

PROJECT NO. 20-8532

**DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR
BACKUP ELECTRICAL POWER GENERATORS FOR SEWER LIFT
STATIONS ; E-01, E-03, E-06, W-14, W-15 & STORMWATER PUMP
STATION SW-08**



SGM
ENGINEERING
May 28th, 2020



COVER PAGE

Request for Statement of Qualifications Proposal Subject

Design & Construction Administration Services for Backup
Electrical Power Generators for Sewer Lift Stations; E-01,
E-03, E-06, W-14, W-15 & Stormwater Pump Station SW-08
at City of Hollywood

Project Number: 20-8532

Firm Name & Address

SGM Engineering, Inc
1 E. Broward Blvd. Suite 1503
Fort Lauderdale, FL 33301

Firm Contact

Tony Shahnami, President
Telephone: (954) 421-1944
Email: tony@sgmengineering.com

Date:

May 28, 2020

THIS SHEET MUST BE SIGNED

RESPONDENT CHECK LIST

I M P O R T A N T: Please read carefully, sign in the spaces indicated and return with your Submittal.

Respondent should check off each of the following items as the necessary action is completed:

1. The Submittal has been signed.
2. Any required descriptive literature, etc. have been included.
3. Any information required is included.
4. Any addenda have been signed and included.
5. The mailing envelope has been addressed to:
Office of the City Clerk
City of Hollywood
P.O. Box 229045.
Hollywood, FL 33022-9045
6. The mailing envelope must be sealed and marked with Submittal Number, Submittal Title and Due date.
7. The Submittal will be mailed or delivered in time to be received no later than the specified due date and time. Otherwise Submittal cannot be considered.)
8. Submittal includes:
 - a) Statement of current and projected workload
 - b) List of sub-consultants
 - c) Auditor's letter
 - d) Organizational chart
 - e) Litigation
 - f) Project schedule

ALL COURIER-DELIVERED STATEMENTS OF QUALIFICATIONS MUST HAVE THE RFQ NUMBER AND TITLE ON THE OUTSIDE OF THE COURIER PACKET

Company Name:

SGM Engineering, Inc.

Signature and Title:



President

Date:

05/27/2020

PROJECT SUBMITTAL

FROM: SGM Engineering, Inc.
1 E. Broward Blvd. Suite 1503
Fort Lauderdale, FL 33301

DATE: 05/27/2020

CITY OF HOLLYWOOD
Department of Public Utilities
c/o City Clerk
2600 Hollywood Blvd.
Hollywood, FL 33022-9045

RE: RFQ NO. 20-8532

To Whom It May Concern:

The undersigned, as Respondent, hereby declares that we have examined the Scope of Services and informed ourselves fully in regard to all conditions pertaining to the work to be done for the City of Hollywood's Consulting Services Contract – Wastewater Master Plan Update. The Respondent further declares that the only persons, company or parties interested in this Submittal or the Contract to be entered into as principals are named herein; that this Submittal is made without connection with any other person, company or companies making a Submittal; and it is in all respects fair and in good faith, without collusion or fraud.

The service to be furnished by us is hereby declared and guaranteed to be in conformance with the specifications of the City.

The undersigned agrees that should this Submittal be accepted, to execute the contract and present the same to the City for approval within twenty (20) days after being notified of the awarding of the contract.

The undersigned further agrees that failure to execute and deliver said forms of contract within twenty (20) days, will result in damages to the City.

IN WITNESS WHEREOF, I have hereunto subscribed my name on this
27th day of May, 2020, in the County of
Orange, in the state of Florida.

SGM Engineering, Inc.
Respondent's Firm or Trade Name

Corporation, Sole Proprietorship, Partnership (Circle One)

Phone No.: (954) 421-1944




Address 1 E. Browrd Blvd. Suite 1503

City and State Zip Fort Lauderdale, FL 33301

BY:  Ghulam (Tony) Shahnami
Typed and Written Signature

President
Title

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LETTER OF
TRANSMITTAL

Letter of Transmittal

May 28, 2020
City Clerk of City Hollywood
2600 Hollywood Blvd Room 221
Hollywood, FL 33020

RE: Design & Construction Administration Services for Backup Electrical Power Generators for Sewer Lift Stations; E-01, E-03, E-06, W-14, W-15 & Stormwater Pump Station SW-08 at City of Hollywood Project Number: 20-853

Dear Members of the Selection Committee,

SGM Engineering is pleased to present our qualifications for City of Hollywood's solicitation for Design & Construction Administration Services for Backup Electrical Power Generators for Sewer Lift Stations; E-01, E-03, E-06, W-14, W-15 & Stormwater Pump Station SW-08 at the City of Hollywood Project Number: 20-853. **SGM has always been utilized for our knowledge in the design and construction of emergency generators, especially with our 20+ generators designed during the 2018 laws complying with electric generators for nursing homes.** We were contacted by eight different owners for these generator designs.

Our firm was established in 1991 as a full services MEP design engineering services and an S Corporation chartered by the Florida Department of State. Today, we possess 29 years of experience with municipal contracts providing maintenance, remodeling, renovation, and construction of mechanical, electrical, plumbing, and fire protection systems.

SGM is familiar with FEMA guidelines, in September 2004, during Hurricane Frances, SGM was contacted by FEMA to design and supervise installation of generators in East Coast, Florida. The generators were installed 4 feet above finished floor, per 100 year-event. The generators were sized for 100% back-up and 72 Hour full-fuel capacity. We specialize in local government facilities and additionally offer construction administration and QA/QC services. We are confident that you will find our team to be knowledgeable and experienced, just as our track record has proven over the past 29 years. SGM supports the best interests of the City by ensuring that the project will be completed energy-efficiently, on time, within budget, and considering the safety of City staff. More than 90% of our workload is contracted through repeat clients, proving our dedication to meeting and exceeding the Owner's Project Requirements.

This project will comply with FEMA (Federal Agency) 500-year event, NFPA 110, NEC 700 and Fla Building Code Chapter 27. Those generators must be installed with NO interruption to existing operation. All the generators will be tested on a monthly basis for 1-1/2 Hr. duration.

Our team's thorough knowledge and experience in the field fully encompasses all aspects of Mechanical, Electrical, Plumbing, and Fire Protection Engineering. Below, we have outlined just some of the many areas of expertise our engineers possess in the MEP/FP disciplines.

Our project design approach would be as follows:

1. We understand Each generator will be able to transfer power to the building within 10 seconds
2. SGM will calculate the total KW power required for each facility. That requires a trend-log for the main panel to determine the maximum RLA (Running Load Amps) and required Voltage. SGM recommends 460V/ 3 phase generators
3. Test and verify status of each main breaker and disconnect-switch to make sure the switches will operate accordingly prior to electrical shutdowns. There is no room for second guessing
4. Absolute coordination with Capital Projects-PM, Facilities Management and Authority having jurisdiction over this project. Example: Determine if use of natural gas can be available for usage or use #2 fuel oil as a source for proposed generators
5. Coordinate with power company and making sure existing disconnect switches are working properly. There can be NO interruption
6. Safety and security of occupants, especially during construction phasing, including ARC-FLASH verification and compliance
7. Maintenance friendly system with 5 years- extended warranty on all major equipment
8. Ability to respond during construction for any unforeseen conditions
9. SGM's staff will conduct a complete assessment of existing system, issue a report identifying all items associated with building operational system, and how existing system must stay functional while new generators are being installed
10. Close out documents will include owner's warranty manual, as-build drawings, certificate of completion, test & balance report and final commissioning report
11. Coordination with Project Manager for any paperwork relating to Grant Money and its compliance

ELECTRICAL: SGM's Electrical Engineers are skilled in the design of medium and low-voltage AC power systems, uninterruptable power systems, computer power conditioning, grounding, lightning protection, lighting, emergency power, hazardous area electrical installations, control and monitoring systems, security installation to mass public densities, CCTV, CATV, fire alarm and detection systems, voice evacuation, cable tray systems, communications systems, communications premise wiring, electronic security systems (ESS), and intercom systems designed/installed per national and local codes.

MECHANICAL: SGM's Mechanical Engineers have experience in the design of mechanical systems including, but not limited to, fire protection systems, all types and sizes of HVAC systems, high temperature hot water boilers, piping, fluid systems, chilled water, compressed gas systems, elevators, hoists and cranes, specialized mechanical equipment, direct digital controls (DDC), and programmable logic controllers (PLC), as well as facilities to house the mechanical equipment.

PLUMBING/FP: SGM's Plumbing Engineers have the ability to design domestic water systems, hot water return systems, equipment and fixture identification, sanitary drainage systems, storm drainage piping, liquid propane/natural gas systems, and boilers. Our fire protection areas of expertise include fire suppression requirements (light, ordinary, and extra hazard classifications); wet, dry, deluge and pre-action systems; backflow prevention and metering specifications; and fire flow tests (static, residual, and flow).

WHY SGM?

- Over 300 similar electrical projects for Florida municipalities from the panhandle down to the Florida Keys
- In depth knowledge of FEMA and its guidelines relating to emergency generators especially for Florida Climate
- Offices in Orlando and Fort Lauderdale with over 40 designers and engineers available
- Ability to perform power study before construction, that includes coordination with power company for nearest switchgear, transformer and shutdowns
- 29 years' experience with City, County, and State Municipalities

SGM's Electrical Engineers are skilled in the design of:

- 460 Volts , 4160 Volts and 12KVA power distribution system
- Voltage drop calculations
- Sizing MDP, proper grounding and lightning protection
- Back-up Generators

SGM electrical engineers will conduct a kick off meeting to understand the scope of work by visiting the site and learn more about owner's requirement. That includes:

1. Reviewing all the current and future electrical load coming from switchgear, transformers and MDP (Main Distribution Panels)
2. Implement the Arc Flash procedure on all existing electrical panels- MDP and Branch Panels
3. Voltage drop calculation for per wire sizing
4. Proper verification for grounding and lightning protection
5. Provide construction design documents for review and approval
6. Assist Project manager through bidding, permitting, construction administration and final closing

Our engineers also have experience with design replacements including new switchgear, manholes, SF6 mounted transformers, concrete encased duct banks and lighting. SGM is adept at minimizing the effects of outages on critical facilities by working nights/weekends or other "off" times.

Those persons authorized to make representations for SGM Engineering include: Manuel Hernandez, PE- Project Manager/ Electrical Department Manager and Tony Shahnami, PE, CxA, CES, CHS-III- Principal-in-Charge- 1 E. Broward Blvd. Suite 1503 Fort Lauderdale, FL 33301- Tel: (954) 421-1944

We greatly appreciate your time and consideration, and we look forward to hearing back from the City of Hollywood in the upcoming weeks.

Sincerely,



Tony Shahnami, PE, CxA, CES, CHS-III, President, SGM Engineering, Inc

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SUBMITTAL
QUESTIONNAIRE

Attachment A

**PROFESSIONAL ENGINEERING SERVICES
FOR
DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP
ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS; E-01, E-03, E-
06, W-14, W-15 & STORMWATER PUMP STATION SW-08**

SUBMITTAL QUESTIONNAIRE

ENGINEERING SERVICES QUALIFICATION STATEMENT
AND SUBMITTAL QUESTIONNAIRE

PROJECT NAME: **PROFESSIONAL ENGINEERING SERVICES
DESIGN AND CONSTRUCTION ADMINISTRATION
SERVICES FOR BACKUP ELECTRICAL POWER
GENERATORS FOR SEWER LIFT STATIONS; E-01, E-
03, E-06, W-14, W-15 & STORMWATER PUMP STATION
SW-08**

PROJECT NO.: **20-8532**

1. FIRM NAME & OFFICE LOCATION (Mailing Address and Street Address)

Name: SGM Engineering, Inc.

Mailing Address:

Street/PO

Box 1 E. Broward Blvd. Suite 1503

City Fort Lauderdale **State** FL **Zip** 33301

Physical Address (if different from above):

Street _____

City _____ **State** _____ **Zip** _____

Phone (954) 421 - 1944 Ext _____ Fax () -

Primary E-Mail

Address: tony@sgmengineering.com

Web Site

Address: www.sgmengineering.com

Contacts:

1. Name: Tony Shahnami Title: President

2. Name: _____ Title: _____

2. TYPE OF ORGANIZATION

A. Check One:

☒ Corporation (complete Section B and G)

☐ Sole Proprietorship (complete Section D)

☐ Other (complete Section F and G)

☐ Partnership (complete Section C and G)

☐ Joint Venture (complete Section E and G)

B. If a Corporation, State incorporated:

Date of
Incorporation: December 17, 1991

State in which
Incorporated: Florida

If an out-of-state corporation that is currently
authorized to do business in the State of Florida, give
the date of such authorization: _____

Name and Titles of Principal Officers	Date Elected
<u>Ghulam (Tony) Shahnami</u>	<u>12/19/1991</u>
_____	_____
_____	_____

C. If a Partnership, State formed:

Date of
Partnership: _____

Type of Partnership (General or
Limited): _____

Names and Addresses of Partners: _____

D. If Joint Venture, State formed:

Date of Joint
Ventureship: _____

Names and Addresses of Joint Venturers: _____

E. If a Sole Proprietorship, State created:

Name and Address of Sole Proprietor: _____

F. If other than above, please describe:

G. a. Related Parent Company, Divisions, and Subsidiaries:
(Attach additional information on other office locations, if appropriate)

None

SGM Engineering has no Divisions or Subsidiaries

Please attach the following:

- b. Corporate Organization Chart
- c. Resumes of Principal Staff
- d. Corporate Family Tree
- e. Company Brochure/Annual Report

3. EMPLOYEES AND PERSONNEL Provide a separate listing for personnel at the corporate (national) level, with the state (Florida) level and for the local office.

Permanent Office Staff	Number	Avg. Years With Firm		
		1-5	5-10	10+
Administrative	2		X	
Project Management	7			X
Engineers	7			X
Design/Drafting	23		X	
Computer Services	n/a			

Permanent Office Staff	Number	Avg. Years With Firm		
		1-5	5-10	10+
Clerical /Technicians	2	X		
Procurement	2		X	
Project Control and Estimating	2		X	
Construction Management	3		X	
Research and Development	2		X	

Local Office Location:

1. E Broward Blvd, Suite 1503, Fort Lauderdale, FL 33301

Personnel in Organization by Discipline.

