

# PE CONSULTING ENGINEERING



DCRA 19-023

RFQ Engineering Consulting  
Services – Pedestrian Lighting

**Bid Number**

**DCRA 19-023**

**Bid Title**

**RFQ Engineering Consulting Services – Pedestrian Lighting**

**Bid Contact**

**Terrence Comiskey**

**Name of Authorized Signatory and Primary Contact**

**Jorge Maspons, PE**

**President**

**PE Consulting Engineering**

**2315 NW 107 Ave, Suite MA-28**

**Miami, FL 3312**

**786 646-9823 - OFFICE**

**305 450-2693 – CELL**

**[jmaspons@peengcon.com](mailto:jmaspons@peengcon.com)**

**Federal Employer Identification Number**

**46-2772185**

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# LETTER OF TRANSMITTAL



August 27, 2019

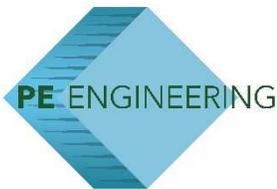
Mr. Jorge Camejo, Executive Director of Hollywood CRA  
Hollywood, Florida Community Redevelopment Agency Board (CRA)  
City Hall, 2600 Hollywood Boulevard, Room 221  
Hollywood, Florida, 33020

Re: **DCRA 19-023 Letter of Transmittal**

Dear Selection Committee:

**PE Engineering** is pleased to submit our qualifications in response to Hollywood, Florida Community Redevelopment Agency Board (CRA) Request for Qualification for Project Number DCRA 19-023 Engineering Consulting Services- Pedestrian Lighting.

**QUALIFICATION AND CAPABILITIES OF FIRMS**



**PE Engineering** is a certified CBE/DBE/MBE firm that opened its offices in 2013. The firm specializes in civil engineering design. Our civil engineering design experience includes site/civil design, parking lot design, roadway improvement projects, roadway widening projects, roadway planning studies, drainage improvement and permitting, **roadway lighting** (including pedestrian lighting), signalization, signing and pavement marking, ADA improvements and utility coordination. Our roadway lighting experience covers all aspects of design from: field reviews with a light meter

to measure existing lighting levels, photometric analysis for both existing and proposed systems, electrical calculations (including voltage drop calculations), coordination with utility companies (including FPL for service points), structural analysis (developing foundation that can withstand hurricane wind loads), permitting, temporary traffic control plans, specifications and addressing constructability issues. When it comes to placement of light poles or pedestrian light poles, we understand the constraints that need to be overcome to identify the optimal location for the placement of the pole. Typical constraints include avoiding utilities, ADA (clear width of sidewalk), driveways, landscaping, insufficient lateral offset (horizontal clearance), street furniture and keeping "decorative fixtures" when encountered. We have successfully provided designs that address all of these concerns. **PE Engineering** and our staff have successfully delivered projects for numerous clients, including the Florida Department of Transportation, Miami-Dade Expressway Authority, Miami-Dade Public Works Department and others.

**CONTRACT UNDERSTANDING**

The scope entails pedestrian lighting improvements within the Downtown Hollywood CRA District, which is defined as the area between Johnson Street to Washington Street between 21st Ave and US 1. Within this area, there are two different types of pedestrian light fixtures that have been considered for improvements: (1) The five-globe fixture that can be found along Hollywood Blvd. to be replaced with new poles and fixtures. (2) The tear drop fixtures that can be found along lots of sides streets to repaint or replace as necessary. Below we discuss our design process for both improvements.



**Replacement of the five-globe fixture:** The five globe lights along Hollywood Blvd. function as both pedestrian lighting and roadway lighting. Because Hollywood Blvd. is a State Road (SR 820), it must meet FDOT roadway lighting criteria. One of the first steps is to gather all available existing information (as-builts, survey, etc.) and set a baseline for existing conditions. The **design methodology** that

we will use (1) identify the location of all existing lights and then run a photometric analysis based on proposed light fixture. Then based on result, potentially supplement with additional light poles, meet the required illumination. This incremental approach is both practical and cost-effective. For any proposed light pole, we will identify the optimal location based on avoiding utilities, clear width of sidewalk, ADA, control zone and lateral offsets. The **lighting design** will be simulated with photometric design programs: AGI32 and AutoLux. We intend to run an initial photometric analysis assessment on an aerial image (downloaded from the FDOT A-PLUS Website). This information will then be field verified for constructability constraints and the design will be adjusted accordingly. We will then re-run the photometric program, giving us the lighting levels that can be achieved. This information will be used to develop the Lighting Design Analysis Report, which will be submitted to the CRA, along with recommendations. **PE Engineering** will coordinate with the lighting manufacturers for all necessary information for design development. Other items that are part of plan development process include requesting geotech information for light pole foundations, performing structural analysis if needed, requesting SUE, coordinating with FDOT, Broward County and City of Hollywood, including details for sidewalk restoration and performing electrical calculations (voltage drop, load analysis).

**Tear Drop Fixtures to repaint or replace as necessary:**

We will conduct **a detailed field review:** (1) Checklist; we will use an Excel spreadsheet that covers all the components of the light fixture. (2) We have developed a GIS program that we can use on our tablet or smart phone that allows us to take a picture along with adding comments. The picture along with the comment is one data point data that can then be exported into a kmz file. This structured approach guarantees that necessary information is collected, sets the baseline for existing conditions, and begins the process of identifying project issues. Also, we recommend that CRA consider using LED retrofit kit to upgrade the existing light to LED. Based on the existing fixture (Promenade TM Series - PRMD) we contacted the manufacturer and confirmed that they have a retrofit kit. The cost of the retrofit would be offset



by the cost of saving in electricity, where there would be an added benefit of better lighting.

**Promenade™ Series LED-PRMD** | TYPE

**FEATURES**

- Reliable, uniform, glare free illumination
- Types II, III, IV, V and custom distribution
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- LEDGuard™ thermal protection
- 13 standard powder coat finishes
- Upgrade kits

**SPECIFICATIONS**

- Diameter: 19" / 480mm
- Height: 26" / 660mm
- Weight: 34 lbs / 15.4 kg
- EPA: 1.19
- IP Rating: 65

**ORDERING INFORMATION**

MODEL: PRMD [1] [2] [3] [4] [5] [6] [7]

1. LIGHT ENGINE: T2-48LED Type II, T3-48LED Type III, T4-48LED Type IV, T5-48LED Type V

2. COLOR TEMPERATURE: 3K, 4K, 5K

3. DRIVE CURRENT: T00, T05, T10, T15, T20, T25, T30, T35, T40, T45, T50

4. FINISH: WH, BL, BK, RB, DT, DN, TT, WCB, MCB, VBU, CRT, MML, MGL, AGN, LG

5. OPTIONS: LSC, FTG, NL, PFC-C, EPA-C, SCP

6. CONTROLS: I, I-C, I-CP

7. MOUNTING: COLLE MOUNT, BALL MOUNT, OTHER MOUNTING

**WHY PE ENGINEERING**

**PE Engineering** is committed to providing to the Hollywood Community Redevelopment Agency the very best in Pedestrian Lighting Design. We have assigned experienced professionals to all key positions. These professionals have an average of 20 years of experience and are all excellent communicators. This will be an asset when interfacing with the Contractor and Permitting Agencies. In closing, our staff has extensive experience performing similar types of lighting projects. We are excited about this opportunity to work for Hollywood Community Redevelopment Agency. During your review of our submittal, please feel free to contact Jorge Maspons, PE President at (phone: 305-450-2693, email: [imaspons@peengcon.com](mailto:imaspons@peengcon.com), address 2315 NW 107 Ave., Suite MA-28, Miami, FL 33172) should you have any questions. Thank you in advance for your consideration of our response.

Sincerely,  
**PE Engineering**  
  
 Jorge Maspons, PE  
 President

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# CONSULTANT PROFILE

## CONSULTANT PROFILE

### A. State whether your organization is national, regional or local.

Local Firm Based in Doral Florida

### B. State the location of the office from which your work is to be performed.

#### PE Engineering

2315 NW 107 Ave, Suite MA-28  
Miami, FL 33176

### C. Describe the firm, including the size, range of activities, etc.

**PE Engineering** is a local South Florida firm that specializes in civil engineering services with a spectrum that includes planning, design, management, and construction management. The company was founded in 2013 with the vision of providing technical expertise and creative ideas for the most challenging projects in this area. **PE Engineering** has made a dedicated commitment to serve the public sector of South Florida and our clients include FDOT, Miami-Dade County, and various local townships. We are a certified small business firm (MBE, CBE and DBE) and our business strategy centers on building long-lasting relationships based on trust and integrity with our clients as we aim to be their consultant of choice. Our mission is to deliver the best possible engineering solutions to our clients and make a positive impact in the community we live in by meeting the needs of the present and planning for a sustainable future. Our firm offers a number of different technical services, below is our technical qualifications with FDOT and Miami Dade County. **PE Engineering** is small firm; however, we have senior engineering staff (both Civil and Electrical Engineers). That specialize in all aspect of the scope of service for this contract from performing detailed field reviews, lighting analysis including photometric calculations, voltage drop calculations, utility coordination (including with FPL for service points), permits, miscellaneous structural analysis for light pole foundation and development of traffic control plans.

#### FDOT Technical Qualifications

- 3.1 Minor Highway Design
- 3.2 Major Highway Design
- 3.3 Controlled Access Highway Design
- 6.1 Traffic Studies
- 7.1 Sign Pavement Marking
- 7.2 Lighting
- 7.3 Signalization

13.5 Planning /Subarea

13.6 Land Planning

#### Miami Dade County Technical Qualification

##### Planning

1.01.1 Transportation Planning – Urban

1.01.2 Transportation Planning – Mass & Rapid Transit

##### Highway System

3.1 Site Development and Parking Lot Design

3.02 Highway Design

3.09 Signing, Pavement Marking, And Channelization

3.10 Lighting

3.11 Signalization

##### Aviation

4.01 Aviation Systems- Engineering Design

##### Water and Sanitary Sewer Systems

6.01 Water Distribution Sanitary Sewage Collection and Transmission Systems

6.02 Major Water and Sanitary Sewage Pumping Facilities

##### Environmental Engineering

10.01 Stormwater Drainage Design Engineering Services

##### 16.00 General Civil Engineering

##### 17.00 Engineering Construction Management

### D. Provide a list and description of similar municipal and other engagements satisfactorily performed within the past four (4) years. For each engagement listed, include the name and telephone number of a representative for whom the engagement was undertaken who can verify satisfactory performance.

#### 1. FDOT District 4 NE Broward Mobility Project

- We recently completed the design for pedestrian lighting system along SW 3rd Ave from SW 10 St. to Hillsboro Blvd. (in the City of Deerfield Beach) about a mile long and a 100 lights where installed. The work was done under an FDOT contract that also included lighting improvement at five other signalized intersection. For the City of Deerfield Beach the contact was **Tom Good**, Director (phone number: **954.480.4432** and email [TGood@deerfield-beach.com](mailto:TGood@deerfield-beach.com))



2. **FDOT District 6 – Krome Ave. Truck by Pass** – Project entailed a revised lighting design based on proposed roadway modification and intersection lighting retrofits to meet FDOT’s new lighting criteria for signalized intersections. We are a sub-consultant providing lighting design services, our contact Juan Calderon, 786 456-7700 Caltran Engineering Group



3. **FDOT District 4 – Blue Heron Safety Project** - This project also included 10 signalized intersection lighting retrofits to meet FDOT’s new lighting criteria. FDOT



Project Manager Scott Thurman (phone number 954.777-4135 and email address [Scott.Thurman@dot.state.fl.us](mailto:Scott.Thurman@dot.state.fl.us))

4. **FDOT District 6 Design/Build I-95** – We worked with the roadway design consultant, we performed a detailed field review of existing lighting system and developed recommendations.



We reviewed the light analysis and design including photometric calculations and voltage drop calculations. Design Project Manager Luis Tellechea (phone number 407.489.7972 and email address [Tellechea@gaiconsultant.com](mailto:Tellechea@gaiconsultant.com))

5. **FDOT District 1 Design/Build for US-301** – Major Design Build Project to widen/reconstruct US-310. We were hired by the Design Build Contractor to revise the lighting design to address a number of constructability concerns and cost saving ideas. Project Manager Luis A. Silva, PE - Aluces Corporation (786) 505-8665

6. **City of Miami Brickell Avenue Pedestrian & Street Lighting** – A project assigned by the Department of Capital Improvements consisting of developing the Pedestrian Lighting infrastructure along both the east and west sidewalks of Brickell Avenue on the Residential District (15<sup>th</sup> St. to 26<sup>th</sup> St.).



7. **City of Miami Coconut Grove Pedestrian & Street Lighting** – A project supervised by the Department of Public Works for the installation of all of the Pedestrian & Street Lighting along the Coconut Grove Business & Entertainment District including: Main Highway, Grand Avenue and McFarlane Road



8. **Midtown Miami Pedestrian & Street Lighting** – Hired by the Midtown Community Development District to design the complete Pedestrian & Street Lighting for Midtown Miami (14 City Blocks)



9. **City of Miami Beach South Beach Pedestrian & Street Lighting** – The design of the Pedestrian Lighting for numerous streets in South Beach including Michigan Avenue, Alton Road, Lincoln Road, Lincoln Avenue and Collins Avenue for the City of Miami Beach.



**E. Provide information on any litigation (settled or pending) the firm has been involved in within the last five (5) years.**

**PE Engineering** has not been involved in any litigation within the last 5 years or ever

**F. Describe the experience in conducting similar projects for each of the staff assigned to the engagement. Describe the relevant educational background of each individual.**



Our Proposed Project Manager **Jorge Maspons, PE** has 30 years of civil/roadway design experience. Jorge Maspons brings with him a solid, creative background in construction planning, design, engineering, program management, environmental science, sustainability, and strategic consultancy. He has designed numerous FDOT projects where lighting was part of the scopes, and has been the EOR on several lighting component plan sets. He was also the project manager for the FDOT Central Office and District 4 Design-Build Demonstration Project. The project consisted of the research, design, and construction of an innovative roadway lighting system along A1A in the City of Boca Raton. BS in Civil Engineering



**William Pino, PE** Electrical Engineer / Roadway Lighting Design Key Qualifications: Mr. Pino has 40 years of experience in Pedestrian & Roadway Lighting Design. Mr. Pino has also been associated with the world's leading Roadway Lighting companies, including General Electric, Hubbell, Sylvania and Phillips. Mr. Pino's career has been exclusively dedicated to "Exterior Lighting Design". Mr. Pino's experience and ability in developing innovative, cost effective lighting solutions has been greatly appreciated by his clients. Mr. Pino specializes in Roadway / Pedestrian Lighting and LED Lighting Design. He has worked on following pedestrian lighting project....ADD. BS in Electrical Engineering.



