 5 5 5 5 5 5 5 5	H (50,00) (55,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,00) (15,	5         150.00           \$         1.65.00           \$         1.855.00           \$         2.50.00           \$         2.50.00           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -	Total	12,645.		
AGA (Structural) SBE S 5,850,00 S \$65,00 \$ 6,435,00	Task #2 907	i Design Submittal Incering Services Colvin, Giordano & Associate Associate, Engineering Director, Engineering Project Engineer (II) Engineer (II) CADD Technician Registered Surveyor Survey Crew Soft Dig (per koloj Utility Locates (per hol Subconsultants (1005 Marku	s (M) {Engineering} (Surveying) ur) Engineering Task Labo p)	fe	1 13 2 2 2 2 5.00	Hours 5 1 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	H 90.00 65.00 125.00 155.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.0	5         150.00           5         1.65.00           5         1.855.00           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -           5         -	Total 0 0 0	12,645.		
	Task #2 907	i Design Submittal Incering Sérvices Calvin, Giordano & Associate Associate, Engineering Director, Engineering Project Engineer (II) CADD Technician CADD Technician Registered Surveyor Survey Crew Soft Dig (per kelo) Unility Locates (per hol Subconsultants (10% Marku EDA (Electrical)	s (M) {Engineering} (Surveying) ur) Engineering Task Labo p) ,58E	fe	1 13 2 2 2 2 5.00	Hours S 2 S 2 S 2 S 2 S 3 S 3 S 3 S 3 S 3 S 3 S 3 S 3	H 90.00 65.00 125.00 155.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.00 135.0	5         150.00           \$         1.65.00           \$         1.855.00           \$         2.50.00           \$         2.50.00           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         -           \$         3.250.00           \$         \$.143.6	Total 0 0 0	12,645.		
	Task #2 907	i Design Submittai Incering Services Calvin, Giordano Ł Associate Associate, Engineering Director, Engineering Project Manager (IV) Engineer (IV) Engineer (IV) CADD Techniclan CADD Techniclan Registered Surveyor Survey Grew Soft Dig (per kola) Utility Locates (per bol Subconsultants (IDDS Marku EDA (Electrical) RADISE (Geotech)	s (M) {Engineering] (Surveying) Engineering Task Labo p) (SBE SBE	Fer S	1 13 2 2 2 2 5.00 2 5.00	Kours 5 1 5 1 5 2 5 3 5 5 5 5 5 5 5 5 5 5 6 5 6 5 6 6 6 7 6 7 7 7 7 8 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9	H (50,00) (45,00) (125,00) (125,00) (125,00) (125,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (135,00) (13	\$ 150,00 \$ 165,00 \$ 1,85,00 \$ 250,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Total 0 0 0 0 0	12,645.		

Task #2 Totai

\$ 14,828.60

rk Activi	Y Employee Classification				۴	lours		Houdy Bal	e Tol	58
sk #3	100% Design Submittal									
	Engineering Services									
	Calvin, Giordano & Associates									
	Associate, Engineering (VI)	)	· · ·		1	5	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	5	105.00	5	•	
	CADD Technician	(Engineering)			0	s	95,00	\$	•	
	CADD Technician	(Surveyine)			0	\$	95,00	\$	•	
	Registered Surveyor		•		0	\$	130.00	\$	, -	
	Survey Crew				0	\$	135.00	\$	-	
	Soft Dig (per hole)			•	0	\$	480.00	5	•	
	Utility Locates (per hour)				0	\$	205.00	\$	•	
	Enj	gineering Task Lai	bor Subtotal		15.00			\$	2,160.00	
	Subconsultants (10% Markup)			Fee		Marku	p (10%)			
	EDA (Einctrical)	SBE		\$	1,338.00	\$	153.80	\$	1,691.80	
	RADISE (Geotech)	58E				5		\$		
	AGA (Structural)	58E		\$	650.00	\$	65.00	\$ \$ .	715.00	
	Colome' (Architectural)	SBE				\$	•	\$	-	
	Engineerin	g Task Subconsult	ant Subtotal	\$	2,188.00	\$	218.80	\$	2,406.80	
									_	
						Ta	sk II3 Toti	al	7	\$