Discipline	Engineers		Designers
	Reg	Total	Total
Civil			
Sanitary			
Structural			
Mechanical	X	4	10
HVAC	X	4	10
Process			
Electrical	X	3	15
Instrumentation			
Industrial			

Discipline (<i>Procurement</i>)	Personnel
Capital Equipment Buyers	_____
Subcontract Administrators	<u>1</u>
Bulk Material Buyers	_____
Inspection/Expediting	_____
Clerical/Technical Support	<u>1</u>

Discipline (<i>Construction Management</i>)	Personnel
Field Superintendents	<u>1</u>
Home Office Management	_____
Planners (Site, City, Community)	_____
Architects	_____
Other	<u>1</u>

Maximum Man-Hours Available Per Year: 69,888

Current Estimated Man-Hours Per Year: 24,460

4. FINANCIAL INFORMATION

A. Attach a copy of current audited income statement and balance sheet.

5. WORK EXPERIENCE:

A. Types of Services Provided (Check Yes or No)

	Yes	No		Yes	No
Feasibility Studies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stress Analysis*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Drawings					
Preparation of Specifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pipeline	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction Mgmt. Services	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Surveying	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Process Problem Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Direct Hire Field Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Energy Conservation Studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Detailed Instrumentation & Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Soil and Foundation Studies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Process Design	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Foundation Design	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Equipment Design	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Structural Design	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Detailed Electrical	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Testing Capability	<input type="checkbox"/>	<input type="checkbox"/>	Detailed Piping Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Detailed Mechanical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Construction Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Procurement ☐ ☒ Inspection/Expediting ☐ ☒

B. Drafting Method Utilized:

*Manual ☐ Computer ☒ If Computer, What
Program:

AutoCad & Revit 2016, 2017,
2018, 2019, 2020

C. Please attach summaries for projects, related to the type of work to be awarded as a result of this submittal, completed by your firms including:

- 1) Location of project and client
- 2) Description of project
- 3) Your scope of involvement in project
- 4) Contract type (e.g. reimbursable/fixed fee/fixed price)
- 5) Approximate value of contract
- 6) Duration of work
- 7) Project Manager Utilized

6. EXPERIENCE WITH THE CITY OF HOLLYWOOD

**A. Most Recent City of Hollywood Work Experience:
(Date/Location/Description)**

December 9, 2014- North Beach -Mechanical, and Electrical engineering services for design
for installation for 12 pole mounted CCTV cameras located along N. Surf Road
from Forrest Street to Perry Street.

February 09, 2015- Hollywood Beach Community Center- Mechanical & Electrical
Engineering Services design for replacement of 5 water service heat pumps at Hollywood
Beach Community Center at 131 S. Ocean Drive (A1A)

**B. Current City of Hollywood Engineering services agreement, if any:
(Agreement Number/Expiration Date/Location/Description)**

N/A

7. SUBCONTRACTED SERVICES:

List Subcontractor/ Sub-consultant firms expected to be utilized, and their portion of the work below:

Name of Firm	Area of work to be Performed under this agreement
Saltz Michelson	Architecture
Miller Legg	Civil/Utility Engineering & Topographical Survey
Bliss & Nyitray, Inc. (BNI)	Structural Engineering

Also, provide resumes of individuals from these firms whom the Subcontractors shall utilize for completion of the construction.

Identify those subcontractors that are Minority/Women's Business Enterprises and repeat required information in "Minority/Woman Business Participation", below for said Subcontractors. (THIS REQUIREMENT FOR M/WBE INFORMATION IS VOLUNTARY)

8. BUSINESS SIZE AND CLASSIFICATION

A. Size (check one)

☒ Small

A domestic concern that normally employs less than 500 persons, or as defined by section 3 of the Small Business Act.

☐ Large

A domestic concern which, including domestic and foreign divisions and affiliates, normally employs 500 or more persons, is independently or publicly owned or controlled and operated and

which may be a division of another domestic or foreign concern.

f. B. Classification (check where applicable; may be more than one)

☐ Foreign:

A concern which is not incorporated in the United States or an unincorporated concern having its principal place of business outside the United States.

☒ Minority:

A business, at least 50% of which is owned by minority group members, or, in case of publicly owned businesses, at least 51% of the stock of which is owned by minority group members. For the purpose of this definition, minority group members are Black-Americans, Hispanic-Americans, American-Orientals, American-Indians, American-Eskimos, and American-Aleuts.

(THE REQUIREMENT FOR M/WBE INFORMATION IS VOLUNTARY)

☐ Women:

A business that is at least 51% owned and controlled by a woman or women.
(THE REQUIREMENT FOR M/WBE INFORMATION IS VOLUNTARY)

☐ Nonprofit:

A business or organization that has received nonprofit status under IRS Regulation 501C3.

☐ Sheltered:

A sheltered workshop or other equivalent business basically employing the handicapped.

Please indicate in the space below how your firm complies with the definitions selected above.

American-Oriental

9. PROFESSIONAL ENGINEER'S LICENSE:

Respondent must hold a valid State of Florida Professional Engineer's License to be considered a qualified bidder.

State of Florida Professional Engineer's License

No.:

CA6208

Date: February 28, 2021

Primary

Classification:

Professional Engineer

10. QUALIFICATION FORM PREPARED BY:

Name (print or type): Ghulam (Tony) Shahnami

Title: President

Signature: 

Address: 1 E. Broward Blvd. Suite 1503 Fort Lauderdale, FL 33301

Telephone Number: 954-421-1944

Personnel

Organizational Chart



Tony Shahnami, PE,
CxA, CES, CHS- III
Principal in Charge



Manuel Hernandez
PE
Project Manager



Justin Mundell
PE, RCDD
Sr. Electrical
Engineer



Mark Escott
PE, LEED AP
Senior Electrical
Engineer



Scott Daily
Sr. Electrical
Designer



Bobby Braun
Electrical
Designer



James Rogers
Electrical
Designer



Craig Thompson
Electrical
Designer

Additional SGM Electrical Designers

David Gonzales
Bobby Braun
Mark Brady
Sonny Nikolic

Amber Haley
Joel Wong
Emily O'Neill
Jeremy Neeley

SUB CONSULTANTS

Saltz Michelson
Architectue

BNI
Structural
Engineering

Miller Legg
Civil
Engineering

Tony Shahnami, PE, CxA, CES, **CHS-III**

Principal-in-Charge

PROFESSIONAL QUALIFICATIONS

- » Specializes in management, project development, and supervision of continuing professional service contracts
- » Experienced with grounding and lightning surveys for factories and industrial environments, and with a keen analytical focus, he is experienced in tariff management for both regulated and deregulated utility rates, associated distribution, and transmission infrastructures
- » With more than 39 years of local government design experience, Mr. Shahnami has expert knowledge of Florida standards, including state tariff structures

RELEVANT PROJECT EXPERIENCE

Orange County Regional Computing Center "A" Bus Electrical

Upgrade | Orange County | Principal In Charge | \$4M

This generator was designed per FEMA (Federal Agency) NFPA 110, NEC is 700 and Fla Building Code Chapter 27 to mitigate the damages that might occur during severe weather or other hazard.

Satellite Chiller Plant Generator Design | Florida International University | Principal In Charge | \$3.5 Million | 16,000 SF

Designed with (2) 1500-ton water-cooled chillers, (2) 1500-ton cooling towers, (3) variable frequency drive secondary chilled water pumps, (3) variable speed condenser water pumps, refrigeration monitoring system, and a complete web-based BACnet energy management system (EMS).

Orange County Corrections Health Services Generator | Orange County Government | Principal In Charge | \$500,000 | 15,000 SF

design and construction administrative services for a 200kW permanent standby generator and is intended to provide backup power to the facility during emergency operations.

The Golf Channel 500KW Generator Addition | The Golf Channel | Principal In Charge | \$2 Million | 17,000 SF

SGM was responsible for design of all associated lighting, power distribution, and load calculations. The renovation also included an employee fitness center, covered walkway connecting the two buildings, and 500KW Generator

Clearwater Gas Turbine Generator | City of Clearwater | Principal In Charge | \$250,000 | 1 Generator

SGM provided Electrical design for a 65kW Capstone Natural Gas Motobine generator, which included an integrator, control cabinet, and spare conduits. SGM coordinated with Duke Energy for optimal customer power generation. We also established relay and breaker settings for the implementation of generator into distribution.



YEARS OF EXPERIENCE:
39

YEARS WITH SGM:
29

EDUCATION:
University of Miami, BS in
Mechanical Engineering

REGISTRATIONS:
FL #41204-Mechanical-
registered in 37 other states,
ACG Certified Commissioning
Authority

SGM JOB TITLE:
Principal-in-Charge

Manuel Hernandez, PE

Project Manager

PROFESSIONAL QUALIFICATIONS

- » 12 years of experience designing generators for government facilities in Florida
- » His electrical experience includes calculating service sizes, feeder sizes, branch circuit sizes, short circuit currents, voltage drop, and performing short-circuit/arc flash/coordination studies and over-current protection device selection using specialized software
- » Experienced in the layout of equipment for floor plans, riser diagrams, fire alarm systems, telecommunication systems, HVAC-Plumbing-Fire Protection coordination, and survey

RELEVANT PROJECT EXPERIENCE

Satellite Chiller Plant Generator Design | Florida International University | \$2.95M
Designed with (2) 1500-ton water-cooled chillers, (2) 1500-ton cooling towers, (3) variable frequency drive secondary chilled water pumps, (3) variable speed condenser water pumps, refrigeration monitoring system, and a complete web-based BACnet energy management system (EMS).

Emergency Operation Generator | Florida International University | \$350,000
Provided design documents to replace the two existing 260 KW generators, with one new 550 KW generator; New design included exterior mounted generator radiators as is existing for the generators, and designed existing generator hot sink (tie) equipment to be removed from the room

Clearwater Gas Turbine Generator | City of Clearwater | \$250,000
SGM coordinated with Duke Energy for optimal customer power generation. We also established relay and breaker settings for the implementation of generator into distribution to the 65kW Capstone Natural Gas Motobine generator, which included an integrator, control cabinet, and spare conduits.

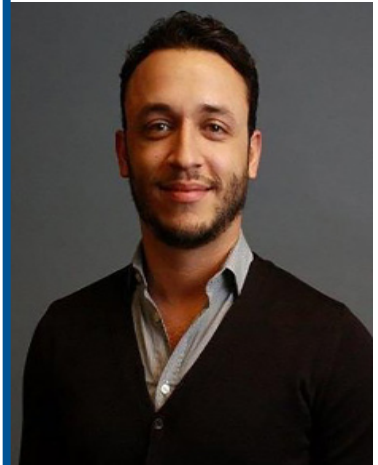
Jupiter Medical Emergency Generator Upgrade | Juniper Medical Center | \$225,000
evaluated building operations and made recommendations for modifying emergency back-up generator operation and maintenance procedures to provide for more economical operations.

Backup Data Center Design-Build | Central Florida Express Authority | Project Manager | \$1.2M
The facility has (2) 150kW natural gas generators for full redundancy, (2) 120kVA UPS's, (2) Computer room air conditioners (CRAC), an FM200 fire protection system, and hot aisle containment system.

OTHER GENERATOR EXPERIENCE

HCCC Lauderhill Generator Upgrade
Miami Lakes Generator Upgrade
Ocoee Health Care New Generator
Tarpon Point SNF Generator Upgrade

The Golf Channel 500KW Generator Addition
Orange County Corrections Health Services Generator
Plantation SNF Generator Upgrade



YEARS OF EXPERIENCE:
12

YEARS WITH SGM:
5

EDUCATION:
University of Puerto Rico,
BS in Electrical Engineering

REGISTRATIONS:
FL #4989-Electrical

SGM JOB TITLE:
Sr. Electrical Engineer

Justin Mundell, PE, RCDD

Sr. Electrical Engineer

PROFESSIONAL QUALIFICATIONS

- » 17 years experience with project management, scheduling, manpower loading, field coordination, change order estimating, technical assistance to field personnel, and project closeouts
- » Over 10 years experience drafting and designing power, lighting, and communications systems
- » Extensive experience working on Emergency Generators across the State of Florida with designs following FEMA, and Florida Building Codes

RELEVANT PROJECT EXPERIENCE

Plantation HVAC New Standby Generator | Heartland Health Care-Plantation, FL

Tarpon Point SNF Generator Upgrade | Pinnacle Health Facilities-Sarasota, FL

The Golf Channel 500KW Generator Addition | The Golf Channel

Orange County Regional Computing Center "A" Bus Electrical Upgrade | Orange County

Orange County Regional Computing Center "B" Bus Electrical Upgrade | Orange County

Orange County Fire Station #67 | Orange County Government

Backup Data Center Design-Build | Central Florida Express Authority | Project Manager

Orange County Corrections Health Services Generator | Orange County Government

Satellite Chiller Plant Generator Design | Florida International University

Emergency Operation Generator | Florida International University

Regan House Existing Generator Remediation | Florida International University

Emergency Generator Connection | City of Fort Lauderdale



YEARS OF EXPERIENCE:
17

YEARS WITH SGM:
12

EDUCATION:
University of Central Florida, BS
in Electrical Engineering

REGISTRATIONS:
Professional Engineer, FL
#70700
Registered Communications
Distribution Designer

SGM JOB TITLE:
Electrical Department Manager

Mark Escott, PE, CxA, LEED AP

Sr. Electrical Engineer

PROFESSIONAL QUALIFICATIONS

- » Currently working on generator projects for Orange County, City of Fortlauderdale, and multiple Healthcare Facilities in the State of Florida
- » Experienced in design of generators following FEMA and Florida Building Codes
- » Well-versed with conducting studies and analyses pertaining to Electrical Arc Flash, system coordination, and life cycle and cost economics for go/no-go decision making

RELEVANT PROJECT EXPERIENCE

Orange County Regional Computing Center “A” Bus Electrical Upgrade | Orange County Government

