

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

Meeting Date: May 07, 2019

Consent Regular
 Workshop Public Hearing

Department: Facilities Development and Operations

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Supplement No. 3 to Consultant Services Authorization (CSA) No. 22 with Omnicom Consulting Group, Inc. (OCG Inc.). (R2014-1462) to provide design for the Glades Road Tower Replacement project in the amount of \$163,298.

Summary: This CSA authorizes engineering and design services for the construction of a 400-ft. self-supporting radio communications tower, and equipment shelter. The scope of services for OCG Inc. includes but is not limited to preparation of a design intent report; tower, shelter and emergency powers systems design, construction drawings and specifications; permitting, cost estimating; bid support, and construction administration inclusive of shop drawing & submittal review and approvals; construction observation, inspections and closeout. OCG Inc. is located in Tallahassee Florida. The solicitation for design services was advertised on April 27, 2014 according to the Small Business Enterprise ordinance in place at the time, with final selection taking place on July 7, 2014. The prime consultant is not a certified Small Business Enterprise/Minority/Woman Business Enterprise (SBE/M/WBE). They are utilizing one subconsultant that is SBE/M/WBE. OCG Inc. proposed and agreed to provide 15% SBE participation and 0% M/WBE participation. Overall participation under this CSA is 24.27%. Overall SBE participation on this contract is 12.7%. Funding for this work is from the R&R 800Mhz Fund. **(Capital Improvements Division) District 5 (LDC)**

Background and Justification: In January 2019 Palm Beach County Facilities Development & Operations Department (FDO) as agent, submitted a General application for approval to allow an official zoning map amendment and for a Class A Conditional Use for a 400' height Self Support / Lattice Communications Tower (Government-owned tower providing for governmental services) with concurrent Type 2 Waivers. The Glades Road Tower (Tower) is proposed to be located within the Public Civic Pod of the Boca Raton Golf Course Planned Unit Development (PUD). The request is concurrent with, and part of, the requests for Rezoning and a Development Order Amendment filed by G.L. Acquisitions Corporation (GL) for the PUD to add land area with rezoning of same to PUD, and to reconfigure the Master Plan. This supplement No. 3 to Authorization No. 22 to the Contract dated 10/07/2014 (R-2014-1462) between Palm Beach County and Omnicom Consulting Group, Inc. (OCG) is for consultant services for design, engineering, and procurement support for the construction of the Glades Road Tower, equipment shelter, emergency power system, and related site-work.

Attachments:

1. Location Map
2. Budget Availability Statement
3. Supp. No. 3 to CSA No. 22

Recommended by:  4/16/19
Department Director Date

Approved by:  4/23/19
County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2019	2020	2021	2022	2023
Capital Expenditures	<u>\$175,683</u>	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	<u>\$175,683</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____
Is Item Included in Current Budget		Yes	<u>X</u>	No	_____
Does this item include use of federal funds?		Yes	_____	No	<u>X</u>

Budget Account No: Fund 3801 Dept 411 Unit B209 Object 6401

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

Funding for this project is from the R&R 800 Mhz fund

Professional Services	\$163,298.00
Staff Costs	<u>\$12,385.00</u>
Total	<u>\$175,683.00</u>

C. Departmental Fiscal Review: Robert C. Mollen

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development Comments:

<p><u>Steve R. ...</u> OFMB 4/18/19</p>	<p><u>John J. ...</u> Contract Development and Control 4/22/19</p>
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B. Legal Sufficiency:

... 4/22/19
Assistant County Attorney

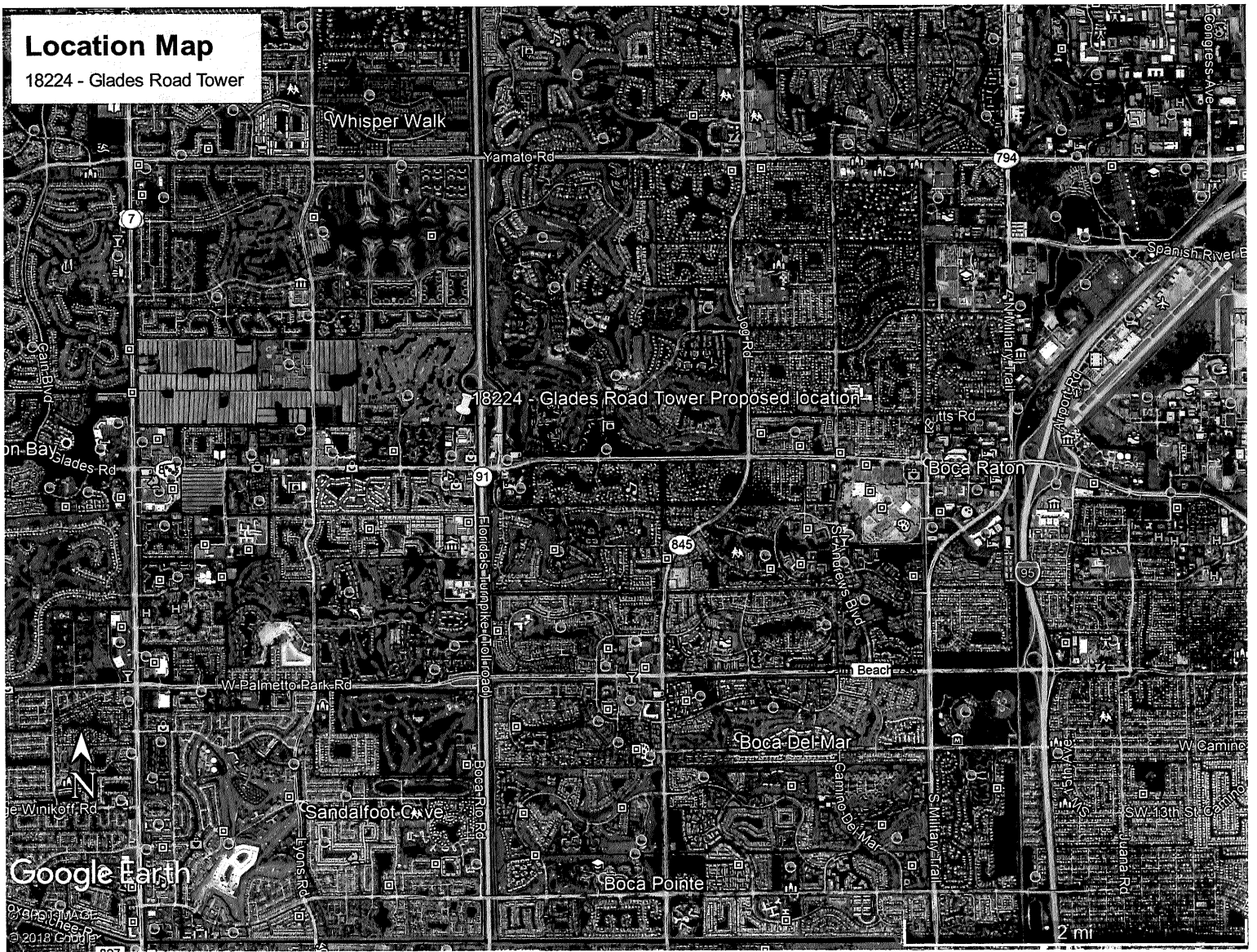
C. Other Department Review:

Department Director

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

Location Map

18224 - Glades Road Tower



Attachment 1

BUDGET AVAILABILITY STATEMENT

REQUEST DATE: 4/5/2019

REQUESTED BY: Richard Avery

PHONE: (561) 233-0208

PROJECT TITLE: Glades Road Communication Tower
(Same as CIP or IST, if applicable)

ORIGINAL CONTRACT AMOUNT: N/A

IST PLANNING NO.:

E-FDO NUMBER: 2018-67034

REQUESTED AMOUNT: \$163,298.00

BCC RESOLUTION#: _____
DATE: _____

CSA or CHANGE ORDER NUMBER: N/A

LOCATION: 8111 Golf Course Rd., Boca Raton, FL.

