TLC ENGINEERING SOLUTIONS®

Statement of Qualifications for Energy Performance Contracting

RFQ-4702-22-GJ

01/13/2022

City of Hollywood, Florida
c/o: Office of City Clerk

Brian Lomel, PE, PE, LEED Fellow,
WELL AP, Fitwel Ambassador
Principal | Director of PEAK Institute
800 Fairway Drive, Suite 250
Deerfield Beach, FL 33441
954.439.6137
brian.lomel@tlc-eng.com

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January 5th, 2021

City of Hollywood, Florida
c/o: Office of City Clerk
2600 Hollywood Blvd., Room 221
Hollywood, Florida 33020

Dear Members of the Selection Committee:

From the moment a building is completed, it begins to change. Internal and external changes result in energy and water efficiency degrading over time. Improvements in building technology and systems offer solutions not available at the time of design which can result in energy savings and healthier environments for the building's occupants.

We believe our experience could greatly benefit the City of Hollywood. TLC has a demonstrated track record delivering the services requested in the RFQ, "…*performing investment grade energy performance audits and comprehensive energy management and energy-related capital improvement services for various City buildings, structures, lighting, and facilities*…". TLC has successfully provided these services for numerous portfolios of private and municipal assets.

In addition to that, we are experienced in working with public institutions in South Florida and understand the importance of listening to all stakeholders, including the facilities staff and the end users of the buildings. We understand that the goal is to provide better, safer, and more efficient facilities to the community.

The teams we have selected to assist the City of Hollywood with this contract have extensive local experience and have worked together before. They are ready to start the conversation to build a plan, define the goals, and establish a schedule that meets the City's intent.

We look forward to further discussing our qualifications with you and the opportunity to assist you with this critical project. Please do not hesitate to contact me directly with any questions.

Sincerely,

Brian Lomel, PE, LEED Fellow, WELL AP
Managing Principal PEAK Institute

Tab 1. Executive Summary

4.2.2 Executive Summary

Firm Structure and Offices

At **TLC Engineering Solutions, Inc.** we are continuously learning and growing. Our vision to **THINK** boldly,**LISTEN** attentively, and **CREATE** passionately serves as the blueprint that guides our commitment of extreme service to our clients. TLC Engineering Solutions provides high-performance engineering design and consulting. Founded in 1955 and consistently ranked among the largest MEP and structural engineeringfirms in the country, we are an industry leader with expertise in diverse markets, from healthcare to education to aviation.

Headquartered in Orlando, Florida, TLC has eight offices across Florida as well as offices in Nashville, Tennessee; New Orleans, Louisiana; Dallas, Texas; Philadelphia, Pennsylvania; Atlanta, Georgia; Chicago, Illinois; Milwaukee, Wisconsin; and Charlotte, North Carolina. Our highly qualified team of 400+ professionals include professional engineers, LEED-accredited professionals and ACG-registered commissioning authorities, coupled with specialists in acoustics, energy modeling and technology. We provide comprehensive services that allow clients to collaborate with a dedicated team from start to finish.

Officers and Directors

Michael P. Sheerin, PE	Chairman	Chief Executive Officer
James D. Ferris, PE	Director	President / Chief Operating Officer
Gary Krueger, PE	Director	Vice President
Robert D. Danner, PE	Director	Vice President
William J. Daly, CPA	Non-Voting	Secretary/Treasurer
Mark A. Gelfo, PE	Director	
Matthew Wiechart, PE	Director	
A Brian Lomel, PE	Director	
Rania Sadrack	Director	
Lawrin Ellis, PE	Director	
Justin Mulhollan, PE	Non-voting	
Taw North	Non-voting	

Officers, Principals, and Key Staff involved in the project

A Brian Lomel, PE	Director/Principal	Deerfield Beach
Erick Gonzalez, PE	Principal	Miami
Chad Griffith, PE	Principal	Atlanta
John Nott, PE	Principal	Atlanta

Our Approach to the Contract

Our proposed solution for the city is to prepare energy recommendations for each facility, by using our auditing, engineering, and local market experience.

Energy audits and retro-commissioning, specialties of TLC, are checkups of building health. These reviews range from a simple analysis of energy and water costs and rates to investment grade energy audits that help building owners plan for and implement changes created to protect their asset value. TLC team members, experienced in both design and construction, are hands on at your site and identify potential issues and opportunities. We build energy models to compare potential solutions and life cycle costs that give owners high-performance building solutions.

Once the plan is created for each facility, TLC can make recommendations to the city for the best financing vehicle to achieve these goals. In each case, the financing recommendations may be to use either an:

- (EaaS) Energy as a Service Company
- (ESCO) Energy Savings Company
- Self-Financed
- Manufacturer financing

The benefit to the city with this approach is transparency of solutions / costs, and matching the financing methodology with the magnitude of the task. TLCs proposed Services/Qualifications therefore deviate slightly from the RFQ, which states, "…*and on an as needed basis, financed through guaranteed costs savings achieved from the improvements.* …". TLC will assist the city in procuring these financing services, as desired.

Capitalizing on opportunities for savings is vital in managing budgets. Our work with the City of Hollywood would start with thoroughly analyzing your utilities' billing and usage information and making savings recommendations. Our team includes Mechanical and Electrical Professional Engineers (FL PEs), EMA-Certified Energy Management Professionals and LEED Fellows who are adept in the energy science of the built environment. Several recent examples of similar portfolio level energy auditing, design upgrade and Energy Star certification projects include:

- City of Orlando Energy Upgrades Phased Projects
- TIAA-CREF Net Operating Income Improvement Energy Audits (Multiple Locations)
- Nuveen North American Portfolio Sustainability Consulting (Multiple Locations)

Tab 2. Firm Qualifications & Experience

4.2.3 Firm Qualifications and Experience

Our passion fuels our commitment to sustainability and resiliency in building design - we strive for simple, efficient solutions that create healthy environments for the people who live, learn, and work in the buildings that we engineer. TLC Engineering Solutions' commitment to sustainability made us a leader in the green building design movement. "Firsts" have propelled TLC Engineering, from the first building in Florida to attain LEED certification in 2003 to a portfolio of 460+ LEED certified buildings, as well as experience in Living Buildings, Green Globes and other building rating systems. TLC was among the first engineering firms to make the AIA 2030 Commitment.

Energy Audits and Retro-Commissioning

TLC energy services team members analyze energy use and billings, survey facilities to identify opportunities to reduce energy use, and address concerns about equipment functioning appropriately and/or identifying equipment concerns/issues. We provide you with a roadmap detailing plans for building upgrades to retain tenants, reducing energy costs and increasing the value of your building asset.

General Firm Information

TLC is a corporation registered in the State of Florida with 66 years of experience in high-performance engineering design and approximately 30 years providing energy and sustainability projects. With over 360+ professionals including over 100 registered engineers and 19 Certified Commissioning Authorities, TLC has completed 460+ LEED Certified projects and developed energy services strategies for private and public entities.

TLC by the Numbers

TLC License

State of Florida
Department of State

I certify from the records of this office that TLC ENGINEERING SOLUTIONS, INC. is a corporation organized under the laws of the State of Florida, filed on December 31, 1968.

The document number of this corporation is 339497.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 3, 2022, 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 Third day of January, 2022

Secretary of State

Tracking Number: 3094136669CC

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

Our Experience as Prime

TLC has provided engineering services for various types of public facilities. We understand that these projects require flexibility, redundancy and survivability that our engineers address by incorporating efficient low energy and water saving features into its designs.

Currently, TLC Engineering for Architecture provides mechanical, electrical, plumbing and fire protection engineering services for several continuing services contracts. We have been working with the **City of Boca Raton** since 2003, some of the project include equipment replacements at the City Hall, CCTV system design for several City parks and programming for the Municipal Library. We were awarded the Continuing Services contract for the **City of Miami Beach** in 2010 and have been providing MEP engineering services since then. Some of the projects include site investigation to analyze the existing HVAC and electrical systems for Fire Station #4, air handling unit replacements at the City Hall and HVAC upgrades at the Police Station. Since 2018, we were awarded the continuing service contract with the **City of Miami**. We have provided engineering services for several projects included the Fire Rescue Facility Assessment, Police Headquarters assessment and HVAC replacement, and equipment replacement at Fire Station #3.

City of Boca Raton

Wayne Anderson
Facilities Manager
201 West Palmetto Park Road
Financial Services Department
Boca Raton, FL 33431
wanderson@ci.boca-raton.fl.us
(561) 416-3391
Duration of contract: 2003 – to present

City of Miami Beach

Jorge Guanchez
Facilities Capital Projects Coordinator
1833 Bay Road
Miami Beach, FL 33139
jorgeguanchez@miamibeachfl.gov
(305) 673-7000
Duration of contract: 2010 – to present

City of Miami

Carlos Lozano
Senior Project Manager
Office of Capital Investments
444 SW 2nd Avenue, 8th Floor
Miami, Florida 33130
clozano@miamigov.com
(305) 416-1247
Duration of contract: 2018 – to present

Relevant Experience

As mentioned before, TLC has provided these types of contracts to private and public entities before achieving successful results. Some of these projects include:

Nuveen – North America Portfolio Sustainability Consulting

Services provided: MEP Engineering, Energy Audit, Commissioning, Sustainability Consulting
Duration of contract: 2008 - ongoing
Client contact:
Amarjit (Marj) Bains, Senior Vice President
Jones Lang LaSalle
(305) 423-4701
Amarjit.Bains@am.jll.com

City of Orlando Energy Upgrades Phase II

Services provided: MEP Engineering, Energy Audits, Energy Modeling, Retro-Commissioning
Duration of contract: 2016 – to present
Client contact:
Ian Lahiff, PE, Energy Project Manager
Fleet and Facilities Management Division
Office of Business and Financial Services
City of Orlando
(407) 246-3853
ian.lahiff@cityoforlando.net

City of Orlando City Hall Energy Efficiency Improvements

Services provided: MEP Engineering, Energy Audit, Energy Modeling, Commissionig
Completion date: 2019
Client contact:
Ian Lahiff, PE, Energy Project Manager
Fleet and Facilities Management Division
Office of Business and Financial Services
City of Orlando
(407) 246-3853
ian.lahiff@cityoforlando.net

Additional Experience

Cape Coral Energy Conservation Measures
Cape Coral, Florida
Services provided: Mechanical and Electrical Engineering
Completion date: 2012

Cheatham County Energy Audits
Chatham County, Tennessee
Services provided: Mechanical Engineering, Energy Modeling, Energy Audit
Completion date: 2011

Augusta University ESPC: Third Party Review and Facilitation
Augusta, Georgia
Services provided: Construction review, financials assessment, ECM cost and design review

Clayton County Government Energy Audits
Jonesboro, Georgia
Services provided: Energy Audit for several facilities

Sumter County Government Energy Audits
Sumter, South Carolina
Services provided: Energy Audit for several facilities

Additional details on these and previous projects are included in the following pages

CITY OF BOCA RATON CONTINUING SERVICES CONTRACTS

Boca Raton, Florida

TLC has been working with the City of Boca Raton since 2003 under two consecutive continuing services contracts. Recent projects have consisted of assessments for several of their facilities and HVAC upgrades as a result of the recommendations provided by TLC. All facilities remained operational during renovations.

Selected task order projects completed under these contracts include:

CCTV for City Parks: CCTV system to provide coverage of the parking lots in Sugar Sand Park, Lake Wyman Community Park, Patch Reef Park, Hughes Park and Sand Pine Park.