Orange County Regional Computing Center “B” Bus Electrical Upgrade | Orange County Government

Orange County Fire Station #67 | Orange County Government

Backup Data Center Design-Build | Central Florida Express Authority

Orange County Corrections Health Services Generator | Orange County Government

Orlando VA Center Generator Repair | City of Orlando

Orange County Courthouse Generator Controls Design | Orange County Government

The Golf Channel 500KW Generatory Addition | The Golf Channel

Community Center Generator Assessment | Orange County Government

Tarpon Point SNF Generator Upgrade | Pinnacle Health Facilities-Sarasota, FL

Lauderhill HVAC Generator Upgrade | Heartland Health Care-Lauderhill, FL

Emergency Operation Generator | Florida International University



YEARS OF EXPERIENCE:
29

YEARS WITH SGM:
14

EDUCATION:
University of South Florida, BS in
Electrical Engineering

REGISTRATIONS:
FL #50737- Electrical, ACG
Certified Commissioning
Authority, US Green Building
Council, LEED Accredited
Professional

SGM JOB TITLE:
Senior Electrical Engineer

Scott Daily

Electrical Designer

PROFESSIONAL QUALIFICATIONS

- » 23 years of experience as a Licensed Electrical Foreman and Project Manager for several electrical contracting firms in the State of Florida
- » Excels in estimating, project management, power/lighting design, and construction administration
- » Has been heavily involved in generator projects that require frequent interactions with clients, users, and contractors from a project's fruition to its completion

RELEVANT PROJECT EXPERIENCE

Orlando VA Center Generator Repair | City of Orlando

Orange County Courthouse Generator Controls Design | Orange County Government

The Golf Channel 500KW Generatory Addition | The Golf Channel

Backup Data Center Design-Build | Central Florida Express Authiorty

Orange County Fire Station #67 | Orange County Governme

Community Center Generator Assessment | Orange County Government

Emergency Operation Generator | Florida Internationl University

Regan House Existing Generator Remediation | Florida International University

Campus Health Services Backup Generator Assessment | Orange County Government

OSCA Generator Replacement | School District of Osceola County

Tarpon Point SNF Generator Upgrade | Pinnacle Health Facilities-Sarasota, FL

Courthouse Generator Controls Design | Orange County Government

Plantation HVAC New Standby Generator | Heartland Health Care-Plantation, FL



YEARS OF EXPERIENCE:
25

YEARS WITH SGM:
14

EDUCATION:
Naval Nuclear Field Electronics
Technician "A" School

REGISTRATIONS:
Licensed Electrical Journeyman

SGM JOB TITLE:
Electrical Engineer

Craig Thompson

Electrical Designer

PROFESSIONAL QUALIFICATIONS

- » 4 years of electrical experience working with generator designs
- » Clear understanding of the needs of Local Government agencies and requirements of FEMA and FL Building Codes

RELEVANT PROJECT EXPERIENCE

Ocoee Health Care Generator | Ocoee Healthcare Facilities LP

Orange County Corrections Health Services Generator | Orange County Government

Orlando VA Center Generator Repair | City of Orlando

Orange County Courthouse Generator Controls Design | Orange County Government

The Golf Channel 500KW Generatory Addition | The Golf Channel

Satellite Chiller Plant Generator Design | Florida International University

Emergency Operation Generator | Florida International University

Community Center Generator Assessment | Orange County Government

Tarpon Point SNF Generator Upgrade | Pinnacle Health Facilities-Sarasota, FL

Lauderhill HVAC Generator Upgrade | Heartland Health Care- Lauderhill, FL

Miami Lakes HVAC Generator Upgrade | Heartland Health Care- Miami Lakes, FL

St. Andrews Bay Generator Upgrade | Pinnacle Health Facilities-Panama City, FL



YEARS OF EXPERIENCE:
4

YEARS WITH SGM:
4

EDUCATION:
BS in Electrical Engineering,
University of Central Florida

SGM JOB TITLE:
Electrical Designer

Bobby Braun

Electrical Designer

PROFESSIONAL QUALIFICATIONS

- » 18 years of electrical experience working with generator designs
- » Clear understanding of the needs of Local Government agencies and requirements of FEMA and FL Building Codes

RELEVANT PROJECT EXPERIENCE

Backup Data Center Design-Build | Central Florida Express Authority

Orange County Regional Computing Center "B" Bus Electrical Upgrade
| Orange County Government

Campus Health Services Backup Generator Assessment | Orange County Government

Plantation HVAC New Standby Generator | Heartland Health Care-Plantation, FL

Tarpon Point SNF Generator Upgrade | Pinnacle Health Facilities-Sarasota, FL

The Golf Channel 500KW Generatory Addition | The Golf Channel City, FL

Orange County Regional Computing Center "A" Bus Electrical Upgrade | Orange County Government

Orange County Fire Station #67 | Orange County Government

Satellite Chiller Plant Generator Design | Florida International University

Emergency Operation Generator | Florida International University

Ocoee Health Care Generator | Ocoee Healthcare Facilities LP

Emergency Generator Connection | City of Fort Lauderdale



YEARS OF EXPERIENCE:
18

YEARS WITH SGM:
15

EDUCATION:
BS in Electrical Engineering,
University of Massachusetts-
Lowell

SGM JOB TITLE:
Electrical Designer

James Rogers

Electrical Designer

PROFESSIONAL QUALIFICATIONS

- » 22 years experience in Fire Alarm Controls, Programing, and Fire Alarm testing
- » Capable of handling any unforeseen situations during construction and suggest a logical solution
- » Able to determine if the existing relays can stay functional during transition to new control panel or replace the entire system with NO delays
- » Will perform his assignment under Justin Mundell's supervision

RELEVANT PROJECT EXPERIENCE

Orlando VA Center Generator Repair | City of Orlando

Satellite Chiller Plant Generator Design | Florida International University

The Golf Channel 500KW Generatory Addition | The Golf Channel

Backup Data Center Design-Build | Central Florida Express Authiorty

Ocoee Health Care Generator | Ocoee Healthcare Facilities LP

Lauderhill HVAC Generator Upgrade | Heartland Health Care- Lauderhill, FL

Miami Lakes HVAC Generator Upgrade | Heartland Health Care- Miami Lakes, FL

St. Andrews Bay Generator Upgrade | Pinnacle Health Facilities-Panama City, FL

Campus Health Services Backup Generator Assessment | Orange County Government

OSCA Generator Replacement | School District of Osceola County

Tarpon Point SNF Generator Upgrade | Pinnacele Health Facilities-Sarasota, FL

Courthouse Generator Controls Design | Orange County Government



YEARS OF EXPERIENCE:

22

YEARS WITH SGM:

4

EDUCATION:

Tradeschool for Architecture

SGM JOB TITLE:

Electrical Designer



CHARLES A. MICHELSON AIA, ACHA, LEED AP, President

Role: Principal-in-Charge

As the Principal, Mr. Michelson maintains an active role in the planning, design, and production of architectural projects for the firm. With his background in Urban Planning, he participates in programming, feasibility studies, site planning and other research projects. As Principal-in-Charge of the firm's public projects, Mr. Michelson has been responsible for overseeing the new construction, renovation and additions to numerous public buildings and has provided design services for numerous governmental facilities.

Representative Projects

Years of Experience

40

Years of Experience with Firm

40

Education

University of Miami Master of Urban & Regional Planning, 1981
B. Architecture, 1979

Registrations

Registered Architect:
Florida #9976
Georgia#00874

National Council of Architectural Registration Boards (NCARB) #31861

American College of Healthcare Architects (ACHA) Certified #0624

ASHA Healthcare Construction Certificate, 2004

Affiliations

South Florida Hospital & Healthcare Association (SFHHA)
Board of Directors

Florida Healthcare Engineering Association (FHEA)

American Institute of Architects (AIA)

AIA Fort Lauderdale President, 2015
Board of Directors, 2014
Treasurer, 2017

AIA Florida
Citizen Architect, 2014

Miami Dade College Building 1000 Deferred Maintenance Project, Miami, FL: SMA is addressing the existing A/E deficiencies at Building 1000 on the North Campus including building envelope refurbishment, exterior paint, replacement of existing switchgear and related electrical panels, upgrade switch gear at annex Building 25 Chiller Plant, replacement of transformers throughout the building, all emergency exit lights, chilled water pumps, air handlers coils, air conditioners at server rooms, pneumatic controls with electronic Direct Digital Controls (DDC) and integration throughout the building, all VAV boxes with DDC controls, and interior lined ductwork and duct cleaning, sanitizing and encapsulating.

Broward College Chiller Building, Pembroke Pines, FL: A new chiller plant and modular classrooms at the college's South Campus. The Chiller Plant includes the design of a dual chiller chilled water plant of approximately 3,500 square feet. The initial machine design capacity is 650 tons each, with a deductive alternate to make one (1) chiller 450 tons. The plant was designed for future expansion to include initial header pipe sizes, cooling tower water make-up, and electrical service to accommodate a future build-out of 4,300 tons.

Broward College Building 33 Expansion for Chiller Plant, Fort Lauderdale, FL: As a subconsultant to SGM Engineering, preparation of construction documents for the expansion and modification to the building in order to provide a new chiller and cooling tower.

FAU Chiller Expansion, Boca Raton, FL: As a subconsultant to SGM Engineering, research of stair options and preparation of construction documents for the stair to the roof, details, and patching and repairing miscellaneous infrastructure work.

Memorial Healthcare System IT/Data Center, Hollywood, FL: This 17,400 SF, one-story structure was the first phase of a planned 52,800 SF, five-story main hub for the South Broward Hospital District IT computer network. The state-of-the-art facility serves five hospitals, administrative offices, and various remote facilities, has emergency generators to provide 100% capacity backup, and was designed to withstand a 200 MPH wind load event.

Palm Beach County Four Points Emergency Operations Support Facility, West Palm Beach, FL: Extensive renovation of a two-story, 57,000 SF building containing various County departments and functioning as a support facility for the adjacent Emergency Operations Center during critical events. The building envelope was hardened to withstand 180 MPH wind loads and functions as a 24 hour facility, including sleeping quarters. It also has an emergency generator system to provide 100% energy back-up.



Years of Experience: 30

Years With the Firm: 2

Registrations & Certifications:

Registered Professional Engineer, FL

Education:

*Bachelor of Science, Engineering
University of Florida, 1990*

Professional & Civic Activities:

*Past President, Florida Engineering Society - Calusa
Chapter*

Peter Pellerito, PE

Senior Civil Engineer

Professional Experience:

Mr. Pellerito has extensive experience and expertise in both small and large-scale municipal and private sector, high-complexity infrastructure projects. Peter has successfully led multidisciplinary teams in planning and design on a wide range of civil engineering projects. His project experience encompasses soil and groundwater remediation; water treatment and wastewater pre-treatment systems; water and wastewater pump stations and transmission lines; site planning; earthwork; drainage systems; paving and grading; erosion control / stormwater pollution prevention; roadway design and specifications. Peter is a registered Professional Engineer, proficient in Civil 3D, TIS analysis, open channel flow modeling, and lift station design.

Relevant Project Experience:

Cape Coral City Hall Complex (Individual Experience) - The scope for this \$4M project included design and construction observation of a 3,600 linear foot road extension of Cultural Park Blvd. The design included accommodation of drainage and utilities for a 50-acre site of an adjacent municipal complex, accommodating the Cape Coral City Hall and police complex.

Cape Coral Hospital Expansion (Individual Experience) - The site plan for this design was intended to accommodate a building expansion within an existing hospital complex including roadway and parking layout, accommodating utilities, identifying existing storm drainage issues and upgrading, expanding new storm drainage system, and accommodation of landscaping.

City of Cape Coral Downtown Stormwater Management System Improvements Critical Redevelopment Area

(Individual Experience) - Mr. Pellerito provided drainage improvements within a 340-acre downtown district located Cape Coral between Coronado Blvd and Del Prado Blvd. The scope also included upgrading existing roadway from a rural 4-lane divided roadway to an urban 4-lane divided roadway with parallel parking.

City of Cape Coral Fire Stations No 3, 4 (Individual Experience)

- Mr. Pellerito provided site plan design of 3 fire stations sites including grading, utilities, and landscape design. Design challenges included a finish floor several feet above existing grade, which required design of a perimeter retaining wall to support the raised finish floor. Construction value for each station was approximately \$2M.

Midtown Estero (Individual Experience)

- A 47-acre, mixed-use residential and commercial parcel and a 38-acre multi-family residential subdivision, Midtown Estero hosts 92 multi-family units, eight 1-acre outparcels and a 16-acre tract to accommodate a large commercial anchor. Design aspects included the Estero River Tributary that bifurcates both projects. Design aspects included the Estero River Tributary that bifurcates both projects. Design criteria mandated by local regulatory agency included "no-rise" in the tributary during a rainfall event with a 1 % probability of occurrence and considering project development. Additional challenges included client design parameters of de minimis ecologic impacts, not prompting ACOE permitting.

Bonita Beach Road Phase II

(Individual Experience) - The project was 1999 APWA Project of the Year \$2M to \$10M. The roadway improvements were needed to accommodate rising traffic numbers stemming from an increasing driver population. Design included upgrading an existing 2-lane undivided roadway to 4-lane divided roadway.



PAUL A. ZILIO, PE

Senior Principal/Partner

Paul worked in a variety of roles for a major general contractor and became a Certified General Contractor prior to joining BNI. Since joining BNI, Paul has worked on a number of design-build projects and often served as Threshold Inspector. These experiences have given Paul a unique insight into partnering and the value of good and timely communication and have helped lead BNI to recommendations by a number of contractors.

Paul has designed a variety of structural systems, including cast-in-place concrete, composite precast concrete, tilt-up concrete, and structural steel. He works closely with designers and builders, regardless of delivery method, to make structural decisions that balance aesthetics, constructability, cost and schedule.

