Moatz Saad, PhD, PE, PTOE, IMSA II

time and delay data, as well as assisting the District with miscellaneous data collection and traffic studies. *Location: FDOT District 4. Date: Ongoing. HBC Fee: $1.5M. Reference: Ysamary Vergara, (954) 777-4380, Ysamary.Vergara@dot.state.fl.us. FM No.: 230026-6-32-01.Contract No.: CAU65*

Florida Department of Transportation (FDOT) District 6, Okeechobee Road Traffic Analysis. Moatz is serving as Project Manager for this project effort, which is focused on analyzing future traffic weaving conditions due to the planned reconstruction of the Okeechobee Road corridor. This task involves collecting 24-hour volume and classification counts, turning movement counts, origin-destination, travel time & speed data, and queuing data at 13 locations along Okeechobee Road between the SR-826 interchange and its intersection at NW 87th Avenue. Microsimulation analysis is being performed for existing, future no-build, and future build conditions, with collected data used for network inputs and calibration as well as distribution and forecasting of future traffic. *Location: Miami-Dade County, FL. Dates: 11/2024–ongoing. Reference: Bao-Ying Wang, PE, (305) 470-5211, BaoYing.Wang@dot.state.fl.us. FM # 425144-4-32-01, Contract No. CA933*

Florida Department of Transportation (FDOT) District 6, FL, Districtwide Resurfacing Scoping Reports. Moatz assisted with the preparation of districtwide resurfacing scoping reports on a TWO basis, by generating Target Speed Studies and traffic safety studies as part of the general scoping reports. These efforts involved speed data collection and analysis and development of Target Speed Reports, including recommendations for posted and target speeds based on collected data, existing conditions, pedestrian activity, and design speeds. *Location: Miami-Dade County, FL. Dates: 2020-2023. HBC Fee: $1.5M. Reference: Calvin Mason, (305) 470-5386, Calvin.Mason@dot.state.fl.us. FPID# 250759-3-22-04, Contract No: CA812.*

Florida Department of Transportation (FDOT) District 6, SR-25/US-27/Okeechobee Road Transportation Management Plan. Moatz was the Traffic Lead for this project, which involved coding the VISSIM microsimulation model for the corridor, including all detour and diversion routes. He assisted with creating the Synchro Analysis of the project corridor. Four microsimulation scenarios were tested: base model, during construction no closure, 1 lane closure, and full closure. This required balancing traffic, determining the traffic growth rate over the course of construction, generating AM and PM models for each scenario, and optimizing the signal timing for each scenario. Smart Work Zones were identified, based on the dynamic assignment of the models. Moatz also coordinated with Miami-Dade County to identify the preferred standards for the library of signal timing plans being created. *Location: Miami, FL. Dates: 2019-2020. Construction Cost: $883K. Reference: Bao-Ying Wang, PE, (305) 470-5211, Baoying.Wang@dot.state.fl.us.*

Synchro

ArcGis

AutoCad

SAS, SPSS,

R/RStudio, Python

Publications

Safety and operational impact of connected vehicles' lane configuration, Accident Analysis & Prevention, 2020.

Bicycle safety at intersections, Transportation Research Record, 2019.

Integrated safety and operational analysis of managed toll lanes, Transportation Research Record, 2019.

Safety analysis of access zone design for managed toll lanes, Journal of Transportation Engineering, 2018.

Expertise

Traffic safety, transportation engineering, traffic simulation, connected and autonomous vehicles, traffic impact analysis, dynamic traffic assignments, data integration, GIS technologies, microsimulation modeling, roadway safety evaluations.

Gonzalo Barrera, PE

Signalization Engineering

7 Years of Experience

Years with HBC
6 years

Education
B.S. in Civil Engineering, Florida International University (04/28/2018)

Registration(s)
PE (FL) No. 94260 (06/21/2022)

Licenses & Certifications
TTC Advanced, #44555

Expertise
Signalization, roadway design, signing and pavement marking, 3D modeling, drainage design, temporary traffic control (TTC), transportation safety improvements.

Gonzalo graduated from Florida International University in 2018 with a Bachelor of Science in Civil Engineering. Shortly after, he joined HBC Engineering Company as an Engineer Intern (EI). In 2022, he passed his Professional Engineer (PE) exam and is currently registered as a PE in the State of Florida. He has worked on various aspects of transportation engineering, including roadway design, signing and pavement marking, signalization, drainage design, Temporary Traffic Control (TTC), and 3D roadway modeling, while complying with local, state, and federal guidelines and standards. He is proficient in AutoCAD and MicroStation CAD software, CAD certified in AutoCAD and 3D modeling, and certified in Bentley MicroStation and OpenRoads Designer.

Florida Department of Transportation (FDOT) District 4, SR-7/US-441 Transit Corridor Improvements - Task Order 2. Project Engineer responsible for the design of a proposed sidewalk improving pedestrian connectivity between three intersections, including a signalized marked crossing. He is also responsible for designing three shared-use paths. One shared-use path is almost 1 mile long and connects the end of the proposed sidewalk to an existing shared-use path. The second path connects the path from SR-7/US-441 to Riverland Woods Park, by going in a serpentine path underneath the I-595 off ramp, before connecting to the park. The last shared-use path is 1.5 miles long, connects SR-7/US-441 to NW 34th Avenue and NW 31st Avenue along a canal, and includes a midblock crossing with a rapid flashing beacon across NW 34th Avenue. Minor signalization improvements within the project limits to address impacted ADA curb ramps and crossing, by replacing pedestrian countdown pedestals and detection. Responsibilities also include developing 3D modeling for section segments, to determine the expected earthwork cut and fill quantities. *Location: Broward County, FL. Dates: 2019–Ongoing. HBC Fee: $1.2M. Reference: Robert Lopes, (954) 777-4425, Robert.Lopes@dot.state.fl.us.* .