City Hall: An addition to the IT room required the design of back-up A/C, UPS and dry chemical fire suppression, as well as upgrading existing chillers.

Municipal Library: Extensive charrettes involving the community and library staff led to the programming of a new building that incorporates green technologies and materials and is eligible for LEED Certification. The library includes areas for collections, computers, patron seating, employee workspace and public amenities such as a coffee bar, bookstore and 200-seat multipurpose meeting room.

City Hall and Community Center: Upgrades for the connections from the relocated transfer switches to the City Hall/Community Center, including exhaust ventilation of existing Florida Power Light vault.

Sugar Sand Park Community Center: Review of the Test and Balance Report and recommendations for remedial work to reconcile temperature or humidity anomalies.

PRIME CONSULTANT
TLC Engineering Solutions

OWNER
City of Boca Raton

CONSTRUCTION COST
<$2,000,000
(each project)

COMPLETION DATE
First Contract:
2003 – 2014

Second Contract:
2015 – Ongoing

TLC SERVICES
Mechanical, Electrical, Plumbing

CITY OF MIAMI BEACH CONTINUING SERVICES CONTRACTS
Miami Beach, Florida

TLC has held two consecutive continuing services contract with the City of Miami Beach since 2009. Task order projects that TLC has worked on under these contracts include:

777 Building HVAC Replacement: TLC designed a new energy-efficient, water-cooled chilled water system for this five-story building, including variable air volume air handlers with electronic DDC controls.

City Hall Fire Alarm Upgrade: The existing fire alarm system remained in place until the code-compliant fire alarm system had been installed and approved by the City of Miami Beach Fire Department.

Parking Lot Upgrades: Electrical lighting design for three parking lots. Lot 4D's design incorporates a stormwater harvesting system interfaced with the irrigation system for landscaping purposes.

City Hall AHU Replacement: One of the main challenges was to keep the building operational during the replacement of nine AHUs. Improvements to the chilled water system were completed as well. TLC retrofitted of the building automation in order to accommodate the more modern and energy-efficient technologies included in this effort.

Fire Station #4 Assessment and HVAC Upgrades: Detailed site investigation for the two-story fire station included analysis of existing HVAC and electrical systems. TLC subsequently designed and implemented the replacement of all existing AHUs.

10th Street Auditorium & Bass Museum of Art: Replacement of the building automation system, including master controllers, backbone and user interface.

Police Station Renovations: Renovations involved replacement of variable frequency drives for all eight air handing units, along with replacement of all VAV boxes.

PRIME CONSULTANT
TLC Engineering Solutions

OWNER
City of Miami Beach

CONSTRUCTION COST
< $2 Million (each project)

COMPLETION DATE
First Contract:
2009 – 2014

Second Contract:
2015 – Ongoing

TLC SERVICES
Mechanical, Electrical, Plumbing

NORTH AMERICAN PORTFOLIO SUSTAINABILITY CONSULTING

Across America in Various Major Cities

TLC has provided energy and engineering services on numerous buildings owned by this international REIT, including 701 Brickell (above), for more than a decade. Nuveen has established energy reduction target goals varying from 3% to 6% annually, based on the type of building, age and location and TLC is assisting them in achieving these goals with energy audits, Retro-Cx and identification and implementation of energy conservation measures.

In 2018 Nuveen expanded TLC's role and retained the firm to work in conjunction with the Owner and Property Managers to identify building assets that will be enhanced by achieving LEED certification to enhance marketability, as well as for inclusion in the Energy Star Program. Also important are local municipality and state requirements for sustainability and code compliance, energy rebates and other financial opportunities to improve asset quality.

Energy audits are completed on selected assets annually, typically of approximately 20 Class A office buildings, selected by Nuveen for targeted improvement. To provide the required level of attention, TLC assembled three experienced teams to accomplish the field work. Standards for assessing and reporting were established and the teams are coordinated by a senior TLC sustainability consultant, working under the direction of a senior engineer.

Representative Nuveen portfolios include:

- **Boston Portfolio Building #2** - 731,559 Gross Rentable SF; Capital Investment of $148,000 for an ROI of 2.1 years to achieve a 9.9% reduction in electric use
- **Washington DC Portfolio Building #2** - 517,465 Gross Rentable SF; Capital Investment of $366,700 for an ROI of 3.42 years to achieve an 8% reduction in electric use
- **Miami Portfolio Building #1** - 740,000 Gross Rentable SF; Capital Investment of $790,000; annual savings of $327,000 in energy / water costs. Achieved LEED v2.2 EB Gold Certification and subsequent LEED v2009 EB Gold re-certification.

OWNER
Nuveen, a subsidiary of TIAA

MAJOR COMPONENTS
Class A Office Buildings
Lighting Upgrades & Controls
Chiller Upgrades
HVAC Controls
Low Flow Plumbing Fixtures
Ventilation

PROJECT SIZE
40,000 square feet - One million square feet

COMPLETION DATE
2008 – ongoing

TLC SERVICES
Commissioning, Mechanical, Electrical, Plumbing, Energy Audits, Energy Modeling, Sustainability Consulting, LEED Administration

701 BRICKELL AVENUE LEED EB: O&M IMPROVEMENTS
Miami, Florida

More than a decade of effort has consistently improved this 35-year-old Miami high-rise to achieve repeated LEED O+M v2009 Gold recertification by improving building systems. Following an initial analysis and calibrated energy model, a roadmap was developed to deliver a building that could be marketed specifically to tenants desiring a certified building. Once basic LEED EB: O&M certification was achieved, the goal of LEED Gold recertification was pursued, moving the building towards greater levels of sustainability and efficiency. Major improvements to the building include:

- Upgrading the chiller plant with an annual savings of $75,000 from reduced maintenance and energy savings (seven-year payback for a chiller with an expected service life of 20 years).
- Replacing toilet fixtures at a cost of $110,000 (three-year ROI based on monthly water consumption).
- Installing water meters to reduce the volume used for irrigation and monitor water consumption used by tenants.
- Retrofitting building lighting with energy efficient T-8 fluorescents and adding motion sensors to significantly reduce energy consumption, with a first year savings of $325,000.
- Re-calculating the ventilation air requirement resulting in a four-month ROI, potential for future energy use reductions by demand-controlled ventilation and better control of, and resistance to, potential mold issues.
- Installing variable speed drives on HVAC equipment and domestic water pumps to meet the varying cooling demands.
- Adding a “cool roof” with a solar reflectance index calculation of 104.

PROPERTY MANAGER
JLL Americas, Miami, Florida

OWNER
Nuveen

MAJOR COMPONENTS
New Energy Management System
Upgraded Chiller Plant
Water Metering; Lighting Controls

SIZE
740,000 square feet

COMPLETION DATE
Phase I: 2010; Phase II: 2012
LEED Recertification: On-going

TLC SERVICES
Mechanical, Electrical, Plumbing, Fire Protection, Audio-Visual, Energy Modeling, LEED EB Consultant,Project Administration, Retrocommissioning

MAJOR AWARDS
USGBC Best of Building Award, Best LEED O+M, 2011
BOMA TOBY Award (500k to 1M sf), 2012

Certified LEED v2.2 EBOM, 2010

LEED O+M v3 Gold Re-certification I, 2013

LEED O+M v3 Gold Re-certification II, 2018

801 BRICKELL OFFICE BUILDING
Miami, Florida

Constructed in 1985, this Class A LEED EBOM certified 28-story office building was analyzed to determine appropriate energy conservation measures (ECMs); balance capital investment and return; reduce costs; and increase the overall value and performance of the asset. Tenants have gross lease contracts with the building owner. The building is served by a chilled water system via two chillers with total chiller capacity of 1200 tons and three central station air handling units located in the third floor mechanical area. TLC modeled the existing building and simulated three different chiller plant replacements, including the return on investment (ROI) over a 10-year period. Chiller plant variations included traditional water-cooled centrifugal, magnetic frictionless chillers and VFD controlled chillers.

After the chiller plant was replaced, other ECMs were studied for capital budgeting. Implemented projects include:

- Replacement of constant volume 100 HP AHU motors with VFD-motor assemblies
- Lighting replacements
- Controls upgrades
- VAV boxes

Phasing of upgrades allowed subsequent investments to build on the efficiencies achieved earlier in the process. It is anticipated that the upgrades have a life cycle of minimally 10 years, with several lasting 20 years or more. The building was 95% occupied throughout the process. The combined return on investment was conservatively estimated at 35%, with the assumption that energy prices would remain stagnant.

Over the course of the upgrades, utility costs decreased by nearly $1/square foot.

PROPERTY MANAGER
JLL Americas
Miami, Florida

OWNER
Nuveen
New York, New York

MAJOR COMPONENTS
Chiller Upgrade
Lighting Replacements
Controls Upgrades

SIZE
415,000 square feet

COMPLETION DATE
Ongoing

TLC SERVICES
Mechanical, Electrical, Energy Modeling, Commissioning

Certified LEED v2008 O+M Silver, 2011

Image Courtesy of Ben Tanner

CITY OF ORLANDO ENERGY UPGRADES PHASE II
Orlando, Florida

Initially contracted to audit and engineer energy conservation measures (ECMs) for 27 city-owned buildings, TLC was awarded subsequent contracts to audit, identify and design ECMs for an additional 55 buildings, including the Amway Center and City Hall as part of Orlando's GreenWorks program, which is the Mayor's initiative to make Orlando one of the nation's most sustainable and resilient cities.

TLC developed measures to save the city $2.4 million annually for this portfolio of facilities using a proven three-step approach;

- ASHRAE Level II energy audits
- Engineering appropriate ECMs based on target payback parameters
- Contract administration / integration of the city's building automation systems (BAS), lighting control systems, plug load energy management systems and public access display systems into one native BACnet web-based access point

TLC's detailed analysis revealed that the 875,000 SF Amway Center was the city's largest energy consumer by cost, totaling approximately $3.8 million annually. Initial efforts strategically focused on the energy performance analysis and audit of the indoor lighting systems within the "bowl", audit of the indoor lighting systems outside the bowl and audit of the indoor non-lighting systems (HVAC).

In 2016 the City joined the Department of Energy's Better Buildings Challenge and pledged to reduce municipal energy use by 20% of 2022. This goal was exceeded in 2021 with a 23% reduction across more than five million square feet of the city's building portfolio. TLC contributed to this significant reduction with audits, retro-commissioning and replacement of inefficient equipment with higher efficiency equipment. The City has been recognized by the Department of Energy for their continuing efforts to be the greenest, most sustainable city in America.