EDUCATION

Bachelor of Science in Civil Engineering
University of Michigan
April 1981
Major: Civil Engineering

PROFESSIONAL EXPERIENCE

Experience Prior to BNI: 5 years
With BNI since 1986

PROFESSIONAL REGISTRATIONS

Licensed Professional Engineer
– Florida

Certified Special Inspector –
Florida

PROFESSIONAL ASSOCIATIONS

American Institute of Steel
Construction

Florida Structural Engineering
Association

National Council of Examiners for
Engineering and Surveying

Relevant Projects

City of Doral Public Works Maintenance Facility, Doral, Florida

- New 2-story, 32,000-GSF building. Part is 2-story offices and the other part is a single, high-bay maintenance area. The building is a category 5-rated structure to serve as a hurricane response facility
- Principal in Charge, Engineer of Record, Threshold Inspector

City of Doral Police Facility Expansion, Doral, Florida

- A new 1-story, 10,000-SF police sub-station with 225 on-grade parking spaces for employees and City vehicles
- Principal in Charge, Engineer of Record, Threshold Inspector

South Florida Regional Transportation Agency Operations Building, Pompano Beach, Florida

- 3-story, 77,000-SF office building, the building consists of structural precast panels and load bearing masonry walls supporting a PSI floor system. The building is supported by augercast piled foundations and grade beams
- Principal in Charge, Project Manager

Village of Islamorada Municipal Center, Islamorada, Florida (Design Only)

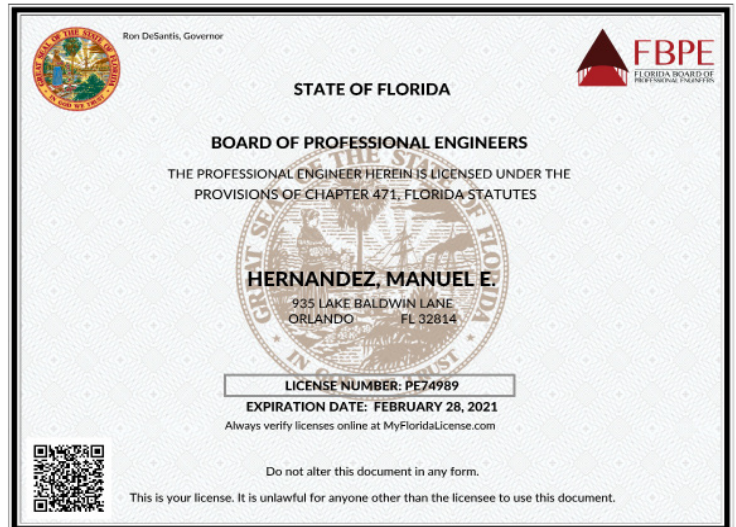
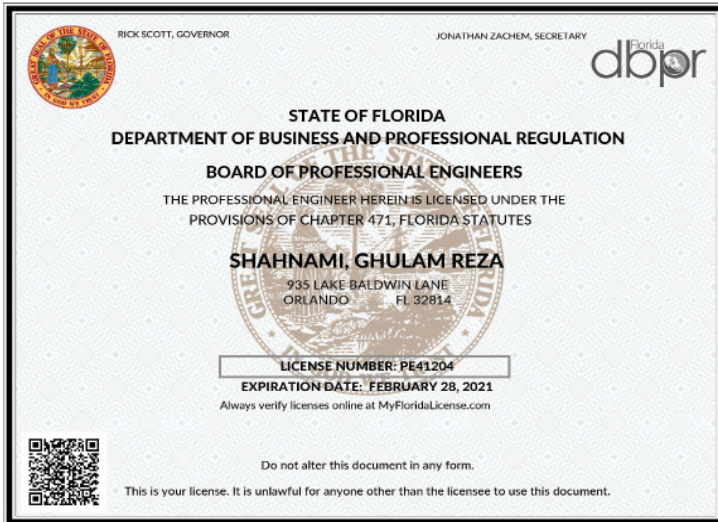
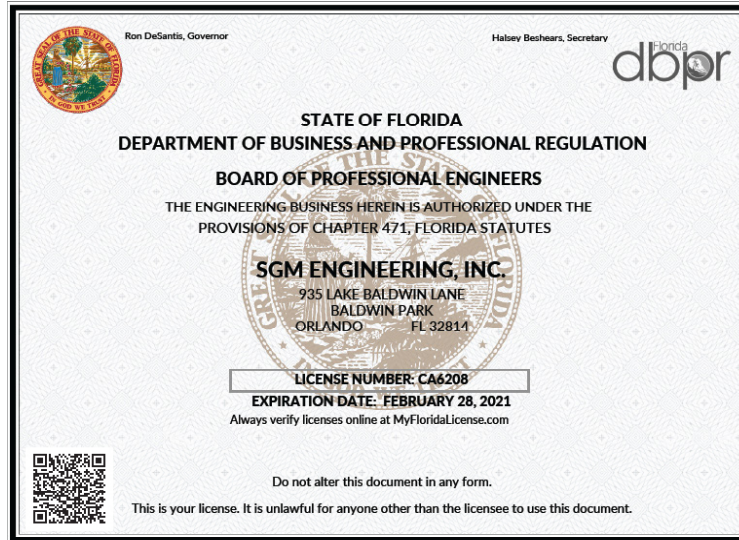
- City Hall, Fire station, and hurricane shelter designed for 175 mph winds.
- Tilt-up wall panels, composite precast and structural steel roofs.
- Engineer of Record, Project Manager

GSA Trade Shop Facility, Miami, Florida

- 100,000-SF trade warehouse including a 20,000-SF office/storage space mezzanine, and parking for 214-cars, LEED certified, Tilt-up walls with steel roof framing systems
- Principal In Charge, Engineer of Record, Threshold Inspector

LICENSES

SGM Engineering, Inc.





This certificate is the sole property of ACG and must be returned upon request.



This certificate is the sole property of ACG and must be returned upon request.

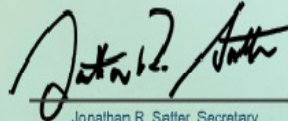
State of Florida

Minority Business Certification

SGM Engineering, Inc

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

06/05/2019 to 06/05/2021


Jonathan R. Satter, Secretary
Florida Department of Management Services



Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.dms.myflorida.com/osd

State of Florida Department of State

I certify from the records of this office that SGM ENGINEERING, INC. is a corporation organized under the laws of the State of Florida, filed on December 20, 1991, effective December 17, 1991.

The document number of this corporation is V02240.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on January 9, 2020, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Ninth day of January, 2020*

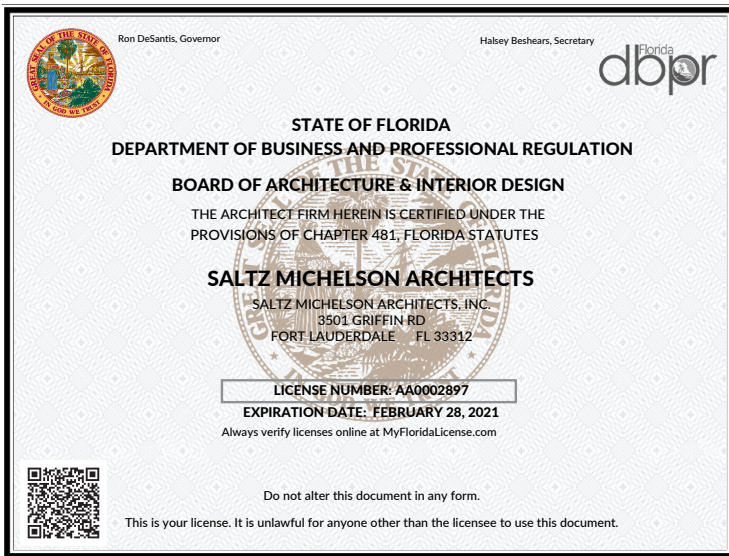



Secretary of State

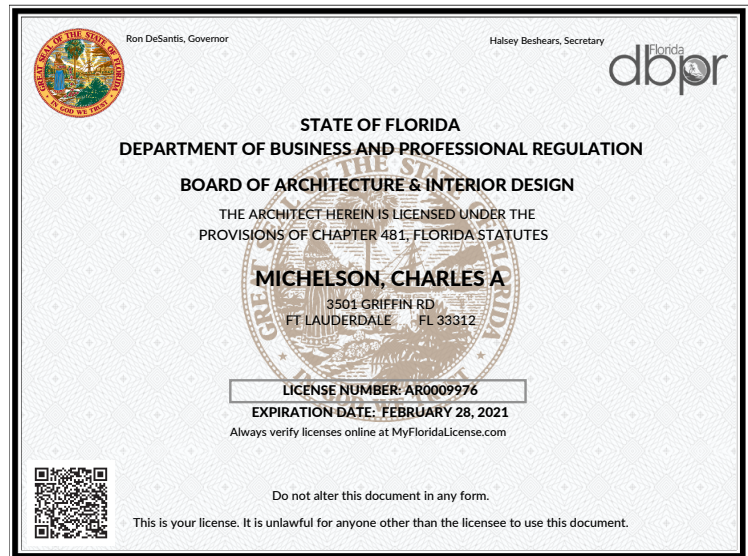
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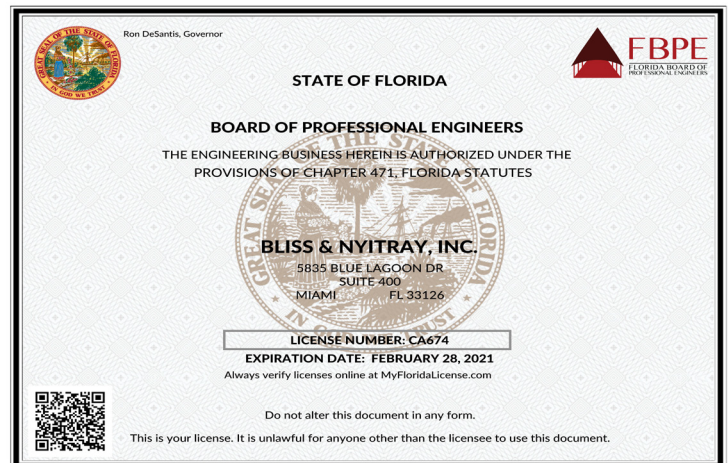
Saltz Michelson- Architect