Florida Department of Transportation (FDOT) District 4, SR-817/University Drive Widening & Signalization Improvements. Project Engineer responsible for the design of signalization improvements, which included the replacement of a mast arm, due to the roadway widening, and new lane configurations, as well as the placement of new pedestrian countdown signals, per MUTCD, at the proposed pedestrian crossing locations. *Location: Broward County, FL. Dates: 2023–Ongoing. HBC Fee: $1.75M. Reference: Adham Naiem, (954) 777-4440, adham.naiem@dot.state.fl.us.*

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NE 2nd Ave Reconstruction from NE 20th St to NE 36th St Design-Build. Project Engineer responsible for the design of proposed signalization improvements with the project limits, which include the replacement of all mast arms at 3 signalized intersections (NE 20th, NE 21st, and NE 29th Streets), 2 new midblock crossings (NE 23rd and NE 25th Streets), and enhancing the pedestrian signal at the southeast corner at NE 36th Street. For the 3 intersections with full mast arm replacement upgrades, the existing power disconnects with meters were upgraded to bring up to standards and the signal cabinets were also replaced. Intersection improvements were carefully analyzed, considering the existing underground and aboveground utilities and existing signalization system, to avoid conflicts, while keeping the existing signalization system operational until the proposed system is completed and operational. Gonzalo also served as deputy PM for the roadway design including, but not limited to, the roadway proposed horizontal and vertical alignment, mainline connections to the side streets, and the Temporary Traffic Control Plans (TTCPs). *Location: Miami, FL. Dates: 2022–Ongoing. HBC Fee: $12.6M. Reference: Alejandro Sauleda, 305-375-4866, Alejandro.Sauleda@miamidade.gov.*

Miami-Dade County DTPW, FL, Design-Build Services for the Reconstruction of NW 84th Ave from NW 58th St to NW 74th St. Project Engineer responsible for the design and plan production for the proposed roadway and signalization improvements within the project limits. Responsibilities include the roadway proposed horizontal and vertical alignment, mainline connections to the side streets, and the detailed level 2 Temporary Traffic Control Plans (TTCPs). Signalization improvements including but not limited to loop detection replacement and new runs to cabinet, Pedestrian signal and detection upgrades, and mast arm improvements for new lane configurations. Gonzalo also served as deputy PM overviewing the plan production of all the component sets ensuring not conflicts and improvements are reflecting concisely. Location: Miami, FL. Dates: 2022–Ongoing. HBC Fee: $12.6M. Reference: Alejandro Sauleda, 305-375-4866, Alejandro.Sauleda@miamidade.gov.

Florida Department of Transportation (FDOT) District 4, SR-7/US-441 Transit Corridor Improvements - Task Order 1. Gonzalo assisted in preparing CADD designs for roadway improvements along the corridor, to improve pedestrian movement. This included horizontal geometry and vertical profiles in compliance with FDM and ADA guidelines, to ensure safety. Responsibilities also included preparing a 3D model for the proposed design, to develop cross sections for the required earthwork and construction quantities for the proposed roadway widening and sidewalk improvements. The scope of services also included reworking an adjacent drainage ditch, to account for the improvements' increase in impervious areas, without affecting the current runoff; developing design alternatives for the proposed design, based on existing conditions, to determine the safest and most cost-effective design; new signage for several substandard signalized intersections to meet current MUTCD and FDOT standards; relocating pedestrian detectors and countdowns and reconstructing curb ramps to comply with ADA requirements; and the design for a proposed midblock crossing with pedestrian channelization barriers, to improve pedestrian safety and encourage crosswalk usage. *Location: Broward County, FL. Dates: 2019–2022. HBC Fee: $1.2M. Reference: Robert Lopes, (954) 777-4425, Robert.Lopes@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 6, SR-5/US-1/South Dixie Hwy at Caribbean Blvd. Gonzalo is responsible for the design of the intersection's safely improvements. The safety improvements include the replacement of 2 mast arms along the mainline movement of SR-5/US-1/South Dixie Highway. The mast arm locations were strategically placed to allow for the existing system to be operational until the proposed mast arms are installed and operational, while simultaneously avoiding utility conflicts as much as possible. The scope also included the design and placement of 2 advanced intersection control signs, an advanced intersection street name sign along the mainline, and the analysis of the existing signal cabinet and service point to determine their condition and possible replacement. The signal cabinet was recently replaced and didn't need additional upgrades; however, the service disconnect required replacement, due to substandard condition, location from cabinet, and missing meter can. *Location: Cutler Bay, FL. Dates: 2021–Ongoing. HBC Fee: $250K. Reference: Kira Leon, 305 470-5207, Kira.Leon@dot.state.fl.us.*

Florida's Turnpike Enterprise (FTE), Wrong-Way Vehicle Detection System (WWVDS) Implementation. Gonzalo was responsible for preparing the Intelligent Transportation System (ITS) cabinet cross section and Temporary Traffic Control Plans (TTCPs) for the construction plans. The ITS cabinets were coordinated with the ITS engineer, to ensure the locations complied with setback standards, without impacting existing features. He was also responsible for designing the TTCPs for sequential construction phases with lane closure analyses, to determine the best time to closure a lane on the off-ramps and for the WWVDS testing phase, which required temporary detour plans during the ramp closures while testing. *Locations: Miami-Dade, Broward, and Palm Beach Counties, FL. Dates: 2021–2023. HBC Fee: $5.5M. Reference: Jasmi Alemani, PE, (407) 334-8035, jasmi.alemany@dot.state.fl.us.*