BUILDING NUMBER: N/A

DESCRIPTION OF WORK/SERVICE LOCATION: New 400ft height self-supporting communications Tower/Boca Raton Golf Course, Boca Raton, Fl.

PROJECT NUMBER: 18224

CONSULTANT: Omnicom Consulting Group, Inc.

PROVIDE A BRIEF STATEMENT OF THE SCOPE OF SERVICES TO BE PROVIDED BY THE CONSULTANT/CONTRACTOR: Engineering and design services for the construction of a 400-ft. self-supporting radio communications tower, and equipment shelter. Including but not limited to preparation of a design intent report; Tower, shelter and emergency powers systems design, construction drawings and specifications; permitting, cost estimating; bid support, and construction administration inclusive of shop drawing & submittal review and approvals; construction observation, inspections and closeout

CONSTRUCTION	\$
PROFESSIONAL SERVICES	\$163,298.00
STAFF COSTS*	\$12,385.00
EQUIP. / SUPPLIES	\$
CONTINGENCY	\$
TOTAL	\$175,683.00

* By signing this BAS your department agrees to these CID staff charges and your account will be charged upon receipt of this BAS by FD&O. Unless there is a change in the scope of work, no additional staff charges will be billed. If this BAS is for construction costs of \$250,000 or greater, staff charges will be billed as actual and reconciled at the end of the project. If the project requires Facilities Management or ESS staff your department will be billed actual hours worked upon project completion.

BUDGET ACCOUNT NUMBER(S) (Specify distribution if more than one and order in which funds are to be used):

FUND: _____ DEPT: _____ UNIT: _____ OBJ: _____
3801-411- B209-6401

IDENTIFY FUNDING SOURCE FOR EACH ACCOUNT: (check and provide detail for all that apply)

Ad Valorem (Amount \$ _____)	Infrastructure Sales Tax (Amount \$ _____)
State (source/type: _____ Amount \$ _____)	Federal (source/type: _____ Amount \$ _____)
Grant (source/type: _____ Amount \$ _____)	Impact Fees: (Amount \$ _____)
<input checked="" type="checkbox"/> Other (source/type: <u>GR 800Mhz</u> Amount \$ _____)	

Department: _____

BAS APPROVED BY: [Signature]

DATE 4/8/19

ENCUMBRANCE NUMBER: _____

Attachment 2

CONSULTANT SERVICES AUTHORIZATION

OMNICOM CONSULTING GROUP, INC.
Public Safety Radio System Consultant

GLADES ROAD TOWER REPLACEMENT
PROJECT NO. 18224

This consultant services authorization is for professional design services for the Glades Road Tower Replacement project located at 8111 Golf Course Road, Boca Raton Fl.

Professional services shall include engineering and design services for the construction of a 400-ft. self-supporting radio communications tower, and equipment shelter. The scope of services for OCG Inc. includes but is not limited to preparation of a design intent report; Tower, shelter and emergency powers systems design, construction drawings and specifications; permitting, cost estimating; bid support, and construction administration inclusive of shop drawing & submittal review and approvals; construction observation, inspections and closeout.

Explanation: In January 2019 Palm Beach County Facilities Development & Operations Department (FDO) as agent, submitted a General application for approval to allow an official zoning map amendment and for a Class A Conditional Use for a 400' height Self Support / Lattice Communications Tower (Government-owned tower providing for governmental services) with concurrent Type 2 Waivers. The Glades Road Tower (Tower) is proposed to be located within the Public Civic Pod of the Boca Raton Golf Course Planned Unit Development (PUD). That request is concurrent with, and part of, the requests for Rezoning and a Development Order Amendment filed by G.L. Acquisitions Corporation (GL) for the PUD to add land area with rezoning of same to PUD, and to reconfigure the Master Plan. This supplement authorizes consultant services as previously described.

SBE participation for this Authorization is 24.2%. When added to the Consultant's participation to date, the resulting SBE participation is 12.7%. The Consultant's contract goal is 15%.

CONSULTANT SERVICES AUTHORIZATION

OMNICOM CONSULTING GROUP, INC.
Public Safety Radio System Consultant

GLADES ROAD TOWER REPLACEMENT
PROJECT NO. 18224
DISTRICT NO. 5

THIS SUPPLEMENT NO. 3 TO AUTHORIZATION NO. 22 to the Contract dated 10/07/2014 (R-2014-1462) between Palm Beach County and the Consultant identified herein is for the Consultant Services described in Item 4 of this Authorization.

1. **CONSULTANT:** OMNICOM CONSULTING GROUP, INC.

2. **History:**

	<u>CSA #</u>	<u>Amount</u>	<u>Approval Date</u>	<u>Approved By</u>
1.	CSA #22	\$5,600	12/22/18	AW
2.	Supp. #1	\$21,840	03/18/19	AW
3.	Supp #2	\$2,376	03/18/19	AW

3. **Services completed to date:** CSA No. 22 authorized a base line analysis of the current radio coverage and compare it against candidate sites to determine a preferred location for a new replacement public-safety radio communications tower. This effort is 100% complete. Supplement No. 1 authorized the identification of agencies and producing letters of interest for transmittal to identified agencies that requests confirmation of intent to use tower space, along with their requirements including tower loading, frequency information, shelter space, power and communications requirements. Supplement No. 2 authorized the review of a tower site application for an existing tower.

4. **Description of Services to be provided by Consultant:** Professional services shall include engineering and design services for the construction of a 400-ft. self-supporting radio communications tower, and equipment shelter. The scope of services for OCG Inc. includes but is not limited to preparation of a design intent report; Tower, shelter and emergency powers systems design, construction drawings and specifications; permitting, cost estimating; bid support, and construction administration inclusive of shop drawing & submittal review and approvals; construction observation, inspections and closeout as detailed on the attached proposal dated March 18, 2019.

5. **Compensation:** The compensation to be paid to the Consultant for the requested services shall be:

Lump Sum charge of **\$163,298**

6. **This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed to termination date, together with reimbursable expenses (if applicable) then due.**

Consultant agrees to waive any and all claims for lost profits or anticipated future profits in the event of a termination with or without the cause under this Contract.

7. If not previously provided or for a new project, the Consultant shall provide County with an executed Conflict of Interest Disclosure Form, attached hereto and incorporated herein.
8. All terms, conditions, and obligations of the original Contract shall remain in full force and effect, unless specifically noted as follows: No changes.
9. **Time of Commencement:** Consultant shall begin work promptly on the requested services upon receipt of this executed document which shall constitute official **“Notice to Proceed”**.

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

ATTEST:
SHARON R. BOCK, CLERK &
COMPTROLLER

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

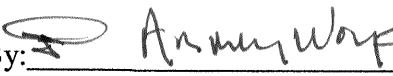
By: _____
Deputy Clerk

By: _____
Mack Bernard, Mayor

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

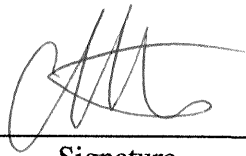
APPROVED AS TO TERMS
AND CONDITIONS

By: _____
County Attorney

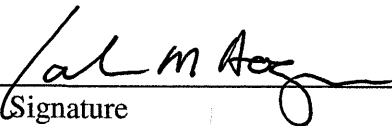
By:  _____
Director - FD&O

WITNESS:

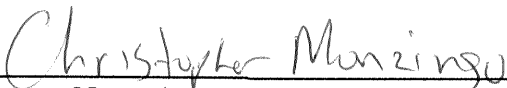
CONSULTANT: OMNICOM CONSULTING
GROUP, INC.