OWNER
City of Orlando
Orlando, Florida

MAJOR COMPONENTS
Amway Center
City Hall
Waste Water Treatment Plants
Fire / Police Stations
Community Centers
Administrative and Support Facilities
Critical Infrastructure Facilities

COMPLETION DATE
2018; on-going monitoring and verification

TLC SERVICES
Project Administration, Documentation
ASHRAE Level II Energy Audits
Mechanical, Electrical, Plumbing
Fire Protection, Energy Modeling
Retro-Commissioning

PUBLICATION
The process and savings at Amway Center were documented in a 2017 ***Building Design & Construction*** article

CITY OF ORLANDO CITY HALL ENERGY EFFICIENCY IMPROVEMENTS
Orlando, Florida

In 2007, Mayor Buddy Dyer initiated GreenWorks Orlando to transform the city into one of the most environmentally-friendly communities in the nation. As part of this program, TLC was awarded a contract to audit, identify and develop energy conservation measures (ECMs) for the 25-year old City Hall. TLC completed an ASHRAE Level II audit of the 11-story administrative office building, revealing several opportunities for improving energy performance including:

- Reducing the lighting density from 1.9 watts / sf to .7 watts / sf, with a projected annual savings of $133,165 and a 4.3 year payback, through a building-wide lighting retrofit to high-efficiency LED fixtures
- The use of daylight harvesting lighting controls and occupancy sensors
- Refurbishment of existing air handling units
- Rezoning of ductwork to coordinate with current floor plans
- Installation of a new building automation system (BAS)
- Five new elevators with energy recovery technology, also solving frequent operational issues

The building remained occupied throughout the renovation by using under-utilized space as swing space. The improvements achieved operational cost savings and reduced maintenance costs due to long life LED fixtures. The new building automation systems (BAS) was projected to provide annual savings of $77,160, based on a calibrated energy model. The model also predicted annual operational cost savings of the identified Facility Improvement Measures at $167,413, and the estimated total annual operational cost savings of the ECMs at $154,405. Data is being tracked on the actual energy savings.

In 2016 the City joined the Department of Energy's Better Buildings Challenge and pledged to reduce municipal energy use by 20% of 2022. This goal was exceeded in 2021 with a 23% reduction across more than five million square feet of the city's building portfolio.

CONSTRUCTOR
Air Mechanical & Services Corporation
Casselberry, Florida

Yovaish Construction Services
Winter Park, Florida

OWNER
City of Orlando
Orlando, Florida

ARCHITECT (SUB TO TLC)
Little Diversified Architecture
Orlando, Florida

MAJOR COMPONENTS
Administrative and Support Offices
City Council Chambers
Mayor's Office
Data Center
IT Offices
Mechanical Equipment Penthouse

SIZE
230,000 square feet

CONSTRUCTION COST
$5.6 Million

COMPLETION DATE
2019

TLC SERVICES
Mechanical, Electrical, Plumbing, Fire Protection, Energy Modeling, Commissioning, Energy Audit, Construction Administration

CAPE CORAL ENERGY CONSERVATION MEASURES
Cape Coral, Florida

TLC worked closely with the city to identify energy conservation measures in the City Hall and the Public Works Administration Building. ECMs were evaluated based on initial costs, reduction in energy costs and feasibility. This information, along with additional data from the city, was used to apply for federal economic stimulus grant money to fund the engineering and construction of the energy conservation measures.

City Hall (pictured above) is a 300,000 square foot building constructed in the 1980s that has a significant west-facing glass facade and was operating on the original building systems. The Public Works Building, 45,600 square feet, was constructed in 1956. Energy conservation measures implemented in the buildings include:

- Recalculation/reduction in outside air and exhaust air to align with code minimums
- Replacement of pneumatic controls system with direct digital control system
- Detailed controls sequences incorporating supply air temperature reset, outside air temperature reset, chilled water supply reset, demand control ventilation and variable primary pumping
- Maintenance replacement of premium efficiency air-cooled chillers
- Lighting power reductions throughout the building

As a result of the implemented measures, and without significant change in the use of the building, power use in City Hall has reduced by as much as 50% per month when compared to the year prior. The Public Works Building is also operating much more efficiently, with reductions as high as 69% per month. The City is saving money and energy, while maintaining comfortable work spaces.

OWNER
City of Cape Coral
Cape Coral, Florida

SIZE
330,000 square feet

CONSTRUCTION COST
$4.6 million

COMPLETION DATE
2012

TLC SERVICES
Mechanical, Electrical

CHEATHAM COUNTY ENERGY AUDIT

Cheatham County, Tennessee

TLC teamed with Trane Business Services to increase the energy efficiency of Cheatham County Board of Education's school buildings. TLC energy specialists completed energy modeling of 12 schools in the district, ranging in size from 49,000 square feet to 161,600 square feet. The buildings are predominantly one story and none featured building automation systems.

Prior modeling, TLC conducted site surveys of each building, gathered drawings, documented existing conditions, noted energy consuming end-uses and identified utility meter distribution. Each energy model was calibrated to match the utility bills of each school building. Calibrating the models to reflect spikes in peak demand or consumption, such as evening basketball games in the gym, after-school parent-teacher meetings or weekend science fairs proved challenging.

Working alongside Trane, TLC recommended ways to increase efficiencies, identified potential energy conservation measures and prepared payback analysis. First-cost budget constraints limited the conservation measures that were evaluated. HVAC equipment replacement was a top priority. Electric heating was converted to natural gas heating for most rooftop units. Installation of a building management system in each school and classroom energy recovery units were proposed for inclusion into the final design. The project was delivered through the performance contracting method.

CLIENT
Trane Business Services
Nashville, Tennessee

CONSTRUCTOR
Lee Company
Nashville, Tennessee

OWNER
Cheatham County Board of Education
Ashland City, Tennessee

MAJOR COMPONENTS
Classrooms
Cafeteria
Library
Gymnasium
Offices

SIZE
1,132,110 square feet

COMPLETION DATE
2011

TLC SERVICES
Mechanical, Energy Audit, Energy Modeling

AUGUSTA UNIVERSITY ESPC: THIRD PARTY REVIEW AND FACILITATION
Augusta, Georgia

Description of Facilitation Services Provided

TLC Engineering was tasked with providing owners representation and review of the project developed by ABM for the State of Georgia. TLC was brought in to assist in the following:

- Reviewing the contractors work for completeness relative to state requirements and industry standards.
- Technical review of energy savings calculations and projections. Overall assessment on the probability of achieving project savings.
- Review of baseline development methodology and technical approach.
- Review of project financials, implementation schedules, and O&M requirements.
- Risk assessment including review of M&V plan and customer's ability to meet O&M requirements.
- ECM cost and design review.

TLC worked with the State of Georgia and the Augusta University to review the entire ESPC project and provide feedback to the owner and ESCO. TLC met with the team to go over findings and address concerns. Both the owner and ESCO worked through the concerns and came to a consensus on ways to resolve or mitigate issues and move the project forward.

Description of Facilities Included in the Project

This project involved upgrades to 2 district chilled water plants & 1 district hot water plant on Augusta University's Campus, which provide cooling and heating for a large portion of the Campus's buildings and Augusta University Medical Center. Other ECMs impact 12 additional existing bldgs. In total, the project impacts 18 existing buildings and 1 building that is currently under construction. Buildings impacted by the project include:

- BLDG AA - Administration, G. Lombard Kelly Building (40,615 Sq. Ft.)
- BLDG AB - Robert Greenblatt, MD Library
- (77,421 Sq. Ft.)
- BLDG AE - Pavilion I (35,812 Sq. Ft.)
- BLDG AF - Pavilion II (26,458 Sq. Ft.)
- BLDG BF - Murphy Building (30,236 Sq. Ft.)
- BLDG BG - Dugas Building (43,252 Sq. Ft.)
- BLDG BH - Central Energy Plant (38,509 Sq. Ft.)
- BLDG EC - Health Sciences Bldg.
- (194,167 Sq. Ft.)
- BLDG CL - Hamilton Wing (46,233 Sq. Ft.)
- BLDG CA - Interdisciplinary Research Building (211,249 Sq. Ft.)
- BLDG CB - Carl T. Sanders R & E Building (305,799 Sq. Ft.)
- BLDG CM - South Energy Plant (13,316 Sq. Ft.)
- BLDG PAT - Maxwell Performing Arts Theatre (28,660 Sq. Ft.)
- BLDG CFH - Christenberry Fieldhouse
- (127,315 Sq. Ft.)
- BLDGs AD, BA, BB, BI, BP, BT – Augusta University Medical Center
- New – College of Science and Mathematics

Energy Conservation Measures

Most of the savings for this project were generated by a chiller plant optimization measure at 2 district chilled water plants. The chilled water plant optimization measure included converting the BH and CM Central Energy Plants from primary-secondary pumping to variable primary pumping. The BH and CM chiller plants will be controlled and optimized by the Armstrong Central Plant Optimization (CPO) Algorithm, which stages chillers, pumps, and cooling towers in a manner that reduces annual plant energy consumption by over 25%.

The project includes 6 ECMs:

- Chiller Plant Optimization (2 large central plants)
- Boiler Plant Optimization (1 large central plant)
- Chilled Water & Steam Pipe Insulation (2 plants)
- Retro-Commissioning (3 facilities)
- Lighting (2 facilities)
- CHW & HW Pumps, Motors, and VFDs (7 facilities)

$8.58M
Total Value of Construction

CLAYTON COUNTY GOVERNMENT
Jonesboro, Georgia

Detailed energy audits and engineering design of ten county facilities to provide identification of energy conservation measures (ECMs), calibrated building energy models, and savings calculations for proposed ECMs. The largest building was the jail/ courthouse, and work in this facility included:

- Conversion of the chilled water plant to variable primary flow.
- Replaced fire-tube boilers with modern modular condensing boilers.
- The study led to TLC providing full design documents for the project.
- $5,700,000 total project cost.
- 1,000,000+square feet.

Annual Energy Savings Identified

$247,400

SUMTER COUNTY GOVERNMENT
Sumter, South Carolina

An investment grade energy audit of the following 11 government buildings:

- Health & Human Services
- Computer Center Office Building
- County Administration Building
- Emergency Medical Services
- South Sumter Resource Center
- Detention Center
- Magistrate Court
- Courthouse
- Sheriff's Department
- Patriot Hall
- Civic Center

- Analyses of electricity and natural gas consumption and costs for all buildings.
- Site investigation of all buildings to document existing conditions, existing equipment nameplate data, and equipment operation.
- Interviews of maintenance personnel and occupants to ascertain operational procedures and/or trouble spots in systems surveyed.
- Development of Trane Trace 700 energy models for all buildings. All models were calibrated to within 5% of baseline utility data including kWh consumption, kW demand and natural gas consumption.
- Development of Energy Conservation Measures (ECMs) for each building.
- Deployment of data loggers including temperature, state, plug load, and light level as applicable for two weeks. Data was included in the calibration of the baseline energy model.
- Development of a report summarizing results. Includes site survey notes and information, utility analyses, and an ECM summary.
- Preliminary design including narratives, one-line diagrams, and mark-up of existing drawings as required to develop pricing.
- 426,000 square feet.

Annual Energy Savings Identified

7,540	1,498,223	24,283
MMBTU	kWh	therms

$163,600

Tab 3. Organizational Profile & Qualifications

4.2.4 Organizational Profile and Project Team Qualifications

The proposed team covers each critical task of the energy audit and assessment process. We have assigned a Customer Contact, who will be the overall manager of the team. Two teams of engineers have been assigned; each team will be under the guidance of our Team Leaders. The Team Leaders will be your day-to-day contact as the contract progresses. As the final step, our Project Financing Liaisons will provide detailed analysis and provide recommendations for decision-making.

More details on these key team members are below:

Customer Contact / Principal-in-Charge

Erick Gonzalez would be the person the city would contact to reach an agreement on the services desired, the schedule for those services and to receive ongoing feedback on the performance of the team. As Principal-in-Charge, Erick is responsible for the quality of the reports and quality of the service. He will be interacting with the City to make sure the delivered product meets expectations.