Orlando Penate, PE, EE, IMSA III

Lighting Engineering

19 Years of Experience

Years with HBC
8 years

Education
B.S. in Electrical Engineering, Marta Abreu de Las Villas University (07/14/2006)

Registration(s)
PE (FL) No. 80385 (01/01/2016)

Licenses & Certifications
FLUG Open Road Designer

FDOT Specifications Package Preparations

Bullet Proof Manager Program

FDOT Advanced TTC, #631090

IMSA Traffic Signal Field Technician Level 3, #CE_131518

Certified Infrared Thermographer Level II No. 17022

Advanced Building Code Course Credit

7th Edition, Florida Building Code

Expertise
Electrical engineering, lighting design, control

A highly experienced Electrical Professional Engineer, he boasts a robust background in the civil engineering industry and a comprehensive skill set, including proficiency in AutoCAD, Bentley MicroStation, OpenRoad Designer, and AGI-32 Lighting Analysts. Throughout his career, he has served as the Engineer of Record for multiple lighting and electrical projects across South Florida. His responsibilities encompass the production and management of all phases of design, ensuring that each project meets stringent standards of quality and efficiency. His extensive experience and technical expertise have established him as a reliable professional in the industry, consistently delivering exceptional results and driving project success.

Florida Department of Transportation (FDOT) District 4, Hollywood Gardens Sidewalk Improvement Project. Engineer of Record responsible for analysis and develop overall design for new intersection lighting system. Prepared Lighting Design Analysis Report, which included Voltage Drop calculations and photometric evaluation results. Also designed Lighting Plans Sets which included reference and master design files, tabulation of quantities, and pole details. *Location: 2015-2019. Reference: Kenzot Jasmin, (954) 777-4462, Kenzot.Jasmin@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 4, Intersection Lighting Retrofit Improvement Project. Lighting Design Engineer of Record (EOR) for this intersection lighting retrofit improvement project for 29 signalized intersections. This project involved retrofitting existing light poles with Light-Emitting Diode (LED) luminaires to replace outdated High-Pressure Sodium (HPS) luminaires and adding new light poles with LED and FPL luminaires at strategic locations to meet the standards for roadway and pedestrian lighting. Orlando also oversaw the Temporary Traffic Control Plans (TTCPs), roadway design, surveying services, and coordination with other disciplines and governmental entities. *Location: Palm Beach County, FL. Dates: 2021-2023. FM No.: 447001. HBC Fee: $1.5M. Reference: Ronald P. Wallace, PE, (954) 646-1197, Ronald.Wallace@dot.state.fl.us.*

City of Pembroke Pines, Street Lighting Inventory and Illumination Levels Study. Project Manager and Lighting Engineer for leading the Street Lighting Inventory and Illumination Levels Study for the City of Pembroke Pines, aimed at enhancing roadway lighting standards and infrastructure. Responsibilities included establishing illumination criteria and minimum illumination levels, conducting a comprehensive inventory of over 3,000 Florida Power & Light (FPL) light poles using GIS tools to develop a geodatabase, and preparing a photometric light study to assess light intensity and uniformity across city-owned streets. Additional tasks involved evaluating and prioritizing potential infrastructure improvements, reviewing the application of Light-Emitting Diode (LED) lighting, and developing a roadway lighting policy and standard to guide future street lighting installations and assessments. The project also included creating a resident street light request procedure, providing general guidelines on lighting locations and spacing, and preparing a roadway lighting and policy development report to support the City's long-term lighting strategy. *Location: Pembroke Pines, FL. Dates: 2020-2021. HBC Fee: $250K. Reference: Karl M. Kennedy, PE, CFM, (954) 518-9040, KKennedy@ppines.com.*

Florida Department of Transportation (FDOT) District 4, SR-7/US-441 Transit Corridor Improvements, Group/Priority 1. Lighting Engineer of Record (EOR) for designing lighting improvements at 21 signalized intersections along the SR-7/US-441 Transit Corridor Improvements, Group/Priority 1 as part of the Florida Department of Transportation (FDOT) District 4 project. Scope included retrofitting existing High-Pressure Sodium (HPS) luminaires with energy-efficient Light-Emitting Diode (LED) luminaires at each intersection and installing new light poles with LED and FPL luminaires at strategic locations to meet roadway and pedestrian lighting design criteria. Responsibilities also included coordinating across multiple disciplines, municipalities, and Florida Power & Light (FPL) to ensure seamless implementation. The lighting improvements will enhance visibility, improve passenger transit operations, and elevate the overall experience for transit users along the corridor. *Location: Broward County, FL. Dates: 2019–2023. HBC Fee: $1.67M. Reference: Robert Lopes, PE, (954) 777-4425, robert.lopes@dot.state.fl.us.*