Signature

By: 

Signature



Name (type or print)

John M. Hogan

Name (type or print)

Vice President

Title

(Corporate Seal)



March 18, 2019

Richard Avery
Palm Beach County
Capital Improvements Division
2633 Vista Parkway
West Palm Beach, Florida 33411

RE: 18224 – Glades Road Tower Project

Dear Sir:

This letter is in reference to recent requests in which Omnicom Consulting Group, Inc. (OCG) was asked to provide Palm Beach County a quotation for professional design services for the construction of a 400-foot self-supporting tower, equipment shelter, and emergency power systems for the Glades Road Tower Project. OCG has assembled a comprehensive team of partners, all of which OCG has successfully completed projects with, for this very important project. OCG's team includes John Wood Group, PLC (Wood) to perform geotechnical investigations and specialized permitting, Pate Engineering to review tower and foundation designs and inspect their installations, and JLRD, our SBE subcontractor, to perform design, engineering and inspection tasks for electrical and mechanical systems including utilities, generator, UPS and HVAC systems. Together, OCG is confident that this project will be a success.

OCG proposes the following scope of work based upon the project schedule and the County's Policy and Procedures Manual for Design Professionals, revised October, 2013.

SCOPE OF WORK

1. Design Phase

1.1. Construction Documents

1.1.1. Schematic Design Phase

1.1.1.1. Design Kick-off Meeting

OCG will participate in a design kick-off meeting to ensure all parties have a thorough understanding of the goals of the project and to establish lines of communications. The goals of the project and requirements provided by the County for the new infrastructure will be reviewed during this meeting to ensure the design achieves a practical programmatic and economic solution, within the limitations of the authorized program, schedule and budget.

OCG will document the results of the kick-off meeting, including design factors agreed to, with any instructions furnished by the County to carry out such factors, including, but not limited to:

1. Program clarification
2. Scheduling concerns
3. Existing site conditions
4. Project budget and cost estimates
5. Cost-value trade offs
6. Quality requirements
7. Special material requirements
8. Requirements for telephone, data, security, utilities, etc.

1.1.1.2. Design Intent Report

OCG will provide a Design Intent Report explaining the basis of the design and describing how the designed solution satisfies the program. The report will summarize the opportunities and constraints influencing the design and rationale behind the design to serve as a vehicle to acquaint interested persons with the particulars of the project. OCG will provide a narrative description of the design and construction concepts and how they are responsive to the program.

The Design Intent Report will include:

1. Introduction
2. Goals
3. Facts
4. Needs
5. Criteria
6. Preliminary project description
7. Cost analysis and project schedule
8. Appendices as required

1.1.1.3. Site Visit

OCG will participate in a site visit to assess existing conditions, review availability of utilities (electrical and communications), and verify feasibility of the design requirements provided by the County.

1.1.1.4. Site Survey and Mapping

OCG will utilize the existing site plan developed by the County and UDK for this project. OCG will perform construction staking using the site plan to establish locations for ground resistance testing and geotechnical surveys.

1.1.1.5. Ground Resistance Testing

OCG will perform a ground resistance test to document the local soil resistivity. This information will be used in the design of the ground system.

1.1.1.6. Utilities Locate

OCG coordinate with local service providers to locate any utilities in the immediately vicinity of the geotechnical investigation.

1.1.1.7. Geotechnical Investigation

OCG will perform a single 80-foot boring at the centerline of the proposed tower location. The information collected from the boring will be used by the tower manufacturer as the basis of the design for the tower foundation.

1.1.1.8. Submit Schematic Design Cost Estimate

OCG will provide a preliminary opinion of probable total project cost based upon information collected during this phase, including, but not limited to utilities coordination, ground resistance testing, and geotechnical investigation.

1.1.1.9. Submit Schematic Design Documents

OCG will submit Schematic Design Documents consisting of:

1. Preliminary utility investigations, including consultation with local service providers, confirmation of utility locations, availability, and adequacy for intended service, and preliminary routing of utility services to the Project.
2. Preliminary floor plan of equipment shelter.
3. Preliminary wall space usage indicating general locations of transmission line entrance panels, electrical load centers, master ground bars, and communication circuits demarcations.

OCG will furnish the County with four (4) full-size and three (3) half-size printed sets of schematic design documents.

1.1.1.10. Schematic Design Review Meeting

OCG will prepare for and participate in a meeting to review the schematic design with the County to ensure that the proposed design concept is consistent with the County's requirements.

1.1.2. Outside Agency Permitting

1.1.2.1. Federal Aviation Administration

The County has filed file Federal Aviation Administration (FAA) Form 7460-1, Notice of Proposed Construction or Alteration to obtain approval to construct the tower and requested lighting system. OCG will incorporate the received approval into the contract documents.

1.1.2.2. NEPA/SHPO/THPO

OCG will complete the National Environmental Policy Act (NEPA) report, as required by the Federal Communications Commission (FCC). The NEPA report will include the cultural report, as required, from a person with a Master's degree in history or archeology. In addition, the NEPA report will include the FCC Form 620, necessary when filing with the State Historical Preservation Organization (SHPO), and the SHPO Concurrence letter. The NEPA report will also include all Native American tribal consultation letter(s) from tribes that may have had an interest in the proposed tower area. OCG has included the cost for tribal fees in its proposal.

1.1.2.3. Federal Communications Commission

Upon completion of the NEPA report and receipt of a FAA determination of no obstruction, OCG will file for an application for an Antenna Structure Registration (ASR) number with the FCC.

1.1.3. 50% Construction Documents

1.1.3.1. Develop 50% Construction Documents

OCG will develop bid specifications for project including:

1. Site development
2. Tower and foundation design
3. Shelter and foundation design
4. Electrical utilities
5. Generator and fuel tank
6. Automatic and manual transfer switches with generator input port
7. UPS
8. Fire sprinkler system
9. Inspection and testing requirements
10. Project management requirements

OCG will develop 50% construction drawings including:

1. Tower Drawings
 - a. Loading diagram
 - b. Tower ground bar plan
 2. Shelter Drawings
 - a. Floor plan
 - b. Wall usage plan
 - c. Transmission line entry port plan
 - d. Electrical plan
 - e. Lighting plan
 - f. Grounding and bonding
 - g. Partitioning plan
 - h. Fire sprinkler plan
 3. Site Plan
 - a. Electrical utilities
-

- b. Communications
- c. Grounding and bonding

OCG has provided in its proposal the design effort for a wet pipe fire sprinkler system. Should a dry pipe or other type of system be requested, OCG will negotiate with the County for the additional service effort that is commensurate with such systems.

OCG will furnish the County with four (4) full-size and three (3) half-size printed sets of construction drawings as well as an electronic copy.

1.1.3.2. Develop 50% Cost Estimate

OCG will update the cost estimate based upon the 50% construction documents.

1.1.3.3. Participate in 50% Construction Documents Review Meeting

OCG will prepare for and participate in a review of the 50% construction documents with the County. The County will issue a list of recommended changes/corrections to be incorporated in the final documents. OCG will transmit written replies to review comments issued by the County for which clarification requests were identified or for which changes were authorized at the 50% construction documents review meeting.

1.1.4. 95% Construction Documents

1.1.4.1. Develop 95% Construction Documents

OCG will update the 50% construction documents based upon the comments of the County during the 50% construction documents review meeting. OCG will submit the 95% construction documents to the County for review, comments and approval.

OCG will furnish the County with four (4) full-size and three (3) half-size printed sets of construction drawings as well as an electronic copy.

1.1.4.2. Develop 95% Cost Estimate

OCG will update the cost estimate based upon the 95% construction documents.

1.1.4.3. Participate in 95% Construction Documents Review Meeting

OCG will prepare for and participate in a review of the 95% construction documents with the County. The County will issue a list of recommended changes/corrections to be incorporated in the final documents. OCG will transmit written replies to review comments issued by the County for which clarification requests were identified or for which changes were authorized at the 95% construction documents review meeting.

1.1.5. Building Department Permit Application

OCG will complete the necessary building department permit application for County signature. OCG will respond to questions from the building department and revise construction documents as required to obtain the construction permit.

OCG will furnish the County with two (2) full-size signed and sealed printed sets of construction drawings.

1.1.6. Diesel Tank Permit Application

OCG will complete the necessary permit application for the 1000-gallon diesel tank for County signature. OCG will respond to questions from the permitting agency and revise construction documents as required to obtain the construction permit.