Team Leader

Pelayo Calante has many years of experience in facility auditing, and making recommendations regarding (ECM)s Energy Conservation Measures and (FIM)s Facility Improvement measures that will repair any code related defects. Pelayo also has a wealth of knowledge about the local equipment market and our unique ASHRAE Zone 1A tropical environment. The team leader, works with their team to produce comprehensive analysis and recommendations with anticipated costs and ROI for each ECM.

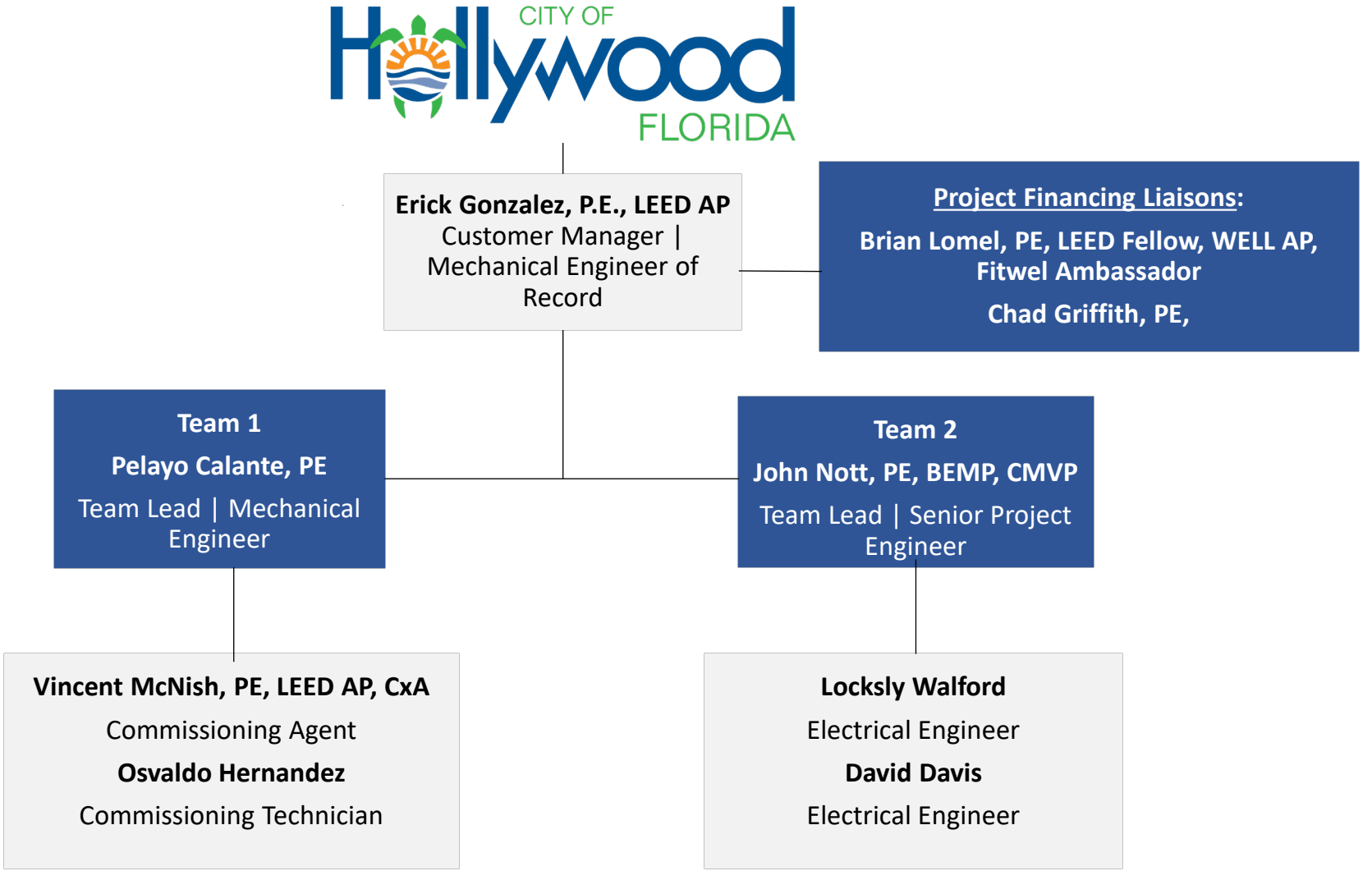
Team Leader

John Nott has completed audits and energy models for hundreds of facilities across the globe, from Miami to Japan. His team has been producing reports that advise clients on next steps for their facilities to improve their energy consumption, as well as function better to achieve the owners desired goals. The team leader, works with their team to produce comprehensive analysis and recommendations with anticipated costs and ROI for each ECM.

Project Financing Liaisons

Brian Lomel and Chad Griffith both have experience working with customers that either self-finance their upgrades, work with ESCO's and/or work with EaaS Energy as a Service providers. Having worked with each of these methodologies, they will be able to work with the TLC team leaders to provide a pros and cons analysis of each financing vehicle, and make connections to interested financing partners.

Our Organizational Chart and resumes are included in the following pages.


CITY OF
Hollywood
FLORIDA
Erick Gonzalez, P.E., LEED AP
Customer Manager | Mechanical Engineer of Record
Project Financing Liaisons:
Brian Lomel, PE, LEED Fellow, WELL AP, Fitwel Ambassador
Chad Griffith, PE,
Team 1
Pelayo Calante, PE
Team Lead | Mechanical Engineer
Team 2
John Nott, PE, BEMP, CMVP
Team Lead | Senior Project Engineer
Vincent McNish, PE, LEED AP, CxA
Commissioning Agent
Osvaldo Hernandez
Commissioning Technician
Locksly Walford
Electrical Engineer
David Davis
Electrical Engineer

ERICK GONZALEZ, PE, LEED AP

Regional Director | Principal

BACKGROUND

Erick has extensive engineering management experience and specializes in the design of complex HVAC systems, including controls, plumbing and fire protection systems. As a LEED AP, he is a specialist in integrated building practices and designing systems that deliver quality indoor environments. Erick excels in providing environmentally friendly, innovative and cost-effective solutions for high-performance HVAC designs.

EXPERIENCE

Broward Center for the Performing Arts, Ft. Lauderdale, Florida
LEED Consulting and Commissioning for the renovation and expansion of arts center includes new pavilion and tunnel, production and education wings, courtyard, lobbies and restrooms. Certified LEED NC 2009 Silver. 2015, USGBC South Florida, Outstanding Building of the Year, Public Spaces. $56 million / 70,000 sf new construction. 250,000 sf renovated space, 320,000 sf total

701 Brickell, Miami, Florida
Client manager for several projects including demand control ventilation, cooling tower VFD, ionization and UV lights for AHUs, outdoor air calculations, AHU replacements, and multiple tenant improvements.

801 Brickell, Miami, Florida
Client manager for several projects including retro-commissioning, EMS updated, garage exhaust fan, ionization and UV lights for AHUs, peer review.

City of Riviera Beach Marina District South Redevelopment, Riviera Beach, Florida
Redevelopment of the Riviera Beach Marina District, with the first phase consisting of a two-story events center, a separate restroom / golf cart garage building and a concession building housing various mechanical functions. Provided engineering services for the master plan and security design for OnSSI Occularis CCTV. $38 million / 36,488 sf / LEED NC v2009 Silver Certified

Pompano Beach Public Library, Pompano Beach, Florida
New single-story beachside library with a 1,000 sf meeting room, main lobby, staff lunch room, circulation room, reference desk area, work room and offices. LEED Certified v2009. $1.5 million / 5,400 sf

EDUCATION

Florida International University
M.S., Engineering-Construction Management
2008
University of Havana
B.S., Mechanical Engineering
1994

YEARS OF EXPERIENCE

TLC: 11 years
Prior: 16 years

REGISTRATIONS

PE FL 53848

CERTIFICATIONS

LEED AP, GBCI
NCEES, NCEES

PROFESSIONAL AFFILIATIONS

USGBC, Member

ASHRAE, Member

NFPA, Member

PELAYO CALANTE, PE

Senior Project Engineer | Associate

BACKGROUND

Mr. Calante has 37 years of experience leading mechanical, electrical, fire protection and plumbing engineering teams. His experience includes several fields of mechanical engineering, nuclear, civil and environmental engineering, quality control and design and project management. He has also taught courses as an associate professor in the construction and assembly of nuclear power plants. He has extensive knowledge of the Florida Building Code and other design codes including the National Fire Protection Association (NFPA); American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE); and American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE); and American Society of Mechanical Engineers (ASME).

EXPERIENCE

City of Miami Police Headquarters Assessment, Miami, Florida
Mechanical & Electrical engineering services for the project which consists of providing a Full Building Assessment that includes providing Heat Load Calculations for the entire building, providing a building BMS System, cost estimation report.

701 Brickell, Miami, Florida
Several projects as building engineer including ionization and UV lights for AHUs serving each office level, cafeteria grease trap replacement, garage fire sprinklers and multiple tenant improvements.

801 Brickell, Miami, Florida
Several projects as building engineer including retro-commissioning, ionization and UV lights for AHUs serving each office level, energy star certification, and multiple tenant improvements.

Millennium Miami-LEED Commissioning, Miami, Florida
Commissioning services for the project which consists of commissioning services for Millennium, currently negotiating a lease for 1111 Brickell in Miami, FL. The space consists of approximately 74,079 rentable square feet (“RSF”) collectively comprised of the entire 24th and 25th floors in the building collectively consisting of 49,386 and the entire 23rd floor in the Building consisting of 24,693 RSF. The project includes general office space, conference, technology, trading, staff, meeting, and reception spaces located in Miami, FL

City of Miami Beach Continuing Services, Miami Beach, Florida
MEP Engineering services for several projects including: Bass Museum generator replacement, public garages fire alarm replacement, convention center 40-yr recertification, city hall 50-yr recertification, and more.

Miami Dade College Dyer Building Renovation, Miami, Florida
Renovation of National Register of Historic Places former federal courthouse to become classrooms, large event venues, library spaces, open student collaboration spaces, offices and other related college spaces. Registered for LEED v4 CI. $40 million

EDUCATION

Moscow Institute of Power Engineering
M.S., Nuclear Engineering
1984
Moscow Institute of Power Engineering
B.S., Nuclear Engineering
1981

YEARS OF EXPERIENCE

TLC: 3 years
Prior: 34 years

REGISTRATIONS

PE FL 53829

John Nott, PE, CEM CMVP, BEMP

Senior Project Engineer | Energy Services

BACKGROUND

John leads one of TLC's Energy Services groups responsible for energy audits and assessments for clients across the country. He has a background in mechanical systems design and performance contracting, which gives him a unique perspective on the application of many leading energy efficiency strategies. John combines the practical application of proposed energy conservation measures with over a decade of experience evaluating their impacts to ensure accurate predictive modeling, design, and construction feasibility.

EXPERIENCE

Delaware Health and Social Services Energy Upgrades, Delaware
Energy audits and analysis for the Delaware Health and Social Services (DHSS) department. The project involved identifying, analyzing, and scoping out energy efficient upgrades for 4 DHSS locations including the Delaware Hospital for the Chronically Ill (DHCI) and the Delaware Psychiatric Center (DPC). John provided energy engineering support from preliminary investigations through system commissioning. The project is realizing around $500,000 in annual savings and included 1.25 million sf of facilities.

Clayton County Government, Jonesboro, GA
Energy engineering analysis for an investment grade energy audit of over 1,000,000 square feet of county facilities. The project included detailed design of an energy efficient boiler plant for the County Correctional Complex. $250,000 in annual energy savings was identified as a part of this project. Other measures included controls and lighting.