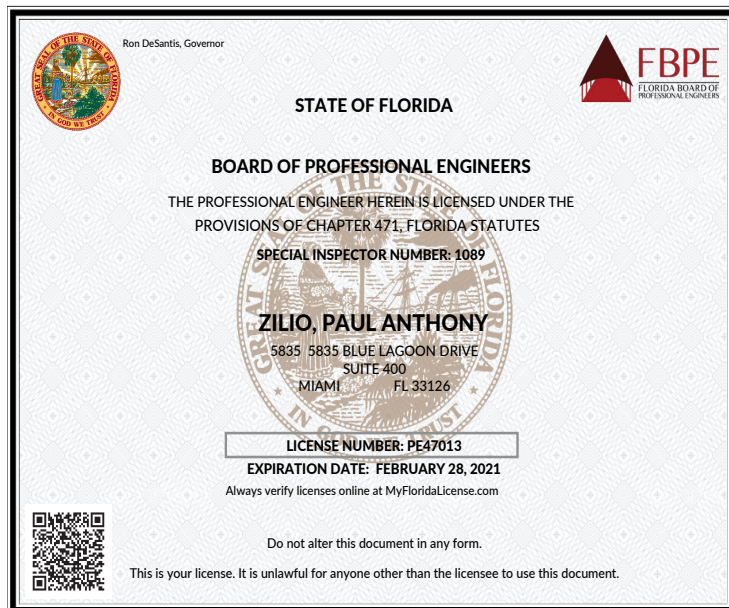
Saltz Michelson- Architect



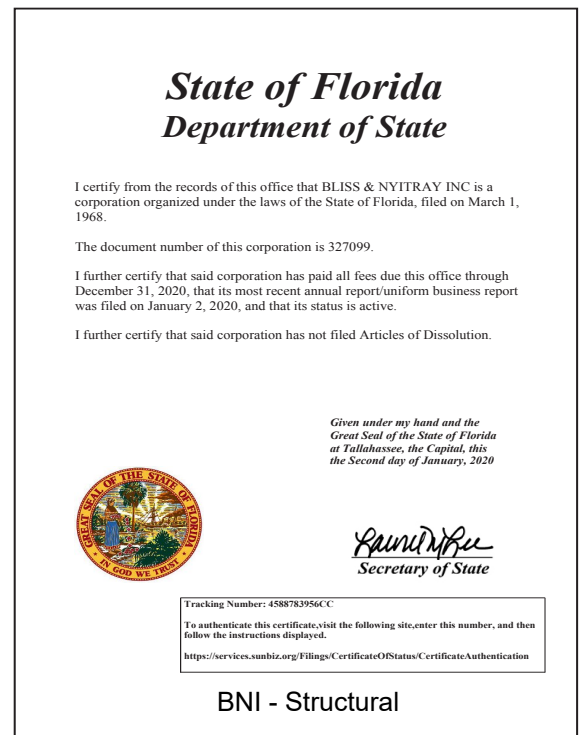
Saltz Michelson- Architect

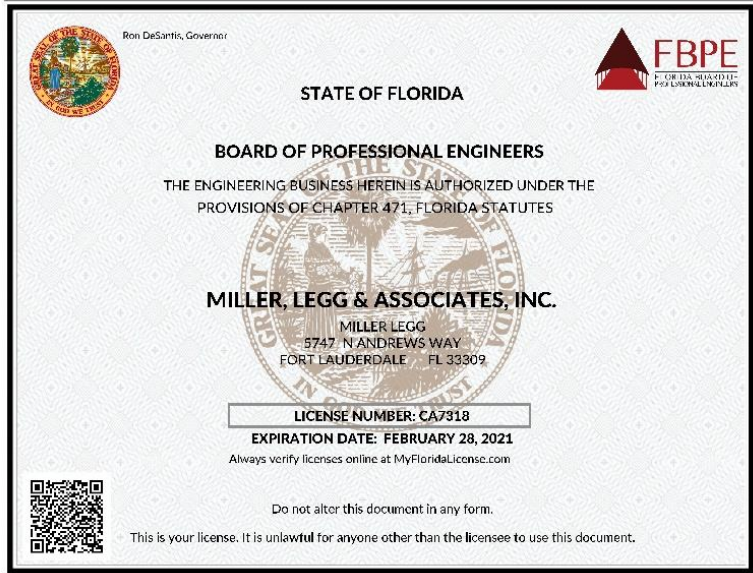


BNI - Structural

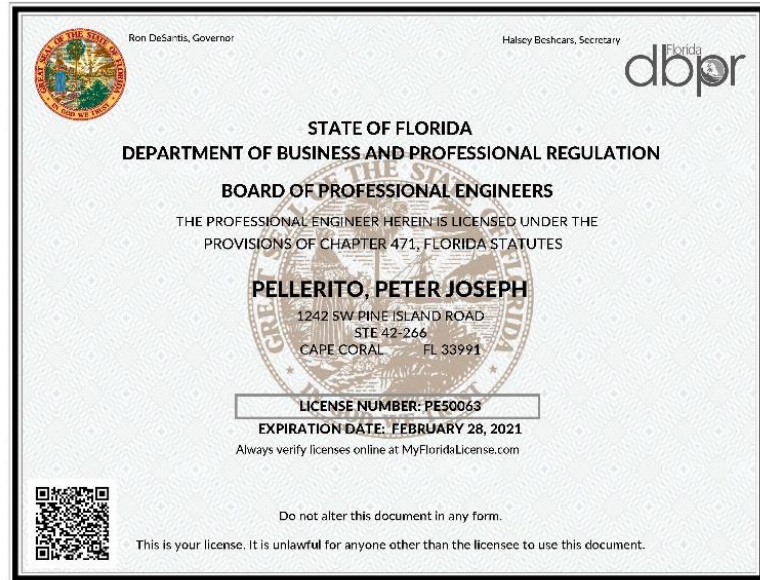


BNI - Structural

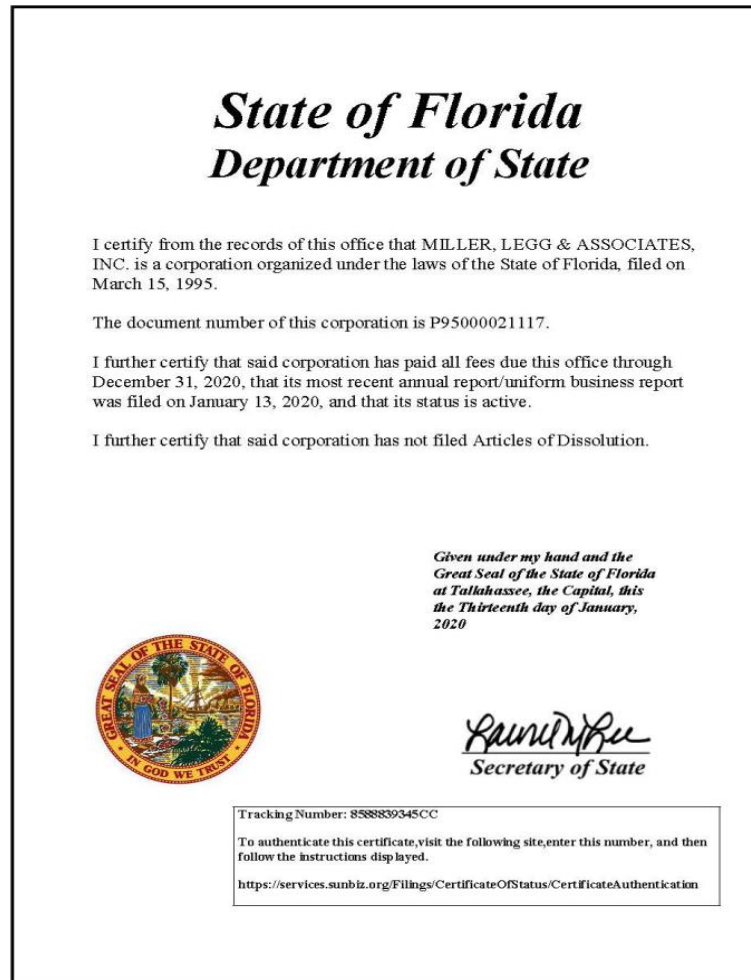




Miller Legg - Civil



Miller Legg - Civil



Miller Legg - Civil



PROJECT NAME: FIU BT- 834 PHASE 2, SATELLITE PLANT

Location of Project: Miami, FL

Scope of Involvement: Electrical/
Mechanical Engineering

Contract Type: Fixed Fee

Value of Contract: \$7.1 Million

Duration of Work: 2017-2019

Project Manager: Manuel Hernandez

Project Description: SGM engineering was awarded to design two new 1.825-Megawatt #2 Fuel Oil Generators for 100% back to support the existing plant located in FIU main campus. This plant is being used 24-7 to support campus HVAC demand especially during emergency events. This generator was designed per FEMA (Federal Agency) , NFPA 110 , NEC 700 and Fla Building Code Chapter 27 to mitigate the damages that might occur during severe weather or other hazards.

The generators are connected to Two-ATS (Automatic Transfer Switch) rated for 3000 AMP -460V/3Phase/4Wire. The generators are tested on monthly basis for 1-1/2-hour duration. Each generator is fueled up for a minimum of 72 hours full capacity. These generators have category hurricane protection – missile attack category for minimum of 155 MPH winds.

Due to its sensitivity of the project, the coordination and communication between the FIU Project Manager, contractor, building occupants, architect and SGM was critical. The project was completed on-time and within budget. SGM's team managed construction administration services through construction meetings, field inspections, issued field reports, and responded to all RFIs, change orders, shop drawings, As-Build drawings, owner's training, and owner's warranty manuals. There was on-site training for Facilities Staff showing the operation and troubleshooting of the new generator including repair and replacement system.

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PROJECT NAME: HHCC LAUDERHILL HVAC GENERATOR UPGRADE

Location of Project: Lauderhill, FL

Scope of Involvement: Electrical Engineer

Contract Type: Fixed Fee

Value of Contract: \$410,000

Duration of Work: 2017- 2019

Project Manager: Manuel Hernandez

SGM provided new level 1 diesel gas generator with missile impact resistant enclosure and service entrance Automatic Transfer Switch (ATS). The ATS and generator were sufficient to handle the existing facility peak demand load which includes power to maintain ambient temperature of 80 degrees or less for a period of not less than 96 hours in the event of normal power failure. With this upgrade, SGM also provided power feeders to the ATS from the normal utility source transformer and new 350kw generator. SGM ensured that lightning protection was added to the new generator enclosure.

Phasing of this work was provided to maintain power to the facility at all times except for a maximum of 4 hour shut down to allow for transfer of power from the existing utility feed to the new combined ATS feeder to the main switchgear. The grounding was revised to provide for the new grounded conductor bond connection locations to the existing grounding electrode during the shut down periods. With proactive coordination and communication, this project was completed on-time and within budget.

SGM
ENGINEERING



PROJECT NAME: MCHS PLANTATION SNF GENERATOR UPGRADE

Location of Project: Plantation, FL

Scope of Involvement: Electrical Engineer

Contract Type: Fixed Fee

Value of Contract: \$450,000

Duration of Work: 2017- 2019

Project Manager: Mark Escott

SGM provided a new optional standby natural gas generator in accordance with NFPA 70 Article 702, as permitted by Florida Statute 59A-4.1265 with optional missile impact resistant enclosure and service entrance rated automatic transfer switch (ATS). The ATS and generator are sufficient to handle the existing facility peak demand load which includes power to maintain ambient temperature of 80 degrees or less for a period of not less than 96 hours in the event of a normal power failure. Lighting protection was also added to the new generator enclosure.

SGM also provided power feeders to the ATS from the normal utility source transformer and a new 300 KW generator, power feeder from the new ATS to the existing main switchboard main circuit breaker. Work on this project was phased to ensure that power was maintained to the facility at all times, except for a maximum of four hour shut down of normal power to allow for the transfer of power from the existing utility feed to the new combined ATS feeder to the main switchgear. The existing NFPA 110 essential power system was not altered in any way and remained operational throughout the project with no interruption of service.

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CLEARWATER GAS TURBINE GENERATOR

Location of Project: Clearwater, FL
Scope of Involvement: Electrical Engineer
Contract Type: Fixed Fee
Value of Contract: \$250,000
Duration of Work: 2019-2020
Project Manager: Justin Mundell

PROJECT DESCRIPTION: SGM provided electrical engineering services for the Clearwater Gas Turbine Generator as a subconsultant to Long and Associates. The generator in question was a 65kW Capstone Natural Gas Motobine generator, which included an integrator, control cabinet, and spare conduits. SGM coordinated with Duke Energy for optimal customer power generation. We also established relay and breaker settings for the implementation of generator into distribution.

Throughout the project SGM coordinated customary CA services including RFIs, Submittals, and Punch Lists.





PROJECT NAME: ORANGE COUNTY REGIONAL COMPUTING CENTER "A" BUS ELECTRICAL UPGRADE

Location of Project: Orlando, FL

Scope of Involvement: Electrical Engineer

Contract Type: Fixed Fee

Value of Contract: \$2.45 Million

Duration of Work: 2014- 2016

Project Manager: Justin Mundell

SGM Engineering managed and coordinated electrical, mechanical, and fire protection design services for the Orange County Regional Computing Center "A" Bus electrical upgrade. This generator was designed per FEMA (Federal Agency) NFPA 110, NEC is 700 and Fla Building Code Chapter 27 to mitigate the damages that might occur during severe weather or other hazard. SGM team worked closely with Orange County Project Manager, especially during design review, bidding and utility shutdowns. The generator was fabricated with stand-alone self-enclosure. All the Orange County Generators are classified to withstand Hurricane Wind (100-year event), with self-enclosed stand-alone enclosures. This generator is connected to local alarm, which staff will be notified during emergency mode.

The new generator is 100% back up for the building fire alarm system, computer data, as well as protecting the new UPS. This generator has a category hurricane protection – missile attack category of minimum 140MPH Hurricane wind. Therefore, the generator was designed for full capacity using #2 fuel oil. The generator is being tested on monthly basis for 1-1/2 Hr. duration. The generator using ATS (Automatic Transfer Switch) is backing up the 600kVA UPS, 2000A electrical panel, 480V/3phase service disconnect, switchgear, metering, power distribution units, ground electrode. Design load calculations with 125% diversity factor was included as part of the design. The main disconnect, breakers and grounding had to be coordinated well in advance, due to space limitation.

Due to its sensitivity of the project, the coordination & communication between Capital Projects- PM, Contractor, building occupants, architect and SGM were critical. The project was completed on time and within budget.

SGM
ENGINEERING

PROFILE OF
CONSULTANT

Profile of Consultant

A. SGM Engineering, Inc. is a Regional Organization with a Local Office in South Florida

B. **Office Location:** 1 E. Broward Blvd, Suite 1503
Fort Lauderdale, FL 33301

C. **Firm Background:** SGM Engineering, Inc. is a Certified Minority Business Enterprise founded and incorporated in the State of Florida in 1991 with headquarters in Orlando, FL. Our business approach is to review, evaluate, design, and recommend the safest, most efficient, and cost-effective methods possible for all of our clients and the projects we undertake. We provide the highest quality design construction documents, cost estimates, construction administration, and coordination efforts with construction managers and owner's representatives, guaranteeing high professional standards and timely executions of every project. Our staff consists of knowledgeable project managers, engineers, designers, and CAD technicians that complete their projects on-time and within budget. These field experts will be available immediately for your projects, backed by a support staff that can easily assist the team to simultaneously handle multiple projects. As a registered member of the U.S. Green Building Council, SGM does not shirk codes and energy conservation requirements. We represent all segments of the building industry, developing LEED® (Leadership in Energy and Environmental Design) Green Building Rating System® standards for highly sustainable buildings. For this project, we will put no less effort into delivering the same sustainable, cost-effective, and efficient solutions for which we're known.

D. List of Similar Municipal & Other Projects

Florida International University Energineering Center Generator Design

Owner Information: FIU- Danny Paan- 11200 SW 8th St, Miami, FL 33199- (305) 448-4005

Scope: As the prime consultant, SGM provided Mechanical, Electrical, and Plumbing design for the replacement of two interior 260KW generators and hot sync controller at FIU's Modesto A. Maidique Campus. The design also included the reuse of the 2,000 gallon remote fuel tank. SGM also provided field surveyings and investigations to verify existing conditions of the generators, transfer switches, radiators and fuel tank, provided design documents to replace the two existing 260 KW generators, with one new 550 KW generator; New design included exterior mounted generator radia-tors as is existing for the generators, designed existing generator hot sink (tie) equipment to be removed from the room, plans and specifications are in accordance with the 2010 Florida Building and Fire Prevention Codes, and FIU Standards

Schedule: 2011-2015

Change Orders: 0

Turnaround Time: Average- 1 Day

Ability to perform design: Capable

Completion Date: March 22nd, 2015

Florida International University Statellite Chiller Plant

Owner Information: FIU- Danny Paan - 11200 SW 8th St, Miami, FL 33199 - (305) 448-4005

Scope: SGM was the prime consultant and MEP/FP Engineer of Record re-sponsible for site investigation, concept design, final design, and construction phase services for a new satellite utility plant on the Florida International University (FIU) main campus. At 16,000 SF, this plant is currently the largest standalone central energy plant in the State University System. The project was designed with (2) 1500-ton water-cooled chillers, (2) 1500-ton cooling towers, (3) variable frequency drive secondary chilled water pumps, (3) variable speed condenser water pumps, refrigeration monitoring system, and a complete web-based BACnet energy management system (EMS). The building was designed to accommodate (2) 1.5 MW emergency generators for 100% back-up in case of power outages due to unforeseen situations. SGM also assisted FIU's purchasing department to develop Owner Direct Purchase (ODP for 2 chillers, and cooling towers). The cooling towers were built on the roof surrounded with a combination of tilt-up walls and signature design louvers.