Within 30 to 45 days prior to installation of the diesel tank, OCG will notify the county inspector of the planned installation and provide 48 to 72 hours prior confirmation notification to the county inspector.

OCG will register the storage tank with the Florida Department of Environmental Protection no later than 30 days prior to installation.

OCG will assist the County in completing any required Financial Responsibility forms.

1.1.7. 100% Construction Documents

1.1.7.1. Adjust Design in Event of Changes Due to Final Approval of Site Plan

In the event the final site plan affects the placement of equipment within the 95% construction documents, OCG will incorporate these changes in the 100% construction documents. OCG will also incorporate changes and comments from the 95% construction documents review meeting

1.1.7.2. Produce 100% Construction Documents

OCG will furnish the required number of signed and sealed copies of the 100% construction documents. OCG will identify in writing any part of the work that might require special monitoring or consideration during construction to prevent quality control problems, delays, or cost escalation. This will include any long lead time equipment or materials, items which interface with difficulty and areas of work requiring significant care or precision in installation.

OCG will furnish the County with four (4) full-size and three (3) half-size printed sets of construction drawings as well as an electronic copy.

OCG will provide reproducibles of the approved construction plans and a master set of technical specifications for the County's use to issue bidding documents. Construction documents will be provided in AutoCAD format.

1.1.7.3. Update Project Schedule

OCG will adjust the project schedule for the construction duration, which will be included in the construction contract.

2. Procurement Phase

2.1. Assist in Preparing Invitation to Bid

OCG will assist the County in the preparation of necessary bidding information and bidding forms. OCG will review County furnished front end documents and General Conditions and advise the County of any conflicts or inconsistencies with the specifications. OCG will prepare the language for any Special Conditions of the construction contract.

2.2. Attend Pre-bid Conference and Site Visit

OCG will attend the pre-bid conference and site visit and verbally answer questions to clarify project requirements.

2.3. Answer Questions / Addenda

As required, OCG will provide written answers to questions submitted by vendors and provide addenda to the bid package, if required.

2.4. Review Bids

OCG will review the bids for compliance with the procurement documents and provide a written report of any deficiencies.

2.5. Assist in Protest

Should a bidder protest the outcome of the procurement, OCG will provide assistance to the County during the bid protest. OCG has included a 2-hours of support in its cost estimate and will negotiated with the County for additional hours should it prove necessary.

3. Construction Administration Phase

3.1. Submittal/Shop Drawings Review, Comment, and Approve

OCG will perform professional review and approval or rejection of shop drawings, samples and other submittals from the construction contractor to determine conformance with the specific portions of the construction documents under which the submittals were made.

3.1.1. Tower Structural Plans

OCG will review and approve or reject the tower structural submittal to ensure compliance with project specifications.

3.1.2. Shelter Design

OCG will review and approve or reject the shelter submittal to ensure compliance with project specifications.

3.1.3. Foundations

OCG will review and approve or reject the tower, shelter, and generator foundation submittals to ensure compliance with project specifications.

3.1.4. Grounding

OCG will review and approve or reject the grounding system submittals to ensure compliance with project specifications.

3.1.5. Generator/Fuel Tank

OCG will review and approve or reject the generator and fuel tank submittals to ensure compliance with project specifications.

3.1.6. Electrical

OCG will review and approve the electrical submittals to ensure compliance with project specifications.

3.1.7. UPS

OCG will review and approve or reject the uninterruptible power supply submittals to ensure compliance with project specifications.

3.1.8. Fencing and Compound

OCG will review and approve or reject the fencing and compound submittals to ensure compliance with project specifications.

3.1.9. Concrete Design Mix Density Verification

OCG will review and approve or reject the concrete design mix density verification submittal to ensure compliance with project specifications.

3.2. Construction Tasks

3.2.1. Site Prep

3.2.1.1. Staking and Grading

OCG will inspect the staking and grading of the tower site to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.1.2. Access, Parking, Staging

OCG will inspect the establishment of access, parking and staging areas to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.1.3. Utility Connection Conduit/Cable Installation

OCG will inspect the installation of utilities connection conduits and cables to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.1.4. Communications Conduit/Cable Installation

OCG will inspect the installation of communications conduits and cables to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.2. Tower Erection

3.2.2.1. Foundation Drill

Upon completion of each foundation drilled shaft, OCG will visually inspect the drilled shaft to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.2.2. Foundation Place Concrete

OCG will inspect the construction of the foundation rebar cage, observe the pouring of the tower foundations and setting of the anchor bolts to evaluate the adequacy and completeness of the contractor's compliance with the contract documents. Because the foundation has not been designed, the size of the foundation is unknown at this time and therefore, the time for the contractor to perform this task is unknown at this time. OCG proposes this task on an hourly basis and has included an estimated 36 hours for this task in the cost proposal.

3.2.2.3. Concrete Cure & Test

OCG will review the independent, third-party concrete break test results provided by the contractor to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.2.4. Tower Assembly

OCG will monitor contractor's progress in assembling the tower by regularly communicating with the contractor. OCG will notify the County of the progress.

OCG will file with the FAA Form 7460-2 that the tower erection has commenced within at least 48 hours prior to start of tower assembly and within 5 days of when the structure reached its greatest height.

3.2.2.5. Tower Inspection

OCG will perform an inspection of the completed tower to verify it was erected in accordance with the approved tower drawings. OCG will furnish a signed and sealed report outlining the results of the inspection.

Should deficiencies in the construction of the tower be discovered, OCG will promptly notify the County and contractor and oversee the contractor's corrective actions.

3.2.3. Shelter Installation

3.2.3.1. Inspection at Manufacturer

OCG will perform an on-site inspection of the equipment shelter at the manufacturer's facilities to ensure that it is in compliance with the project requirements. It is common to perform this inspection on-site as issues that may be identified can be readily addressed rather than trying to address those issues in the field.

3.2.3.2. Shelter and Generator Foundation

OCG will observe the concrete pouring of the shelter and generator foundation to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.3.3. Shelter Installation

OCG will observe the installation of the shelter to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.3.4. Ice Bridge Installation

OCG will inspect the installation of the ice bridge to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.3.5. Shelter Inspection and Testing

OCG will inspect the installed shelter and observe the completion of the shelter inspection tests.

3.2.4. Electric Utility

3.2.4.1. Set Transformer Pad and Electrical Service

OCG will inspect the installation of the transformer pad and electrical service to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.4.2. Set Transformer and Meter

OCG will inspect the installation of the transformer and electrical service meter to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.4.3. Connect Utility to Transformer

OCG will inspect the connection of the electrical utility to the transformer to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.4.4. Electrical Inspection

OCG will observe the electrical inspection and note any deficiencies required to be corrected.

3.2.4.5. Connection of Electrical to Shelter

OCG will inspect the electrical connection to the equipment shelter to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.5. Generator and Fuel Tank

3.2.5.1. Generator and Fuel Tank Installation

OCG will inspect the installation of the transformer and electrical service meter to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.5.2. Generator and Fuel tank Inspection and Testing

OCG will inspect the installation of the generator and fuel tank and observe the acceptance testing to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.6. Site Grounding

3.2.6.1. Grounding Inspection and Testing

OCG will inspect the installation of the site grounding and observe the acceptance testing to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.7. Compound

3.2.7.1. Fencing

OCG will inspect the installation of the fencing to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.7.2. Fence Grounding

OCG will inspect the installation of the fence grounding to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.7.3. Weed Fabric/Gravel

OCG will inspect the installation of the weed fabric and gravel to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.2.8. Final Ground Test

OCG will observe the final ground test to evaluate the adequacy and completeness of the contractor's compliance with the contract documents.

3.3. Close-out

3.3.1. Substantial Completion and Punch List Items

Upon completion of inspection verifying Substantial Completion has taken place, OCG will provide a written report to the County indicating if Substantial Completion has been achieved, along with a written punch list of items found not to be complete, in need of correction, replacement or otherwise not in accordance with the construction documents.