Augusta University ESPC: Third Party Review and Facilitation, Augusta, GA
TLC Engineering was tasked with providing owners representation and review of the project developed by ABM for the State of Georgia. TLC was brought in to assist in the following: Reviewing the contractors work for completeness relative to state requirements and industry standards; Technical review of energy savings calculations and projections. Overall assessment on the probability of achieving project savings; Review of project financials, implementation schedules, and O&M requirements; Risk assessment including review of M&V plan and customer's ability to meet O&M requirements; as well as ECM cost and design review.

Sumter County Government, Sumter, SC
Energy engineer for an investment grade energy audit of eleven government buildings including an analysis of electricity and natural gas consumption and costs for all buildings. A site investigation of all buildings documented existing conditions, equipment and nameplate data, and equipment operation. Energy models were developed for all buildings and calibrated to within 5% of baseline utility data. The audit identified $163,000 in annual energy savings. 426,000 sf.

EDUCATION

Georgia Institute of Technology
B.S. Mechanical Engineering
2007

YEARS OF EXPERIENCE

TLC: 14 Years

REGISTRATIONS

Registered Professional Engineer (PE) in GA

CERTIFICATIONS

Certified Energy Manager (CEM)

Building Energy Modeling Professional (BEMP)

Certified Measurement & Verification Professional (CMVP)

LEED Green Associate

A. BRIAN LOMEL, PE, LEED Fellow, WELL AP, Fitwel Ambassador

Director of PEAK Institute | Principal

BACKGROUND

Brian is an advocate of sustainable design and incorporating WELL Building Standards into designs to ultimately provide financial and human benefit. His technical understanding of building systems blended with his strong commitment to common sense sustainability and out-of-the-box creativity has resulted in simple, elegant, and sustainable solutions for numerous buildings. Brian was among the first in the nation to earn his WELL AP, bringing an emphasis on designing buildings that protect and promote human health and wellness. He leads PEAK Institute, or PI, TLC's technical resource group focused on high-performance projects. Additionally, he serves on TLC's board of directors, supporting consistent delivery of services across the firm.

EXPERIENCE

Nuveen North America Portfolio Sustainability Consulting
Multi-year contract to provide energy audit, analysis and continuous commissioning for office buildings held by an international REIT. Goal of effort is to increase the sustainability and marketability of the assets, as well as decrease energy and water operating expenses. Multiple TLC offices and numerous staff members are engaged in providing a high level of service to assure client goals are met.

Port Miami Cruise Terminal F LEED and Commissioning, Miami, Florida
Phased renovation and new construction improvement to Terminal F at the Port of Miami. Project will be designed in 1 Phase and built in multiple phases by the same construction team. 179,000 SF / LEED Admin / Energy Modeling / Fundamental

Port Everglades Terminal 4 Commissioning and Energy Services, Fort Lauderdale, Florida
Modifications to the existing check-in, baggage lay down area, passenger circulation and U.S. Customs and Border Protection spaces. Modified the exterior passenger waiting/check-in area and western façade of the existing terminal to relocate the terminal entrance and made improvements to the exterior roadway system on the west side of the building. Includes 96,500 sf of space on two floors with an exterior ground transportation area on the west side of the building with 172 surface parking spaces and a waiting area for buses, taxis and cars. Certified LEED NC 2009. $24 million / 104,336 sf

Boca West Country Club Health & Wellness Audit / Analysis, Boca Raton, Florida
Audit and analysis of HVAC and lighting systems to recommend best practices to improve indoor air quality; analysis of options for health and wellness certification systems that include WELL, FitWell, and BREEAM. TLC prepared a WELL scorecard; provided WELL certification administration to create a conceptual phase WELL Design Charrette. Indoor air quality testing measured CO2, total VOCs, particulate matter, temperature, and humidity. Acoustical consulting included in scope to help the owner meet their acoustic goals required for WELL certification. 550,304 sf

EDUCATION

Georgia Institute of Technology
B.S., Mechanical Engineering - Cooperative Plan
1989

YEARS OF EXPERIENCE

TLC: 25 years
Prior: 9 years

REGISTRATIONS

PE FL 48488
PE GA PE020660

PROFESSIONAL AFFILIATIONS

Urban Land Institute, Co-Director, Building Healthy Places Committee

United States Green Building Council - Florida Chapter, Member

BOMA Florida, Energy Committee Vice Chair

Construction Executives Association, Past President

Greater Miami and the Beaches Hotel Association, Sustainability / Green Committee Team Member

VINCENT L. MCNISH, PE, CxA, LEED AP, CPD

Senior Project Engineer | Commissioning | Associate

BACKGROUND

Vincent has over 30 years of experience in all phases of mechanical engineering analysis and design for HVAC systems for all building types including educational, commercial and industrial facilities. His areas of expertise are various types HVAC systems, central cooling and heating plants, building pressure and thermal load analysis, building energy conservation related to HVAC systems. Plumbing experience involves commercial and residential building configurations, systems design and code compliance studies. Fire Protection designs include wet, dry and pre-action systems experience. Several types of hazard occupancies include low and medium high-rise commercial and residential buildings. His project management skills allow him to coordinate successfully with the mechanical team to make sure your requirements are met throughout the project.

EXPERIENCE

801 Brickell, Miami, Florida
Client manager for several projects including retro-commissioning, EMS updated, garage exhaust fan, ionization and UV lights for AHUs, peer review.

City of Boca Raton Continuing Services, Boca Raton, Florida
MEP engineering services for several projects as prime consultant including: new generators for various locations, site lighting for parking lots, pistol range rooftop unit, HVAC replacement at 6500 Congress, Mizner Park Amphitheater renovations, among others.

Brightline station Commissioning, Fort Lauderdale and West Palm Beach, Florida
Building commissioning services for rail stations in Fort Lauderdale and West Palm Beach. 15,000 sf each

Broward County Courthouse Commissioning, Fort Lauderdale, Florida
Fundamental and enhanced commissioning of the heating, ventilation, air conditioning and refrigeration; lighting and lighting control; and domestic hot water generation systems for the new courthouse and adjacent parking garage. The 20-story courthouse provides double the courtroom capacity with 75 courtrooms and also includes judicial chambers, spaces for clerk of court, prosecutor offices and support spaces.. Certified LEED NC 2009 Gold. $220 million / 740,000 sf

Broward County Aviation Department Maintenance Building, Ft. Lauderdale, Florida
Commissioning for a two-story, high-bay building and site surface parking area, about 80% unconditioned warehouse and about 20% office space, maintenance shops with specialized systems such as compressed air, vacuum, oil/lubricant, small lift bays, full kitchen with hood, administrative and public areas. Emergency generator for life safety and limited optional standby power distribution, small UPS for the IT main computer room. Certified LEED NC 2009 Silver. $6 million / 65,000 sf

EDUCATION

Florida International University
M.S., Mechanical Engineering
1992
University of West Indies
B.S., Mechanical Engineering
1984

YEARS OF EXPERIENCE

TLC: 23 years
Prior: 8 years

REGISTRATIONS

PE FL 53287

CERTIFICATIONS

LEED AP, GBCI
CPD, ASPE
CxA, ACG

OSVALDO HERNANDEZ

Commissioning Technician

BACKGROUND

Osvaldo has 33 years of experience leading nuclear and mechanical engineering teams. His experience includes several fields of mechanical and nuclear engineering, environmental engineering, quality control and design and project management.

EXPERIENCE

City of Miami Police Headquarters Assessment, Miami, Florida
Site inspections for the mechanical and electrical engineering full building assessment that includes providing Heat Load Calculations for the entire building, providing a building BMS System, cost estimation report.

701 Brickell, Miami, Florida
Several projects as building engineer including ionization and UV lights for AHUs serving each office level, cafeteria grease trap replacement, garage fire sprinklers and multiple tenant improvements.

801 Brickell, Miami, Florida
Several projects as building engineer including retro-commissioning, ionization and UV lights for AHUs serving each office level, energy star certification, and multiple tenant improvements.

Port Miami Terminal E Passenger Boarding Bridges, Miami, Florida
Engineering field representation services for the Miami Cruise Terminal E Passenger Boarding Bridges project. Consisted of providing full time engineering field representation for the erection and assembly of new FMT Passenger Boarding Bridges.

Port Miami Cruise Terminal F LEED and Commissioning, Miami, Florida
Phased renovation and new construction improvement to Terminal F at the Port of Miami. Project will be designed in 1 Phase and built in multiple phases by the same construction team. 179,000 SF / LEED Admin / Energy Modeling / Fundamental Cx

Miami Dade College Dyer Building Renovation, Miami, Florida
Renovation of National Register of Historic Places former federal courthouse to become classrooms, large event venues, library spaces, open student collaboration spaces, offices and other related college spaces. Registered for LEED v4 CI. $40 million

Millennium Miami-LEED, Miami, Florida
Commissioning assistance for the project which consists of approximately 74,079 rentable square feet (“RSF”) collectively comprised of the entire 24th and 25th floors in the building collectively consisting of 49,386 and the entire 23rd floor in the Building consisting of 24,693 RSF. The project includes general office space, conference, technology, trading, staff, meeting, and reception spaces located in Miami, FL

EDUCATION

Moscow Institute of Power Engineering
M.S., Nuclear Engineering
1984
Moscow Institute of Power Engineering
B.S., Nuclear Engineering
1981

YEARS OF EXPERIENCE

TLC: 2 years
Prior: 33 years

Locksly Walford

Electrical Engineer | Energy Services

EDUCATION

Georgia Institute of Technology
B.S. Electrical Engineering
2016

YEARS OF EXPERIENCE

TLC: 4 Years

BACKGROUND

Locksly Walford is an electrical engineer with TLC Engineering Solutions and serves as part of TLC's energy engineering team as well as assists on projects with the design team. Locksly's years of experience with TLC includes electrical system design, energy auditing, energy modeling, and programming Excel spreadsheets via Visual Basic for Applications (VBA).

EXPERIENCE

Delaware Health and Social Services Energy Upgrades, Delaware
Worked as part of the team on the Energy audits and analysis for the Delaware Health and Social Services (DHSS) department. The project involved identifying, analyzing, and scoping out energy efficient upgrades for 4 DHSS locations including the Delaware Hospital for the Chronically Ill (DHCI) and the Delaware Psychiatric Center (DPC). John provided energy engineering support from preliminary investigations through system commissioning. The project is realizing around $500,000 in annual savings and included 1.25 million sf of facilities.

City of Augusta, Augusta, GA
Worked as part of the team building comprehensive energy models, geometries, and processing information collected during an investment grade audit. Buildings include the City of Augusta Municipal Building, Augusta Judicial Center, and Charles B. Webster Detention Center.

Georgia World Congress Center, Atlanta, GA
Ongoing measurement and verification process assessing boiler and chiller efficiency semi-annually following a previous investment grade energy audit and energy modeling project carried out by TLC for the fourth largest convention center in the United States.
3,900,000 square feet,

Osan American Air Force Base, South Korea
Investment grade audit assessing over one hundred buildings at Osan American Air Force Base, South Korea. Primary roles involved creating and utilizing efficient spreadsheet methods to perform regression analyses of logged utility data for most buildings in our scope and creating yearly baselines for electric and fuel oil consumption. Also performed and assisted in developing spreadsheet calculations for energy savings, as well as aggregated and managed savings and cost data for the project into presentable summaries by building and conservation measure.