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Work Activ	ŝίγ	Employee Classification		a a t		F	lours	1	louri	y Rate Tota	1
Task #4	Permitting										
	Engineering	Services		-							
	Calvia	n, Glordano & Associates									
		Associate, Engineering (Vi	<b>)</b>	· .		0	\$	190.80	\$	-	
		Director, Engineering (V)				0	s	163.00	\$	•	
		Project Manager (IV)				5	5	145.0D	\$	\$70,00	
		Project Engineer (18)				14	\$	125.00	\$	1,750.00	
· ~ .		Engineer (II)				0	\$	105.00	\$	•	
		CADD Technician	(Engineering)			0	5	95.00	5		
		CADD Technician	(Surveying)			Ő	\$	95,00	5		
		<b>Registered Surveyor</b>				٥	5	130.00	\$	-	
		Survey Crew			1	0	\$	135.00	\$	-	
		Soft Dig (per hole)				0	\$	480.00	\$	•	
		Utility Locates (per hour)				. 0	\$	205.00	\$	-	
		En	gineering Task	Labor Subtotal		20.00	•		\$	2,620.00	
	Sub	consultants (10% Markup)			fee		Мэ	kup (10%)			
		EDA (Electrical)	SBE		\$	878.00	\$	\$7.10	\$	965.80	
		RADISE (Geotech)	58E				5	•	\$	-	
		AGA (Structural)	SBE		\$	200.003	5	\$0.00	5	880.00	
		Colome' (Architectural)	SBE				\$	-	5	•	
		Engineeri	ig Task Subcons	ultant Subtotal	\$	1,678.00	\$	167.80	\$	1,845.80	

Task #4 Total

4,566.80

4,465.80

Work Activity	Employee Classification		1	lours	1	Hourly Rate		Total
ask#5 Pre-C	Construction Meeting and Shop D	rawing Review						
Engir	neering Services							
<b>N</b> .	Calvin, Giordano & Assòciates							
	Associate, Engineering (VI	}		0	s	190.00	\$	-
	Director, Engineering (V)			0	\$	165.00	\$	-
	Project Manager (IV)			4	\$	145.00	\$	\$80.00
	Project Engineer (III)			0	ŝ	125,00	5	-
+	Engineer (11)			· 0	ŝ	105.00	\$	
	CAOD Technician	(Engineering)		Ð	\$	35.00	\$	•
	CADD Technician	(Surveying)		D	\$	95.00	\$	
	Registered Surveyor			0	\$	130.00	\$	· -
	Survey Crew			.0	\$	135.00	\$	· +
	Solt Dig (per höle)			Ç	5	480.00	\$	, <b>-</b>
	Wilkly Locates (per hour)			0	\$	205.00	\$	-
	En	gineering Task Labor Subtotal		4.00			ş	580.00
,	Subconsultants (10% Marking)		fee		M	arkup (10%)		
	EDA (Electrical)	38E	\$	3,010,00	\$	301.09	\$	3,311.00
	RADISE (Geotech)	38E			\$		5	· -
	AGA (Structural)	\$8E	\$	1,300.00	5	150.00	\$	1,650.00
	Colome* (Architectural)	382	1		\$		\$	•
	Engineerir	ıg Task Subconsultant Subtotal	\$	4,510.00	\$	451.00	\$	4,961.00
				Engi	nee	ring Task Tota	1	

5,541.00

Work Acti	vity Employce Classification			Hours	1	lourly Rate		Total
Task #6	WTP #9 Tower Construction	· •						
	Engineering Services							
	Calvin, Giordano & Associates							
	Associate, Engineering (	V1)		a	s	190.00	\$	-
	Director, Engineering (V	)		0	5	165.00	5	•
	Project Manager (IV)			4	5	145.00	5	520.00
	Project Engineer (III)			0	\$	125,00	\$	•
	Engineer (II)			0	\$	105,00	\$	•
	CADD Technician	(Engineering)		0	\$	95.00		
	CADD Technikian	{Surveying}		0	5	95.00	\$	•
	Registered Surveyor			0	\$	130.00	\$	-
	Survey Grew			0	5	135.00	\$	-
	Soft Dig (per hole)			0	5	450.00	\$	•
	Utility Locates (per hou	r]		. 0	\$	205.00	\$	• ,
	E	ngineering Task Labor Subtot:	u	4.00	•		\$	580.00
	Subconsultants (10% Markup	<b>.</b>	fee			arkup (20%)	,	. Total
		588	Ś	968.00	5	96.80	5	1,064.80
	EDA (Electrical)				•	575,00		7,425.00
	RADISE (Geotech)	SBE	\$ \$	6,750.00		138.00		
	AGA (Structural)	SBE	5	1,380.00		198.00	÷.	1,518.00
	Colome' (Architectural	) S8E			\$		\$	-