Schedule: 2016-2019

Change Orders: 0

Turnaround Time: Average- 1 Day

Ability to perform design: Capable

Completion Date: September 18th, 2019

HHCC Lauderhill Generator Upgrade

Owner Information:

HCR Mannor Care- Shawn Scott- 2599 N.W. 55th Avenue, Lauderhill, FL 33313- (954) 484-1951

Scope: SGM provided a new optional standby gas generator in accordance with NFPA 70 Article 702, as permitted by Florida Statute 59A-4.1265 with optional missile impact resistant enclosure and service entrance rated automatic transfer switch (ATS). The ATS and generator are sufficient to handle the existing facility peak demand load which includes power to maintain ambient temperature of 80 degrees or less for a period of not less than 96 hours in the event of a normal power failure.

SGM also provided power feeders to the ATS from the normal utility source transformer and a new 350 KW generator, power feeder from the new ATS to the existing main switchboard main circuit breaker. Work on this project was phased to ensure that power was maintained to the facility at all times, except for a maximum of four hour shut down of normal power to allow for the transfer of power from the existing utility feed to the new combined ATS feeder to the main switchgear.

Schedule: November 30th 2017 – May 16th, 2018

Change Orders: 0

Turnaround Time: Average- 1 Day

Ability to perform design: Capable

Completion Date: May 16th, 2018 for Construction Docs incorporating all comments

Miami Lakes HVAC Generator Upgrade

Owner Information:

HCR Mannor Care- Ronnie Mohammed - 5725 NW 186th St. Lauderhill, Florida 33015

Scope: SGM provided new level 1 diesel gas generator with missile impact resistant enclosure and service entrance Automatic Transfer Switch (ATS). The ATS and generator were sufficient to handle the existing facility peak demand load which includes power to maintain ambient temperature of 80 degrees or less for a period of not less than 96 hours in the event of normal power failure. With this upgrade, SGM also provided power feeders to the ATS from the normal utility source transformer and new 350kw generator. SGM ensured that lightning protection was added to the new generator enclosure. Phasing of this work was provided to maintain power to the facility at all times except for a maximum of 4 hour shut down to allow for transfer of power from the existing utility feed to the new combined ATS feeder to the main switchgear. The grounding was revised to provide for the new grounded conductor bond connection locations to the existing grounding electrode during the shut down periods. With proactive coordination and communication, this project was completed on-time and within budget.

Schedule: November 30th 2017 – February 2nd, 2019

Change Orders: 0

Turnaround Time: Average - 0.5 Day(s)

Ability to perform design: Capable

Completion Date: February 2nd, 2019 for Construction Docs incorporating all comments

Seminole Middle School Kitchen Renovation

Owner Information:

School District of Broward County
Martin Bennett- 6200 SW 16th St, Plantation, FL 33317- (754) 321-4671

Scope: Under a continuing contract with the Broward County School District, SGM Engineering provided MEP design services for the kitchen renovation for Seminole Middle School. A new Combitherm oven replaced the old oven in the existing kitchen. Our design incorporated the disconnection, relocation, and reconnection of all the electronic equipment that provided electricity to the oven. This included connecting the oven to conduit and wiring from the source panel. We also provided construction administration services that included answer RFIs, conducting site visits as necessary, and approving submittals.

Schedule: 2016-2017

Change Orders: 0

Turnaround Time: Average- 0.5 Day

Ability to perform design: Capable

Completion Date: August 3rd, 2017

Oranage County Reginal Computer Center “A” BUS Electrical Upgrade

Owner Information: Orange County Government
AJ Murray-400 E. South St. Orlando FL 32801- (407) 836-0057

Scope: SGM Engineering managed and coordinated electrical, mechanical, and fire protection design services for the Orange County Regional Computing Center “A” Bus electrical upgrade. This generator was designed per FEMA (Federal Agency) NFPA 110, NEC is 700 and Fla Building Code Chapter 27 to mitigate the damages that might occur during sever weather or other hazard. SGM team worked closely with Orange County Project Manager, especially during design review, bidding and utility shutdowns. The generator was fabricated with stand-alone self-enclosure. All the Orange County Generators are classified to withstand Hurricane Wind (100-year event), with self-enclosed stand-alone enclosures. This generator is connected to local alarm, which staff will be notified during emergency mode.

Schedule: 2014-2017

Change Orders: 0

Turnaround Time: Average- 1 Day

Ability to perform design: Capable

Completion Date: May 25th, 2017

E. Litigation: SGM has not been found liable in any litigation, arbitration, or professional claims regarding building design or commissioning work in the past 28 years of the firm’s history. This firm has the highest possible ranking by Professional Liability Insurance carriers and has never been found liable in a court suit or for any projects or entities.

F. Project Staff: Please see resumes for details regarding similar projects, assignment, and education

G. Project Team Organization: For past 20 years, our staff have gained extensive experience on existing facilities, relating from MEP/FP systems to building MEP systems. The SGM team will have a schedule of deliverables to the City of Hollywood -PM for review and approval prior to the kick-off meeting. The schedule will identify all the design task activities including all deliverables. SGM will review all the costs associated with the project including scope validation, schematic, and design-development and construction documents. During construction, SGM will ensure there is no additional cost to the project unless it is initiated from the City, due to additional work not listed in the original scope of work. However, if the cost estimate exceeds the budget, SGM will redesign it at NO COST TO the City. Actual cost for every generator and controls system for entire project. Electrical modifications for every piece of equipment specified in the contract- including power distribution, breakers, panels, and grounding. SGM understands that some portions of this contract may have to be conducted after-hours in order to have no impacts to operation. We understand the necessity for highly sensitive facilities, a safety plan, advanced scheduling for delivery, service access to the site, construction observations, submittals, RFIs, shop drawings, Pay- Applications, resolution of any change orders/claims, assist commissioning in start-ups, substantial completion, final completion/close-out, and on-site training. Our team is a perfect fit for this role due to extensive experience reviewing and analyzing existing systems. 40 Hours – PM, 80 Hours – Senior Designer, 40 Hours – CAD Tech, 16 Hours - CA

H. Municipal Staff: The generators specified shall have a warranty period that is preferred by the Owner. Training shall also be provided by the contractor/manufacturer for facility’s staff for maintenance and operation of the generator sets.

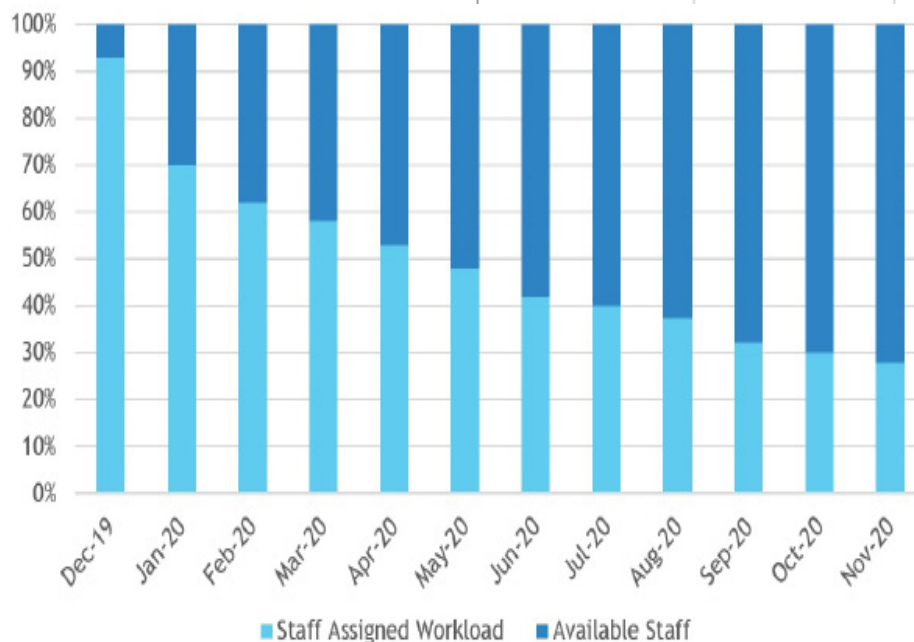
I. Describe Approach

Please see attached Project Approach

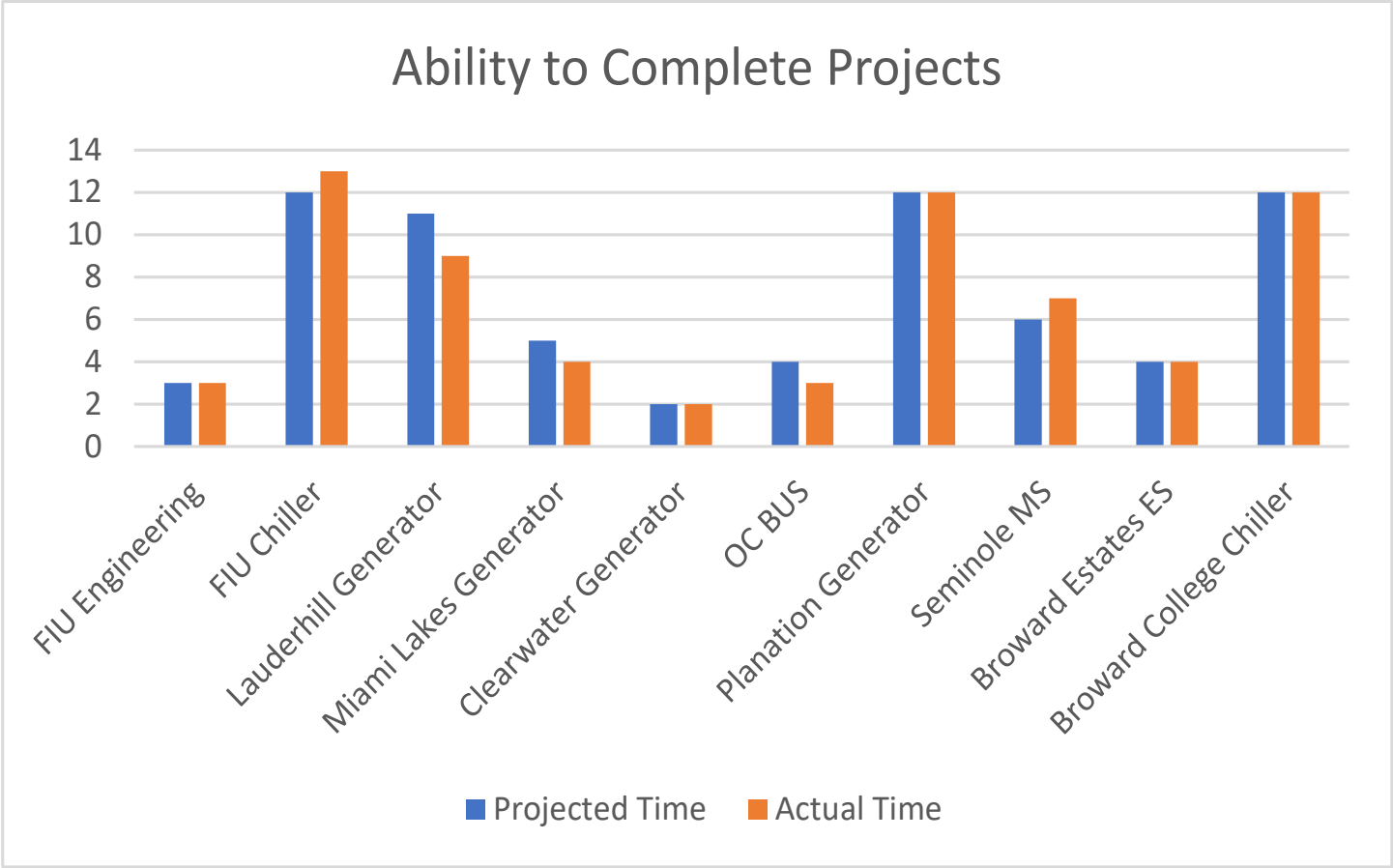
Current & Projected Workload and Time Scheudle to Complete Project

SGM is structured with many qualified and experienced project managers that complete their projects on-time & within budget. Each project manager has engineers, designers and cad tech staff who are assigned to a specific project. A Project Managers’ Meeting is held on a weekly basis to discuss project schedules. All the projects are identified on a spread sheet which clearly outlines the PM, Engineer, Designer and CAD Tech. The spread sheet also identifies the deadlines and client’s name.