David Davis

Electrical Engineer | Energy Services

EDUCATION

University of North Carolina at Charlotte
B.S. Electrical Engineering
2017

YEARS OF EXPERIENCE

TLC: 4 Years

BACKGROUND

David A. Davis is a versatile engineer with TLC Engineering Solutions. His responsibilities with TLC include designing electrical & mechanical systems for commercial facilities. David also assists TLC's energy engineering team providing auditing and modeling services.

EXPERIENCE

Kannapolis City Schools, Kannapolis, NC
An investment grade energy audit of eight elementary, intermediate, middle and high schools, an administration building, a Head Start building, and a Career Center. The IGA included development of Trane Trace 700 energy models and spreadsheet analyses to document ECMs. ECM descriptions were developed for each building, and a report summarizing results were submitted to the client.
1,016,000 square feet.

Osan American Air Force Base, South Korea
Investment grade audit assessing over one hundred buildings at Osan American Air Force Base, South Korea. Primary roles involved creating and utilizing efficient spreadsheet methods to perform regression analyses of logged utility data for most buildings in our scope and creating yearly baselines for electric and fuel oil consumption. Also performed and assisted in developing spreadsheet calculations for energy savings, as well as aggregated and managed savings and cost data for the project into presentable summaries by building and conservation measure.

Caldwell County Schools, Lenoir, NC
An investment grade energy audit of 26 schools including site investigations to document existing conditions, existing equipment nameplate data, and equipment operation. Maintenance personnel and building occupants were interviewed to ascertain operational procedures and/or trouble spots in the systems surveyed. Site investigations focused on building HVAC and control systems, with a goal of identifying potential energy conservation measures in the facilities. Scope narratives were developed for detailed pricing. A description of energy savings methodologies was developed. The project identified $268,900 in annual energy savings.
2,200,000 square feet.

Terry Sanford Federal Building and United States Courthouse, Raleigh, NC
Design of HVAC systems for two projects located in this eight story, ca. 1969 federal facility. The first project involves improvements and corrections related to several security deficiencies in and around the building. The second project involves the relocation of the U.S. Military Entrance Processing Station (MEPS) in the building.
$18,000,000 total project cost.

Ron DeSantis, Governor

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GONZALEZ, HECTOR E.

2808 SW 143 PLACE
MIAMI FL 33175

LICENSE NUMBER: PE53848
EXPIRATION DATE: FEBRUARY 28, 2023
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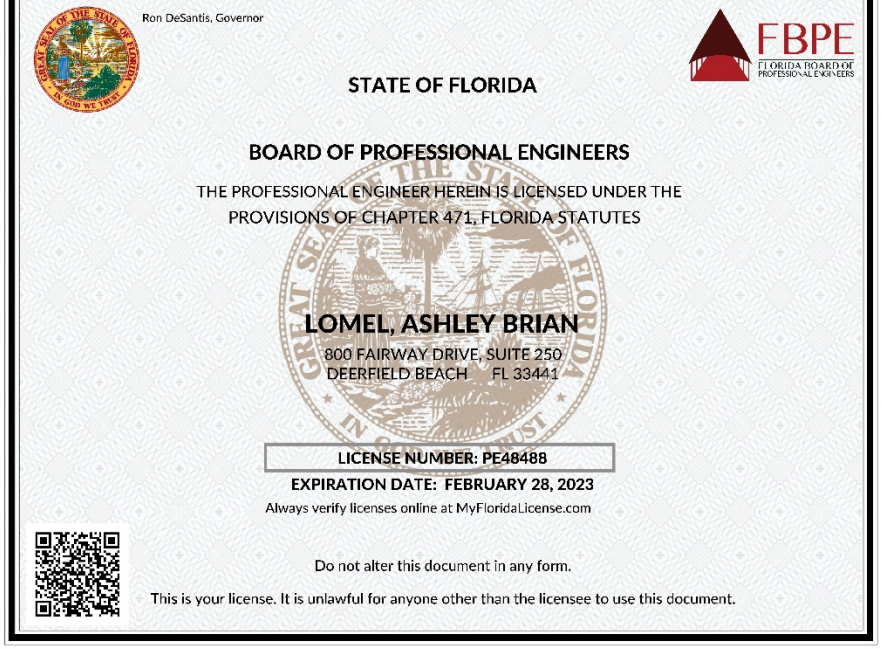


GREEN BUSINESS CERTIFICATION INC. HONORS AND HEREBY BESTOWS THE TITLE OF

LEED FELLOW

ON

Brian Lomel

FOR EXCEPTIONAL CONTRIBUTIONS TO AND
ACHIEVEMENTS IN GREEN BUILDING AND SUSTAINABILITY

Chairperson

President

2016
Class

5803
Identification Number

WELL AP™

CREDENTIAL ID: WELL-AP-0000000799

ISSUED: May 02, 2016

VALID THROUGH: May 02, 2022

2101 L Street NW | Suite 500 | Washington, DC 20037
WELLcertified.com

WELL AP

GREEN BUSINESS CERTIFICATION INC.™ CERTIFIES THAT

BRIAN LOMEL

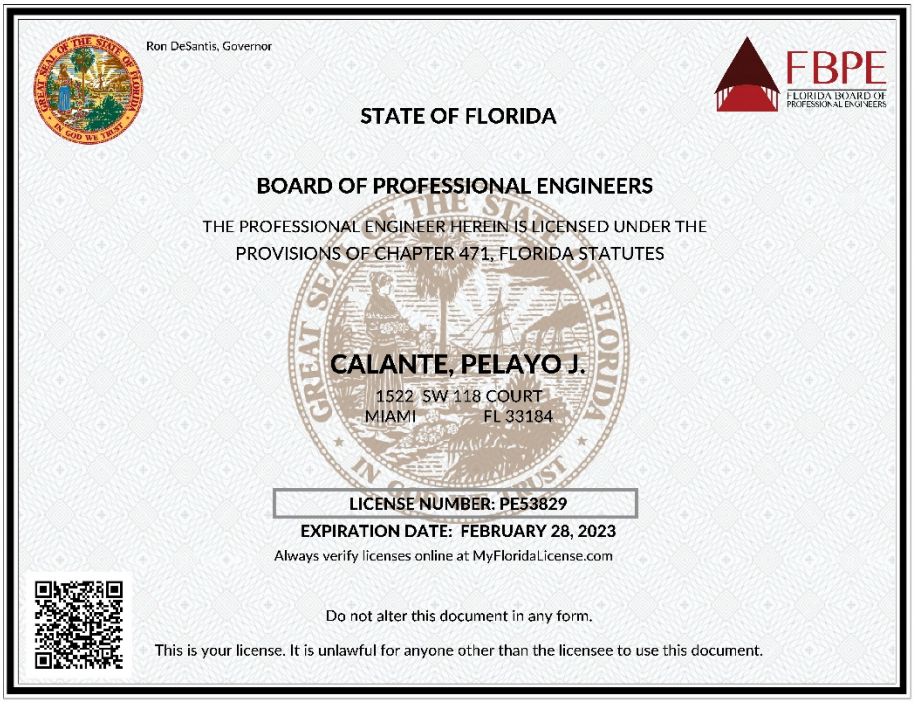
has attained the designation of

WELL AP

by demonstrating the knowledge and understanding of the interaction between health and wellness within the built environment and the implementation process for the WELL Building Standard™.

S. Richard Fedrizzi
CEO, International WELL Building Institute

Mahesh Ramanujam
President, Green Business Certification Inc.



Ron DeSantis, Governor

STATE OF FLORIDA

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CALANTE, PELAYO J.
1522 SW 118 COURT
MIAMI FL 33184

LICENSE NUMBER: PE53829
EXPIRATION DATE: FEBRUARY 28, 2023
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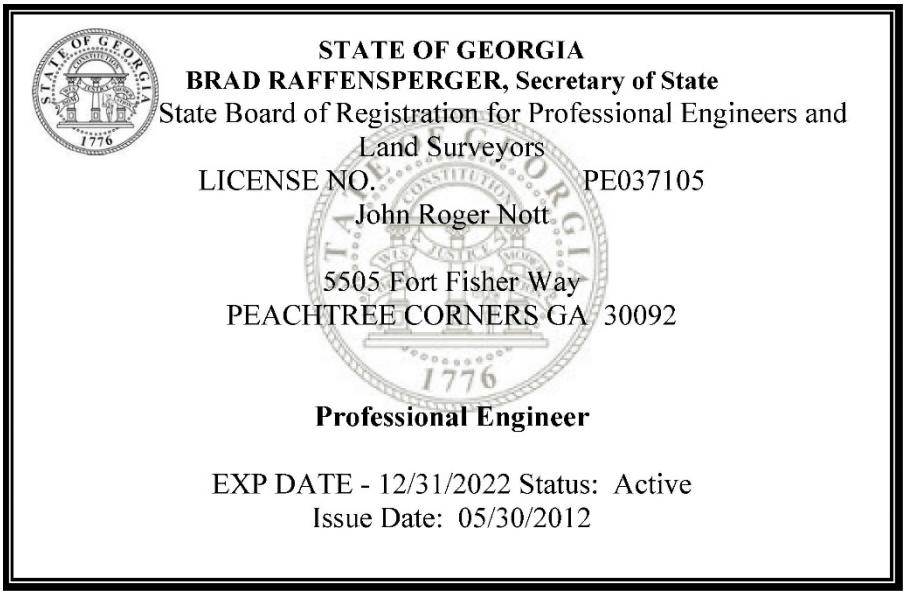
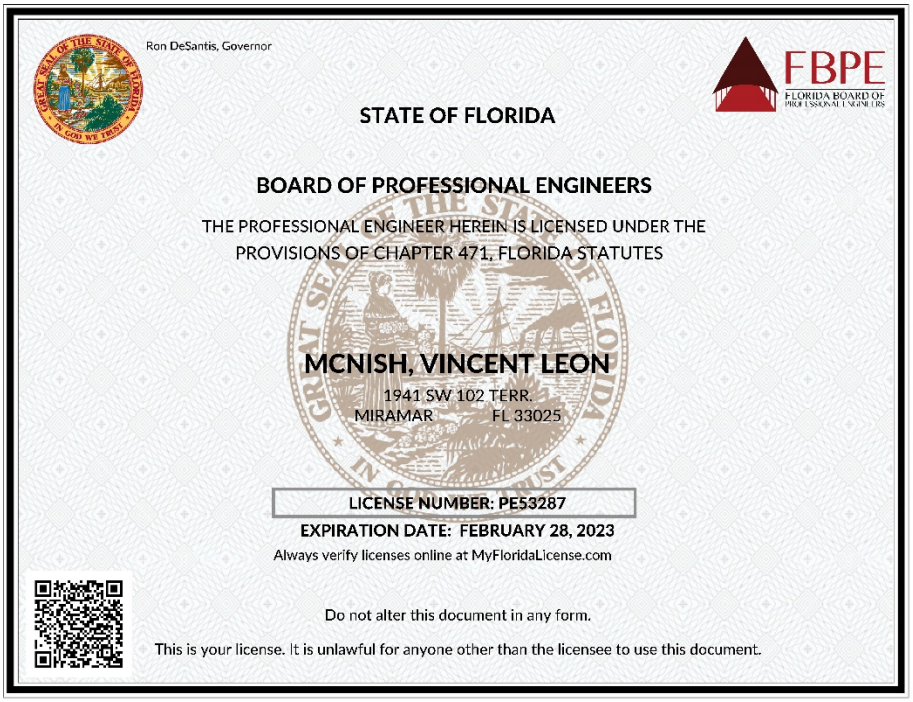


STATE OF GEORGIA
BRAD RAFFENSPERGER, Secretary of State
State Board of Registration for Professional Engineers and
Land Surveyors
LICENSE NO. PE037105
John Roger Nott

5505 Fort Fisher Way
PEACHTREE CORNERS GA 30092

Professional Engineer

EXP DATE - 12/31/2022 Status: Active
Issue Date: 05/30/2012



Ron DeSantis, Governor

STATE OF FLORIDA

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

MCNISH, VINCENT LEON

1941 SW 102 TERR.
MIRAMAR FL 33025

LICENSE NUMBER: PE53287
EXPIRATION DATE: FEBRUARY 28, 2023
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acg
AABC Commissioning Group

hereby certifies that

Vincent L. McNish, P.E., CxA

TLC Engineering Solutions (Miami)

has met all prerequisites demonstrating independence and the technical, management, and communications skills required to implement the commissioning process in new and existing buildings, and passed the necessary examination to be awarded this certificate in recognition of their qualifications as an ACG

Certified Commissioning Authority

Registration number: 909-549 . This certificate, valid only for the year 2022, is renewable on an annual basis upon meeting all requirements noted in the CxA Candidate Handbook.