**Patricia Echeverri, PE** Project Manager/Sr. Engineer with over 20 years of progressive civil and water resources design experience. Ms. Echeverri is an accomplished project manager who knows how to develop practical design solutions that are efficient and cost effective. Ms. Echeverri has experience in general civil engineering disciplines including environmental engineering, drainage design, water and wastewater design, transportation engineering, project management, and construction management. Ms. Echeverri has worked on a number of

roadway lighting projects and is familiar with the design process involved from the development of electrical calculations to the coordination with utility companies. She has strong project management skills, and is able to guide effective delivery of projects, on time and under budget. She is also skilled at coordinating and negotiating with permitting agencies and stakeholders. BS in Civil Engineering and MS in Civil Engineering.



**Jerry Norona, PE** - QA/QC Manager with more than 43 years of experience in civil/transportation related design services and served for approximately 10 years as FDOT District Six Design Engineer. In that role, he oversaw the QA/QC process for the District's internal projects. Therefore, he is familiar with FDOT design standards, the QA/QC process and brings a wealth of hands on knowledge as it relates to design and construction. BS in Civil Engineering and MBA.



**Solange Boiangin** – A Senior Lighting Design Engineer, Mrs. Boiangin has 25 years of Photometric Analysis and Lighting Design experience. Specializes in photometric calculations (using various programs including AGI32 and AutoLux).

Expertise in design and layout development to not meet design criteria but also develop cost effective designs. Been involved in various aspects of Roadway Lighting, Area Lighting and Electrical Engineering. She is an expert on sophisticated lighting design and applications programs. BS in Electrical Engineering.



**Daniel Santillan, PE** - 10 years of electrical engineering experience. Specializes in roadway and outdoor lighting projects. Mr. Santillan has 10 years of electrical engineering / lighting design experience. Some of his responsibilities include CADD Design, Lighting Design and

Analysis (Voltage Drop Calculations) and Field Inspections. He has developed roadway lighting plans for outdoor projects, including roadways and parking lots. He is familiar with electrical design codes and County Standards. Provides technical assistance in the use of lighting standard design practices supporting design engineers in the preparation of lighting design plans. BS in Electrical Engineering.



**Vanessa Pino, PE, Ph.D.** - A is senior structural engineer with 10 years of experience. Her background includes the design of various transportation structures ranging from short, simple-span bridges to complex multi-span bridges. She has worked on a variety of projects, including the preliminary and

final design of new bridges, the design of the widening of existing bridges, various sign and signal structures, tolling gantry structures, concrete box culverts, miscellaneous structures (such as permanent and temporary retaining walls), Intelligent Transportation System (ITS) structures, and pier crash walls. Her structural experience also includes the design of foundation for lighting pole and mast arm signals. She also has experience in construction engineering inspection; design and inspection of transportation related structures, buildings and highways.

**Janaki Ram Budigi** - 2 years of roadway design and lighting design experience. Has worked mostly on plans development using CAD. BS and MS in Civil Engineering.

**Morella Bustamante** – 30 years of design experience as a senior CAD technician working roadway and lightning projects. BA in Architecture.

**G. Describe the organization of the proposed project team, stressing level of experience and qualification, detailing the level of involvement, field of expertise and estimated hours for each member of the team.**

**Staffing Quality & Availability:** To simplify the response to this question we have provided an organizational chart and resumes for our proposed staff. Our proposed Project Manager and his design team are identified in the organization chart. Once you reviewed the resume, you will note that on average each staff member has an average of 20 or more years of professional experience, much of it, performing roadway or lighting design work. As you will notice, each of our discipline leaders has a substantial amount of knowledge/ expertise that is essential in the success of this contract. We structured our team to address the three key areas of contract: (1) photometric analysis, (2) lighting / electrical design, and (3) lighting plan development. Recognizing that no project schedule is provided and based on experience, the work can be done in 12 to 18 months depending on CRA needs. The size and availability of our staff shown will permit completion of this assigned on a mutually agreeable schedule. While our workload may vary, we are confident that we can perform the required work

efficiently, in a timely manner, and produce a quality assured product. Based on experience with similar types of projects, these assignments typically require 2 to 3 persons at any one time. Based on our current backlog of work for the next 24 months versus available resources, we are confident that we can easily perform this assignment. **Staffing Experience on Similar Projects: PE Engineering** and its staff members have done numerous roadway / pedestrian lighting projects. Our roadway/ pedestrian lighting experience covers all aspects of lighting design; including coordination with FPL for placement of light fixtures on FPL poles, design on aerial images, field inspections (including light meter readings) and coordination with the railroad for placement near railroad RW. Our proposed Project Manager, **Jorge Maspons, PE** offers more than 30 years of comprehensive design experience. He has designed numerous FDOT projects where lighting was part of the scope and has been the EOR on several lighting projects. Our lighting design staff includes **Jerry Norona, PE** a civil engineer with over 40 years of experience, including serving as FDOT District 6 Design Engineer (therefore perfect for QC reviews). **William Pino, PE** an electrical engineer with over 30 years of experience specializes in roadway lighting. **Daniel Santillan, PE** electrical engineer with 10 years of roadway lighting experience. **Solange Boiangin** electrical engineer with 20 years of experience and expertise at photometric calculations (using various programs including AGI32 and AutoLux). **Patricia Echeverri, PE** a civil engineer with 20 years of experience, lead plan production effort, coordination with utilities and permitting agencies. To provide an **Hours Estimate** we would need a much more detailed scope. The scope that is included in the RFQ is one or two sentences long and only gives a general idea as to what CRA would like to achieve. Therefore, if we were the successful bidder, we would propose to have a scope clarification meeting and a field review. Within a week of that meeting, we will submit a detailed scope and fee estimate. In addition, the scope and fee will be broken down per task. Moreover, for each task we would assign a number of hours along with the name of the individuals that will be working on the task (including the individual billing rate). Once the NTP has been issued, we will begin management of the project. We will set up the project schedule to meet the CRA target date, and set up internal budgets, so we can track our progress versus expenditures. We will monitor our progress on a bi-weekly basis and submit to the CRA PM a progress report that tracks all project activities per task monthly. After that meeting, we would develop a detailed scope and fee proposal that would be broken down per task. For each task, we would assign a

number of hours along with the name of the individuals that will be working on the task (including the individual bill rate).

#### **H. Describe what municipal staff support is anticipated for this type of engagement.**

The City of Hollywood will become the maintaining agency for the proposed lighting; therefore, we will want their concurrence and approval of proposed lighting design. We also need coordination and approval via permit from FDOT when we are doing work on a state road (Hollywood Blvd.). In terms of City engagement, at the start of the project, we would propose to hold a kickoff meeting with the City so they can express any concerns, identify their points of contact and decision makers for when we need their input. We would also work with them to see what existing information might be available that might be useful. For coordination purposes, a typical design project goes through a 4-phase submittal process 30%, 60%, 90% and final. We would propose the same here and that each phase submittal be sent to the City for review comments so we are getting their input during the design process in order to avoid 'surprises' at the end.

#### **I. Describe your approach to performing the work. This should include the following points: (1) Your role and that of other parties involved in the data gathering, data analysis and recommendation process. (2) Your plan for this project outlining major tasks and responsibilities, project time schedule and staff assigned.**

Based on our experience, we discuss our project approach below.

**Project Approach to Scoping:** Upon selection, our first step will be to making sure we have a clear understanding of the scope and desired expectations/outcome. This is then followed by **gathering all readily available project information. We have already begun this process, see attachment on last page – For Lighting Details.** This also includes gathering aerials, GIS, R/W information, as-built plans, survey, maintenance reports, and old topographic surveys. All this information is used to develop a clear understanding of some of the potential issues and what additional information might be needed prior to going to the field. Now that we have a good idea of the project site, we are ready for the **scope/negotiations field review** with CRA staff. As part of this field review, we will begin the development of a project photo log (linked to KMZ file). Soon after, we will begin the process of **developing the staff-hour fee proposal and**

**scope**, where there may be the need for further clarification discussions with the CRA for survey needs, optional services, project objectives and expectations. Within a week of the field review, we will submit a detailed scope and fee estimate. Once the NTP has been issued, we will begin management of the project. We will set up the project schedule, and set up internal budgets so we can track our progress versus expenditures. We will monitor our progress on a bi-weekly basis and submit to the CRA PM a monthly progress report that tracks all project activities on all active Task Work Orders. Once the design is complete and the project has gone to construction, we will begin the post design services phase of the contract: answering RFI's, reviewing shop drawings, and meeting with the contractors and CEI folks to resolve any unforeseen conditions that may arise. **PE Engineering has managed Lighting Projects in the past and we understand the management effort involved.**

**Design Approach:** Identify the Design Criteria - FDOT Manuals and County Design Standards. Depending on the Street, we will analyze the project, identify deficiencies, and find feasible solutions.

**Conduct a Detailed Field Review:** We will implement a structured field review process based on: (1) Checklist; it is an Excel spreadsheet that covers all the components and subcomponents of a typical lighting project such as pole, fixture, pullbox, and sidewalk structures. (2) Detailed inventory of existing features based on pictures, measurements, and sketches. This information will be sorted and cataloged in KMZ files. This structured approach guarantees that necessary information is collected, sets the baseline for existing conditions, and begins the process of identifying project issues.

**Design Development:** The construction documents will be developed per latest design standards. Our designs will be engineered not only to address the identified deficiency/concern, but also to identify the best cost effective/innovative design solutions. Since we are cognizant of the fact that these are limited dollars, we will work to develop the most cost effective design solution. Senior engineers, with tremendous amounts of relevant experience, lead all our design efforts. Here is our approach to the elements that are typical within lighting design projects:

**Pedestrian Lighting Design:** The design approach for five-globe lights: (1) replace / upgrade existing lighting from HPS to LED fixtures. (2) Potentially supplement with additional light poles to meet the required illumination. For any proposed light pole, we will identify the optimal location based on avoiding utilities, clear width of sidewalk, ADA,

control zone and lateral offsets. Service point locations need to be coordinated with FPL.

**Service points:** Existing service points will be analyzed for compliance with NEC and FDOT Standards. We do anticipate adding additional lighting; however, because we will be replacing the existing HID luminaires with new LED luminaires that will consume less energy, we do not anticipate an increment in power, hence there will be no need to modify the existing points.

**Conduit & Wiring:** New wiring and conduit will need to be installed where new light poles are required. Based on field inspections and available utility surveys, **PE Engineering** will determine the installation method, although we anticipate that most of it will be in the form of directional boring. Voltage drop calculations will be done for every new wiring section added. The execution of this task will consist of tapping to the existing wiring at the existing pullboxes of the nearest existing lighting pole. A new pullbox and Pole Cable Distribution System (PCSS) will be installed at each new location. Pullboxes and PCDS will be specified to meet FDOT and NEC Standards including Grounding Criteria.

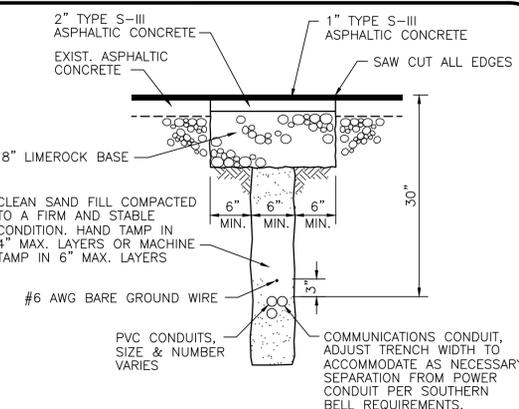
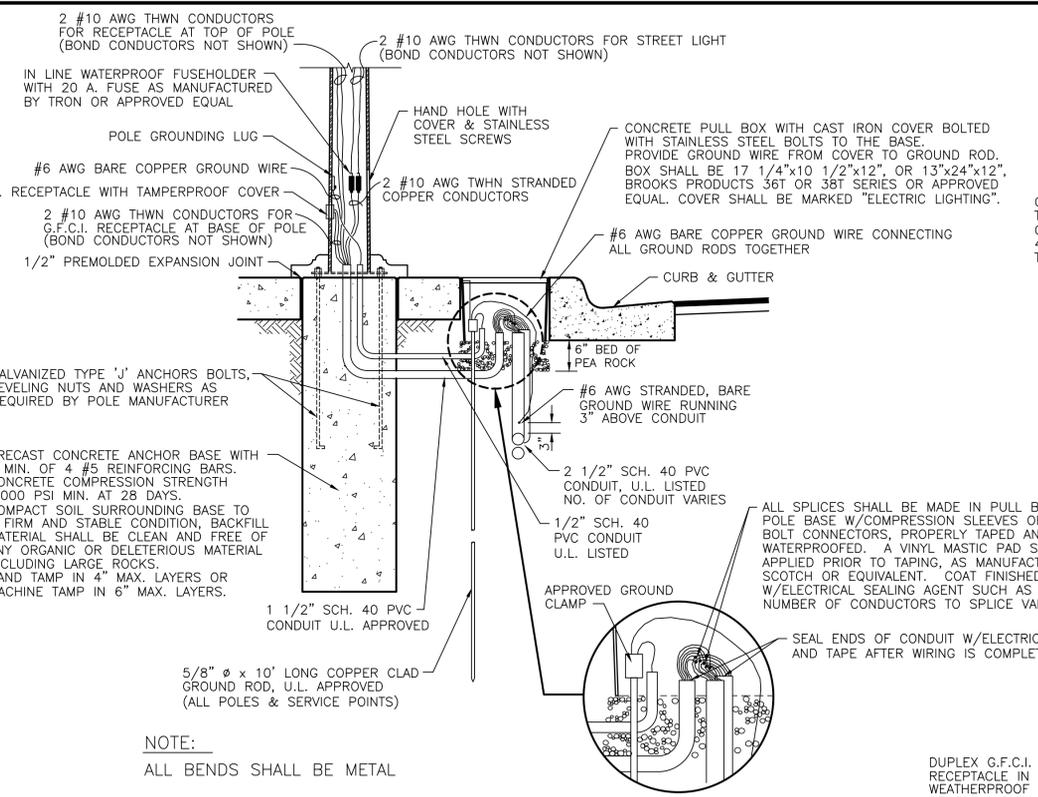
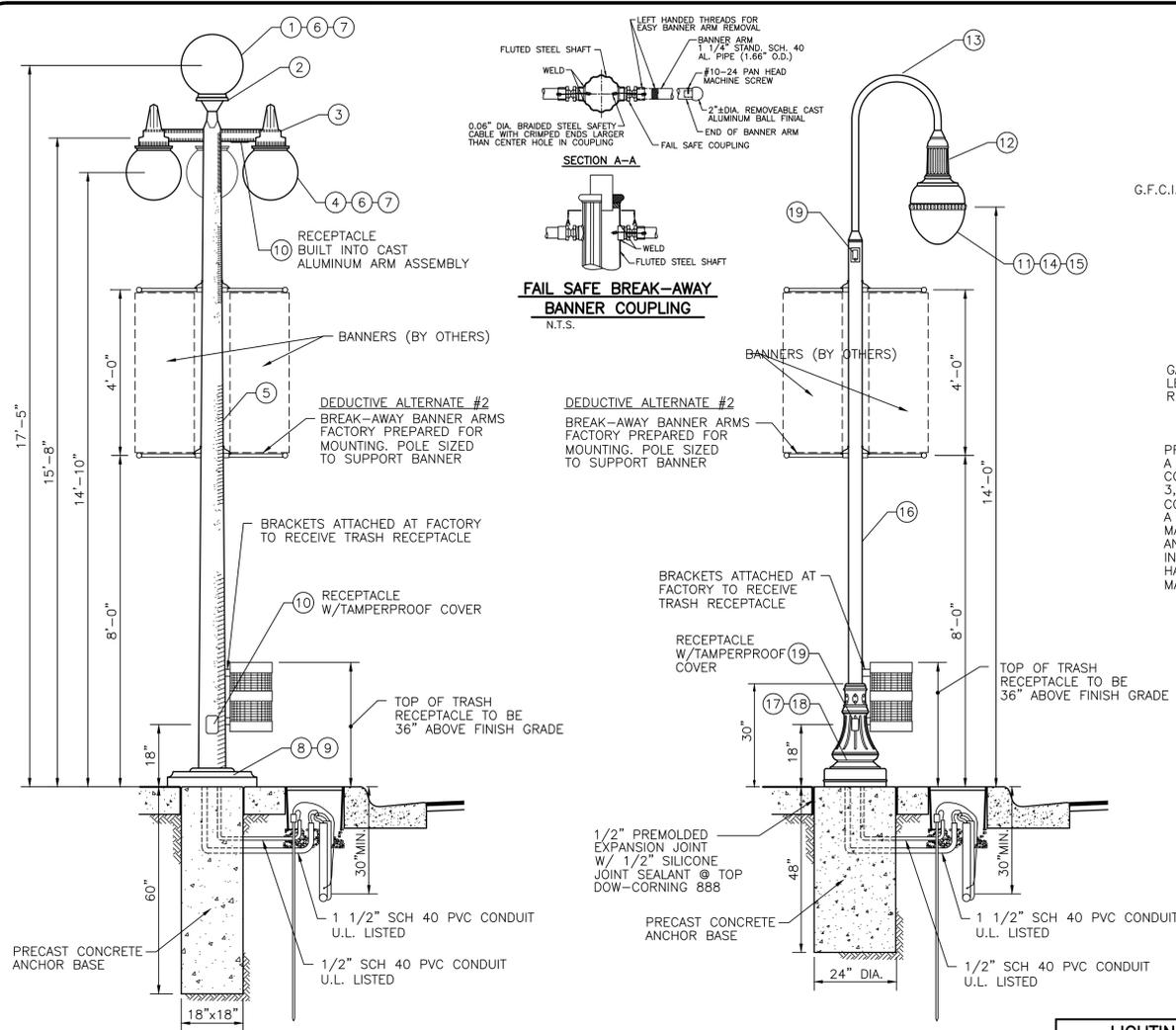
**Traffic Control Plans:** Traffic control plans will be developed with a necessary level of detail to provide the contractor guidance during construction. Traffic control plans will be based on FDOT Standard Plans 102-600, 102-601 to 102-615 and 102-660. The construction concept for roadway lighting will be straightforward. Most of the work will be done outside of the travel way, along the sidewalk area. Therefore, we need make sure plans address pedestrian needs including pedestrian detours if necessary.