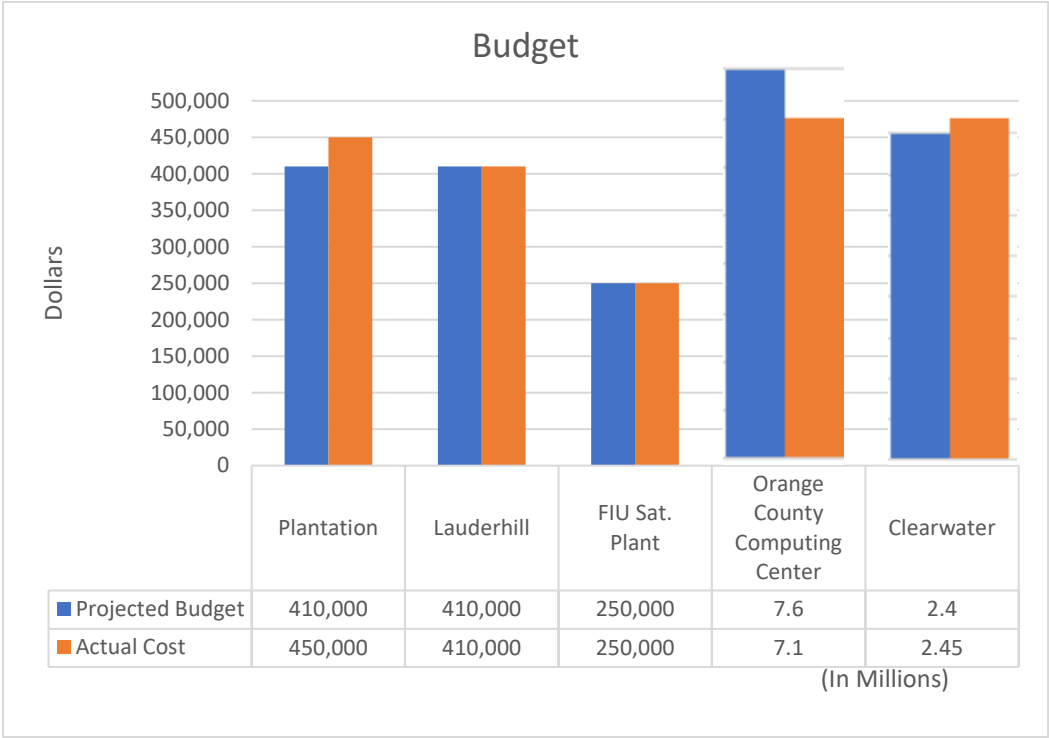
Project Name	Est. Cost	Balance to Invoice	% Complete
2017-006/SBBC MLK Academy MEP & Roof Upgr	84,000.00	50,713.33	40%
2017-259/Griffin Arms Building D and E	30,350.00	15,175.00	50%
2018-303/SBBC Northeast Higheast HS Add	183,000.00	91,500.00	50%
2018-138/FAU P-7661 BLDG 44 Room 207	5,440.00	2,502.40	54%
2017-254/SBBC Coconut Creek Auditorium	15,710.00	6,368.00	59%
2018-326/FAU Boca P-7736 Building 12 Anim	16,265.00	6,018.40	63%
2019-108/BC Elevators	29,275.00	10,831.75	63%
2017-299/SBBC Broward Estates ES	56,320.00	19,993.60	65%
2018-145/FIU BBC Wolf center WUC 244 A an	20,425.00	6,638.12	68%
2018-064/FAU BT-609	250,380.00	79,370.00	68%
2018-246/FIU MMC FM180312 PG5 Generator	64,105.00	19,231.00	70%
2018-036/FIU BBC AC2 Fire Alarm Upgrade	32,225.00	9,023.00	72%
2019-146/PCPS Mulberry HS	307,122.93	76,780.68	75%
2016-267/SBBC Walker ES Renovation	121,000.00	29,433.02	76%
2017-054/SBBC Colbert Elementary School R	64,600.00	14,798.44	77%
2019-046/BC North Campus Bldg 52	37,800.00	7,572.75	80%
2017-126/North Miami ES	48,059.00	9,613.65	80%
2019-123/BC South Campus Mobile Modular C	11,850.00	2,370.00	80%
2018-220/FIU MMC Fuel Station	38,480.00	7,696.00	80%
2017-190/FIU Panther Stadium FireUpgrades	48,560.00	9,712.00	80%
2019-101/FIU MMC PC Fire Alarm Upgrade	77,775.00	15,555.00	80%
2019-020/BC Central Bldg 4 189A /199A	26,850.00	5,101.50	81%
2017-129/BC North Campus Parking Lot	8,613.00	1,523.00	82%
2017-005/SBBC Sunland Park ES Fire Alarm	45,000.00	7,800.00	83%
2018-256/FIU MMC Digital Sign for Parking	20,580.00	3,316.00	84%
2018-266/Marjory Stoneman Douglas HS	172,017.31	27,522.76	84%
2018-236/FIU OE 2nd Floor animal facility	19,825.00	1,983.00	90%
2017-152/FU SHC Fire Alarm Upgrade	9,375.00	937.50	90%
2018-153/FIU MMC CSC Building 23	18,230.00	1,823.00	90%
2018-327/FIU University Towers Elevators	19,600.00	1,960.00	90%
2016-312/PBSC NOC-HVAC Replacement	18,605.00	1,860.08	90%
2018-263/FIU MMC GL 172 Telecom Room HVAC	8,325.00	832.00	90%
2019-024/FAU IT	10,115.00	786.00	92%
2015-074/BC NC Omni Aud	30,844.00	2,275.00	93%
2019-166/FAU Library - Virtual Reality	22,925.00	1,150.00	95%
2015-208/BC North Campus It Room HVAC	25,371.00	1,269.00	95%
2017-013/BC DTC Chiller Plant	242,210.00	6,000.00	98%



Ability to Complete Project on Time:



Ability to Complete Project on Budget:





SGMEN-1

OP ID: KM

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

03/30/2020

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

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

PRODUCER JCJ Insurance Agency 2208 Hillcrest Street Orlando, FL 32803 Mark E. Jackson	321-445-1117	CONTACT NAME: Kristin McIntosh	
		PHONE (A/C, No, Ext): 321-445-1117	FAX (A/C, No): 321-445-1076
		E-MAIL ADDRESS: certs@jcj-insurance.com	
		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A: Charter Oak Fire Ins Co	25615
		INSURER B: Travelers Indemnity Co.	25658
		INSURER C: Travelers Casualty & Surety Co	19038
		INSURER D: Kinsale Insurance Company	38920
		INSURER E:	
		INSURER F:	

INSURED
SGM Engineering, Inc.
935 Lake Baldwin Lane
Orlando, FL 32814

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			680-2J774323	07/06/2019	07/06/2020	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 Emp Ben. \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			BA-0G879957	07/06/2019	07/06/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP-0G887945	07/06/2019	07/06/2020	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000 \$
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N / A If yes, describe under DESCRIPTION OF OPERATIONS below			UB-4458T67-6	07/06/2019	07/06/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	<input checked="" type="checkbox"/> Professional Liab Claims Made			BK1257554F	04/08/2020	04/08/2021	Per Claim \$ 2,000,000 Aggregate \$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

FORPROP

For Proposal Purposes

CANCELLATION

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

AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

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Firm Plan of Approach

In September 2004, during Hurricane Frances, SGM was contacted by FEMA to design and supervise installation of generators in East Coast Florida. The generators were installed 4 feet above finished floor, per 100 year-event. The generators were sized for 100% back-up and 72 Hour full-fuel capacity.

Our project design approach would be as follows:

1. We will coordinate the location of each generator with its shelter, walls and concrete pads with Architect & the City's- PM. Each generator will be able to transfer power to the building within 10 seconds.
2. SGM will calculate the total KW power required for each facility. That requires a trend-log for the main panel to determine the maximum RLA (Running Load Amps) and required Voltage. SGM recommends 460V/ 3 phase generators.
3. Test and verify status of each main breaker and disconnect-switch to make sure the switches will operate accordingly prior to electrical shutdowns. There is no room for second guessing.
4. Absolute coordination with the City's-PM, Facilities Management and Authority Having Jurisdiction over this project. Example: Determine if use of natural gas can be available for usage or use #2 fuel oil as a source for proposed generators.
5. Coordinate with power company and making sure existing disconnect switches are working properly. NO interruption.
6. Safety and security of occupants, especially during construction phasing, including ARC-FLASH verification and compliance.
7. Maintenance friendly system with 5 years- extended warranty on all major equipment
8. Ability to respond during construction for any unforeseen conditions.
9. SGM's staff will conduct a complete assessment of existing system, issue a report identifying all items associated with building operational system, and how existing system must stay functional while new generators are being installed.
10. Close out documents will include owner's warranty manual, as-built drawings, certificate of completion, test & balance report and final commissioning report.

This project will comply with FEMA (Federal Agency) 500-year event, NFPA 110, NEC is 700 and Fla Building Code Chapter 27. Those generators must be installed with NO Interruption to existing operation. All the generators will be tested on monthly basis for 1-1/2 Hr. duration.

Project Management:

Pre-Design Phase: Our team will meet with the City's- PM, Facilities Management, and other team members to review the scope of work, determine the construction phasing, define the project deliverables, and to outline the owner's expectations. We will meet with the appropriate facilities management staff to gather information related to the existing power distribution for all existing electrical capacity and how to isolate the system with NO IMPACT to rest of operation. For example: We understand each building has its own electrical panel and main breaker. However SGM staff will recommend the location of Generator, its concrete pad and ATS (Automatic Transfer Switch). The generator must be installed away from any public traffic flow with shortest distance to existing main electrical breakers. Each Generator will be equipped with self-enclosed stand alone enclosure which will comply with proper-missile impact enclosure with sound attenuation. We will meet with the City's- PM, Facilities Management, and local AHJ to discuss the fuel type for each location. SGM propose natural gas if its available.

Design Phase: Our team will prepare engineered drawings, including full mechanical and electrical riser diagram, architectural drawings, probable cost and project specifications based on the information defined during the pre-design phase. Major design criteria are:

- a. Location of every generator, its pad, ATS, fuel type and its enclosure.
- b. Construction budget estimating shall be done during 60%, 90% and 100% submittals, to make sure we would stay within budget.
- c. Coordination with power company, to make sure the switchgears and transformers are able to isolate each generator during the shut down and removal.
- d. Although, its not included in this contract, however, status of existing breakers for every facility must be identified and report to City's PM.
- e. Our renovation drawings will include a full layout of existing Main Distribution Panels, breakers and disconnect switch with dotted lines as indications of being removed by contractor.
- f. Construction Phasing is a MUST for this project. Because it has to be designed and coordinated with all the events occurring during construction period.

Pre-Bid Phase: Our team will attend the pre-bid meeting, assist the City's- PM, with describing the scope of work and outline the project expectations. We will review and respond to any pre-bid RFI's submitted by the qualifying contractors. We will also review and provide input that relates to the contractor bids.

Construction Administration Phase: This project requires a weekly CA meeting to go over the current and upcoming events affecting the project deliveries. Our team will meet with the owner to define the construction administration process, schedule, and owner's expectations during the construction phase. The lay-down area and access to each generator must be the number # 1 priority for contractor to submit. We will visit the site during the construction phase to observe the construction process and to confirm that the construction is in compliant with the engineering drawings and specifications. On weekly basis, our team will prepare observation reports identifying the level of completion, code related deficiencies, and identify any deviations compared to the design documents. We will review and comment on all product data and shop drawings prepared by the contractor. We will provide responses to all RFI's submitted by the contractor during the construction phase. We will review payment applications to help determine their accuracy based on the construction work completed. The final close out documents must be shared with FEMA.

Close-Out Phase: Our team will review and comment on all warranty, operational and maintenance documents prepared by the contractor that relates to the installed equipment. We will attend onsite owner training sessions with the owner, contractor and the equipment vendors. We will prepare record documents based on the As-Built drawings prepared by the installing contractor.

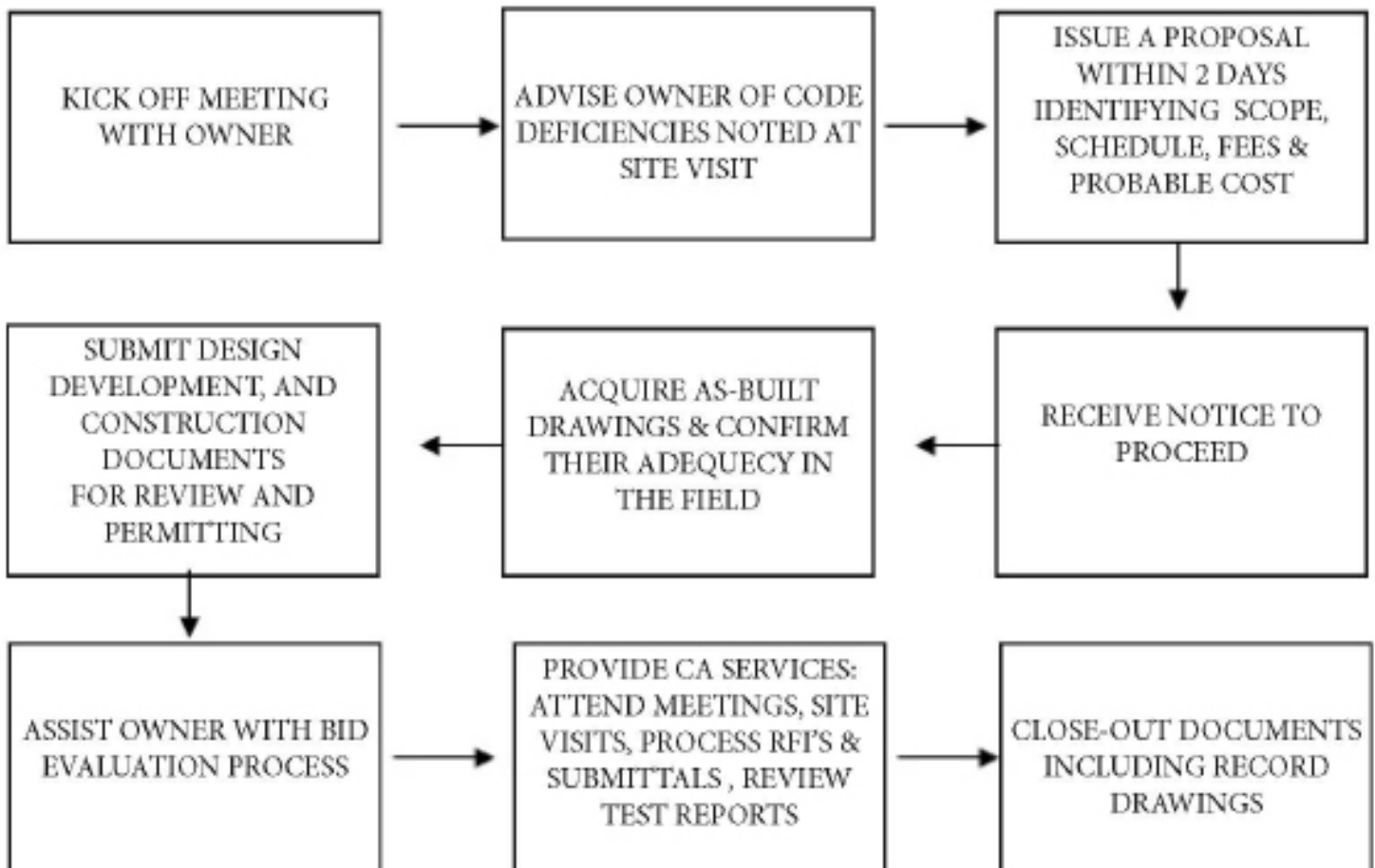
Code Compliances: This project will comply with following: FEMA (Federal Agency) 500-year event , NFPA 110 , NEC is 700 and Fla Building Code Chapter 27 .