CERTIFIED COMMISSIONING AUTHORITY acg AABC Commissioning Group CxA

Justin F. Garner, P.E., CxA
Certification Council Chair

Ray Bert
ACG Executive Director

Better Buildings U.S. DEPARTMENT OF ENERGY
RECOGNIZED PROGRAM
MEETS U.S. DEPARTMENT OF ENERGY GUIDELINES

ANSI ACCREDITED
ISO/IEC 17024 Personnel Certification Program #1215

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

Tab 4. Approach to Scope of Work

4.2.5 Approach to Scope of Work

TLC's Approach on the Needs, Goals, & Objectives of the City of Hollywood

The City of Hollywood has a portfolio of 231 buildings. The need is for consultants with energy expertise to energy audit and analyze each of them, and create an action plan for the components and systems that need to be upgraded and the associated costs and recommended financing path. The scope also includes 2,790 streetlights within the city limits. The goal is for the city to reduce its energy consumption, and have the option to accomplish this without large outlays of capital. To accomplish this goal, the city needs to have an accurate audit to perform so that there is a clear starting point. Engineering judgement will then be applied to recommend equipment or system upgrades. The phrase "system upgrade" is mentioned because in TLC's experience, replacing an old piece of equipment with a newer, more efficient version may not be as effective as re-engineering the system to be even more efficient. IF the equipment is 20 years old, so is the design.

TLC's approach will be to database all the facilities, and grade them based on sqft, energy cost, energy usage/sqft. This allows the team to prioritize targeting the facilities that have the largest impact to the city. TLC teams will audit each facility, and in the process look for both equipment upgrades and system upgrades, with a focus on solutions that are sustainable. TLC's report will recommend (ECMs) Energy Conservation Measures, including initial capital costs, optional financing costs, energy savings, operations/maintenance savings. This cafeteria style methodology allows for true impacts to be observed, and excellent savings from lighting upgrades are not co-mingled with mediocre savings from other ECMs creating an unclear path for action.

The interaction between the city and TLC includes TLC working with the city and various Eaas, ESCO, and/or manufacturer financing methodologies to arrange financing for the projects. For example, the city may elect to self-finance small, inexpensive, high ROI projects, or finance a large lighting renovation through a manufacturer, and/or finance a large HVAC upgrade through an EaaS contract. Working together TLC will help find the best solutions in each situation for the city.

TLC's sample project pages show services we have provided for a variety of portfolio owners, both private and municipal, where the rate structure was reviewed, and energy costs were predicted with engineering calculations, and performance was confirmed with measurements. Our proposal is to make the financing match the situation. In that light, projects with guaranteed savings will have different tracking tools than simple upgrades. TLC has a verified process for tracking and verifying energy/water/cost savings that has been successful for our customers listed.

TLC is proposing that the fees for energy audits and initial analysis, be negotiated without entanglements to the follow-up projects. As sustainability experts, TLCs recommendations will both reduce energy and the city's carbon footprint. TLC is an Energy Star Service Provider, and can provide GRESB, or any other reporting as applicable.

On large projects, or bundled smaller projects, once the city reviews TLCs scope and financing recommendations, and decides on a direction, TLC can prepare a scope package for ESCO or EaaS firms to respond to, which will include their guaranteed savings, operating efficiencies, and other improvements in the City's ESG goals.

Current TLC Workload

TLC has a specialized team of professionals dedicated to energy services throughout the country. They collaborate among offices based on their specific expertise.

The PEAK Institute is TLC's Research & Development Group who actively researches new technologies and how they may be incorporated into our designs, as well as how to accurately model these when evaluating building energy budgets. TLC's Peak Institute, also known as PI, leads the way in embracing new systems and technology, as well as sharing this information across TLC and with our clients to benefit building owners.

These team of experts are available in every TLC location and only dedicated to energy projects; therefore, TLC is able to provide additional resources from other locations when needed. Current energy projects include the following:

- Port Miami Terminal F - Commissioning, Energy Modeling, and LEED Consulting
- University of Miami Centennial Village – Energy Services, Commissioning, LEED Consulting

From the moment a building is completed, it begins to change. Internal and external changes result in energy and water efficiency degrading over time.
Concurrently, improvements in building technology and systems offer solutions not available at the time of design. Energy audits and retro-commissioning, specialties of TLC, are checkups of building health.

These reviews range from a simple analysis of energy and water costs and rates to investment grade energy audits that help building owners plan for and implement changes created to protect their asset value. TLC team members, experienced in both design and construction, are hands on at your site and identify potential issues and opportunities. We build energy models to compare potential solutions and life cycle costs that give owners high-performance building solutions.

TLC's Approach to Climate Change Vulnerabilities

TLC has 4 LEED Fellows, and numerous professional mechanical and electrical engineers on staff. Our quantity of LEED certified projects is close to 500 in number. Our track record shows an understanding of sustainability, resilience, sea level rise and climate change. TLC is a signatory member of the 2030 / 2040 / 2050 challenges to reduce energy consumption and embodied carbon in buildings and report our performance publicly.

TLC's South Florida offices have been working in the area for 20+ years and have an experienced understanding of our unique ASHRAE Zone 1A humid, tropical environment. 2020 had over 107" of rain in parts of Broward County, which far exceeds the norm. Our design work accounts for increasing rainfall as well as increased heat load form climate change. TLC uses IES VE pro software to calculate HVAC equipment sizes and uses additional software to project the HVAC load of the future, accounting for increased climate heat. This allows for resilient designs that do not need to be replaced before their intended end of cycle dates.

Tab 5. References

VENDOR REFERENCE VERIFICATION FORM

It is the responsibility of the contractor/vendor to provide a minimum of three (3) similar type references using this form and to provide this information with your submission. Failure to do so may result in the rejection of your submission.

City of Hollywood Solicitation No. and Title: RFQ-4702-22-GJ Energy Performance Contracting

Reference for: TLC Engineering Solutions, Inc.

Organization/Firm Name providing reference: ones Lang LaSalle

Organization/Firm Contact Name: Amar it ar Bains | Title: Senior ice President

Email: Amar it.Bains@am. ll.com | Phone: 305 423-4701

Name of Referenced Project: 701 Brickell Ave - LEED EB, improvements | Contract No:

Date Services were provided: 2010 - ongoing | Cost Savings:

Referenced Vendor's role in Project: ☒ Prime Vendor ☐ Subcontractor/ Subconsultant

Would you use the Vendor again? ☒ Yes ☐ No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
Energy Auditing, Energy Modeling, LEED Administration, LEED Consulting, Retro-Commissioning for the Energy upgrades and
LEED Certification for a 740,000 sf Class A Office Building

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	☐	☐	☒	☐
b. Accuracy	☐	☐	☒	☐
c. Deliverables	☐	☐	☒	☐
Vendor's Organization:				
a. Staff expertise	☐	☐	☒	☐
b. Professionalism	☐	☐	☒	☐
c. Staff turnover	☐	☐	☒	☐
Timeliness of:				
a. Project	☐	☐	☒	☐
b. Deliverables	☐	☐	☒	☐

Additional Comments (provide additional sheet if necessary):

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email:	☐	Verbal:	☐	Mail:	☐
Verified by:	Name:				Title:	
	Department:				Date:	

VENDOR REFERENCE VERIFICATION FORM

It is the responsibility of the contractor/vendor to provide a minimum of three (3) similar type references using this form and to provide this information with your submission. Failure to do so may result in the rejection of your submission.

City of Hollywood Solicitation No. and Title: RFQ-4702-22-GJ Energy Performance Contracting

Reference for: TLC Engineering Solutions, Inc.

Organization/Firm Name providing reference: City of rlando

Organization/Firm Contact Name: Ian Lahif, PE, LEED AP

Title: Energy Pro ect anager

Email: ian.lahiff@cityoforlando.net

Phone: 407 246-3853

Name of Referenced Project: City of rlando City all Energy Efficiency Improvements

Contract No:

Date Services were provided: 2019

Cost Savings:

Referenced Vendor's role in Project: ☒ Prime Vendor ☐ Subcontractor/ Subconsultant

Would you use the Vendor again? ☐ Yes ☐ No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
TLC Engineering was the prime professional services provider for the entire City Hall renovation project. They did a phenomenal job and I would highly recommend their services.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	☐	☐	☒	☐
b. Accuracy	☐	☐	☒	☐
c. Deliverables	☐	☐	☒	☐
Vendor's Organization:				
a. Staff expertise	☐	☐	☒	☐
b. Professionalism	☐	☐	☒	☐
c. Staff turnover	☐	☐	☒	☐
Timeliness of:				
a. Project	☐	☐	☒	☐
b. Deliverables	☐	☐	☒	☐

Additional Comments (provide additional sheet if necessary):
I would hire TLC engineering again with no reservations
Ian Lahiff

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email:	☐	Verbal:	☐	Mail:	☐
Verified by:	Name:				Title:	
	Department:				Date:	

VENDOR REFERENCE VERIFICATION FORM

It is the responsibility of the contractor/vendor to provide a minimum of three (3) similar type references using this form and to provide this information with your submission. Failure to do so may result in the rejection of your submission.

City of Hollywood Solicitation No. and Title: RFQ-4702-22-GJ Energy Performance Contracting

Reference for: TLC Engineering Solutions, Inc.

Organization/Firm Name providing reference: City of rlando

Organization/Firm Contact Name: Ian Lahif, PE, LEED AP

Title: Energy Pro ect anager

Email: ian.lahiff@cityoforlando.net

Phone: 407 246-3853

Name of Referenced Project: City of rlando Energy pgrades Phase II

Contract No:

Date Services were provided: 2018 - ongoing

Cost Savings:

Referenced Vendor's role in Project: ☐ Prime Vendor ☐ Subcontractor/ Subconsultant

Would you use the Vendor again? ☐ Yes ☐ No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
TLC provided ASHRAE level II energy audit services - directly informing our energy retrofit roadmap for 55 City facilities. After consulting internallywe selected a subset of buildings for deeper renovations and TLC led the design and CA effort resulting in higher performing buildings and lower utility costs.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	☐	☐	☐	☐
b. Accuracy	☐	☐	☐	☐
c. Deliverables	☐	☐	☐	☐
Vendor's Organization:				
a. Staff expertise	☐	☐	☐	☐
b. Professionalism	☐	☐	☐	☐
c. Staff turnover	☐	☐	☐	☐
Timeliness of:				
a. Project	☐	☐	☐	☐
b. Deliverables	☐	☐	☐	☐

Additional Comments (provide additional sheet if necessary):
Great staff, highly knowledgeable and leaders in the industry.
10/10 would hire again Ian Lahiff

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email:	☐	Verbal:	☐	Mail:	☐
Verified by:	Name:				Title:	
	Department:				Date:	

Tab 6. Sub-Respondents

4.2.7 Sub-Respondents

TLC Engineering Solutions will provide all services proposed in-house and with no sub-respondents.