**Utility Coordination:** **PE Engineering** will be pro-active in our coordination with all utility owners. We will conduct field reviews in order to identify potential conflicts. We will review the Sunshine-One-Call design ticket. We will work with all Utility Owners with facilities within the project area. **PE Engineering** also understands the importance of maintaining OSHA clearance requirements during the installation of light poles.

**Survey:** The intent is to minimize the amount of survey services needed there by saving project money. Considering this, our first step will be to see if the FDOT has any existing survey information that can be used. If not, we will proceed to develop the design concepts on aerial images downloaded from the FDOT A+PLUS website. These images will be supplemented with utility information (from as-built and SUE). Our approach to SUE work will be incremental designates followed by locates. Since most of five-globe fixture are being replaced, they can easily be located in the field. For new proposed light poles, we will tie down the location to items that can be physically identified in the field.

**Public Involvement:** The **PE Engineering** will create a partnership and establish open communication with all stakeholders (including FDOT, City, County), business owners and residents.

**Quality Assurance/Quality Control (QA/QC) Plan for this contract:** Our Project Manager, Jorge Maspons, P.E., will be responsible for implementing the Quality Assurance/Quality Control (QA/QC) Plan for this contract. We will create a Quality Control (QC) Plan that incorporates appropriate standards and design criteria; that will be submitted to CRA for review and approval. It is a project specific QC Plan where the plan will identify reviewers by name. The QC Plan addresses the project team organization and assigns individual QA/QC roles and responsibilities to each staff member to include: (1) Internal checking and review procedures (check stamp and color code used) on work performed by qualified personnel. (2) Internal peer/QA reviews for all deliverables to check for completeness, accuracy, and compliance with Design Standards. (3) Review of submittal documents by experts of various engineering disciplines. For example, our QC process includes a construct-ability review to identify any potential construction issues. The goal is to identify any discrepancies that could lead to a claim. Other items for review include pay items and quantities, specs, utility permits and maintenance agreements.



**LIGHTING DESIGN CRITERIA**

AVERAGE INITIAL ILLUMINATION	- 1.72 F.C.
AVERAGE MAINTAINED ILLUMINATION	- 1.2 F.C.
UNIFORMITY:	AVG/MIN - 4:1
GRID - 10'x10'	MAX/MIN - 10:1

- ELECTRICAL NOTES:**
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND THE SOUTH FLORIDA BUILDING CODE (S.F.B.C.).
  - ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN INSULATION IN THE MINIMUM SIZES INDICATED ON THESE DRAWINGS. BOND ALL FIXTURES AND METAL ITEMS TO GROUNDING WIRE SYSTEM. PROVIDE ALL BONDING CONDUCTORS AS REQUIRED BY THE N.E.C. AND S.F.B.C.
  - ALL BURIED OR CONCEALED CONDUIT SHALL BE U.L. LISTED, SCH. 40 P.V.C. ELECTRICAL CONDUIT. ALL EXTERIOR, SURFACE-MOUNTED, ABOVE GRADE CONDUIT SHALL BE U.L. LISTED, RIGID, GALVANIZED STEEL. ALL BENDS SHALL BE RIGID, GALVANIZED STEEL CONDUIT.
  - CONTRACTOR SHALL PROVIDE ALL JUNCTION BOXES, ACCESS FITTINGS, AND ACCESSORIES AS MAY BE REQUIRED. ALL ITEMS SHALL BE U.L. LISTED, NON-METALLIC, P.V.C.
  - CONDUIT RUNS ARE SHOWN SCHEMATICALLY ON ALL PLANS. FIELD CONDITIONS WILL DETERMINE THE ACTUAL CONDUIT RUNS WHICH SHALL BE APPROVED BY THE ENGINEER.
  - ALL BURIED CONDUIT SHALL HAVE A MINIMUM COVER OF 30".
  - ALL CONDUIT ENDS AND CONNECTIONS SHALL BE WATERTIGHT.
  - IDENTIFY BRANCH CIRCUIT CONDUCTORS IN THE FIELD BY COLOR OF INSULATION.
  - ALL ELECTRICAL ENCLOSURES SHALL BE FACTORY EQUIPPED WITH PADLOCK PROVISION.
  - ALLOW ENOUGH SLACK IN ALL WIRES SUCH THAT ALL SPLICES AND FUSEHOLDERS CAN BE HANDLED OUTSIDE OF THE POLE OR PULL BOX AT LEAST 12" FORM FACE OF OPENING.
  - THE NUMBER OF SPLICES SHALL BE KEPT TO A MINIMUM. RUN WIRE FROM MAIN SERVICE TO FIRST LIGHT POLE WITHOUT SPLICING AT ANY INTERMEDIATE PULL BOX. LEAVE A MINIMUM OF 42" OF SLACK IN ALL WIRES AT INTERMEDIATE PULL BOXES.
  - POLE, FIXTURE AND FOUNDATION SHALL BE DESIGNED TO COMPLY WITH A.S.C.E. 7-88 AND S.F.B.C. 1994 BROWARD EDITION. CONTRACTOR TO SUBMIT DOCUMENTATION TO THE BUILDING DEPT. PRIOR TO INSTALLATION.
  - ALL PAINTED PARTS TO BE THOROUGHLY CLEANED WITH AN ACID AND PASSIVATOR. A POLYENTYL RESIN PRIMER SHALL BE APPLIED BEFORE THE LINEAR ASPHALTIC POLYURETHANE PAINT IS ELECTROSTATICALLY APPLIED. COLOR AS REQUIRED.
  - ALL RECEPTACLES SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPT (G.F.C.I.) TYPE.
  - CONTRACTOR TO COORDINATE THE INSTALLATION OF COMMUNICATIONS CONDUIT WITH SOUTHERN BELL.
  - CONTRACTOR TO COORDINATE WITH F.P.&L. TO PROVIDE THE NEW SERVICE & TO REMOVE EXISTING AS SPECIFIED.
  - CONTRACTOR TO PROVIDE "AS-BUILTS" SHOWING LOCATIONS OF POLE, UPLIGHT, RECEPTACLE AND CONDUIT ROUTING. PROVIDE TYPEWRITTEN INDEX OF PANEL BREAKERS ATTACHED TO DOOR WITH CLEAR ACETATE COVER FOR EACH PANEL.

**PARTS LIST**

REF #	QUANTITY	DESCRIPTION
1	1	18" Ø ACRYLIC GLOBE
2	5	CAST ALUMINUM GLOBE HOLDER
3	1	4 WAY CAST ALUMINUM ARM ASSEMBLY
4	4	16" Ø ACRYLIC GLOBE
5	1	TAPERED STEEL POLE
6	5	70 W./100 W. MED. BASE LAMP 240 V. M.H.
7	5	METAL HALIDE BALLAST W/FUSE, 240 V. HIGH POWER FACTOR
8	1	CAST ALUMINUM DECOR. BASE
9	4	3/4"x36" GALV. ANCHOR BOLTS @ 90°
10	2	DUPLEX OUTLET 120 V. 3 WIRE 20 A. - G.F.C.I.
11	1	IMPACT RESISTANT ACRYLIC LENS
12	1	CAST ALUMINUM LENS HOLDER
13	1	CAST ALUMINUM ARM
14	1	70 W./100 W. MED. BASE LAMP 240 V. M.H.
15	1	METAL HALIDE BALLAST, 240 V. HIGH POWER FACTOR
16	1	4" OUTSIDE DIAMETER POLE
17	1	CAST ALUMINUM DECOR. BASE (DB3)
18	3	3/4"x24" GALV. ANCHOR BOLTS @ 120°
19	2	DUPLEX OUTLET 120 V. 3 WIRE 20 A. - G.F.C.I.

PLOTTED: 5/15/95

**REVISIONS**

NO.	DATE	DESCRIPTION	CHECKED

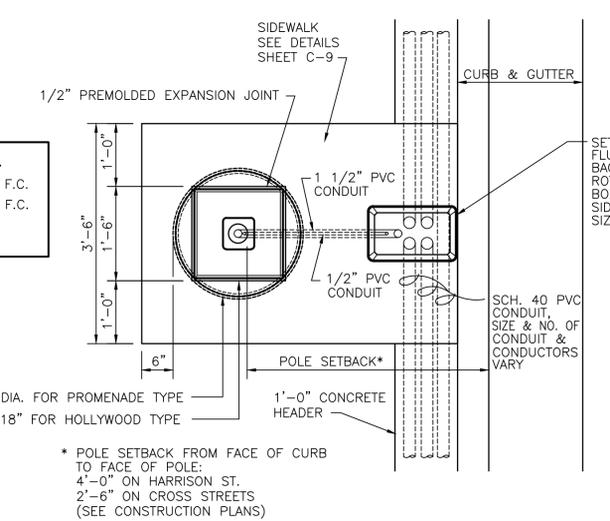
**ENGINEERING DIVISION**  
 DEPARTMENT OF DEVELOPMENT ADMINISTRATION  
 CITY OF HOLLYWOOD, FLORIDA

DESIGNED J.P. DRAWN B.A.M. CHECKED  
 FILE No. 95-003 CADD No. 95003-E3  
 PROJECT No. 66.0100.22041.554.014637 SCALE AS NOTED  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER

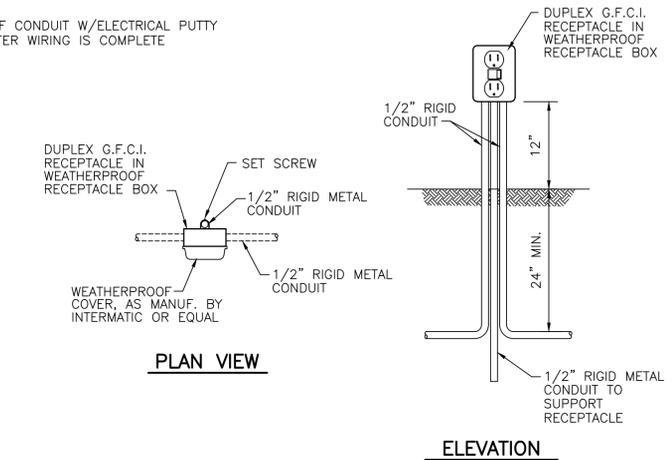
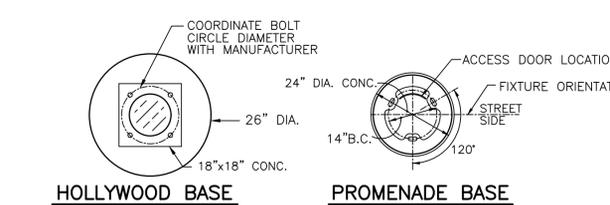
**DOWNTOWN HOLLYWOOD**  
**HARRISON ST. RECONSTRUCTION**  
 ELECTRICAL LIGHTING DETAILS

**SHEET**  
**E-3**  
**OF 49**  
**95003**

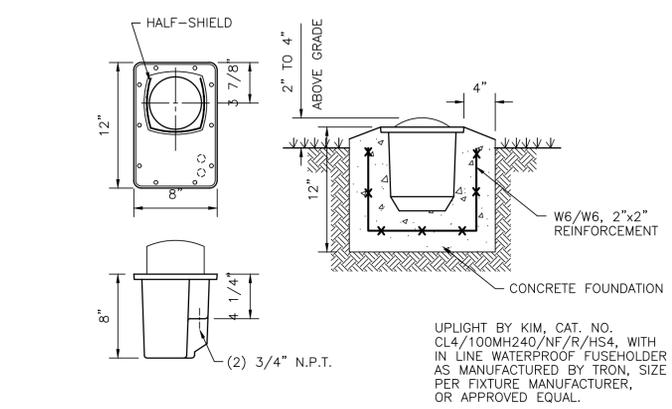
**TYPICAL LIGHT POLE INSTALLATION**  
 NOT TO SCALE