Miami-Dade County Parks, Recreation and Open Spaces (MDC-PROS), Multiple Parks 40-Year Building Recertification Inspection Services Contract. Senior Electrical Engineer for this MDC-PROS contract under the Equitable Distribution Program (EDP) for multiple parks' 40-year recertifications. This contract involves conducting structural and electrical inspections for various buildings across several parks. This contract includes preparing signed and sealed reports that meet MDC Regulatory and Economic Resources (MDC-RER) guidelines, ensuring all buildings comply with safety standards through a series of Task Work Orders (TWOs) addressing specific park structures, including those at Crandon Park, Country Club of Miami, and A.D. Barnes Park.
Location: Miami-Dade County, FL. Dates: 7/2024-Ongoing. HBC Fee: $26,750. Reference: Adria Gonzalez-Leiva, PE, (305) 299-6928, adria.gonzalez-leiva2@miamidade.gov

Florida Department of Transportation (FDOT) District 4, SR-A1A from South of Jasmine Ln to North of SR-60/Beachland Blvd. This project consisted of milling and resurfacing, repairing damaged sidewalk, adding bike lanes, constructing sidewalk on east side at gap location, signalized intersection lighting retrofit at SR-A1A and Beachland Boulevard, and lighting for two new midblock crosswalks on SR-A1A at Iris Lane and Dahlia Lane. *Location: Indian River County, FL. Dates: 2019–Ongoing.*

City of West Park, SR-7 Pedestrian Lighting from County Line Rd to Pembroke Rd. Engineer of Record responsible for the design and preparation of a complete set of construction documents and incidental engineering services necessary for the Florida Power and Light (FPL) lighting improvements to the east side of SR-7 between County Line Rd and Pembroke Rd within the City of West Park, FL. Provided the services required to obtain approvals and permits from agencies having jurisdictional authority, reviewed crash history, performed photometric, developed report warrants, lighting plans, and coordinated with FPL. *Location: Broward County, FL. Dates: 2021-2022. Reference: Greg Perry, (954) 350-2705, GPerry@cityofwestpark.org.*

systems, power distribution, roadway lighting, wastewater infrastructure, signalized intersection lighting, electrical assessments, infrastructure planning, compliance with electrical codes.

Maikel Fiallo Nunez, PE

Lighting Engineering

Maikel is a professional Electrical Engineer with extensive experience working with utility companies, over 7 years of experience working as a Project Manager and coordinating a workforce team of 30 subcontractors, and 5 years of experience as a Senior Electrical Specialist preparing work orders and supervising field work. Maikel is primarily focused on power system protection, power distribution, and building design. In addition, Maikel has vast experience working as a Lighting Engineer on various projects involving roadway, bridge, navigational, and pedestrian lighting, including lighting retrofits. Maikel also possesses excellent interpersonal skills and is capable of working well under pressure and with cross-functional teams.

Florida Department of Transportation (FDOT) District 4, SR-820/Pines Blvd from the I-75 North On-Ramp to East of NW 118th Ave. Electrical Engineer for the lighting design and post-design services for this in-house design project along SR-820/Pines Boulevard from west of SW 136th Avenue to east of NW 118th Avenue. The scope includes pedestrian lighting on a 10' wide sidewalk and 5 intersection lighting retrofits including FPL luminaires. *Location: Broward County, FL. Dates: 2021-Ongoing. Reference: Karl M. Kennedy, PE, CFM, (954) 518-9040, KKennedy@ppines.com.*

Florida Department of Transportation (FDOT) District 4, Intersection Lighting Retrofit Improvements Project. Maikel served the role of Electrical Engineer responsible for lighting retrofit improvements for 29 signalized intersections. This project involved retrofitting existing light poles with Light-Emitting Diode (LED) luminaires to replace the outdated High-Pressure Sodium (HPS) luminaires and adding new light poles with LED and FPL luminaires at strategic locations to meet the standards for roadway and pedestrian lighting. Maikel also oversaw the Temporary Traffic Control Plans (TTCPs), roadway design, surveying services, and coordination with other disciplines and governmental entities. *Location: Palm Beach County, FL. Dates: 6/2021-Ongoing. HBC Fee: $1.4M. Reference: Ronald P. Wallace, PE, (954) 646-1197, Ronald.Wallace@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 4, SR-817/ University Dr Widening from North of Westbound SR-84 to North of NW 1st St Project. Maikel served the role of Electrical Engineer for the corridor along SR-817/University Drive from north of westbound SR-84 to north of NW 1st Street, which has four signalized intersections within the segment that need to be retrofitted. This project entails roadway widening, milling and resurfacing, new sidewalks, signing and pavement markings, new signal mast arms, pedestrian signal upgrades, roadway lighting, and pedestrian lighting. *Location: Broward County, FL. Dates: 9/2019-Ongoing. HBC Fee: $2.9M. Reference: Alexander Estrada, PE, (954) 777-4296, Alexander.Estrada@dot.state.fl.us.*

24 Years of Experience

Years with HBC
3 years

Education
B.S. in Electrical Engineering, Instituto Superior Politecnico Jose Antonio Echeverria (07/15/2001)

Registration(s)
PE (FL) No. 94434 (07/12/2022)

Licenses & Certifications

Schneider Electric Certification Course

Automatic Measurement Systems Post-Degree Course

Power Transformers Testing Post-Degree Course

MATLAB

AutoCAD 2019

LiveCount

Accubid Classic Estimating BidWinner Plus13

Ladder Logic Programming

TTC Advanced # 620316

Infrared Thermographer Level I IMT0000046979

Infrared Thermographer Level II 17023

HBC

Maikel Fiallo Nunez, PE

Miami-Dade County Parks, Recreation and Open Spaces (MDC-PROS), Multiple Parks 40-Year Building Recertification Inspection Services Contract. Senior Electrical Engineer for this MDC-PROS contract under the Equitable Distribution Program (EDP) for the 40-year recertifications of multiple parks. This contract involves conducting structural and electrical inspections for various buildings across several parks. This contract includes preparing signed and sealed reports that meet Miami-Dade County Regulatory and Economic Resources (MDC-RER) guidelines, ensuring all buildings comply with safety standards through a series of Task Work Orders (TWOs) addressing specific park structures, including those at Crandon Park, Country Club of Miami, and A.D. Barnes Park. *Location: Miami-Dade County, FL. Dates: 7/2024-Ongoing. HBC Fee: $26,750. Reference: Adria Gonzalez-Leiva, PE, (305) 299-6928, adria.gonzalez-leiva2@miamidade.gov.*

Expertise

Power system protection, power distribution, electrical design, lighting engineering, utility coordination, roadway and bridge lighting, electrical inspections, SCADA and PLC systems, project management, cost estimation, low-voltage systems.