Tab 7. Forms

ACKNOWLEDGMENT AND SIGNATURE PAGE

This form must be completed and submitted by the date and the time of bid opening.

Legal Company Name (include d/b/a if applicable) TLC Engineering Solutions, Inc. Federal Tax Identification Number: 59-1228645

If Corporation - Date Incorporated/Organized: December 31, 1968

State Incorporated/Organized: Florida

Company Operating Address: 800 Fairway Drive, Suite 250,

City Deerfield Beach State FL Zip Code 33441

Remittance Address (if different from ordering address): _____

City _____ State _____ Zip Code _____

Company Contact Person: A. Brian Lomel, PE, Email Address: brian.lomel@tlc-eng.com

Phone Number (include area code): (954) 418 - 9096 Fax Number (include area code): (954) 418 - 9296

Company's Internet Web Address: tlc-engineers.com

IT IS HEREBY CERTIFIED AND AFFIRMED THAT THE BIDDER/RESPONDENT CERTIFIES ACCEPTANCE OF THE TERMS, CONDITIONS, SPECIFICATIONS, ATTACHMENTS AND ANY ADDENDA. THE BIDDER/RESPONDENT SHALL ACCEPT ANY AWARDS MADE AS A RESULT OF THIS SOLICITATION. BIDDER/RESPONDENT FURTHER AGREES THAT PRICES QUOTED WILL REMAIN FIXED FOR THE PERIOD OF TIME STATED IN THE SOLICITATION.

Bidder/Respondent's Authorized Representative's Signature: 1/10/2022 Date

Type or Print Name: H. Erick Gonzalez, PE, LEED AP

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF BIDDER/RESPONDENTTO BE BOUND BY THE TERMS OF ITS PROPOSAL. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED BY AN AUTHORIZED REPRESENTATIVE SHALL RENDER THE BID/PROPOSAL NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY BID/PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE BIDDER/RESPONDENT TO THE TERMS OF ITS OFFER.

ANY EXCEPTION, CHANGES OR ALTERATIONS TO THE GENERAL TERMS AND CONDITIONS, HOLD HARMLESS / INDEMNITY DOCUMENT OR OTHER REQUIRED FORMS MAY RESULT IN THE BID/PROPOSAL BE DEEMED NON-RESPONSIVE AND DISQUALIFIED FORM THE AWARD PROCESS

STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration) TLC Engineering Solutions, Inc

Name/Principal/Project Manager: H. Erick Gonzalez, PE, LEED AP

Address: 800 Fairway Drive, Suite 250

City: Deerfield Beach State: Florida Zip: 33441

Telephone No. 954-418-9096 **FEIN/Tax ID No.** 59-1228645 Email: erick.gonzalez@tlc-eng.com

Does your firm qualify for MBE or WBE status: MBE _____ WBE _____

ADDENDUM ACKNOWLEDGEMENT - Respondent acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued
Addendum #1	Dec 2, 2021		

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Respondent will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is implied that your bid/proposal complies with the full scope of this solicitation. If this section does not apply to your bid, simply mark "N/A". **If submitting your response electronically through BIDSYNC you must click the exception link if any variation or exception is taken to the specifications, terms and conditions.**

N/A

The below signatory agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a Contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of $500.00This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

H. Erick Gonzalez, PE, LEED AP
Name (printed)

1 / 10 / 2022
Date:

Signature

Regional Director | Principal
Title

DRUG-FREE WORKPLACE PROGRAM

IDENTICAL TIE BIDS - Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids that are equal with respect to price, quality, and service are received by the state or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employee that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program (if such is available in the employee's community) by, any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of these requirements.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

SIGNATURE

H. Erick Gonzalez, PE, LEED AP
PRINTED NAME

TLC Engineering Solutions, Inc.
NAME OF COMPANY

RFQ/RFP/ITB Number: RFQ-4702-22-GJ Title: Energy Performance Contracting

CERTIFICATIONS REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

The applicant certifies that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, sentenced to a denial of federal benefits by a state or federal court, or voluntarily excluded from covered transactions by any federal department or agency;

(b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction, violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) Have not within a three-year period preceding this application had one or more public transactions (federal, state, or local) terminated for cause or default.

Applicant Name and Address:

TLC Engineering Solutions, Inc.

800 Fairway Drive, Suite 250, Deerfield Beach, FL 33441

Application Number and/or Project Name:

RFQ-4702-22-GJ Energy Performance Contracting

Applicant IRS/Vendor Number: 59-1228645

Type/Print Name and Title of Authorized Representative:

H. Erick Gonzalez, PE, LEED AP

Signature: _____ Date: 1/10/2022

RFQ/RFP/ITB Number: RFQ-4702-22-GJ Title: Energy Performance Contracting

NON-COLLUSION AFFIDAVIT

STATE OF: Florida

COUNTY OF: Miami - Dade, being first duly sworn, deposes and says that:

(1) He/she is H. Erick Gonzalez of TLC Engineering Solutions, Inc., the Respondent that has submitted the attached Bid.

(2) He/she has been fully informed regarding the preparation and contents of the attached Bid and of all pertinent circumstances regarding such Bid;

(3) Such Bid is genuine and is not a collusion or sham Bid;

(4) Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Respondent, firm or person to submit a collusive or sham Bid in connection with the contractor for which the attached Bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Respondent, firm or person to fix the price or prices, profit or cost element of the Bid price or the Bid price of any other Respondent, or to secure an advantage against the City of Hollywood or any person interested in the proposed Contract; and

(5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Respondent or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(SIGNED) _____

Title: Regional Director | Principal

Subscribed and sworn to before me this

10 day of January, 20 22

NOTARY PUBLIC STATE OF FLORIDA
MARIO LUIS FERNANDEZ
MY COMMISSION # HH192968
EXPIRES: November 16, 2025

My commission expires: November 16, 2025

RFQ/RFP/ITB Number: RFQ-4702-22-GJ Title: Energy Performance Contracting

SWORN STATEMENT PURSUANT TO SECTION 287.133 (3) (a) FLORIDA STATUTES ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS

1. This form statement is submitted to City of Hollywood
By H. Erick Gonzalez, PE, LEED AP for TLC Engineering Solutions, Inc.
(Print individual's name and title) (Print name of entity submitting sworn statement)
whose business address is 800 Fairway Drive, Suite 250, Deerfield Beach, FL 33441
and if applicable its Federal Employer Identification Number (FEIN) is 59-1228645 If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.

2. I understand that "public entity crime," as defined in paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misinterpretation.

3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in an federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that "Affiliate," as defined in paragraph 287.133(1)(a), Florida Statutes, means:

1. A predecessor or successor of a person convicted of a public entity crime, or
2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5 I understand that "person," as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or any entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and that bids or applies to bid on contracts let by a public entity, or that otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based upon information and belief, the statement that I have marked below is true in relation to the entity submitting this sworn statement. (please indicate which statement applies.)

✓ Neither the entity submitting sworn statement, nor any of its officers, director, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989..

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime, but the Final Order entered by the Hearing Officer in a subsequent proceeding before a Hearing Officer of the State of the State of Florida, Division of Administrative Hearings, determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the Final Order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN THAT IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THAT PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017 FLORIDA STATUTES FOR A CATEGORY TWO PROJECT OF ANY CHANGE IN THE INFORMATION CONTAINED ON THIS FORM.

_____
(Signature)

Sworn to and subscribed before me this 10 day of January, 2022.

Personally known ✓

Or produced identification _____ Notary Public-State of Florida

_____ My commission expires November 16, 2025

Mario Luis Fernandez
(Printed, typed or stamped commissioned name of notary public)

MARIO LUIS FERNANDEZ
MY COMMISSION # HH192968
EXPIRES: November 16, 2025

RFQ/RFP/ITB Number: RFQ-4702-22-GJ Title: Energy Performance Contracting

HOLD HARMLESS AND INDEMNITY CLAUSE

TLC Engineering Solutions, Inc. | H. Erick Gonzalez, PE, LEED AP

(Company Name and Authorized Representative's Name)

, the contractor, shall indemnify, defend and hold harmless the City of Hollywood, its elected and appointed officials, employees and agents for any and all suits, actions, legal or administrative proceedings, claims, damage, liabilities, interest, attorney's fees, costs of any kind whether arising prior to the start of activities or following the completion or acceptance and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part by reason of any act, error or omission, fault or negligence whether active or passive by the Contractor, or anyone acting under its direction, control, or on its behalf in connection with or incident to its performance of the Contract.

SIGNATURE

H. Erick Gonzalez, PE, LEED AP
PRINTED NAME

TLC Engineering Solutions, Inc.
COMPANY OF NAME

1/10/2022
DATE

Failure to sign or changes to this page shall render your bid non-responsive.

SOLICITATION, GIVING, AND ACCEPTANCE OF GIFTS POLICY

Florida Statute 112.313 prohibits the solicitation or acceptance of Gifts. - "No Public officer, employee of an agency, local government attorney, or candidate for nomination or election shall solicit or accept anything of value to the recipient, including a gift, loan, reward, promise of future employment, favor, or service, based upon any understanding that the vote, official action, or judgment of the public officer, employee, local government attorney, or candidate would be influenced thereby.". The term "public officer" includes "any person elected or appointed to hold office in any agency, including any person serving on an advisory body."

City of Hollywood policy prohibits all public officers, elected or appointed, all employees, and their families from accepting any gifts of any value, either directly or indirectly, from any contractor, respondent, consultant, or business with whom the City does business.

The State of Florida definition of "gifts" includes the following:

Real property or its use,
Tangible or intangible personal property, or its use,
A preferential rate or terms on a debt, loan, goods, or services,
Forgiveness of indebtedness,
Transportation, lodging, or parking,
Food or beverage,
Membership dues,
Entrance fees, admission fees, or tickets to events, performances, or facilities,
Plants, flowers or floral arrangements
Services provided by persons pursuant to a professional license or certificate.
Other personal services for which a fee is normally charged by the person providing the services.
Any other similar service or thing having an attributable value not already provided for in this section.

Any contractor, Respondent, consultant, or business found to have given a gift to a public officer or employee, or his/her family, will be subject to dismissal or revocation of the Contract.

As the person authorized to sign the statement, I certify that this firm will comply fully with this policy.

H. Erick Gonzalez, PE, LEED AP	
SIGNATURE	PRINTED NAME
TLC Engineering Solutions, Inc.	Regional Director | Principal
NAME OF COMPANY	TITLE

Failure to sign this page shall render your bid non-responsive.

TLC ENGINEERING SOLUTIONS®

THINK. LISTEN. CREATE.®

www.tlc-engineers.com