**TYPICAL POLE INSTALLATION PLAN VIEW**  
 SCALE: 3/4" = 1'-0"



**G.F.C.I. RECEPTACLE INSTALLATION**  
 NOT TO SCALE



**TYPICAL UPLIGHT INSTALLATION**  
 SCALE: 1 1/2" = 1'-0"

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
 NORMAN F. BRAY, P.E. No.9978  
 CONSULTING ENGINEER



# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

RFQ Engineering Consulting Services - Pedestrian Lighting

2. PUBLIC NOTICE DATE

08/27/2019

3. SOLICITATION OR PROJECT NUMBER

Terrence Comisky

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Jorge Maspons / President

5. NAME OF FIRM

PE Consulting Engineering

6. TELEPHONE NUMBER

305 450-2693

7. FAX NUMBER

N/A

8. E-MAIL ADDRESS

jmaspons@peengcon.com

### C. PROPOSED TEAM

*(Complete this section for the prime contractor and all key subcontractors.)*

(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR			
a.	✓			PE Consulting Engineering  <input type="checkbox"/> CHECK IF BRANCH OFFICE	2315 NW 107 Ave, Suite MA-28 Miami, FL 33172	Prime Consulting - Project Management, Lighting Design, Civil Engineering and Electrical Engineering
b.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

*(Attached)*

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Jorge Maspons	13. ROLE IN THIS CONTRACT  Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL  30	b. WITH CURRENT FIRM  5
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering, 1986		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida PE 46199 (1992) California PE 51096 (1993)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> NSPE, FES			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	2018	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
Blue Heron at Ave S, FDOT District 4, FL, Length	2016	2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this safety project, the project also entailed 10 intersection lighting retrofits		
Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	2016	2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this safety project, the project entail lighting modifications.		
Embedded Roadway Lighting System, FDOT Central Office and District 4, Boca Raton	2002	2004
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this design-build demonstration project. The project consisted of the research, design, and construction of an innovative roadway lighting system along A1A in the city of Boca Raton.		
SR 936 Palm Drive, FDOT District 6	2019	
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Truck Bypass)		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Daniel Santillan	13. ROLE IN THIS CONTRACT  Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL  10	b. WITH CURRENT FIRM  3

15. FIRM NAME AND LOCATION *(City and State)*  
PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172

16. EDUCATION <i>(Degree and Specialization)</i>  B.S. Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>  Florida PE EE 79327 (2015)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
FES, NSPE  
Training GE Advanced LTG

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>a.</b> Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles  (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections	2018	
	<input checked="" type="checkbox"/>	Check if project performed with current firm
<b>b.</b> Blue Heron at Ave S, FDOT District 4, FL, Length  (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineer for this safety project, the project also entailed 10 intersection lighting retrofits	2016	2018
	<input checked="" type="checkbox"/>	Check if project performed with current firm
<b>c.</b> Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,  (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineer for this safety project, the project entail lighting modifications.	21016	2018
	<input checked="" type="checkbox"/>	Check if project performed with current firm
<b>d.</b> Brickell Ave, City of Miami  (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design Engineer for the corridor between SE 25 St. to SE 15 St. Project consisted of lighting design for both pedestrian and roadway lighting.	2012	2013
	<input checked="" type="checkbox"/>	Check if project performed with current firm
<b>e.</b> SR 936 Palm Drive, FDOT District 6  (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Krome Truck Bypass)	2019	
	<input checked="" type="checkbox"/>	Check if project performed with current firm

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Jerry Norona	13. ROLE IN THIS CONTRACT  Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 43	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering, 1971 MBA, 1981		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida PE 15778 (1975)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>  Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
(1) TITLE AND LOCATION <i>(City and State)</i> Blue Heron at Ave S, FDOT District 4, FL, Length	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project also entailed 10 intersection lighting retrofits		
(1) TITLE AND LOCATION <i>(City and State)</i> Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project entail lighting modifications.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> SR 936 Palm Drive, FDOT District 6	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Truck Bypass)		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Morella Bustamante	13. ROLE IN THIS CONTRACT  CADD Designer	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S. Architecture		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
(1) TITLE AND LOCATION <i>(City and State)</i> Blue Heron at Ave S, FDOT District 4, FL, Length	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project also entailed 10 intersection lighting retrofits		
(1) TITLE AND LOCATION <i>(City and State)</i> Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project entail lighting modifications.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> SR 936 Palm Drive, FDOT District 6	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Krome Truck Bypass)		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Patricia Echeverri	13. ROLE IN THIS CONTRACT  Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL  20	b. WITH CURRENT FIRM  4
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering, 1990 MS Civil Engineering, 1996		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida PE 57432 (2001)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> FES, NSPE			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
(1) TITLE AND LOCATION <i>(City and State)</i> Blue Heron at Ave S, FDOT District 4, FL, Length	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project also entailed 10 intersection lighting retrofits		
(1) TITLE AND LOCATION <i>(City and State)</i> Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project entail lighting modifications.		
(1) TITLE AND LOCATION <i>(City and State)</i> Embedded Roadway Lighting System, FDOT Central Office and District 4, Boca Raton	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2002	CONSTRUCTION <i>(If applicable)</i> 2004
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil Engineer for this design-build demonstration project. The project consisted of the research, design, and construction of an innovative roadway lighting system along A1A in the city of Boca Raton.		
(1) TITLE AND LOCATION <i>(City and State)</i> SR 936 Palm Drive, FDOT District 6	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Krome Truck Bypass)		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Solange Boiangin	13. ROLE IN THIS CONTRACT  Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION *(City and State)*  
PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172

16. EDUCATION <i>(Degree and Specialization)</i>  B.S. Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
---	---

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Organization - Illuminating Engineering Society  
Training - GE Advanced LTG, Wide-Lite Advanced, AGI Advance Lighting Design

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>  Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
Photometric Design for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections

(1) TITLE AND LOCATION <i>(City and State)</i>  Blue Heron at Ave S, FDOT District 4, FL, Length	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
Photometric Design for this safety project, the project also entailed 10 intersection lighting retrofits

(1) TITLE AND LOCATION <i>(City and State)</i>  Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
Photometric Design for this safety project, the project entail lighting modifications.

(1) TITLE AND LOCATION <i>(City and State)</i>  Brickell Ave. City of Miami	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2013

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
Photometric Designer for the corridor between SE 25 St to SE 15 St project consisted of the lighting design combination of pedestrian and street lighting system along Brickell Ave, Residential District.

(1) TITLE AND LOCATION <i>(City and State)</i>  SR 936 Palm Drive, FDOT District 6	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Truck Bypass)

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Vanessa Pino	13. ROLE IN THIS CONTRACT  Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 10	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S. Civil Engineering MS Civil Engineering PHD Civil Engineer		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE Florida 77676 (2016)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> FES, NSPE			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>  Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural Design for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i>  Brickell Ave. City of Miami	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2013
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural Design for the corridor between SE 25 St to SE 15 St project consisted of the lighting design combination of pedestrian and street lighting system along Brickell Ave, Residential District.		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
<input checked="" type="checkbox"/> Check if project performed with current firm		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  William Pino	13. ROLE IN THIS CONTRACT  Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL  40	b. WITH CURRENT FIRM  2

15. FIRM NAME AND LOCATION *(City and State)*  
PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172

16. EDUCATION <i>(Degree and Specialization)</i>  B.S. Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>  Florida PE EE 32026 (1982)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Organizations - FES, NSPE, Illuminating Engineering Society, Cuban Engineering Society  
Training - GE Advance LTG, Wide-Lite Advance LTG, Holophane Advance LTG Course,

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	2018	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Electrical Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
Blue Heron at Ave S, FDOT District 4, FL, Length	2016	2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Electrical Engineer for this safety project, the project also entailed 10 intersection lighting retrofits		
Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	2016	2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Electrical Engineer for this safety project, the project entail lighting modifications.		
Washington Ave, City of Miami Beach	2008	2010
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for the Corridor between 5th St and Lincoln Road. Project consisted of a combination of pedestrian and street lighting		
Brickell Ave, City of Miami	2012	2013
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for the corridor between SE 25 St to SE 15 St project consisted of the lighting design combination of pedestrian and street lighting system along Brickell Ave, Residential District.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Yaser Abder Rahim	13. ROLE IN THIS CONTRACT  Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering, 1999		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Puerto Rico PE (2010)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	2018	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Civil Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
Blue Heron at Ave S, FDOT District 4, FL, Length	2016	2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Civil Engineer for this safety project, the project also entailed 10 intersection lighting retrofits		
Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	2016	2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Civil Engineer for this safety project, the project entail lighting modifications.		
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
SR 936 Palm Drive, FDOT District 6	2019	
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Krome Truck Bypass)		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Janaki Ram Budigi	13. ROLE IN THIS CONTRACT  Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> PE Consulting Engineering - 2315 NW 107TH Ave. Suite MA-28, Miami, FL-33172			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering, 2014 MS Civil Engineering, 2017		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>  Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Project also included pedestrian lighting along SW 3 Ave in Deerfield, over 100 light installed. The project also included 5 intersection lighting retrofits upgrade to LED and to meet new lighting criteria for intersections		
(1) TITLE AND LOCATION <i>(City and State)</i> Blue Heron at Ave S, FDOT District 4, FL, Length	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project also entailed 10 intersection lighting retrofits		
(1) TITLE AND LOCATION <i>(City and State)</i> Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL,	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this safety project, the project entail lighting modifications.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> SR 936 Palm Drive, FDOT District 6	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Sub Consultant Responsible for lighting Design SR 936/Palm Drive from SR 997/Krome Ave to SR 5/US 1 (Krome Truck Bypass)		

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>1</b>
21. TITLE AND LOCATION <i>(City and State)</i> <b>FDOT District 4 NE Broward Mobility Project</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>FDOT D4 and City of Deerfield</b>	b. POINT OF CONTACT NAME <b>Tom Good</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>954 480-4432</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

We recently completed the design for pedestrian lighting system along SW 3rd Ave from SW 10 St. to Hillsboro Blvd. (in the City of Deerfield Beach) about a mile long and a 100 lights where installed. The work was done under an FDOT contract that also included lighting improvement at five other signalized intersection.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>2</b>
21. TITLE AND LOCATION <i>(City and State)</i> <b>FDOT District 6 Krome Ave. Truck by Pass</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>FDOT D6</b>	b. POINT OF CONTACT NAME <b>Juan Calderon</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>786 456-7700</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project entailed a revised lighting design based on proposed roadway modification and intersection lighting retrofits to meet FDOT's new lighting criteria for signalized intersections. We are a sub-consultant providing lighting design service.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b>	(1) FIRM NAME Caltran Engineering Group	(2) FIRM LOCATION <i>(City and State)</i> 790 NW 107 Avenue, Suite 200 Miami, FL 33172	(3) ROLE Prime
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>3</b>
21. TITLE AND LOCATION <i>(City and State)</i> <b>FDOT District 4 Blue Heron Safety Project</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>FDOT D4</b>	b. POINT OF CONTACT NAME <b>Scott Thurman</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>954 777-4135</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

FDOT Roadway Safety Project that also included lighting. This project also included 10 signalized intersection lighting retrofits to meet FDOT's new lighting criteria.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>4</b>
21. TITLE AND LOCATION <i>(City and State)</i> <b>FDOT District 6 Design/Build I-95</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2018

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>FDOT D6</b>	b. POINT OF CONTACT NAME <b>Luis Tellechea</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>407 489-7972</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**FDOT District 6 Design/Build I-95** - We worked with the roadway design consultant, we performed a detailed field review of existing lighting system and developed recommendations. We reviewed the light analysis and design including photometric calculations and voltage drop calculations. Design Project Manager Luis Tellechea (phone number 407.489.7972)

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>GAI Consultants</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>618 E. South Street, Suite 700, Orlando, Florida 32801</b>	(3) ROLE <b>Prime Consultant</b>
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>5</b>
21. TITLE AND LOCATION <i>(City and State)</i> <b>FDOT District 1 Design/Build for US-301</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> Still on going

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>FDOT D1</b>	b. POINT OF CONTACT NAME <b>Luis Silva</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>786 505-8665</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

- FDOT District 1 Design/Build for US-301** - Major Design Build Project to widen/reconstruct US-310. We were hired by the Design Build Contractor to revise the lighting design to address a number of constructability concerns and cost saving ideas. Project Manager Luis A. Silva, PE - Aluces Corporation (786) 505-8665

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b> (1) FIRM NAME <b>Aluces Corporation</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>14750 SW 26th St, Suite 204          Miami, Florida 33185</b>	(3) ROLE <b>Prime Consultant</b>
<b>b.</b> (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b> (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b> (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b> (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b> (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>6</b>
21. TITLE AND LOCATION <i>(City and State)</i>  <b>City of Miami Brickell Avenue Pedestrian &amp; Street Lighting</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>City of Miami</b>	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**City of Miami Brickell Avenue Pedestrian & Street Lighting** - A project assigned by the Department of Capital Improvements consisting of developing the Pedestrian Lighting infrastructure along both the east and west sidewalks of Brickell Avenue on the Residential District (15<sup>th</sup> St. to 26<sup>th</sup> St.).