City of Fort Lauderdale, Riverwalk North Seawall Replacement. Maikel served the role of Electrical Engineer for the improvement of th electrical system, which included load capacity, wire sizing, and voltage drop with the proposed improvement. The design follows NFPA 303 (Fire Protection Standard for Marinas and Boatyards) and NEC Article 555 (Marinas, Boatyards, and Docking Facilities). The electrical design includes the replacement of existing electrical shore-tie pedestals and the existing pier lighting using marine-grade louvered concrete bollards with Turtle Safe-Certified wildlife lighting fixtures to meet water and salt resistance requirements. *Location: Fort Lauderdale, FL. Dates: 4/2024-Ongoing. HBC Fee: $386,026. Reference: Ana Ziegler, (954) 828-5817, AZiegler@fortlauderdale.gov.*

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NE 2nd Ave Reconstruction from NE 20th St to NE 36th St Design-Build. Maikel is serving the role of Electrical Engineer responsible for the plans production for this project, which involves reconstructing and expanding a 1.09-mile segment of an existing 2-lane roadway to a 2-lane roadway with a Two-Way Left-Turn Lane (TWLTL) and 6' wide buffered bike lanes in each direction. *Location: Miami, FL. Dates: 7/2022–Ongoing. HBC Fee: $12.6M. Reference: Alejandro Sauleda, (305) 375-4866, alejandro.sauleda@miamidade.gov.*

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), Venetian Causeway Lighting Desing. Maikel is serving the role of Electrical Engineer responsible for the lighting design along the Venetian Causeway from N. Bayshore Drive to Purdy Avenue, including new bridge-mounted lighting and navigation lights, as applicable for 11 bridges to be replaced. *Location: Miami Beach, FL. Dates: 5/2022–Ongoing. HBC Fee: $254K. Reference: Satiar Shirazi, (305) 265-5440, sshirazi@eacconsult.com.*

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NW 84th Ave Reconstruction from NW 58th St to NW 74th St Design-Build. Maikel is serving the role of Electrical Engineer for this project, which involves reconstructing and expanding a 1-mile segment of an existing 2-lane roadway to a 4-lane roadway with a Two-Way Left-Turn Lane (TWLTL), where Right-of-Way (ROW) is available. *Location: Miami, FL. Dates: 4/2022–Ongoing. HBC Fee: $7M. Reference: Alejandro Sauleda, (305) 375-4866, alejandro.sauleda@miamidade.gov.*

Jeremy Braithwaite, IMSA II

Traffic Engineering

8 Years of Experience

Years with HBC
5 years

Education
B.S. in Civil Engineering, Florida International University (04/29/2017)

Registration(s)
TIN No. B24024764

Licenses & Certifications
TTC Advanced No. 626241

IMSA Level 2 Certified

ITS CEI Microwave Vehicle Detection System CBT

ITS CEI Road Weather Information System CBT

ITS CEI Closed-Circuit Television CBT

ITS CEI Dynamic Message Signs CBT

ITS CEI Managed Field Ethernet Switch CBT

Expertise
Traffic data collection, traffic engineering studies, safety analysis, Intelligent Transportation Systems (ITS), signal timing analysis, microsimulation modeling, traffic impact studies.

Jeremy specializes in traffic data collection, traffic engineering studies, and Intelligent Transportation Systems (ITS), with expertise in safety analysis, signal timing optimization, and microsimulation modeling. Jeremy has contributed to projects for the Florida Department of Transportation (FDOT), Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), and Florida's Turnpike Enterprise (FTE), supporting traffic impact studies, queue warning system implementation, and intersection safety evaluations. He is proficient in Synchro, VISSIM, and advanced data analytics tools and is an IMSA Level II Certified Traffic Signal Technician with multiple ITS Construction Engineering and Inspection (CEI) certifications. Passionate about optimizing traffic flow and roadway safety, he applies cutting-edge data collection techniques to enhance transportation planning and infrastructure development.