Schedule: SGM recognizes the importance of remaining on schedule while adhering to both internal and external quality standards. The design delivery, generator delivery, and final construction completion are three essential factors for this project. Our engineers have a proven track record of completing engineering designs and construction administration. SGM successfully designed and administrated a 1.6 MW generator project for the Emergency Operation Center located in Orange County. This project had no interruption to building occupants. The purchasing department managed to expedite the procurement process. The entire construction took place in less than 180 days.

As mentioned above, the quality assurance reviews that we conduct in-house are completed by a senior member of the firm who has not been involved with the project design, guaranteeing a critical eye that is both fresh and well-seasoned.

Using this approach, SGM has consistently provided effective quality control for its projects.

A Project Managers' Meeting is held on a weekly basis to discuss the project schedule.



For this contract, SGM will develop a comprehensive work plan to quantify the project objectives:

- (1) Project objectives- Design and CA services for new generator
 - (2) Identify deliverables which are installing new ATS (Automatic Transfer Switch) with minimum impact to the operation, self-enclosed enclosure which will be stand-alone enclosure for all generators mentioned in this contract
 - (3) Project schedule including 30%, 60%, 90% and 100% permit drawings, permitting, procurement and CA services. Including demolition plans, and compliance with Federal Agency-FEMA Guidelines, NEC 700, NFPA 110 and Fla Building Code chapter 27
 - (5) Develop the QA/QC plan to present to the City's- PM and Leadership
- Our Project Manager will assign each discipline to designers, engineer of record, and respective subconsultants. Tony Shahnam, as Project Manager will handle all the in-house and OC Capital Projects-PM activities, such as review meetings, coordination with building department, purchasing department and contractor during construction.

Our management plan begins with the following:

- (1) Perform site visits to verify existing conditions including all existing panels, main distribution panels, size of breakers, and locations outlined in the RFQ. Issue an assessment report including all issues associated with building electrical power distribution such as existing switch gear, Main Distribution Panels, Breakers, and transformer, and total required AMP/KW for each proposed generator
- (2) Determine the actual size of generator for each facility and whether Natural Gas is available to serve each generator. If the budget allows, SGM recommend 100% full back up for each facility
- (3) Determine the in-house cost analysis for using certain generator, using computer modeling
- (4) Assist in the overall design effort including architectural and structural support during design and construction. Making sure Hurricane missile impact complies with minimum of 145MPH wind
- (5) Assist in bidding and contractor selection. The design will comply with FEMA- 500-year event. As you will note, a 500-year flood, there is a 0.2 percent chance of having a flood of that magnitude occurring" in any given year, according to the National Weather Service.
- (6) Conduct Construction Administration including weekly meeting, field inspection, field report, coordinate with commissioning agents, Building Code Officials, Fire Rescue, review Shop Drawings, respond to RFIs, on-site training, warranty, as-build and 11-month warranty inspection.

SGM understands that some portions of this contract may have to be conducted after-hours in order to have no impacts to operation. We understand the necessity for highly sensitive facilities, a safety plan, advanced scheduling for delivery, service access to the site, construction observations, submittals, RFIs, shop drawings, Pay- Applications, resolution of any change orders/claims, assist commissioning in start-ups, substantial completion, final completion/close-out, and on-site training. Our team is a perfect fit for this role due to extensive experience reviewing and analyzing existing systems.

Specialized skills available, special considerations and possible difficulties in completing the project as specified. Describe alternate approaches to the project if applicable. Special Skills- On-time & within Budget- Cost estimating:

For past 20 years, our staff have gained extensive experience on existing facilities, relating from MEP/FP systems to building MEP systems. The SGM team will have a schedule of deliverables to the City of Hollywood -PM for review and approval prior to the kick-off meeting. The schedule will identify all the design task activities including all deliverables. SGM will review all the costs associated with the project including scope validation, schematic, and design-development and construction documents. During construction, SGM will ensure there is no additional cost to the project unless it is initiated from the City, due to additional work not listed in the original scope of work. However, if the cost estimate exceeds the budget, SGM will redesign it at NO COST TO the City. Actual cost for every generator and controls system for entire project. Electrical modifications for every piece of equipment specified in the contract- including power distribution, breakers, panels, and grounding.

Schedule Control: All the activities at each facility will be a deciding factor for each phase of the project including schedule of completion. The project schedule will be used continuously to monitor work progress. The Project Manager will be notified on a daily/ weekly/monthly basis with status reports, especially for any situation affecting the construction phasing.

Overall Project approach & Coordination: If requested by the City's- PM, SGM will coordinate the OPR (owner project requirement) with the City's Commissioning Agent, City of Hollywood -Project Manager, so the commissioning agent can get involved at early stage of the project.

SGM can assist Project Manager to prequalify firms based on similar generator projects, proper security badges, minimum of 3 similar experiences in order to be qualified for this solicitation.

If the budget allows for it, SGM also recommends ARC-FLASH testing as part of this contract.

We understand this project requires submission of documents to **FEMA** as part of close-out which will include construction documents, and its compliance with **500-year event**.

It's very crucial for this project to establish a proper construction phasing, so existing facilities stay functional while new generator is being installed. Following are the key factors for this project:

- a. Weekly construction meeting
- b. Confirmation from the City of Hollywood as to which area is allowed for contractor to work on.
- c. Functional test for every generator prior to acceptance by the City

Quality Control:

SGM has a concise checklist for this project before it gets signed off by the Engineer of Record. This check list is thoroughly reviewed by a separate internal department. SGM has in-house policy using a check-list to QC/QA every project before it gets an approval to release to clients. We have a Quality Assurance Board (QAB) comprised of senior staff members that will meet to discuss the status of design and construction project and pending problem areas. Additionally, the entire QC process is discussed in an effort to stay on top of quality documentation and refine the quality control approach. Feedback from the QAB goes directly to the respective staff member, aiding them in their production. To document this process, SGM undergoes a formal QC Review during each submittal to a client. The Project Manager will document the level of checking, completeness of the design, adherence to the scope and the project construction budget, and numerous other items on our QC Checklists.

Maintenance:

SGM would propose the following:

- a. 5 Years warranty on generators and its control system.
- b. Video tape the start up new generators, So the Facilities Management Staff will be trained during the start ups and future employees will benefit from this.



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING AND CONSTRUCTION SERVICES DIVISION**

1621 N. 14th Avenue
Hollywood, FL 33019
Phone (954) 921-3930 Fax (954) 921-3591

ADDENDUM NUMBER 1

Date: **May 6, 2020**

**FOR: REQUEST FOR STATEMENTS OF QUALIFICATIONS (RFQ)
DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP
ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS E-01, E-03,
E-06, W-14, W-15 & STORMWATER PUMP STATION SW-08**

FILE NUMBER: **20-8532**

ALL RESPONDENTS BE ADVISED OF THE FOLLOWING CHANGES TO THE ABOVE REFERENCED PROJECT AS LISTED BELOW:

This addendum is issued as part of the RFQ package for the above described project. The changes incorporated in this addendum shall be considered as a part of the documents and shall supersede, amend, add to, clarify, or subtract from those conditions shown in the original documents dated April 2020. The respondent shall coordinate all modifications herein with all trades and disciplines related to the RFQ package. **The respondent shall acknowledge receipt of this addendum per Item No. 4 of the "Respondent Check List" included in this addendum.** Failure to do so may subject Respondent to disqualification.

Item 1: NOTICE OF REQUEST FOR STATEMENTS OF QUALIFICATIONS

The signed date for the *NOTICE OF REQUEST FOR STATEMENTS OF QUALIFICATIONS* form has been revised. The revised form is attached.

ALL OTHER TERMS AND CONDITIONS IN THE RFQ PACKAGE SHALL REMAIN THE SAME.

Clece Aurelus, P.E.
Interim Assistant Director
Department of Public Utilities
City of Hollywood

NOTICE OF REQUEST FOR STATEMENTS OF QUALIFICATIONS

DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS E-01, E-03, E-06, W-14, W-15 & STORMWATER PUMP STATION SW-08

NOTICE IS HEREBY GIVEN that the City Commission of the City of Hollywood, Florida is advertising for statements of qualifications for the above-named professional services in accordance with Section 287.055, F.S. ("Consultant's Competitive Negotiation Act". The statements of qualifications will be received by the City Clerk of the City of Hollywood, Florida, on or before (but not later than) 2:00 PM Local Time on Thursday, May 28, 2020. The office of the City Clerk is located at City Hall, 2600 Hollywood Boulevard, Room 221, Hollywood, Florida, 33020. On May 28, 2020 at 2:30 PM, the names of the companies submitting statements of qualifications will be read publicly at the Southern Regional Wastewater Treatment Plant, 1621 N. 14th Avenue, ECSD 1st floor Conference Room, Hollywood, Florida, 33020.

Questions shall be submitted in writing via email by no later than Monday, May 18, 2020; Attention: Vernal Sibble, P.E. (vsibble@hollywoodfl.org). The telephone number for general information is (954) 921-3930.

It will be the sole responsibility of the Respondent to deliver personally, or by mail, his/her submittal on the completed Submittal Form to the Office of the City Clerk, at City Hall on or before the closing hour and date for the receipt of Documents as noted above. If a submittal is sent by mail, the Respondent shall be responsible for its delivery to the City Clerk's Office before the closing hour and date shown above for the receipt of the statements of qualifications. If the mail is delayed beyond the hour and date set forth above for the receipt of the statements of qualifications, the delayed submittal will not be considered and will be returned unopened.

A Cone of Silence is in effect with respect to this Request for Qualifications. The Cone of Silence prohibits certain communications between potential Respondents and/or Vendors and the City. For further information, please refer to Section 30.15(F) of the City of Hollywood Code of Ordinances.

The City of Hollywood is strongly committed to ensuring the participation of local Hollywood vendors in the procurement of goods and services. For additional information about the City's Local Preference Ordinance, visit www.hollywoodfl.org.

The City Commission reserves the right to reject any or all submittals, to waive informalities and to accept or reject all or any part of any submittal, as it may deem to be in the best interest of the City of Hollywood, Florida.

Dated this 29th day of April 2020.



CLECE AURELUS, P.E.,
INTERIM ASSISTANT DIRECTOR
DEPARTMENT OF PUBLIC UTILITIES
CITY OF HOLLYWOOD



5/27/2020



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING AND CONSTRUCTION SERVICES DIVISION**

1621 N. 14th Avenue
Hollywood, FL 33019
Phone (954) 921-3930 Fax (954) 921-3591

ADDENDUM NUMBER 2

Date: **May 20, 2020**

**FOR: REQUEST FOR STATEMENTS OF QUALIFICATIONS (RFQ)
DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP
ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS E-01, E-03,
E-06, W-14, W-15 & STORMWATER PUMP STATION SW-08**

FILE NUMBER: **20-8532**

ALL RESPONDENTS BE ADVISED OF THE FOLLOWING CHANGES TO THE ABOVE REFERENCED PROJECT AS LISTED BELOW:

This addendum is issued as part of the RFQ package for the above described project. The changes incorporated in this addendum shall be considered as a part of the documents and shall supersede, amend, add to, clarify, or subtract from those conditions shown in the original documents dated April 2020. The respondent shall coordinate all modifications herein with all trades and disciplines related to the RFQ package. **The respondent shall acknowledge receipt of this addendum per Item No. 4 of the "Respondent Check List" included the RFQ.** Failure to do so may subject Respondent to disqualification.

Item 1: NOTES RELATED TO RELEVANT REQUEST RECEIVED FROM POTENTIAL RESPONDENTS

1. I'm seeking information regarding the project in the subject line, have you selected an architect or engineer? Also seeking scope details, value, and bidding construction timeline information.

Response: *The purpose of the RFQ is to seek a qualified engineers. As stated in the RFQ, two (2) qualified candidates will be selected. Scope details will be provided to those candidates.*

2. Will there be a pre-submittal walk through of the site for the referenced RFP?

Response: *No.*



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ADDENDUM NUMBER 2

3. May some of our reference/example projects included in our submittal be those completed by our major subconsultant?

Response: Yes

4. Do you anticipate extending the bid due date?

Response: No

5. What additional details are you willing to provide, if any, beyond what is stated in bid documents concerning how you will identify the winning bid?

Response: *Sufficient details have been provided in the RFQ. As stated in the RFQ, the qualifications of the bidders will be reviewed and two (2) candidates will be selected.*

6. Other than your own website, where was this bid posted?

Response: Demandstar.com

7. Was this bid posted to the nationwide free bid notification website at www.mygovwatch.com?

Response: No.

Item 2: DELIVERY OF RFQ PACKAGE

1. To assist in mitigating the 2019 Novel Coronavirus (COVID-19) potential exposure and transmission risks, City Clerk is not accepting personal delivery at this time. All RFQ packages need to be mailed to City Clerk of the City of Hollywood, or delivered to Records and Archives located in the Annex building on the west side of City Hall, 2600 Hollywood Boulevard, Hollywood, Florida, 33020. It is recommended that a delivery confirmation email be sent to the Project Manager, Vernal Sibble, P.E. (vsibble@hollywoodfl.org) after you drop off the packages but before 2 PM on the submittal date stated in the RFQ.



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ADDENDUM NUMBER 2

Item No. 3 CLARIFICATIONS

1. The Demandstar website "Bid Details" portal refers to the Bid Type as a "Request for Proposal" and the Bid ID is shown as "RFP-20-8532-1-2020/VS".

Response: *These are errors. In fact, the "Scope of Work" paragraph, on the portal, refers correctly to the intent of the subject request as a "Request for Statement of Qualifications". This is supported by the content of the request-it is one for qualifications. The City apologizes any inconvenience caused by this error.*

ALL OTHER TERMS AND CONDITIONS IN THE RFQ PACKAGE SHALL REMAIN THE SAME.

Clece Aurelus, P.E.
Interim Assistant Director
Department of Public Utilities
City of Hollywood



1 EAST BROWARD BLVD. SUITE 1503 FORT LAUDERDALE, FL 33301 | TEL: (954)-421-1944 | FAX: (954) 421-1924