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>7</b>
21. TITLE AND LOCATION <i>(City and State)</i> City of Miami Coconut Grove Pedestrian & Street Lighting	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER City of Miami	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

City of Miami Coconut Grove Pedestrian & Street Lighting - A project supervised by the Department of Public Works for the installation of all of the Pedestrian & Street Lighting along the Coconut Grove Business & Entertainment District including: Main Highway, Grand Avenue and McFarlane Road

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>8</b>
21. TITLE AND LOCATION <i>(City and State)</i>  <b>Midtown Miami Pedestrian &amp; Street Lighting</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>Midtown Community Development Dist.</b>	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**Midtown Miami Pedestrian & Street Lighting** - Hired by the Midtown Community Development District to design the complete Pedestrian & Street Lighting for Midtown Miami (14 City Blocks)

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <b>9</b>
21. TITLE AND LOCATION <i>(City and State)</i>  <b>City of Miami Beach South Beach Pedestrian &amp; Street Lighting</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>City of Miami Beach</b>	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
--	--------------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**City of Miami Beach South Beach Pedestrian & Street Lighting** - The design of the Pedestrian Lighting for numerous streets in South Beach including Michigan Avenue, Alton Road, Lincoln Road, Lincoln Avenue and Collins Avenue for the City of Miami Beach

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

**G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS**

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Jorge Maspons, PE	Project Manager	X	X	X	X	X					
Patricia Echeverri, PE	Civil Engineer	X	X	X	X	X					
Jerry Norona, PE	Civil Engineer	X	X	X	X	X					
William Pino, PE	Electrical Engineer	X	X	X		X	X	X	X	X	
Daniel Santillan, PE	Electrical Engineer	X	X	X	X		X	X	X	X	
Yaser Rahim, PE	Civil Engineer	X	X	X	X	X					
Solange Boiangin	Photometric Analysis	X	X	X	X		X	X	X	X	
Janaki Ram Budigi	CADD Designer	X	X	X	X	X					
Morella Bustamante	CADD Designer	X	X	X	X	X					
Vanessa Pino, PE, PHD	Structural Engineer	X					X	X	X	X	

**29. EXAMPLE PROJECTS KEY**

NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	FDOT District 4 NE Broward Mobility Project	6	City of Miami Brickell Avenue Pedestrian & Street Lighting
2	FDOT District 6 - Krome Ave. Truck by Pass	7	City of Miami Coconut Grove Pedestrian & Street Lighting
3	FDOT District 4 - Blue Heron Safety Project	8	Midtown Miami Pedestrian & Street Lighting
4	FDOT District 6 Design/Build I-95	9	City of Miami Beach South Beach Pedestrian Lighting
5	FDOT District 1 Design/Build	10	

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**H. ADDITIONAL INFORMATION**

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30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

---

**I. AUTHORIZED REPRESENTATIVE**

*The foregoing is a statement of facts.*

31. SIGNATURE

32. DATE

08/26/2019

33. NAME AND TITLE

Jorge Maspons / President



# INSURANCE CERTIFICATE

---





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
08/13/2019

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

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

<b>PRODUCER</b> Pearl Insurance 1200 East Glen Avenue Peoria Heights, IL 61616	<b>CONTACT NAME:</b> ASCE Professional Liability Department <b>PHONE (A/C, No, Ext):</b> 800-322-2488 <b>E-MAIL ADDRESS:</b>	<b>FAX (A/C, No):</b> 866-817-9009
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> PE Consulting Engineering dba PE Engineering 2315 NW 107th Ave, Ste 48 Miami, FL 33172-2114	<b>INSURER A:</b> Underwriters at Lloyd's of London (AM Best #085202)	
	<b>INSURER B:</b>	
	<b>INSURER C:</b>	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	
	<b>INSURER F:</b>	

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

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	<b>Professional Liability Insurance</b> Retro Date: 10/07/2013	NA	N	2201479 - 01	10/07/2018	10/07/2019	\$1,000,000 Each Claim \$1,000,000 Aggregate \$5,000 Deductible

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
 Project: SR-802 LakeWorth Rd Roundabout Ped Improvements  
 Project Number: 44004613201

<b>CERTIFICATE HOLDER</b>	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE Pearl Insurance 

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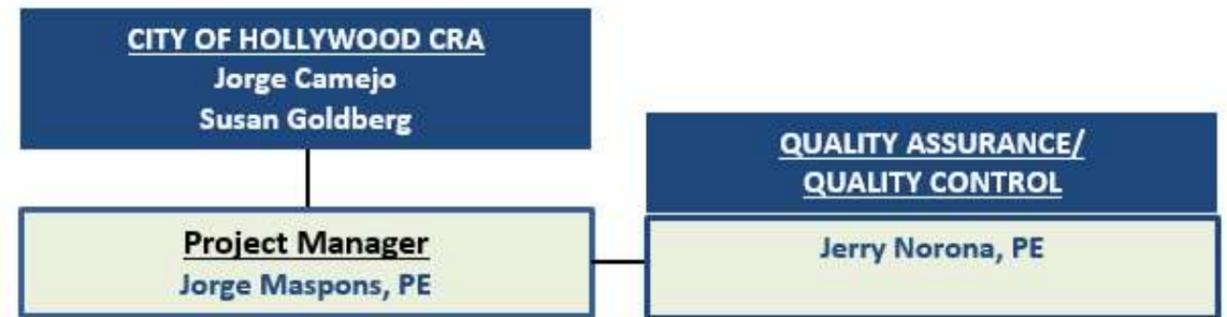
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# ORG CHART & RESUMES

Consultant Name	Employee Name	Type of Degree	Years of Exp.	PE License
PE Engineering	Jorge Maspons, PE	BSCCE	28	1992
PE Engineering	Patricia Echeverri, PE	MSCE	20	2001
PE Engineering	Jerry Norona, PE	MSCE	40	1975
PE Engineering	William Pino, PE	BSEE	35	1982
PE Engineering	Daniel Santillan, PE	BSEE	6	2015
PE Engineering	Vanessa Pino, PE, PHD	PhD CE	10	2016
PE Engineering	Yaser Rahim, PE	BSCCE	17	2010
PE Engineering	Solange Boiangin	BSEE	15	NA
PE Engineering	Janaki Ram Budigi	MSCE	3	NA
PE Engineering	Morella Bustamante	BA Architect	15	NA



## RFQ Engineering Consulting Services – Pedestrian Lighting DCRA 19-023



# Jorge Maspons, PE

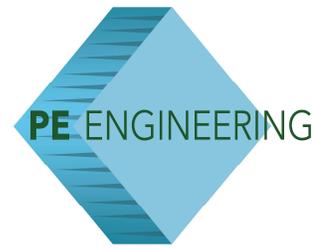
## Project Manager

Office: (786) 646-9823

Cellular: (305) 450-2693

Email: [jmaspons@peengcon.com](mailto:jmaspons@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

*Professional Engineer: Florida, 1992 (46199); California, 1993 (51096)*  
*Proficient in: Microstation, InRoads, OpenRoads, MS office.*  
*Area of expertise: Roadway Design, Lighting Design, Signing and Pavement Marking, TTCP*

Jorge Maspons offers 30 years of comprehensive civil engineering experience, including roadway design, site-civil, and project development and environment work. Jorge has extensive transportation related design experience; he has worked with FDOT Districts 2, 4, 6, and Turnpike. He has also worked with Miami Dade Expressway Authority, Miami Dade MPO, Miami-Dade Transit and Miami-Dade Public Works Department. He has been involved in all aspects of roadway design projects from planning to construction. Jorge held various positions from Principal-In-Charge, Project Manager, Lead Designer, and QA/QC Coordinator for numerous high-profile projects throughout the State. Throughout his tenure, Jorge has successfully managed Design Projects as well as Design-Build Projects. He has also completed numerous leadership programs including, the Florida Engineering Society/Florida Institute of Consulting Engineers (FES/FICE) Leadership Institute. And he is a graduate of the Florida Department of Transportation (FDOT) PE Trainee Program.

## EDUCATION

*Florida International University*

B.S., Civil Engineering, 1986

## PROFESSIONAL EXPERIENCE

*PE Engineering Inc.*  
*Miami, FL*  
*2013 - Present*  
*Project Manager*  
*Transportation/Roadway Team.*

**City of Miami Gardens Freight Mobility Improvement Plan, FDOT District 6, FL, Dates 2017-Active** — Project Manager for this subarea freight planning study which is based upon partnering with local communities to analyze freight movement at the local level and identify freight mobility strategies at the project level. There are a number of project task including stakeholder coordination, data collection, truck travel characteristics and development of alternatives. (Reference: Carlos Castro 305 470-5238).

**Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles, Dates 2016-Active** Project Manager for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Four corridors are: NE 11Ave from Atlantic Blvd to NE 6th St, NE 48/49 St from Powerline Road to US-1, SW 3rd Ave from SW 10th St Hillsboro Blvd, and SE 2 Ave from SE 10th St to Hillsboro Blvd. Improvement entailed: 1 corridors was a road diet so typical section was reconfigured median was added, milling and resurfacing, widening, SAPM, ADA improvements, pedestrian lighting, utility coordination, permitting and coordination with Broward MPO and Cities. (Reference: Fernando Morales 954-777-4687)

**Blue Heron at Ave S, FDOT District 4, FL, Length .2 miles, Dates 20014-2017** — Project Manager for this safety project, the project entail intersection modifications (all 4 curb radius are being reconstructed), new mast arm signals with lighting, extensive utility coordination and relocation, right-of-way acquisition, permitting including 4F issues and milling and resurfacing and re-grading of intersection. The project also entailed coordination with the 3 schools that are near the intersection. (Reference: Scott Thurman 954-777-4135)

**Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL, Dates 20014-2017** — Project Manager for this safety project, the project entail several modifications to the roadway (all geared toward reducing accidents), new drainage system, modification mast arm signals, modification lighting, utility coordination and relocation, permitting and milling and resurfacing within entire project limits. (Reference: Elsa Riverol 305-470-5105)

*Parsons Brinckerhoff*  
*Miami, FL*  
*2007 – 2013*  
*Project Manager*  
*Transportation*

**Veterans Drive Improvements, U.S. Virgin Islands Department of Public Works, Length 2 miles, Dates 2007-2012** Project Manager responsible for the final design, construction documents and environmental studies relative the improvements to Veterans Drive in St Thomas. This project entails over one mile of roadway reconstruction (and widening towards the ocean with retaining walls and backfill). The project also entailed decorative lighting, signalization, landscaping and extensive aesthetic improvements (because it is main route between the cruise ships terminal and downtown shopping areas). In addition, the project entailed the relocation of a fire station. (Reference: Wystan Benjamin 340-776-4844)

**Seaboard Marine Terminal Yard Redevelopment - Port of Miami, Miami, Florida, Dates 2005-2007** - Project Manager for the redevelopment of 60 acre site. Tasks include site design, drainage design, pavement design, lighting design, utility relocation, water & sewer, cost estimate, construction specifications, permitting, bid support and construction support services (site inspections, shop drawing review, and RFI's). The design was done in phase to



## PROFESSIONAL EXPERIENCE

**Edwards and Kelecy**  
Miami, FL  
2004 - 2007  
Project Manager  
Transportation

allow Seaboard Marine to maintain an active shipping yard operation.

**SR 5 US 1 – Card Sound Road Reconstruction, FDOT District 6, Length 5 miles, Dates 2004-2007** - Principal in Charge for the widening of the roadway to accommodate a 12-ft. lane section and a 6-ft. median shoulder in either direction separated by a median barrier wall. The northbound roadway will include a 12-ft. outside shoulder (10-ft. paved to be used as an additional lane for evacuation purposes). (Reference: Danny Iglesias 305-470-5289)

**NW 57th Avenue (Red Road) from W 19th Street to W 45th Street in Hialeah, FL, FDOT District 6, Length 2 miles, Dates 2004-2007** - Principal In Charge for the final design and plans production for approximately 2 miles including roadway geometry and drainage, signing & pavement markings, maintenance of traffic, traffic signals and roadway lighting. (Reference: Danny Iglesias 305-470-5289)

**SW 328 St (Canal Drive) from SW 162nd Avenue to SW 152nd Avenue, Miami Dade Public Works, Length 1 miles, Dates 2004-2007** - Project Manager for the widening from a rural 2-lane section to an urban 4-lane section with a bike path. Project also including sign and pavement marking and the creation of a new signalized intersection. (Reference: Leo Ona 305-375-1909)

**Venetian Island Package B, City of Miami Beach, FL., Length 1.5 miles, Dates 2004-2007** - Project Manager for the final design of Belle Isle. The project consists of milling and resurfacing and minor widening improvements. The project entailed complex drainage design consisting of a combined system that included gravity collection, one pump station and 3 injection wells. (Reference: Jorge Chartrand 305-673-7071)

**HNTB**  
Miami, FL  
1998 - 2004  
Project Manager  
Transportation

**MDX 836-012 Design-Build Flyover Project, Miami, FL, Length 2 miles, Dates 2000-2004** — Design Project Manager for this Design/Build project; preparation of construction documents for the reconstruction of approximately 3 miles of SR 836. The project consisted of the realignment of the ramp, 3 new bridges and 1 bridge widening, the design of a new drainage system, lighting system, and signing and marking. The project also entailed a very challenging MOT because of the need to maintain all lanes open. (Reference: Sam Gonzales 305-637-3277)

**I- 95 (SR 9) HOV Lanes, FDOT District 4, Boynton Beach, FL, Length 3.3 miles, Dates 1998-2002** — Project Manager for the final design and preparation of construction documents for the reconstruction of 3.3 miles of I-95. The project consisted of the redesign of two major interchanges at Linton Boulevard and Atlantic Avenue, 10 new bridges, complete new drainage system, new lighting system, signing and pavement markings. The project involved a very challenging traffic control plan because the profile of the roadway was being raised 3 to 5 ft at the interchange to meet vertical clearance requirements for the new wider bridges. (Reference: Henry Oaikhena 954-777-4445)

**I-95 3R Project in Palm Beach County, FDOT District 4, FL, Length 5 miles, Dates 2000-2002** — Project Manager for this milling and resurfacing project along I-95, the project also included the milling and resurfacing of 3 interchanges. The project also entailed up-grading of existing sign panels, lighting, signalization, pavement markings and landscaping. In addition. The project also entailed the development of a 3R report. (Reference: Henry Oaikhena 954-777-4445)

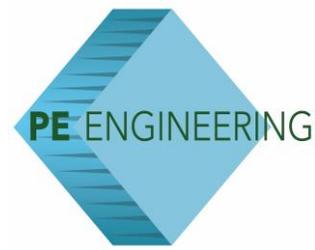
**I-595 3R Project County, FDOT District 4, FL, Length 5 miles, Dates 2001-2003** — Project Manager for this milling and resurfacing project along I-595, the project also included the installation of median guardrail along the entire project. The project entailed up-grading of existing sign panels, signalization, pavement markings and landscaping. In addition, District 4 contracted us to design a median guardrail system along almost the entire project corridor. The project included a 3R report. (Reference: Henry Oaikhena 954-777-4445)

**Embedded Roadway Lighting System, FDOT Central Office and District 4, Boca Raton, FL, Length 1 miles, Dates 2001-2002** — Project Manager for this design-build demonstration project. The project consisted of the research, design, and construction of an innovative roadway lighting system along A1A in the city of Boca Raton. The objective of this project was to develop an embedded roadway lighting system in an attempt to avoid impacts to the nesting habits and orientation of sea turtles on adjacent beach. (Reference: Ann Broadwell 954-777-4130)

**I-95 Design/Build Rest Areas, FDOT District 4, St. Lucie County, FL Length 2 miles, Dates 2002-2004** — Design Project Manager for this Design/Build project; design and preparation of construction documents for the reconstruction of two rest areas (northbound and southbound) along I-95. The project involved the re-alignment of ingress/egress ramps, revised parking areas, revised drainage, new lighting and new signing and marking. The project also required utility coordination and new rest area facilities. (Reference: Henry Oaikhena 954-777-4445)

# Vanessa Pino, Ph.D., PE

Structural Engineer



## KEY QUALIFICATIONS

*Professional Engineer: Florida, 2016  
(77676)  
Proficient in: Microstation, Matlab,  
Revit Structures, MIDAS, MS office.  
Area of expertise: Structural Design  
/Analysis, Bridge design/ inspection*

Vanessa has 10 years of experience and has worked on a variety of projects, including the preliminary and final design of new bridges, the design of the widening of existing bridges, various sign and signal structures, tolling gantry structures, concrete box culverts, and miscellaneous structures, such as permanent and temporary retaining walls, Intelligent Transportation System (ITS) structures, and pier crash walls.