City of Hollywood, Johnson St from North 30th Rd to North Dixie Hwy Complete Streets Project. Jeremy was the Data Collection Lead of the project to evaluate a selected alternative as part of a PD&E study for reconstructing Johnston Street from North 30th Road to North Dixie Highway to accommodate a new interconnected sidewalk on one side of the street, new lighting, fully reconstructed two-lane two-way roadway with a center turn lane, new transit bus stops, and new drainage system within the existing Right of Way (ROW). This project involved Turning Movement Counts, 72-Hour Volume Counts, Gap Data, and Speed data collection for traffic operations analysis. *Location: Hollywood, FL. Dates: 2023–Ongoing. Reference: Luis Lopez, PE, (954) 921-3925, llopez@hollywoodfl.org*

Florida Department of Transportation (FDOT) District 4, Districtwide Traffic Operations Data Collection. Jeremy is serving as Data Collection Lead for this contract, in which HBC is conducting routine traffic data collection activities for FDOT District 4 on a TWO basis. Project tasks include collection of turning movement counts, spot speed and speed profile data, volume and classification counts, pedestrian and bicycle data, and travel time and delay data, as well as assisting the District with miscellaneous data collection and traffic studies. *Location: FDOT District 4. Date: Ongoing. HBC Fee: $1.5M. Reference: Ysamary Vergara, (954) 777-4380, Ysamary.Vergara@dot.state.fl.us. FM No.: 230026-6-32-01 Contract No.: CAU65*

Florida Department of Transportation and Public Works (FDOT) District 4, Districtwide Traffic Operations Studies – Districtwide Ped/Bike Data Collection. Jeremy assisted with the Districtiwde Ped/Bike Data Collection effort, which involved collecting bicycle and pedestrian data at 14 locations throughout Palm Beach, Indian River, and Broward Counties. Jeremy coordinated all data collection efforts, identified equipment setup locations, carried out equipment installation and breakdown, performed remote monitoring of equipment, and processed and furnished collected data. Pedestrian and bicycle data for this effort was collected and provided to the Department over the course of a four-week period. *Locations: Broward, Palm Beach, and Indian River Counties, FL. Dates: 3/2021–4/2021. Reference: Ravi Wijesundera, (954) 535-5153, Ravi.Wijesundera@kimley-horn.com. FM No.: 230094-6-32-01. Contract No. CAB33*

Florida Department of Transportation (FDOT) District 4, Districtwide Traffic Operations Safety Studies – Pedestrian/Bicycle Counts. HBC is currently tasked with collecting 3 consecutive days of 12-hour pedestrian/bicycle counts at 14 locations in Broward, Palm Beach, and Indian River Counties. This effort is on a tight schedule and will be completed within 1 month of Notice to Proceed (NTP). Jeremy is responsible for compiling the data collection schedule, managing the data collection crews, and compiling the collected data. *Locations: Broward, Palm Beach, and Indian River Counties, FL. Dates: 2020–Ongoing. FM No.: 230094-6-32-01. Reference: Ravi Wijesundera, (954) 535-5153, Ravi.Wijesundera@Kimley-Horn.com.*

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), South Corridor Transit Oriented Development (TOD) Planning Study. Jeremy is assisting with this project effort, which involves creating a Bicycle and Pedestrian Facilities Plan as part of the South Corridor TOD Master Plan. The goal of this task is to perform an infrastructure Mobility & Connectivity Assessment (Bicycle and Pedestrian Facilities Plans). Analyze and expand previous planning work which identifies needed bicycle and pedestrian facilities, and crosswalks designed for universal accessibility. Develop transit stations and developments within the TOD that include facilities that incorporate the use of emerging transportation technologies such as autonomous vehicles and micro-mobility. Improve connectivity to key regional destinations, such as employment hubs, with three-mile catchment area and first and last mile connections to stations. *Location: Miami-Dade County, FL. Dates: 2023–Ongoing. Reference: Maria Rivas, PE, (346) 901-6020, maria.rivas@aecom.com.*

Florida Department of Transportation (FDOT) District 6, Okeechobee Road Traffic Analysis. Jeremy is the Data Collection Lead and is assisting with traffic analysis for this project effort, which is focused on analyzing future traffic weaving conditions due to the planned reconstruction of the Okeechobee Road corridor. Traffic data collection including turning movement counts, 24-Hour traffic volumes, Origin-Destination data, travel times and speeds, and queuing data. This task involves developing Design Traffic and Project Traffic Forecasting utilizing data from the Southeast Regional Planning Model (SERPM) in conjunction with historical traffic data compared against population growth trends to establish accurate growth rates for projected future traffic scenarios using regression models. Additionally, the analysis includes forecasting future traffic turning movements with origin-destination data. Microsimulation analysis is being performed for existing, future no-build, and future build conditions, with collected data used for network inputs and calibration as well as distribution and forecasting of future traffic. *Location: Miami-Dade County, FL. Dates: 11/2024–Ongoing. Reference: Bao-Ying Wang, PE, (305) 470-5211, BaoYing.Wang@dot.state.fl.us. FM No.: 425144-4-32-01.* Contract No.: CA933

Greater Miami Expressway Agency (GMX), 18-kip Equivalent Single Axle Loading (ESAL) Analysis. Jeremy is assisting with traffic analysis for this project effort, which involves preparing 18-kip Equivalent Single Axle Loading (ESAL) Reports for 13 locations in the GMX Systemwide Milling and Resurfacing Project. The traffic data and forecasting analysis included identifying the current (base) year and Annual Average Daily Traffic (AADT), estimated opening year and design year AADT, Peak to Daily factor (K), directional distribution (D), percentage trucks (T) for 24-hour and design (30th highest) hour, design speed, and context classification. The trend analyses were performed using historical AADT volumes. Regression analyses were performed to determine the validity of available data and were compared for consistency with Southeast Florida Regional Planning Model (SERPM) data. *Location: Miami-Dade County, FL. Dates: 2023–Ongoing. Reference: Harold Desdunes, PE, (305) 265-5400, hdesdunes@ eacconsult.com.*

Sreelatha Nandivada, MS, PE

Miscellaneous Structures

22 Years of Experience

Years with HBC
<1 year

Education
M.S. in Civil Engineering, University of California

B.E. in Civil Engineering, University of Madras, (2003)