3.3.2. Final Inspection

OCG will perform a final inspect after the punch list items have been completed for final acceptance of the project.

3.3.3. As-Builts

After the contractor has submitted its marked up record prints, based on these marked up prints, OCG will revise the original documents showing changes in the work made during the construction process to produce a set of as-built documents. The consequences of addenda, change orders and other circumstances known by OCG to have caused change will also be included in the production of the as-built documents. OCG will provide the as-built documents to the County in AutoCAD format.

3.3.4. Close-out Documentation

OCG will review and approve close-out documentation provided by the contractor for the project.

4. Project Administration

4.1. Project Oversight and Change Management

OCG will keep the County informed of the progress and quality of work based on site observations and will endeavor to guard the County against defects and deficiencies in the work.

OCG will immediately notify the contractor and County should we become aware of work of any contractor or subcontractor that does not conform to the work or quality required by the construction contract. OCG will provide data as necessary to inform the County of the degree of deviation from contract requirements, the cause thereof, the impact on schedule and cost, if known, and a recommended course of action.

OCG will review requests for information and County requests for change and respond in a timely manner. OCG will develop field bulletins as appropriate and evaluate subsequent contractor proposals and provide the County with a written recommendation regarding acceptance or rejection.

OCG will prepare its own estimate of costs for proposed changes, compare it with the contractor's proposal, and negotiate a reasonable price. OCG will state in its transmittal letter to the County the following: a brief description of the change, the reason for the change, OCG's estimate for the change, results of negotiations with the contractor regarding his price, and a statement that OCG has reviewed the contractor's proposal and recommends the change.

4.2. Project Progress Reports and Teleconferences

Following construction site visits, OCG will make routine status reports of activities on the Project in a format approved by the County. These reports will be submitted within five (5) days of the site visit by OCG.

OCG will participate in project teleconferences to ensure the County is up to date on the project's progress

4.3. Payment Application Reviews

Based upon site observations, OCG will determine the amounts owing the contractor and recommend to the County, in writing, payment to the contractor. OCG will process contractor's payment application in accordance with the Florida Prompt Payment act.

SCHEDULE

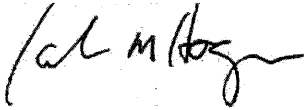
OCG will complete the work in accordance with the approved project schedule.

PRICING

Please see the attached fee proposal for pricing. OCG used a discounted \$140 billing rate (\$160 per hour is OCG's standard rate), \$285 per day per diem (\$100 rental, \$185 food and lodging) and an estimated \$700 for airfare to the shelter manufacturer's facility to perform the shelter inspection. Expenses and hourly rates for OCG's subcontractors are shown in the attachments. Wood and Pate Engineering provide specialized services and are quoted as fixed prices, with the exception of observing and inspection tower foundation construction for which Pate Engineering provided an hourly rate.

	OCG	JLRD	Wood	Pate	Total
Design and Procurement Phases	\$46,845	\$25,963	\$16,900	\$3,000	\$92,708
Construction Phase	\$41,420	\$13,670	\$650	\$14,850	\$70,590
Total:	\$88,265	\$39,633	\$17,550	\$17,850	\$163,298

Please call me at my office at (850) 792-4720 or my cell phone (850) 212-4916 with any questions.
Sincerely,



John M. Hogan, P.E., PMP
Vice President

	OCG				JLRD			Wood	Pate			Total					
	Hours	\$	140	On Site (Trips)	Expenses (\$285 per diem)	Hours		Expenses	Specialized Services	Hours	\$		150	Specialized Services			
1 Design Phase																	
1.1 Construction Documents																	
1.1.1 Schematic Design Phase																	
1.1.1.1 Design Kickoff Meeting	2	\$	280	1	\$	285		\$	-	\$	-	\$	-	\$	565		
1.1.1.2 Design Intent Report	4	\$	560		\$	-		\$	-	\$	-	\$	-	\$	560		
1.1.1.3 Site Visit	4	\$	560		\$	-	4	\$	580	\$	-	\$	1,000	\$	2,140		
1.1.1.4 Site Survey and Mapping		\$	-		\$	-		\$	-	\$	-	\$	1,050	\$	1,050		
1.1.1.5 Ground Resistance Testing		\$	-		\$	-		\$	-	\$	-	\$	750	\$	750		
1.1.1.6 Utilities Locate		\$	-		\$	-		\$	-	\$	-	\$	1,000	\$	1,000		
1.1.1.7 Geotechnical Investigation	1	\$	140		\$	-		\$	-	\$	-	\$	5,000	\$	5,140		
1.1.1.8 Submit Schematic Design Cost Estimate	8	\$	1,120		\$	-	7.5	\$	920	\$	-	\$	-	\$	2,040		
1.1.1.9 Submit Schematic Design Documents	12	\$	1,680		\$	50	10	\$	1,450	\$	150	\$	-	\$	3,330		
1.1.1.10 Schematic Design Review Meeting & Responses	6	\$	840	1	\$	285	7	\$	845	\$	-	\$	-	\$	1,970		
1.1.2 Outside Agency Permitting																	
1.1.2.1 Federal Aviation Administration	0.5	\$	70		\$	-		\$	-	\$	-	\$	-	\$	70		
1.1.2.2 NEPA/SHPO/THPO	4	\$	560		\$	-		\$	-	\$	-	\$	4,000	\$	4,560		
1.1.2.3 Federal communications Commission	0.5	\$	70		\$	-		\$	-	\$	-	\$	600	\$	670		
1.1.3 50% Construction Documents																	
1.1.3.1 Develop 50% Construction Document	80	\$	11,200		\$	50	95	\$	8,397	\$	150	\$	1,750	\$	3,000	\$	24,547
1.1.3.2 Develop 50% Cost Estimate	5	\$	1,680		\$	-	8	\$	1,010	\$	-	\$	-	\$	2,690		
1.1.3.3 50% Construction Documents Review Meeting & Responses	6	\$	840	1	\$	285	7	\$	845	\$	-	\$	-	\$	1,970		
1.1.4 95% Construction Documents																	
1.1.4.1 Develop 95% Construction Document	60	\$	8,400		\$	50	70	\$	6,606	\$	150	\$	1,750	\$	16,956		
1.1.4.2 Develop 95% Cost Estimate	5	\$	1,120		\$	-	6	\$	750	\$	-	\$	-	\$	1,870		
1.1.4.3 95% Construction Documents Review Meeting & Responses	6	\$	840	1	\$	285	7	\$	845	\$	-	\$	-	\$	1,970		
1.1.5 Building Department Permit Application	16	\$	2,240		\$	-		\$	-	\$	-	\$	-	\$	2,240		
1.1.6 Diesel Tank Permitting	16	\$	2,240		\$	-		\$	-	\$	-	\$	-	\$	2,240		
1.1.7 100% Construction Documents																	
1.1.7.1 Adjust Design in Event of Changes to Site Plan	2	\$	280		\$	-	4	\$	277	\$	-	\$	-	\$	557		
1.1.7.3 Produce 100% Construction Documents	4	\$	560		\$	50	4	\$	400	\$	258	\$	-	\$	1,268		
1.1.7.5 Update Project Schedule	4	\$	560		\$	-		\$	-	\$	-	\$	-	\$	560		
2 Procurement Phase																	
2.1 Assist in Preparing Invitation to Bid	4	\$	3,360		\$	-		\$	-	\$	-	\$	-	\$	3,360		
2.2 Attend Pre-bid Conference and Site Visit	6	\$	840	1	\$	285	5	\$	625	\$	-	\$	-	\$	1,750		
2.3 Answer Questions / Addenda	9	\$	1,260		\$	-	11	\$	1,220	\$	-	\$	-	\$	2,480		
2.5 Review Bids	4	\$	560		\$	-		\$	-	\$	-	\$	-	\$	560		
2.6 Assist in protest	2	\$	1,120		\$	-		\$	-	\$	-	\$	-	\$	1,120		
Subtotal:	271	\$	42,980	5	\$	1,625	245.5	\$	24,770	\$	708	\$	16,900	\$	89,983		