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

Engineering Task Total

Page

\$ 10,587.80

					•							
Work Acth	vity Employee Classification			Hours	ł	lourly Rate		Total				
				2								
Task #7	WTP #9 Project Close-Out											
	Engineering Services	• •				·			 		 	
	Calvin, Giordano & Associates								 1		· · · ·	
	Associate, Engineering (			0 5		150.00	-	-				
	Director, Engineering (V			0 1	•	165.00	•	-				
	Project Manager (IV)			14 :		145.00	-	2,030.00				
	Project Engineer (III)			a :	\$	125.00	\$	-				
	Engineer (II)			0	\$	105.00	\$	-				
	CADD Technician	(Engineering)		0	\$	95.00						
	CADD Technician	(Surveying)		В	\$	95.00	\$	760,00		•		
	Registered Surveyor			1	\$	130,00	\$	.130,00				
. 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Survey Crew			4	5	135.00	\$	540.00				
	Soft Dig (per hole)			0	\$	420.00	\$	-				
	Utility Locates (per hou	1		. 0	5	205.00	\$	-				
	E	ngineering Task Labor Subtotal		27.00			\$	3,460.00				
								•				
	Subconsultants (10% Markup	)		Fee	,	Varkup (10%)		Total				
	EDA (Electrical)	SaE	5	410.00	5	41.00	\$	451.00				
	RADISE (Geotech)	SBE			s	· •	\$	-				
	AGA (Structural)	382	\$	600.00	\$	\$0.00	5	£50,00				
	Colome' (Architectura)	SBE			5	•	\$	•				
		•							•			
	Engineer	ing Task Subconsultant Subtota	1\$	1,010.00	\$	101.00	\$	1,111.00				

Engineering Task Total

,

4,571.00 \$

York Aclivity	Employee Classification				Hours		Hourly Rate		Total
otala									
Engine	ering Services								
1	Calvin, Giordano & Associates				-				
	Lump Sum				0	5	10,000.00	\$	-
	Associate, Engineering (V	) .			2	\$	190.00	\$	380.00
	Director, Engineering (V)				. 3	\$	165.00	\$	339.00
	Project Manager (IV)				58	\$	145.00	\$	\$,430,00
	Project Engineer (III)				20	.\$	125.00	\$	7,500.00
	Engineer (II)				1	\$	105,00	\$	105,00
	CADD Technician	(Engineering)			5	\$	35.00	\$	760.00
	CADD Technician	(Surveying)	+		16	\$	95,00	\$	1,520.00
	Registered Surveyor				3.5	s	130,00	\$	455.00
	Survey Crew				12	\$	135,00	\$	1,620.00
	Soft Dig (per hole)				0	\$	430.00	5	-
	Utility Locates (per hour)	li ki i gili i			8	\$	205,00	\$	1,640.00
	Engi	ieering Project	Labor Subtotal		130.50			\$	17,720.00
	Subconsultants (10% Markup)				Fet		Markup (10%)		Total
	EDA (Electrical)	585		\$ .	13,358.00	\$	1,335.50	\$	14,693.80
	RADISE (Gentech)	SBE		\$	11,758.50	5	1,175.85	5	12,934.35
	AGA (Structural)	58E		5	10,780.00	5	1,078.00	\$	11,858.00
	Colome*(Architectural)	588		\$	-	- 1		5	-
	Engineering	Project Subcon	sultant Subtotal	\$	35,896.50		3,589,65	\$	39,486.15

Engineering Task Total

\$ 57,205.15

State Certificate # EC-13003753

LOWIRESPONSIVE

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



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.
- 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

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