Registration(s)
PE (FL) No. 101195 (05/02/2025)

Also PE in CT/ NY/NC/SC/ VA/TX/CA/NV/UT/GA

Licenses & Certifications
NHI - Safety Inspection of In-Service Bridges

NHI Certification for Fundamentals and Applications of LRFR for Bridge Superstructures

Computer Skills:
Engineering Application & Analysis Tools:

PG Super

LEAP

Open Bridge Designer / Modeler

AASHTOWare BrR

Enercalc

LARS

BRASS 2.0.3

Sreelatha specializes in structural engineering, with extensive experience in bridge design, load rating analysis, and structural assessments for transportation infrastructure projects. She has worked on projects for Departments of transportation, including Florida (FDOT), contributing to the design and analysis of steel and concrete bridges, pedestrian structures, and retaining walls. Her expertise includes structural modeling, load ratings, foundation design, seismic analysis, and cold-formed steel design, utilizing advanced software such as RISA, STAAD.Pro, LEAP Bridge, and AASHTOWare BrR. Sreelatha has also been involved in substation structure design, traffic signal support evaluations, and complex industrial projects, applying AASHTO, AISC, and DOT-specific standards. Licensed in multiple states, she holds certifications in bridge safety inspection and LRFR analysis, ensuring structural integrity and regulatory compliance. Passionate about delivering resilient and innovative structural solutions, she is committed to enhancing transportation infrastructure through data-driven engineering practices.

***Missouri Department of Transportation (MODOT), Route J Over Big Creek Lincoln County Br. No. A9480.** Senior Structural Engineer for the design of a 3-span bridge (80’-120’-80’) utilizing NU-53 P/S Concrete NU-Girders, integral pile cap end bents with 11’-6” long turned back wings, and round concrete intermediate bents on drilled shafts and rock sockets. The bridge design also involved a roadway width of 28’-8” out-to-out. The project is 80% complete for structural design plan submission. *Location: Lincoln County, MO. Dates: 7/2024-10/2024. Reference:* Tim Nugent (Project Manager - CDG Engineers), (314) 781-7770, tnugent@cdgengineers.com.

***Texas Department of Transportation (TXDOT), Bridge X on I-10.** Senior Structural Engineer for the design of a 12-span precast girder bridge on I-10 at the 69 EB Overpass at 11th Street, part of the I-10 bridge cluster projects in Texas. Responsibilities included designing and modeling the bridge using PG Super software and LEAP. The bridge design featured integral end bents, nine intermediate bents with inverted T-bent caps, spans ranging from 9 to 12 precast girders, and lengths ranging from 93 ft to 113 ft. *Location: Beaumont, TX. Dates: 7/2022-4/2023.*

***North Carolina Department of Transportation (NCDOT), Bridge Load Ratings.** Project Engineer for performing Bridge Load Rating Analysis for municipal bridges in High Point, and for bridges in Summit County, NC, on a biannual basis. Responsibilities included conducting NCDOT load ratings for High Point municipal bridges and ratings based on Engineering Judgments for Summit County. Served as the project champion for High Point LR. The bridges ranged from concrete and steel to aluminum pipe arches. Used BrR for compatible bridges and Excel spreadsheets for rating the pipe arches. *Location: Summit, High Point, and Albemarle counties, NC. Dates: 2/2022-6/2022.*

Sreelatha Nandivada,MS, PE

***Alabama Department of Transportation (ADOT), Bridge Load Ratings.** Project Engineer for performing Bridge Load Rating Analysis for bridges in Alabama on a biannual basis. Responsibilities included preparing load rating reports per ALDOT standards and performing analysis in BrR based on ALDOT vehicles. The bridges ranged from concrete and steel to aluminum pipe arches. Used BrR for relevant compatible bridges and Excel spreadsheets for rating the pipe arches. *Location: AL. Dates: 6/2022-10/2022*.

***Missouri Department of Transportation (MODOT), Pedestrian Bridge Rte. 66.** Senior Structural Engineer for an alternative cost comparison study involving three truss spans between Piers No. 2 & 5, with span lengths of 130'-6" - 132' - 130'-6". The alternative design was performed with steel plate girders for spans 2, 3, and 4 as a continuous composite three-span steel bridge. The slab is self-supporting over 11 ft girder spacing. A comparative cost analysis was conducted for steel and prestressed concrete designs. *Location: MO. Dates: 7/2024-10/2024.*

***Fire Department, Baytown, TX, Boathouse Docking Structure Design (Structural Steel OMF) for Fireboat, Baytown, Texas.** Structural Engineer for designing a standalone moment frame steel building structure to dock the emergency fireboat at Baytown Marina, accounting for the area's designation as a hurricane zone with wind speeds up to 165 mph. Responsibilities included developing structural plans and specifications for the boathouse to accommodate high tide levels and hurricane wind speeds while ensuring compliance with maritime structure guidelines, local building codes, and regulations. Used RISA connection software to develop detailed connection designs, ensuring stability under extreme wind loads. Collaborated with architects, contractors, and stakeholders to integrate structural elements seamlessly into the overall design. *Location: Baytown, TX. Dates: 6/2023-1/2024.Reference:* Feifei Bai (Manager - Volkert, Inc.), (281) 466-2813, feife.b@volkert.com.