## EDUCATION

*University of Miami  
Virginia polytechnic institute and State  
University  
University of Miami*

- Ph.D. Civil Engineering, August 2016.
- M.S Civil Engineering, December 2010.
- B.S Civil Engineering, May 2009.

## PROFESSIONAL EXPERIENCE

*EAC Consulting Inc.  
Miami, FL  
2017 - 2018  
Structural Engineer  
Transportation/Structures Team.*

- ❖ Structural Analysis/Design of highway structures
- ❖ Bridge design: steel plate girders, deck slab, prestressed concrete girders
- ❖ Typical Projects:
  - SR 826
  - Dadeland Metrorail Station
  - FDOT Miscellaneous structures (overhead sign structures, span sign structures)

*University of Miami.  
Miami, FL  
2014 - 2016  
Research/Teaching Assistant*

- ❖ Structural Analysis/Design of RC components using composite systems (FRP and FRCM)
- ❖ Laboratory Testing per ASTM and ICC-ES Standards
- ❖ Typical Projects:
  - Strengthening Impact Damaged Prestressed Concrete Girders with Composites (FRP and FRCM)
  - Fatigue Loading of RC Beams Strengthened with FRCM
  - Material Characterization of Composite Systems (FRP and FRCM)

*EAC Consulting Inc.  
Miami, FL  
2012 - 2014  
Structural Designer  
Transportation/Structures Team.*

- ❖ Structural Analysis/Design
- ❖ Structural Inspection
- ❖ Typical Projects:
  - Miami International Airport- Refurbishment of the Dolphin and Flamingo Garages
  - Decorative Wall Along A1A Ft. Lauderdale, FL
  - Brickell Citicentre
  - Miscellaneous Structures

*Youssef Hachem Consulting  
Engineering  
Miami, FL  
2011 - 2012  
Junior Structural Engineer*

- ❖ Structural Analysis/Design
- ❖ Structural Inspection
- ❖ Typical projects:
  - Paving, Grading and Drainage/Water Resources
  - 40 year building certification
  - Building Rehabilitation
  - Light Pole Design
  - Residential Building Analysis/Design
  - ADA/Egress Compliance
  - Foundation Design
  - Rooftop Structures

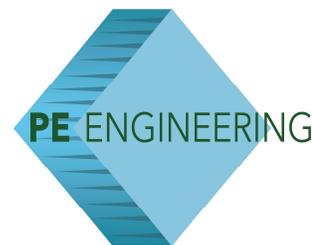
# Daniel Santillan, PE

Electrical Engineer

Office: (786) 646-9823

Email: [dsantillan@peengcon.com](mailto:dsantillan@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

*Professional Engineer: Florida, 2015  
(79327)  
Proficient in: AutoCAD, Microstation,  
InRoads, OpenRoads, MS office.  
Area of expertise: Roadway Design,  
Lighting Design,*

Mr Santillan, has 10 years of electrical engineering / lighting design experience. Some of his responsibilities include CADD Design, Lighting Design and Analysis (Voltage Drop Calculations) and Field Inspections. Excellent math, communication, and computer skills

## EDUCATION

*Florida International University*

B.S., Electrical Engineering, 2010

## PROFESSIONAL EXPERIENCE

### *Design Experience*

He has developed roadway lighting plans for outdoor projects, including roadways and parking lots. Familiar with electrical design codes and Miami-Dade County Standards. Provides technical assistance in the use of lighting standard design practices supporting design engineers in the preparation of lighting design plans.

FDOT Design-Build District 4 I-95 Spanish River Blvd Interchange Project. A significant lighting project; project including a segment of I-95 and a new interchange, with elevated ramps near Boca Airport so extensive coordination with FAA was required to address airspace issues (FAA part 77 rules). Pole height was reduced and light fixture where shielded and full cut-off luminaire.

Also has worked on a number of roadway lighting projects in South Florida for cities, counties, including:

- Shops at Midtown Miami, Mix-Used Development, Miami, FL
- Miami Riverfront, Mix-Used Development, Miami, FL
- Grand Avenue, Mix-Use Development, Coconut Grove, FL
- Grand Flamingo High Rise Complex, Miami Beach, FL
- Fasulo Park, Florida City, FL
- Bailey Road, Broward County, FL
- 55 Merrick Way, Condominium Complex, Coral Gables, FL
- SR-836 Extension (MDX Roadway Project)
- SW 328th Street, Miami Dade County Roadway Widening Project
- Lincoln Road, Miami Beach, FL
- Torino, Port St. Lucie Home Development

# Jerry Norona,

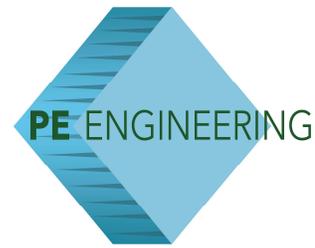
## PE

### Roadway / QC

Office: (786) 646-9823

Email: [jnorona@peengcon.com](mailto:jnorona@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

Professional Engineer: Florida, 1975  
(15778); Georgia(10298)

Area of expertise: Drainage/Roadway  
Design, Lighting Design, Signing and  
pavement marking, TTCP

Mr. Norona has more than 43 years of experience in transportation and served for approximately 10 years as the District 6 Design Engineer for the Florida Department of Transportation. He has been responsible for management of projects, quality control, community coordination, marketing, and client satisfaction

## EDUCATION

University of Miami  
University of Miami

MBA, Business Administration, 1981

B.S. Civil Engineering, 1971

## PROFESSIONAL EXPERIENCE

PE Engineering Inc.  
Miami, FL  
2015 - Present  
Project Manager  
Transportation

**Blue Heron at Ave S, FDOT District 4, FL, Length .2 miles, Dates 20014-2017** — Project Manager for this safety project, the project entail intersection modifications (all 4 curb radius are being reconstructed), new mast arm signals with lighting, extensive utility coordination and relocation, right-of-way acquisition, permitting including 4F issues and milling and resurfacing and re-grading of intersection. The project also entailed coordination with the 3 schools that are near the intersection. (Reference: Scott Thurman 954-777-4135)

**Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL, Dates 20014-2017** — Project Manager for this safety project, the project entail several modifications to the roadway (all geared toward reducing accidents), new drainage system, modification mast arm signals, modification lighting, utility coordination and relocation, permitting and milling and resurfacing within entire project limits. (Reference: Elsa Riverol 305-470-5105)

**Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles, Dates 20016-Active** — Project Manager for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to 4 corridors in NE Broward County. Four corridors are: NE 11Ave from Atlantic Blvd to NE 6<sup>th</sup> St, NE 48/49 St from Powerline Road to US-1, SW 3<sup>rd</sup> Ave from SW 10<sup>th</sup> St Hillsboro Blvd, and SE 2 Ave from SE 10<sup>th</sup> St to Hillsboro Blvd. Other improvements included pedestrian lighting along SW 3<sup>rd</sup> Ave and five lighting intersection retrofits.

CDM Smith  
Miami, FL  
2011 – 2015  
Project Manager  
Transportation

**Districtwide Plans Review and Support Consultant Services, FDOT District 6 (2008-2012)** Project manager responsible for coordinating task orders, performing plans reviews, and attending review meetings for projects, including Local Agency Program (LAP) and American Recovery and Reinvestment Act (ARRA) projects. This contract also includes the review of permits applied for work within the state right of way. (Reference: Christopher Tavella, PE)

**General Engineering Consultant Services to the Florida Rail Enterprise, Florida Department of Transportation (2010-2011)** - As part of the effort to bring high speed rail to Florida, the HNTB/WSA team provided general engineering consultant (GEC) services to the Florida Rail Enterprise branch of the state Department of Transportation. Florida's high-speed rail program was put on hold in February 2011. As a senior professional engineer, I provided quality control reviews services for the HSR segment between Lakeland and Tampa. Focused mainly on the roadway design and maintenance of traffic elements.(Reference: Gus Pego, PE)

**SIS Master Planning Services, FDOT District 6, Miami, FL (2008-2011)** - Coordinator and quality assurance manager for on-call services contract with FDOT. Assignments included presentation to Miami-Dade MPO Freight Transportation Advisory Committee regarding SIS, its funding and impacts to the County, and evaluation of traffic congested locations along the SIS network within District 6 and recommendations for feasible solutions. (Reference: Phil Steinmiller)

**Honore Avenue/Pinebrook Road Extension, Sarasota County, FL (2008-2010)** - Responsible for the quality control for final plans reviews on this major arterial roadway, a 3.8 mile, 4-lane divided urban roadway on a new alignment. This project requires close coordination with FDOT District 1 for utilizing the limited access right-of-way at I-75. (Reference: Ray Porter, PE)



## PROFESSIONAL EXPERIENCE

**SR 15, SR 60, and SR 472, FDOT District 5, Volusia County, FL; (2006-2007)** - Responsible for overall design supervision and quality control of construction documents for milling and resurfacing projects as part of a Miscellaneous Design Consultant contract. (Reference: Amir Asgarinik, PE)

**Diagonal Road - Brevard County, FL; Private developer; (2006-2007)** - Responsible for quality control and project coordination with stakeholders. The project entailed the development of construction documents for the new road connecting to a state road. (Reference: Mario Bizzio)

**Woodbine-Chumuckla PD&E Study - Santa Rosa County, FL (2006-2007)** - Principal-in-charge responsible for the PD&E study conducted for the Woodbine Road and Chumuckla Highway, 4-mile corridor, and the Five Point Intersection with Benyhill Road. The firm was also awarded final design of the preferred alternative. (Reference: Mike Melvin, PE)

**Plans Review, FDOT District 4, Broward County, FL (2004-2006)** - Principal-in-charge responsible for this task order contract. Our role entailed the review and preparation of comments on construction documents prepared by others for the Department. (Reference: James Ford, PE)

**US 41/SR 45, FDOT District 7, Pasco County, FL (2004-2006)** - Quality Control engineer for the design of the reconstruction of a 4.5-kilometer section of a six-lane urban/four-lane rural divided facility. (Reference: Carolyn Riley, PE)

**S.R. 5/Whitehead and Truman Streets, FDOT District 6, Key West, FL (2004-2006)** - Served as the project director and coordinator for; the final design and preparation of construction documents for the reconstruction of 1-mile of a 4-lane city street through Key West's downtown historical district. (Reference: Joe Gomez, PE)

**SR 823, Red Road, FDOT District 6, Miami-Dade County, FL; (2003-2006)** - Managed quality assurance functions and provided supervision of the roadway design for drainage, traffic control, signing and pavement markings, and signalization for the construction documents for reconstruction of two miles of a six-lane divided expressway facility. (Reference: Daniel Iglesias, PE)

**SH 130, TxDOT, Texas Turnpike Authority (2003)** - Coordinated and managed quality assurance functions for the design of toll facility. Part of D-B team developing construction drawings for 30 miles of new limited access road from San Antonio to Austin, including 13 interchanges, crossroads and one mainline toll plaza. (Reference: Richard Markwith, PE)

**US 98/SR 30, FDOT-District 3, Walton County, (2001-2003)** - Managed quality assurance functions and provided supervision of the roadway design for drainage, traffic control, signing and pavement markings, and signalization and the preparation of construction documents for the reconstruction of a 9-mile section of an urban/rural four-lane divided facility (six-lane ultimate configuration). (Reference: Alex G. Meitin, PE)

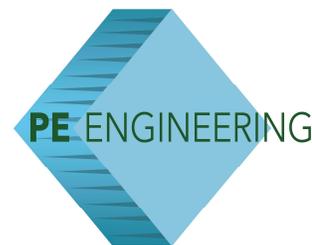
# Morella Bustamante

Sr. CADD Technician

Office: (786) 646-9823

Email: [mbustamante@peengcon.com](mailto:mbustamante@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

*Proficient in: AutoCAD, Microstation,  
InRoads, OpenRoads, MS office.  
Area of expertise: Roadway Design,  
Lighting Design, Signing and  
Pavement Marking, TTCP*

Senior CAD Technician with 30 years of experience. I am team-oriented and self-directed with personal integrity and professional ethics. I have worked on numerous highway and bridge design projects, and several project development and environmental studies. I am proficient in engineering software like Micro station V8i, Geopak, Decartes and Project Wise. My architectural background has equipped me with the skills necessary to develop professional presentation graphics.

## EDUCATION

*University Central de Venezuela*

B.A. Architecture, 1976

## PROFESSIONAL EXPERIENCE

**PE Engineering Inc.**  
*Miami, FL  
2018 - Present  
Sr. CADD Technician  
Roadway*

**Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles, Dates 2016-Active**

Sr. Cad Technician for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Four corridors are: NE 11Ave from Atlantic Blvd to NE 6th St, NE 48/49 St from Powerline Road to US-1, SW 3rd Ave from SW 10th St Hillsboro Blvd, and SE 2 Ave from SE 10th St to Hillsboro Blvd. Improvement entailed: 1 corridors was a road diet so typical section was reconfigured median was added, milling and resurfacing, widening, SAPM, ADA improvements, pedestrian lighting, utility coordination, permitting and coordination with Broward MPO and Cities. (Reference: Fernando Morales 954-777-4687)

**Blue Heron at Ave S, FDOT District 4, FL, Length .2 miles, Dates 20014-2017** — Sr. Cad

Technician for this safety project, the project entail intersection modifications (all 4 curb radius are being reconstructed), new mast arm signals with lighting, extensive utility coordination and relocation, right-of-way acquisition, permitting including 4F issues and milling and resurfacing and re-grading of intersection. The project also entailed coordination with the 3 schools that are near the intersection. This project had a supplemental agreement to do lighting retrofit to 5 intersections along Blue Heron(Reference: Scott Thurman 954-777-4135)

**Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL, Dates 20014-2017** — Sr.

Cad Technician for this safety project, the project entail several modifications to the roadway (all geared toward reducing accidents), new drainage system, modification mast arm signals, modification lighting, utility coordination and relocation, permitting and milling and resurfacing within entire project limits. (Reference: Elsa Riverol 305-470-5105)

**HNTB Corporation**  
*Miami, FL  
2011 – 2014  
Sr. CADD Technician  
Roadway*

**Widen Florida's Turnpike-Heft (SR 821) from MP 11.76 to MP 14.17, Florida Turnpike, FL**

HNTB Senior Cad Technician, and Responsibilities included CAD production using Bentley Micro Station Vi8 and Geopak applications, FDOT CAD Standard in the development of contract plans for the FTE.

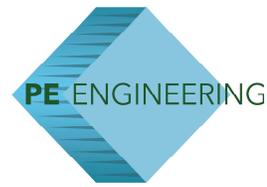
**SR 968 (Flagler Street) Reconstruction, FDOT District 6, Miami, FL** – Responsible for the preparation roadway and drainage plans along the corridor and the preparation of the concept plans.