	OCG				JLRD			Wood	Pate		Total	
	Hours	\$ 140	On Site (Trips)	Expenses (\$285 per diem)	Hours		Expenses	Specialized Services	Hours	\$ 150		Specialized Services
3 Construction Administration Phase												
3.1 Submittal/Shop Drawings Review, Comment, Approve												
3.1.1 Tower Structural Plans	1	\$ 140		\$ -		\$ -	\$ -	\$ -		\$ -	\$ 3,250	\$ 3,390
3.1.2 Shelter Design	24	\$ 3,360		\$ -	4	\$ 494	\$ -	\$ -		\$ -	\$ -	\$ 3,854
3.1.3 Foundations	0.5	\$ 70		\$ -		\$ -	\$ -	\$ -		\$ -	\$ 850	\$ 920
3.1.4 Grounding	4	\$ 560		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 560
3.1.5 Generator/Fuel Tank	1	\$ 140		\$ -	4	\$ 466	\$ -	\$ -		\$ -	\$ -	\$ 606
3.1.6 Electrical	1	\$ 140		\$ -	4	\$ 466	\$ -	\$ -		\$ -	\$ -	\$ 606
3.1.7 UPS	1	\$ 140		\$ -	3	\$ 349	\$ -	\$ -		\$ -	\$ -	\$ 489
3.1.8 Fencing and Compound	1	\$ 140		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 140
3.1.9 Concrete Design Mix Density Verification	1	\$ 140		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 140
3.2 Construction Tasks												
3.2.1 Site Prep												
3.2.1.1 Staking and Grading (Inspect)	4	\$ 560	1	\$ 285		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 845
3.2.1.2 Access, Parking, Staging (Inspect)	2	\$ 280		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 280
3.2.1.3 Utility Connection Conduit/Cable Installation (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.1.4 Communications Conduit/Cable Installation (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.2. Tower Erection												
3.2.2.1 Foundation Drill (Inspect)		\$ -		\$ -		\$ -	\$ -	\$ -	3	\$ 450	\$ -	\$ 450
3.2.2.2 Foundation Place Concrete (Observe)	1	\$ 140		\$ -		\$ -	\$ -	\$ -	37	\$ 5,550	\$ -	\$ 5,690
3.2.2.3 Concrete Cure and Test	2	\$ 280		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 280
3.2.2.4 Tower Assembly (Monitor, File FAA)	4	\$ 560		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 560
3.2.2.5 Tower Inspection	1	\$ 140		\$ -		\$ -	\$ -	\$ -		\$ -	\$ 4,750	\$ 4,890
3.2.3 Shelter Installation												
3.2.3.1 Inspection at Manufacturer (Inspect)	8	\$ 1,120	1	\$ 1,270		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 2,390
3.2.3.2 Shelter and Generator Foundation (Inspect)	1	\$ 560		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 560
3.2.3.3 Shelter Installation (Observe)	6	\$ 840	1	\$ 285		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 1,125
3.2.3.4 Ice Bridge Installation (Inspect)	0.5	\$ 70		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 70
3.2.3.5 Shelter Inspection and Testing (Inspect)	8	\$ 1,120	1	\$ 285	8	\$ 955	\$ -	\$ -		\$ -	\$ -	\$ 2,360
3.2.4 Electric Utility												
3.2.4.1 Set Transformer Pad and Electrical Service (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.4.2 Set Transformer and Meter (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.4.3 Connect Utility to Transformer (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.4.4 Electrical Inspection (Observe)	1	\$ 140		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 765
3.2.4.5 Connection of Electrical to Shelter (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.5 Generator and Fuel tank												
3.2.5.1 Generator and Fuel Tank Installation (Inspect)		\$ -		\$ -	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 625
3.2.5.2 Generator and Fuel Tank Inspection and Testing (Inspect)	0.5	\$ 70		\$ -	6	\$ 735	\$ -	\$ -		\$ -	\$ -	\$ 805
3.2.6 Site Grounding												
3.2.6.1 Grounding Inspection and Testing (Inspect)	6	\$ 840	1	\$ 285		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 1,125
3.2.7 Compound												
3.2.7.1 Fencing (Inspect)	1	\$ 140	1	\$ 285		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 425
3.2.7.2 Fence Grounding (Inspect)	1	\$ 140		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 140
3.2.7.3 Weed Fabric / Gravel (Inspect)	0.5	\$ 70		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 70
3.2.8 Final Ground Test (Observe)	0.5	\$ 70		\$ -	4	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 695

	OCG				JLRD			Wood	Pate			Total
	Hours	\$ 140	On Site (Trips)	Expenses (\$285 per diem)	Hours		Expenses	Specialized Services	Hours	\$ 150	Specialized Services	
3.3. Closeout												
3.3.1 Substantial Completion and Punchlist Items (Inspect)	8	\$ 1,120	1	\$ 285	6	\$ 735	\$ -	\$ -		\$ -	\$ -	\$ 2,140
3.3.2 Final Inspection (Inspect)	6	\$ 840	1	\$ 285	5	\$ 625	\$ -	\$ -		\$ -	\$ -	\$ 1,750
3.3.3 As-Builts	24	\$ 3,360		\$ -	12	\$ 920	\$ -	\$ 650		\$ -	\$ -	\$ 4,930
3.3.4 Close-out Documentation	15	\$ 2,100		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 2,100
Subtotal:	135.5	\$ 19,390	8	\$ 3,265	96	\$ 11,370	\$ -	\$ 650	40	\$ 6,000	\$ 8,850	\$ 49,525
4 Project Administration												
4.1 Project Oversight and Change Management												
4.1.1 Design and Procurement Phases	8	\$ 1,120			2	\$ 360	\$ -	\$ -		\$ -	\$ -	\$ 1,480
4.1.1 Construction Phase	80	\$ 11,200	1	\$ 285	10	\$ 1,800	\$ -	\$ -		\$ -	\$ -	\$ 13,285
4.2 Project Progress Reports and Teleconferences												
4.2.1 Design and Procurement Phases	8	\$ 1,120		\$ -	1	\$ 125		\$ -		\$ -	\$ -	\$ 1,245
4.2.1 Construction Phase	32	\$ 4,480		\$ -	4	\$ 500		\$ -		\$ -	\$ -	\$ 4,980
4.3 Payment Application Reviews (Construction Phase)	20	\$ 2,800		\$ -		\$ -	\$ -	\$ -		\$ -	\$ -	\$ 2,800
Subtotal:	148	\$ 20,720	1	\$ 285	17	\$ 2,785	\$ -	\$ -	0	\$ -	\$ -	\$ 23,790
Design and Procurement Phase Total:	287	\$ 45,220	5	\$ 1,625	248.5	\$ 25,255	\$ 708	\$ 16,900	0	\$ -	\$ 3,000	\$ 92,708
Construction Phase Total:	267.5	\$ 37,870	9	\$ 3,550	110	\$ 13,670	\$ -	\$ 650	40	\$ 6,000	\$ 8,850	\$ 70,590
Totals:	554.5	\$ 83,090	14	\$ 5,175	358.5	\$ 38,925	\$ 708	\$ 17,550	40	\$ 6,000	\$ 11,850	\$ 163,298

SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE PARTICIPATION

PROJECT NAME: Glades Road Tower Construction Project PROJECT NO: 18224
 NAME OF PRIME CONSULTANT: Omnicom Consulting Group, Inc.

THIS DOCUMENT IS TO BE COMPLETED BY THE PRIME CONSULTANT AND SUBMITTED WITH PROPOSAL. PLEASE LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE -M/WBE SUBCONSULTANTS ON THIS PROJECT. IF THE PRIME IS AN SBE-M/WBE, ALSO LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT 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 FORCES.