**Fort Lauderdale-Hollywood International Airport Runway Extension, Broward County Aviation Department, Broward County, FL** – Responsible for the preparation of drainage details, roadway and drainage plans for this complex design-build (DB) project.

**Jacobs Corporation**  
*Miami, FL  
2007 – 2011  
Sr. Project Technician  
Roadway*

**SR 878 and SR 874, Miami Dade Express Authority (MDX) Miami Dade County, FL** – Involved in the design preparation of roadway, signing and pavement markings and TCP Plans for the Design Build (DB) Project that includes the reconstruction of the existing Gratigny Toll plaza. Two new toll collecting gantries along SR 924, Safety improvements and five additional toll collecting gantries along SR878 and SR 874.

**Port of Miami Tunnel (POMT) Resurfacing, Restoration and Rehabilitation (3R), Florida Department of Transportation (FDOT) District 6, Miami-Dade County, FL**– Senior Cad Technician for this design-build (DB) 3R of these 4000-linear-foot, twin-bore underwater tunnels that connected Watson Island to Dodge Island. Involved in the preparation of roadway and traffic control plans for Watson and Dodge Islands, Operation Buildings Site plans for Watson and Dodge Islands, and Railroad plans.



## PROFESSIONAL EXPERIENCE

**Homestead Extension of Florida's Turnpike (HEFT) Open Road Tolling (ORT), Florida's Turnpike Enterprise (FTE), Miami-Dade County, FL**– Senior Cad Technician for this design-build (DB) project that included conversion of existing the SunPass lanes to ORT facility at the Bird Road and Homestead Toll Plazas on the HEFT. The design for this project was completed in six weeks and received a national award fastest design and construction.

**Deerfield Toll Plaza Modifications (Sawgrass Expressway), FTE, Broward County, FL** – Senior Cad Technician for this design-build (DB) project that involved the construction of a double-span surpass gantry structure and equipment building, modifications to the existing Deerfield Toll Plaza canopy and tunnel structures, new retaining walls at the existing Turnpike bridge, a new signature wall, rehabilitation of an administration building and new sign structures for conversion of the existing tollway to an ORT.

**Sawgrass Expressway Widening, FTE, Broward County, FL** – Senior Cad Technician for this design-build (DB) project that involved widening the existing four-lane expressway to six lanes; resurfacing the existing pavement; building three bridges; constructing noise walls; and installing a transportation system.

**I-95 Widening, FDOT District 5, Broward County, FL** – Senior Cad Technician for this design-build (DB) project that involved the 18-mile widening of I-95, from Palm Bay Road to Wickham Road. This project included bridge replacements and widening at two locations, as well as the construction of a new interchange at an additional location.

**Sunrise Boulevard to Atlantic Avenue Widening, FTE, Broward County, FL** – Senior Cad Technician who performed PD&E and design services for the reconstruction of Commercial Boulevard over Florida's Turnpike signing and pavement marking plans along the Turnpike. Prepared roadway plans for Commercial Boulevard, it's intersection and several Turnpike toll plazas.

**Jane Roberts K-8 Center, Miami-Dade County Public Schools, Miami, FL** – The project consisted of the construction of a New Parking Lot, Parent Drop-Off Lane, Visitor Parking Lot and Renovation of the existing Parking Lot. Responsible for the drainage design efforts.

### **C3TS**

*Miami, FL*

*1998 – 2007*

*Sr. CADD Technician*

**Senior CADD Technician** - Worked as senior cad technician on a variety of highway and bridge projects. I have also been involved in several PD&E studies, and worked on the design of signing and pavement marking, lighting and signalization. I coordinated the Cad operations. Responsible for creating finished plotted and printed drawings and documents for final package to client. Provide drafting support for all Cad users.

### **Metric Engineering**

*Miami, FL*

*1985 – 1998*

*CADD Technician*

**CADD Technician** - Worked as bridge cad technician, created structural plans with engineers. Responsible for creating finished plotted and printed drawings and documents for final package to clients.

# Patricia Echeverri, PE

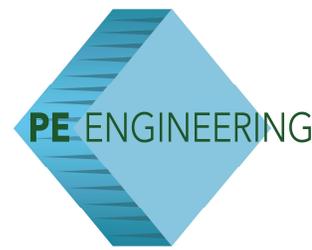
Project Manager  
/Drainage Engineer

Office: (786) 646-9823

Cellular: (305) 323-0223

Email: [pecheverri@peengcon.com](mailto:pecheverri@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

Professional Engineer: Florida, 2001  
(57432)

Proficient in: Microstation, InRoads,  
OpenRoads, MS office.

Area of expertise: Drainage/Roadway  
Design, Signing and Pavement  
Marking, TTCP

Project Manager/Sr. Drainage Engineer with over 20 years of progressive civil and water resources design experience. An accomplished project manager and drainage engineer who knows how to develop practical design solutions that are efficient and cost effective. Has strong project management skills; able to guide effective delivery of projects, on time and under budget. Patricia is also an accomplished drainage/hydraulics engineer, with experience in drainage design, nodal diagrams, hydrologic/hydraulic modeling, pump station design, design of water distribution system and sewage collection system, master plan, permitting applications and writing technical reports. Also skilled at coordinating and negotiating with permitting agencies and stakeholders.

## EDUCATION

City University of New York  
Universidad EAFIT

- M.S in Environmental Engineering, New York, 1996
- B.S., Civil Engineering, Medellin(Colombia), 1990

## PROFESSIONAL EXPERIENCE

PE Engineering Inc.  
Miami, FL  
2015 - Present  
Project Manager  
Transportation

**City of Miami Gardens Freight Mobility Improvement Plan, FDOT District 6, FL, Dates 2017-Active** — Project Engineer for this subarea freight planning study which is based upon partnering with local communities to analyze freight movement at the local level and identify freight mobility strategies at the project level. There are a number of project task including stakeholder coordination, data collection, truck travel characteristics and development of alternatives. (Reference: Carlos Castro 305 470-5238).

**Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles, Dates 2016-Active** Project Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Four corridors are: NE 11Ave from Atlantic Blvd to NE 6th St, NE 48/49 St from Powerline Road to US-1, SW 3rd Ave from SW 10th St Hillsboro Blvd, and SE 2 Ave from SE 10th St to Hillsboro Blvd. Improvement entailed: 1 corridors was a road diet so typical section was reconfigured median was added, milling and resurfacing, widening, SAPM, ADA improvements, pedestrian lighting, utility coordination, permitting and coordination with Broward MPO and Cities. (Reference: Fernando Morales 954-777-4687)

**Blue Heron at Ave S, FDOT District 4, FL, Length .2 miles, Dates 20014-2017** — Project Engineer for this safety project, the project entail intersection modifications (all 4 curb radius are being reconstructed), new mast arm signals with lighting, extensive utility coordination and relocation, right-of-way acquisition, permitting including 4F issues and milling and resurfacing and re-grading of intersection. The project also entailed coordination with the 3 schools that are near the intersection. (Reference: Scott Thurman 954-777-4135)

**Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL, Dates 20014-2017** — Project Engineer for this safety project, the project entail several modifications to the roadway (all geared toward reducing accidents), new drainage system, modification mast arm signals, modification lighting, utility coordination and relocation, permitting and milling and resurfacing within entire project limits. (Reference: Elsa Riverol 305-470-5105)

HNTB Corporation  
Miami, FL  
2011 – 2015  
Project Manager  
Transportation

**WAVE Streetcar, South Florida Regional Transportation Authority, Broward, FL** - HNTB Project Manager (sub to Parsons) the Wave modern streetcar system will provide service in downtown Ft Lauderdale (approximately 2.8 miles), shared use facility with existing roadway. Project elements include: roadway modification, drainage modification, track alignment, station design, electrical and power supply system and traction power substations (TPSS).

**Fort Lauderdale-Hollywood International Airport Runway Extension, Broward County Aviation Department, Broward County, FL.** – Drainage EOR for this complex design-build project that entailed extending (bridging) the runway over US-1. The drainage design was complicated. I was dealing with massive airport expansion, environmental issues, and design constraints due to adjacent on-going projects and extensive coordination with Broward County Aviation Department, FDOT and FAA. Developed the supplemental drainage report



## PROFESSIONAL EXPERIENCE

**Jacobs Corporation**  
Miami, FL  
2004 - 20011  
Project Manager  
Transportation

that was used to apply for ERP modification with SFWMD. Also during construction worked closely with contractor to address design modification, utility coordination, shop drawing review and approvals, RFI's, construction meetings and site visits.

**Widen Florida Turnpike-HEFT (SR 821) from MP 11.76 to MP 14.17, Florida Turnpike, FL** – Lead drainage design efforts (EOR), for the widening of a 3 mile segment of HEFT with several interchanges. The design effort entailed revisions to construction documents (updating) to be used for expedited project. The drainage design efforts included updating the conceptual drainage design, conceptual permit from SFWMD, Master Drainage Report and Bridge Hydraulic Report.

**SR 968 (Flagler Street) Reconstruction, FDOT District 6, Miami, FL** – Lead the drainage design efforts for the reconstruction of 1.4 mile segment of Flagler Street (in a highly urbanized area). Due to limited opportunity to provide treatment the design consists of several self-contained systems consisting of exfiltration trenches, trench drains and deep wells.

**Miami-Dade Expressway Authority, Program Management Contract** – Lead the drainage design efforts on several tasks including review technical proposals and the development of drainage design elements for design-build RFP and criteria package. Work on drainage master plan for a complex design-build project along SR 836 from 12 Avenue to I-95.

**SW 328 St (Canal Drive) from SW 162nd Avenue to SW 152nd Avenue, Miami Dade County, FL** – Deputy Project Manager for the widening/re-construction of Canal Drive from a rural 2-lane section to an urban 4-lane section with a bike path. Lead the drainage design efforts.

**Bailey Road from NW 64th Avenue to SR 7, Broward County, FL** – Deputy Project Manager for 2 miles of arterial widening (from a 2-lane typical section to a 4-lane typical section). Lead the drainage design efforts (EOR), including writing the drainage report and permitting coordination.

**Boca Toll Plaza Parking Lot Improvements, Palm Beach County FL** – Project Manager for the parking lot expansion for Boca Toll Data Center (Turnpike's project). Performed the drainage analysis to accommodate runoff generated from 80 additional parking spaces. Lead the permitting coordination with Florida's Turnpike, Lake Worth District and SFWMD.

**Port of Miami Tunnel, Miami Dade County, FL** – One of the lead drainage designers for this challenging drainage design that included over ten deep wells, pump stations, detention and retention areas, control structures and extensive coordination with all the stake holders.

**SR 823 / NW 57 Avenue, Miami-Dade, FL**. The project consisted of the widening of 57 Avenue. Lead the drainage design and permitting efforts (EOR). Drainage design required extensive coordination because 57 Avenue was divided into 3 ongoing projects.

**Venetian Island Package B, City of Miami Beach, FL**. Deputy Project Manager, the project consists of park improvements and roadway reconstruction. A stormwater management analysis computer modeling (AdiCPR) and drainage report was performed. The design consisted of a combined system that included gravity collection, one pump station and 3 pressurized wells, with the overflow discharging into the bay. Developed the drainage design and was the Deputy Project Manager.

**Open Road Toll (ORT) at Turnpike's Homestead and Bird Road toll plaza, FL** – The project consists of reconfiguration of toll plazas. A drainage analysis was needed for the new toll plaza/roadway layout. I was responsible for drainage analysis, drainage report and permits.

**Multi-Purpose Municipal Parking Facility, City of Miami Beach, FL**. - The project consisted of the construction of five story parking facilities, multi-purpose administrative spaces and adjacent roads. Developed a self-contained drainage design system that consisted of a series interconnected inlets that discharged into three gravity wells. Wrote the drainage report and handled the permit applications.

**Jane Roberts K-8 Center, Miami-Dade County Public Schools, Miami, FL** – The project consisted of the construction of a New Parking Lot, Parent Drop-Off Lane, Visitor Parking Lot and Renovation of the existing Parking Lot. Responsible for the drainage design efforts.

**FEMA Projects, Miami-Dade, FL**. - This was a FEMA restoration program. Project Manager/Drainage Designer for the design of self-contained French drain systems for several problem sites in Miami-Dade County due to flooding problems that occurred during Hurricane Irene and the October 2000 "No Name" storm.

**Creation of Parking Lot under I-395**. Miami Parking Authority Project, FL. - Project Engineer for the drainage design, drainage report, hydraulic computer modeling and grading for a parking lot in downtown-Miami. I also coordinated the needed permits.

**I-95 Rest Areas, FDOT District 4, Martin County, FL**. The project consisted of improvements two existing rest areas; improvements included expanding the automobile and truck parking areas. Worked on the drainage design, assisted in the development of the drainage report, participated in the coordination with FDOT and SFWMD.

### **HNTB**

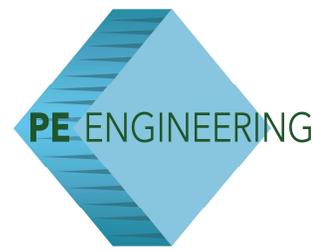
Miami, FL  
2001 - 2004

Project Engineer

Transportation/ Drainage Team.

# Janaki Ram Budigi

Project Engineer



Office: (786) 646-9823

Cellular: (813) 613-0370

Email: [jbudigi@peengcon.com](mailto:jbudigi@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172

## SKILLS

*Proficient in: Microstation, InRoads,  
OpenRoads, MS office.*

*Area of expertise: Roadway Design,  
Lighting Design, Signing and  
Pavement Marking, TTCP*

Project Engineer with 1 years of progressive civil and transportation design experience. He has been involved in multiple aspects of roadway engineering such as roadway design, roadway lighting, signalizations, and signing and pavement markings and utility coordination. He is experienced in applications used for design such as MicroStation and AutoCAD. Mr. Budigi has also taken several FDOT trainings course and workshops (including 3D modelling). In addition, he skilled in writing technical reports and preparing proposals.

## EDUCATION

*University of South Florida  
Anna University, India*

Master of Science, 2017

Bachelor's Degree, 2014

## PROFESSIONAL EXPERIENCE

*PE Engineering Inc.  
Miami, FL  
March 2018 - Present  
Project/Design Engineer  
Transportation*

**City of Miami Gardens Freight Mobility Improvement Plan, FDOT District 6, FL, Dates 2017-Active** — Design Engineer for this subarea freight planning study which is based upon partnering with local communities to analyze freight movement at the local level and identify freight mobility strategies at the project level. There are a number of project task including stakeholder coordination, data collection, truck travel characteristics and development of alternatives. (Reference: Carlos Castro 305 470-5238).

**Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles, Dates 2016-Active** Design Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Four corridors are: NE 11Ave from Atlantic Blvd to NE 6th St, NE 48/49 St from Powerline Road to US-1, SW 3rd Ave from SW 10th St Hillsboro Blvd, and SE 2 Ave from SE 10th St to Hillsboro Blvd. Improvement entailed: 1 corridors was a road diet so typical section was reconfigured median was added, milling and resurfacing, widening, SAPM, ADA improvements, pedestrian lighting, utility coordination, permitting and coordination with Broward MPO and Cities. (Reference: Fernando Morales 954-777-4687)

*JAI Consulting Engineer Inc.  
Tampa, FL  
June 2017 – February 2018  
Engineering Intern  
Transportation*

**SR 595/Alt.US19/4TH Ave. N. RRR, FDOT District 7, FL** – The State Road 595 project will provide the Resurfacing, Restoration and rehabilitation in Pinellas county (approximately 1.22 miles), shared use facility with existing roadway. Project elements included roadway modification, drainage modification, milling and resurfacing.

**Good Neighbor Trail Gap study from Cortez to GNT, FDOT District 7, FL** – This project development and environment (PD&E) study project provides the alternatives design of new roads from Cortez to GNT and it includes to extend the road mostly vehicles turning right. It is a big challenge of designing at intersection.

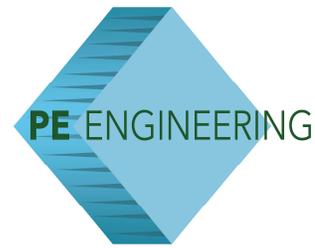
# Solange Boiangin

Electrical Engineer

Office: (786) 646-9823

Email: [sboiangin@peengcon.com](mailto:sboiangin@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

*Proficient in: Photometric Analysis  
Area of expertise: Lighting Design*

A Senior Lighting Design Engineer, Mrs. Boiangin has 20 years of Photometric Analysis and Lighting Design experience. Been involving various aspects of Roadway Lighting, Area Lighting and Electrical Engineering. She is an expert on sophisticated lighting design and applications programs.

## EDUCATION

*University of Miami*

B.S., Electrical Engineering, 1988

## PROFESSIONAL EXPERIENCE

Graduated as an Electrical Engineer from University of Miami in 1988 with an under-major in Lighting under the direct tutorial supervision of Dr. Agustin Recio. Taught Lighting, Physics and Mathematics at Miami-Dade Community College, University of Miami and Florida International University. Some of her responsibilities include:

- Supervise the design of FDOT and other municipalities' lighting plans.
- Preparation of the Lighting Design and computer point by point illumination analysis for over 100 projects including numerous major interchanges along interstates in the U.S. and in international projects in Costa Rica, Dominican Republic, El Salvador, Trinidad and St. Lucia using high mast lighting techniques involving both standard and floodlight applications.
- Provided technical assistance in the use of lighting standard design practices supporting design engineers and firms in the preparation of lighting designs.
- Interpret and apply the latest Illuminating Engineering Society guidelines for Roadway and Area Lighting Application.

Mrs. Boiangin's relevant project experience includes:

- Miami Dade Community College South Campus Roadway and Parking Lot Lighting.
- Miami International Airport High Mast Lighting including the intersection of LeJeune Road and Central Blvd.
- High Mast Lighting at the Intersection of I-595 and US-1 in Broward County.
- Venetian Causeway Illumination Design on 9 bridges and approach ramps
- Crandon Blvd. Roadway Lighting through Crandon Park and the Village of Key Biscayne.
- Avenida 27 de Febrero in Dominican Republic Roadway Lighting includes 8 miles of 4 lane road, twelve underpasses and two tunnels.

# William Pino,

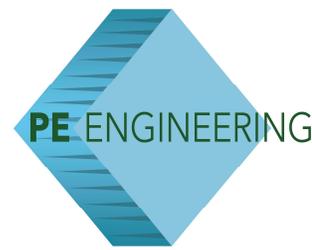
## PE

### Electrical Engineer

Office: (786) 646-9823

Email: [wpino@peengcon.com](mailto:wpino@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

Professional Engineer: Florida, 1982  
(32026)

Proficient in: Electrical Analysis,  
Photometric Analysis

Area of expertise: Lighting Design

Mr. Pino has 38 years of experience in Roadway Lighting Design. Mr. Pino, has been associated with the world's leading Roadway Lighting companies including: General Electric, Hubbell, Sylvania and Phillips. Mr Pino career has been exclusively dedicated to "Exterior Lighting Design". Mr. Pino has been a pioneer in Florida introducing designs aimed to satisfy environmental concerns including Dark Skies (offensive glare) and Turtle Friendly (lighting spillage on Coastal areas). Mr. Pino's experience and ability in developing innovative, cost effective lighting solutions has been greatly appreciated by his clients.

## EDUCATION

University of Costa Rica

B.S., Electrical Engineering, 1975

## PROFESSIONAL EXPERIENCE

### Design Experience

#### Major Arterial Projects:

- **Miami Dade Community College South Campus Roadway and Parking Lot Lighting.** Environmentally sensitive project with emphasis in avoiding offensive glare to the residential dwellings.
- **High Mast Lighting at Broward Blvd.** First Directional Lighting High Mast installation in Florida in Residential / Commercial Street.
- **High Mast Lighting at the Pines Blvd in Broward County.** First Directional Lighting High Mast installation in Florida in a Residential Street.
- **Port of Miami: Port Blvd. and Cruise Blvd.** - Comprehensive design of the entire Port of Miami Roadway Lighting System. The scope included both Conventional Roadway Lighting, the New Decorative Roadway Lighting Standards and High Mast Lighting at the cargo/container storage areas.
- **Venetian Causeway, Miami, FL** - Illumination Design on 9 bridges and approach ramps. Extremely environmentally sensitive project.
- **Crandon Blvd. Roadway Lighting through Crandon Park and the Village of Key Biscayne.** Four miles of environmentally sensitive project with emphasis on Turtle Friendly guidelines.
- **Avenida 27 de Febrero** in Dominican Republic Roadway Lighting includes 8 miles of 4 lane road, twelve underpasses and two tunnels.

#### Freeway and Interchange Projects:

- **Miami International Airport** - High Mast Lighting including the intersection of LeJeune Road and Central Blvd.. A very difficult lighting project that took into account the Dark Skies initiative and the Federal Aviation Administration regulations complicated by LeJeune Rd. being a major urban artery.
- **High Mast Lighting at the Intersection of I-595 and US-1 in Broward County.** This project also took into account the Dark Skies initiative and the Federal Aviation Administration. In addition, offensive glare consideration was a key design factor due to the proximity to the ocean.
- **High Mast Lighting at the Golden Glades Interchange in Miami-Dade County.** The largest interchange in the State of Florida. First time 150 ft High Mast poles are used in Florida
- **MDX SR874 from Florida Turnpike to Kendall Dr.** - Including the Open Traffic Toll Plazas.
- **High Mast Lighting at I-95 / St. Augustine Interchange in St. Augustine, Florida.** Project required extreme light control due to the proximity of residential dwellings and a hospital.
- **High Mast Lighting at Martin Downs Blvd.,** Martin County, Florida. Four lane road through a residential road designed with directional precision High Mast Lighting.
- **Merrill Barber & Roosevelt Bridges (FDOT IV)** – Design of roadway and bridge lighting, bridge pier accent floodlighting, and fishing pier / pedestrian scale lighting.
- **I-95 at CR 708, SR 714 and Indrio Rd (FDOT IV)** – Design of high mast lighting systems and illumination using standard luminaries with cut-off optics, and design of underdeck lighting systems.

# YASER ABDER RAHIM, PE

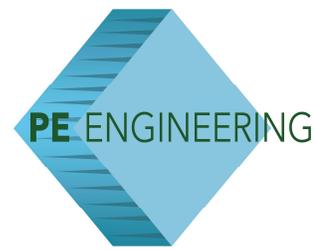
Sr. Roadway Engineer

Office: (786) 646-9823

Cellular: (305) 450-2693

Email: [jmaspons@peengcon.com](mailto:jmaspons@peengcon.com)

Office: 2315 NW 107<sup>TH</sup> Ave. Suite MA-28, Miami, FL-33172



## KEY QUALIFICATIONS

- Professional Engineer: Florida, 2017 (82271)
- Proficient in: AutoCAD, Microstation, InRoads, OpenRoads, MS office.
- Area of expertise: Roadway Design, Lighting Design, Signing and pavement marking, TTCP

Mr. Yaser has over 15 years of progressively responsible and diversified engineering experience in the management and design of transportation and infrastructure projects. His experience includes all aspects roadway/civil engineering design from preliminary design to construction administration and everything in between. He has demonstrated expertise in roadway design, project management, solving technical problems, quality control, meeting tight project schedules and budgets, teamwork, and coordination in multi-disciplinary service environments. He has worked on roadway design projects for FDOT District 4 and 6, and MDX. He has worked on design build projects and in several countries around the world and brings wealth of experience.

## EDUCATION

University of Puerto Rico

- B.S., Civil Engineering, Mayaguez, 1999

## PROFESSIONAL EXPERIENCE

**PE Engineering Inc.**

Miami, FL

Feb. 2016 - Present

Sr. Roadway Engineer

Transportation/Roadway Team.

**Mobility Project for NE Broward, FDOT District 4, FL, Length 7 miles, Dates 2016-Active**

Roadway Engineer for this complete street/bike lane projects, the project entail adding bike lanes and sidewalks to four corridors in NE Broward County. Four corridors are: NE 11Ave from Atlantic Blvd to NE 6th St, NE 48/49 St from Powerline Road to US-1, SW 3rd Ave from SW 10th St Hillsboro Blvd, and SE 2 Ave from SE 10th St to Hillsboro Blvd. Improvement entailed: 1 corridors was a road diet so typical section was reconfigured median was added, milling and resurfacing, widening, SAPM, ADA improvements, pedestrian lighting, utility coordination, permitting and coordination with Broward MPO and Cities. (Reference: Fernando Morales 954-777-4687)

**Blue Heron at Ave S, FDOT District 4, FL, Length .2 miles, Dates 20014-2017** — Roadway Engineer for this safety project, the project entail intersection modifications (all 4 curb radius are being reconstructed), new mast arm signals with lighting, extensive utility coordination and relocation, right-of-way acquisition, permitting including 4F issues and milling and resurfacing and re-grading of intersection. The project also entailed coordination with the 3 schools that are near the intersection. This project had a supplemental agreement to do lighting retrofit to 5 intersections along Blue Heron(Reference: Scott Thurman 954-777-4135)

**Bird Road from SW 58 Ave to Alhambra Circle, FDOT District 6, FL, Dates 20014-2017** — Roadway Engineer for this safety project, the project entail several modifications to the roadway (all geared toward reducing accidents), new drainage system, modification mast arm signals, modification lighting, utility coordination and relocation, permitting and milling and resurfacing within entire project limits. (Reference: Elsa Riverol 305-470-5105)

**HILL International.**

Al Basra, Iraq

Jan 2013 – Dec 2013

Senior Highway Engineer

Transportation/Roadway Team.

Development of the City of Al-Basra in the Country of Iraq - Senior Highway Engineer providing program management services for the City of Al-Basra project, services included master planning, design and construction management. Actively contribute in the development of Request for Proposal (RFP) documents including but not limited to definition of a Scope of Work, technical specifications and Quality Control of documents.

**HILL International.**

Amman, Jordan

June 2011 – Sep 2012

Project Engineer

Transportation/Roadway Team.

**Project Engineer (Roadways and Infrastructure – Drainage, Underground Utilities)** - Project Engineer for Marsa Zayed - Aqaba project, the largest development in the history of Jordan. Perform planning, project management, handle design and monitor construction activities throughout the entire construction project (Roadways and Infrastructure). Supervised two (2) Contractors: Excavation and Infrastructure Contractors in addition to a Supervision Engineer. Contract Management experience. Possess good analysis skills to ascertain the best methods for design, materials and safety.

**Nabil Abu Nhaya & Patner Co.**

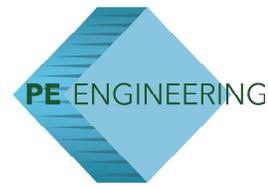
Al Khobar, Saudi Arabia

Feb. 2011 – June 2012

Project Engineer

Transportation/Roadway Team.

**Project Manager & Project Engineer (Utilities - Buildings)** - Serving as a Project Manager & Project Engineer for a maintenance building project at King Fahd University for Petroleum & Minerals. In charge of two (2) Senior Civil Engineers & 140 employees. Tasks included utilities installation (Fire, Gas, Raw, Treated & Sweet Water, and Acid Line) & civil works.



## PROFESSIONAL EXPERIENCE

### **HR Global Developers, Inc.**

*San Juan, Puerto Rico*

*Sep 2009 – Apr. 2010*

*Engineer Consultant*

*Transportation/Roadway Team.*

### **Parsons Brinckerhoff**

*Miami, FL*

*Apr 2006 – Feb. 2009*

*Project Designer*

*Transportation/Roadway Team.*

**Design Engineer** - Serving as Engineer Consultant for a Telecommunication Tower construction project. Tasks include plan review, cost estimate, engineering calculations and project meetings with sub-contractor and surveying crew.

**Seaboard Marine Terminal Yard Redevelopment - Port of Miami, Miami, Florida** - Project Designer for the redevelopment of 60-acre site. Tasks included site design, drainage design, pavement design, lighting design, utility relocation, cost estimate, construction specifications, permitting, bid support and post design services. The design was executed in phases in order to allow Seaboard Marine to maintain an active shipping yard operation.

**Cypress Creek Tri-Rail Station, Pompano, Florida** - Design Engineer for design and development of a park & ride facility for a Tri-Rail Station at Cypress Creek in an approximately 6 acres of land. This facility featured 331 parking spaces, bus bays with a standing seam metal roof, parking lot lighting, drainage, extension of NW 59 Ct. Scope of services included coordination with sub consultants, and permitting agencies, site design, preparation of construction documents, cost estimates specifications, permitting and construction support services.

**CSX Winter Haven Intermodal Yard, Winter Haven, Florida** - Design Engineer for the Central Florida Intermodal Logistics Center (ILC), this facility serves as a centralized hub for transportation, logistics and distribution serving Orlando, Tampa and South Florida. The 318-acre intermodal terminal is surrounded by 930 acres that is planned for development of up to 7.9 million square feet of warehouse distribution centers, light industrial and office facilities. The terminal features five 3,000-foot loading tracks and two 10,000-foot arrival and departure tracks. Responsible for construction documents for site/civil aspects of the project including yard layout, roadway and track alignments.

**Access Road (2.2 miles in length) for the City of Winter Haven, Florida** – Project Engineer for the development of roadway plans for the new construction. Responsibility included developed horizontal alignment, vertical alignment, proposed cross sections, signing, pavement marking and traffic control plans.

**Calvin, Giordano & Associates – Fort Lauderdale, Florida Highway / Roadway & Infrastructure Design Engineer (Drainage) (Sept 2005 – March 2006)**

**Highway and Transportation Authority – Department of Transportation, Traffic Engineering Office: San Juan, Puerto Rico Civil Engineer - Traffic Engineer (Aug 1999 – Sept 2005).**