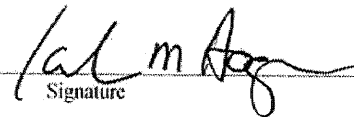
Name	(Check one or both Categories)		DOLLAR AMOUNT OF PERCENTAGE OF WORK				
	M/WBE Minority Business	SBE Small Business	Black	Hispanic	Woman	Caucasian	Other (Please Specify)
1. JLRD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ 39,633.00	\$ _____
2. John Wood Group	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
3. Pate Engineering	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
4.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
5.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

(Please use additional sheets if necessary)

Total Price \$ 163,298.00

Total SBE-M/WBE Participation Dollar Amount or Percentage of Work: \$39,633.00

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


Signature

Vice President
Title

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



JOHNSON, LEVINSON,
RAGAN, DAVILA, INC.
CONSULTING ENGINEERS
1450 Centrepark Boulevard, Suite 350
West Palm Beach, FL 33401
(561) 689-2303 • (561) 689-2302 Fax
www.jlrdinc.com

PROPOSAL

TO:	John Hogan	FIRM:	Omnicom Consultant Group
PROJECT:	PBC Glades Road Tower	RE:	Engineering Services – ME&FP
FROM:	Charles Gableman, P.E.	DATE:	February 24, 2019 Rev. 1: March 5, 2019 Rev. 2: March 15, 2019

John,

Our fee for providing Mechanical and Electrical engineering design services on the above referenced project will be **\$39,633**. The scope as we understand it is based upon your email, dated 2-12-2019, with attachments would include the following:

- Electrical Design to be consistent with other PBC radio equipment shelters, to include:
 - H-Frame Rack for mounting of meter and panel(s).
 - 150 KVA diesel generator with 1,000-gallon fuel tank. Permitting of tank by others.
 - Automatic and Manual transfer switches with external generator port.
 - 80 KVA UPS with bypass switch and power distribution panels
 - Shelter electrical
 - Lighting
 - Provide electrical design services for connection of proposed HVAC equipment. It is assumed the existing distribution system has sufficient capacity to accommodate additional loading with upgrade of the service entrance equipment or generator.
- Mechanical design to be consistent with other PBC radio equipment shelters, to include:
 - Two wall mounted 'Bard' type units. Units to be configured in lead / lag operation with manufacturer's controller.
- Fire Protection design to be a standard wet pipe system. Construction documents (drawings and specifications) shall reflect a performance based approach. JLRD shall coordinate with Civil regarding the water service location, extended to within 5'-0" of the building.

- Exclusions:
 - Plumbing design services are not required and therefore not provided.
 - Redesign based on Value Engineering following the 50% submittal.
 - Its understood the shelter is a prefabricated building which will have all the bulkheads, lightning protection, grounding/bonding systems, etc. and therefore this scope is excluded.
 - Any work exterior to the building (antenna and related cabling, supports, fencing/bonding, access control of gates, CCTV, IDS, etc.) other than the electrical service entrance, generator, fuel tank, and building mounted lighting.
- ROM Cost Estimating provided at SD, 50% CD, 95% CD, and 100% submissions.
- Four Meetings during the design phase.
- Services for bidding assistance, shop drawing review, Fourteen construction observations, and recording in CAD format the contractor's as-built documents is included.
- Project specifications will be provided in book format.

Should we be retained to do the work, I would provide a copy of our standard agreement for a contract between our firms. If you have any questions, please call me.

Sincerely,



Charles C. Gableman, P.E., LEED AP
President
JLRD, Inc.

Sent via Email
jhogan@ocg-usa.com

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

This document must be completed by ALL SBE-M/WBE's and submitted with this 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's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: _____ PROJECT NAME: PBC Glades Road Tower

TO: Omnicom Consulting Group, Inc.
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a - (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: June 26, 2018 to June 25, 2021

The undersigned is prepared to perform the following described work in connection with the above project. Additional Sheets May Be Used As Necessary

Line Item/ Lot No.	Item Description	Qty/Units	Unit Price	Total Price/ Percentage
<u>1</u>	<u>Professional MEP Engineering Services</u>	<u>1</u>	<u>\$39,633.00</u>	<u>\$39,633.00</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

at the following price or percentage \$ 39,633.00
(SBE Prime or Subconsultant's Quote)

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

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE Subconsultant, please list the name of that Subconsultant and the amount below.

Price or Percentage N/A N/A
(Name of Subconsultant)

The Prime affirms that it will monitor the **SBE-M/WBE** listed to ensure the **SBE-M/WBE** perform the work with their own work force. The undersigned **SBE-M/WBE** Prime or **SBE-M/WBE** Subconsultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE Subconsultants except as noted above.

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

Johnson, Levinson, Ragan, Davila, Inc.
Print name of
SBE-M/WBE Company
Charles C. Gableman
By: _____
(Signature)
Charles Gableman / President
Print name/title of person executing on behalf
of **SBE-M/WBE**

Revised 7/2/2013

Date: 3-15-19

**PBC - Glades Road Tower
Design and CA-Rev 2**

LABOR BREAKDOWN													
TASK	HOURS												
	Sr. ENGR		PE		ENGR		Sr. DSN		Designer		CAD	SEC	
BASIC DESIGN	M	E	M	E	M	E	M	E	M	E			
General													
PROJECT ADMIN (12 wks @ 1 HRS)	2	10											
Field Work													
Kick-off Meeting / Site Visit / FPL				4									
Analysis / Design													
Review Existing Documents				2									
Verification of Existing Elect Loads				4									
Generator Starting Analysis						6							
Fault Study						6							
Mechanical Load calculations				2									
Coordination with Civil						1						1	
Review Meetings													
3 Meetings				12		6							3
Drawings													
M-1 Legend, Notes, Schedules						1							2
M-2 Mech Floor Plans - New Work						4							6
M-3 Control Schematics, Details	1					3							6
E-1 Legend, Notes								1					2
E-2 Elect Site Plan				2		4							6
E-3 Elect Floor Plans - New Work				2		5							8
E-4 One-Line Diagrams				4									6
E-5 Riser Diagrams				4									6
E-6 Schedules								4					4
E-7 Panelboard Schedules								4					4
E-8 Details						1		1	4				4
E-9 Details						0.5		1	4				4
FP-1 Legend, Notes, Details						1							2
FP-2 Floor Plan						4							6
Specifications				4		3							5
Checking	2	3											7
Incorporate Comments				4		2							4
BASIC DESIGN SUBTOTAL (Sheet)	5.0	13.0	0.0	44.0	26.5	30.0	2.0	8.0	0.0	0.0	78.0	8.0	

**PBC - Glades Road Tower
Design and CA-Rev 2**

LABOR BREAKDOWN													
TASK	HOURS												
	Sr. ENGR		PE		ENGR		Sr. DSN		Designer		CAD	SEC	
BASIC DESIGN	M	E	M	E	M	E	M	E	M	E			
<i>Other Items:</i>													
DMS Curve - Non Basic Services													
Measured Drwgs of Existing Services													
LEED Consultation													
Life Cycle Costs													
Existing Site Utility Infrastr. Improvements				4									
Site Lighting Design													
Specialty Consultant/Services:													
- Voice/Data Comm													
- Assisted Listening													
- Public Address													
- Access Control													
- CCTV Monitoring System Relocation													
Cost Estimating			4	12								6	
Alternate Bids/Multiple Constr. Contract													
Record Drawings					1	3						8	
Additional C/A Participation													
BASIC DESIGN SUBTOTAL	5.0	13.0	4.0	60.0	27.5	33.0	2.0	8.0	0.0	0.0	92.0	8.0	
CONSTRUCTION ADMIN													
SHOP DRAWINGS			3	8									4
PRE-BID				4									1
BIDDING SERVICES (RFIs)			2	2	2	3							2
PRE-CONSTRUCTION				4									1
FIELD OBSERVATIONS - 12 Visit				48	4								12
SUBSTANTIAL - 1 Visit				4	1								1
SUBTOTALS													
LABOR BASIC DESIGN	5	13	4	60	28	33	2	8	0	0	92	8	
LABOR CONSTRUCTION ADMIN	0	0	5	70	7	3	0	0	0	0	0	21	
JLRD DIRECT LABOR	5.0	13.0	9.0	####	34.5	36.0	2.0	8.0	0.0	0.0	92.0	29.0	

**PBC - Glades Road Tower
Design and CA-Rev 2**

LABOR BREAKDOWN						
<i>TASK</i>	<i>HOURS</i>					
LABOR COST		HRS			RATE	COST
Sr. Mechanical Engineer (Principal)		5.0			\$ 180.00	\$ 900
Sr. Electrical Engineer (Principal)		13.0			\$ 180.00	\$ 2,340
Mechanical Engineer - PE		9.0			\$ 145.00	\$ 1,305
Electrical Engineer - PE		130.0			\$ 145.00	\$ 18,850
Mechanical Engineer		34.5			\$ 110.00	\$ 3,795
Electrical Engineer		36.0			\$ 110.00	\$ 3,960
Sr. Mechanical Designer		2.0			\$ 95.00	\$ 190
Sr. Electrical Designer		8.0			\$ 95.00	\$ 760
Mechanical Designer		0.0			\$ 80.00	\$ -
Electrical Designer		0.0			\$ 80.00	\$ -
						\$ -
Cadd Draftsman		92.0			\$ 60.00	\$ 5,520
Secretarial		29.0			\$ 45.00	\$ 1,305
JLRD LABOR COSTS						\$ 38,925
SUBCONTRACT						
None						
EXPENSES	Sheets	Copies	Submittals		\$/ea.	
Reproduction - Dwgs (24" x 36")	14	5	4		\$ 1.10	\$ 308
Reproduction - Specs (8.5" x 11")	200	5	4		\$ 0.10	\$ 400
SUMMARY						
JLRD DIRECT LABOR						\$ 38,925
SUBCONTRACT						\$ -
SUBCONTRACT MARKUP (10%)						\$ -
EXPENSES						\$ 708
TOTAL PROPOSAL (ROUNDED)						\$ 39,633



**PATE
ENGINEERING
INC.**

PROPOSAL

13540 N. Florida Ave., #203
Tampa, FL 33613
Phone: (813) 960-0002
Fax: (813) 264-2605
e-mail: pateeng@aol.com
www.pateengineering.com

To: Omnicom Consulting Group
Attn: Kenny Chen
e-mail: kchen@ocg-usa.com

Date: 2/22/2019
Project: Palm Beach County 400' Self-Supported Tower

Proposal No. **PR010-19**
WHEN ISSUING A PURCHASE ORDER, PLEASE REFER TO THIS PROPOSAL NO.

1. **Pate Engineering, Inc. proposes to furnish the following services for the above referenced project:**
- 1.1 Review the structural aspects of the Tower and Tower Foundation Design Specifications provided by the client. Provide suggestions on the development of these specifications.
 - 1.2 Review the tower drawings and calculations that are to be provided by the tower vendor for compliance with the specifications. Furnish a sealed report outlining the results of this review.
 - 1.3 Review the tower foundation drawings and calculations that are to be provided by the tower vendor for compliance with the specifications. Furnish a sealed report outlining the results of this review.
 - 1.4 Perform an inspection of the completed tower to verify it was erected in accordance with the approved tower drawings. Furnish a sealed report outlining the results of the inspection.

Pate Engineering endeavors to provide a safe climbing environment for our sub-contractors. If, at the climbers sole discretion, a tower is deemed unsafe, the tower will not be climbed. If during the ascension of a tower it is found unsafe to continue, the inspection will cease. If it is deemed unsafe to closely inspect an antenna, the inspection will be done from a safe position. When surveying a tower with high powered antennas, FM, TV, etc. it will be necessary for the power to be shut down or reduced to a safe level. Any expense incurred due to an unsafe condition of a tower will be billed on a time and material basis. If and when the tower is made safe, the tower will be reinspected at the per site rate.

2. **Services not included in this proposal:**

- 2.1 Copies of Calculations
- 2.2 Analysis or approval of the tower, tower foundations, antennas, antenna mounts, platforms, etc.
- 2.3 More than (1) review of the tower design (item 1.2)
- 2.4 More than (1) review of the foundation design (item 1.3)
- 2.5 More than (1) final inspection (item 1.4)
- 2.6 **Any inspection of the tower foundations (except what is above grade).**
- 2.7. Any inspection of items not associated with the tower.

3. **Our engineering fees for this project are:**

3.1	Item 1.1 (Review of Specifications)	\$ 3,000.00
3.2	Item 1.2 (Review of the Tower Drawings and Calculations)	\$ 3,250.00
3.3	Item 1.3 (Review of the Tower Foundation Drawings and Calculations)	\$ 850.00
3.4	Item 1.4 (Final Inspection of the Completed Tower)	\$ 4,750.00

	Total for items 1.1, 1.2, 1.3 and 1.4	\$11,850.00

Pate Engineering
Re: Our Proposal No. PR010-19
Page Two

Note: The above-stated fees are based on Pate Engineering's present insurance coverage. Any additional required coverage will be at the owner's expense.

All documents (drawings, specifications, reports) prepared by Pate Engineering, Inc. for this project are for use with this project only. Any other use is not allowed. All original documents will remain the property of Pate Engineering, Inc. They may not be reproduced without written permission of this office.

Invoicing will be on a monthly basis. Payment is due 30 days after invoice date unless stated otherwise. Pate Engineering may include a 1-1/2% charge per month from the invoice date on the unpaid balance of overdue invoices. Expenses incurred in the collection of the amounts due under this agreement, including a reasonable attorney's fee, are the Client's responsibility.

If you agree with the above outline, please sign and date one copy of this proposal and return to us. This proposal will be open for acceptance until 12/31/2019 unless changed by us in writing.

Pate Engineering, Inc.

By: Michael A. Hunter

Michael A. Hunter, P.E.

Accepted by: _____

Date _____

Print Name _____



**PATE
ENGINEERING
INC.**

PROPOSAL

13540 N. Florida Ave., #203
Tampa, FL 33613
Phone: (813) 960-0002
Fax: (813) 264-2605
e-mail: pateeng@aol.com
www.pateengineering.com

To: Omnicom Consulting Group
Attn: Kenny Chen
e-mail: kchen@ocg-usa.com

Date: 2/22/2019
Project: Palm Beach County 400' Self-Supported Tower
Proposal No. **PR010A-19**
WHEN ISSUING A PURCHASE ORDER, PLEASE REFER TO THIS PROPOSAL NO.

- 1. **Pate Engineering, Inc. proposes to furnish the following services for the above referenced project:**
 - 1.1 Perform an inspection(s) of the installation of the (3) proposed tower foundations. The reinforcing steel, diameter of the holes, depths of the foundations will be verified. Furnish a sealed report outlining the results of the inspection(s).
- 2. **Services not included in this proposal:**
 - 2.1 Copies of Calculations
 - 2.2 Analysis or approval of the tower foundations.
 - 2.3 **Verification of the exact placement of the anchor rods.**
 - 2.4 **Field or laboratory tests.** (Note: The foundation vendor will be responsible for taking and testing concrete cylinders.)
- 3. **Our engineering fees for this project are:**
 - 3.1 Item 1.1 (Inspection of the Tower Foundations) - Hourly Rate \$ 150.00 / Hour

Note: This process could potentially require 60 hours (\$9,000.00). This is only an estimate, the proposal for this service is on a per hour basis (hourly rate includes all expenses).

Note: The above-stated fees are based on Pate Engineering's present insurance coverage. Any additional required coverage will be at the owner's expense.

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If you agree with the above outline, please sign and date one copy of this proposal and return to us. This proposal will be open for acceptance until 12/31/2019 unless changed by us in writing.

Pate Engineering, Inc.

By: Michael A. Hunter

Michael A. Hunter, P.E.

Accepted by: _____

Date _____

Print Name _____