***Bridge Rehabilitation/Repairs of Brooklyn Bridge.** Brooklyn Bridge, a cable-stayed/suspension bridge in New York City and one of the oldest bridges in the United States. The Brooklyn Bridge spans the East River, connecting the boroughs of Manhattan and Brooklyn. Responsible for drawing reviews and design for repairs on deteriorated conditions found on slab including field measurements and recommendations. *Location: NY. Dates: 2010-2013.*

***New York Department of Transportation (NYDOT), Retaining Wall Design, JetBlue Terminal, JFK.** Served as Lead Structural Engineer for the design of a concrete retaining wall supporting the JetBlue Pedestrian Ramp at JFK Airport, overseeing load analysis, stability assessment, reinforcement detailing, and ensuring compliance with NYDOT standards and airport structural requirements. *Location: Queens,* NY. *Dates: 2009-2010. Reference: John Hopkewizc (Project Manager - AECOM), (860) 263-5800, john.hapkiewic@aecom.com*

***Substation Structures Design.** Senior Structural Engineer for the design of single-phase and three-phase high-voltage bus support structures for multiple substations in Missouri. The project involved preparing calculation packages and shop drawings for Ameren Standard Substation structures. The design was modeled in STADD Pro and analyzed in accordance with IBC 2018, ASCE 7-16, AISC 360-10, and ACI 318-14 for steel design, connection detailing, and concrete column foundation design. *Location: MO. Dates: 2025.*

Bar7

Staad pro

Virtis,SAP2000WinAbut

Microsoft Excel and Office Suite.

Ever-FE

3D modeling Tools:

RISA Connection RISA 3D

AutoCad Inventor

Autocad

Microstation

Expertise

Structural engineering, seawalls, retaining walls, structural wall evaluats, coastal infrastructure, bridge design, load raiting, foundations, miscellaneous structures.

Roberto Rubio, MS, PE

Miscellaneous Structures

35 Years of Experience

Years with HBC
2 years

Education
M.S. in Civil Engineering, University of Washington (1987)

Registration(s)
PE (FL) No. 48982 (02/21/1995)

Expertise
Bridge design, structural engineering, construction support, inspection services, marine structures, foundation systems, retaining walls, miscellaneous structures, drainage coordination, roadway elements.

Before joining HBC Engineering Company, Roberto worked with FDOT District 4 as a Consultant Project Manager and has been involved in numerous projects in South Florida. His experience includes duties as an Engineer of Record, Inspector, Quality Control personnel, Lead Structures Design Engineer and Post Design Services. He provided Construction Support Services as a Structural Engineer where he developed repair procedures for prestressed Florida I beams damaged during transportation and installation on bridges, based on applicable FDOT specifications and the PCI Journal. Mr. Rubio was a past Consultant Project Manager for the FDOT District 4.

Florida Department of Transportation (FDOT) District 6, I-95/SR 9A, Pavement Reconstruction from North of NW 29th St. to South of NW 131st St. Structural Engineer/Subconsultant to Engineer of Record for bridge and signage upgrades within the I-95/I-395 interchange, driven by increased truck traffic from the Port of Miami tunnel. Scope included bridge deck overhang removal, new bridge railings, approach slab reconstruction with barrier upgrades, and replacement of overhead span and cantilever truss sign structures. Responsible for 60%, 90%, and 100% plan reviews, design calculations, and shop drawing evaluations. Designed complex truss sign structures using FDOT MathCAD tools, integrating SAP analysis for combined span and cantilever loading conditions. *Location: Miami-Dade County, FL. Dates: 2017-2019. Reference: Krishna Sandepudi, (813) 972-9444, KSandepudi@tylin.com.*

Florida Department of Transportation (FDOT) District 6, HEFT II Florida Turnpike from Sunset Dr. to Bird Rd., Bridges 2 and 5. Structural Engineer. Construction Support Services for Florida Concrete Products, LLC. The services I was entrusted with included development of repair procedures for prestressed Florida I beams damaged during transportation and installation onto bridges, based on applicable FDOT specifications and the PCI Journal. Repairs included spall patches, crack sealing and epoxy injection of cracks, to prevent further damages and ensure the design load capacity of the beams was not reduced. *Location: Miami-Dade County, FL. Dates: 2017-2018. Reference: Carlos Chaparro, (305) 541-0000, CChaparro@fcp.com.*

Florida Department of Transportation (FDOT) District 6, SR 916 (Dixie Hwy.) and NW 135th St. Over Biscayne Canal. Design team member for Engineer of Record. Safety project including minor repairs to bridge over Biscayne Canal C-8, milling and resurfacing, drainage improvements, and reconstruction of curb and gutter, sidewalk, and sidewalk pedestrian ramps. Responsible for the design of permanent steel sheet piling for stabilization of the canal, including end walls for two 5ft diameter culvert pipes, and protection for existing utilities including a fiber optic cable duct bank. Responsible for QC of bridge repair plans and calculations. The bridge is a four span precast slab multibeam bridge carrying five lanes of traffic. Repairs included shear key and post tensioning replacement. Contributed to roadway resurfacing design, specifically the pavement build-up scheme to correct cross slopes and improve drainage. *Location: Miami Dade County, FL. Dates: 4/2015-9/2015. Reference: Ali Toghiani, (305) 567-1888, AToghiani@tylin.com.*

Roberto Rubio, MS, PE

Florida Department of Transportation (FDOT) District 6, SR 5/US 1 Long Key Bridge (Bridge No. 900094), Design-Build, V-Pier Replacement Inspection Services. Lead Inspector. Inspection services for contractor during the replacement of massive concrete bridge piers showing extreme deterioration due to continuous exposure to salt water in the splash zone. Responsible for inspection of segmental construction type spans each side of the pier, to assess the damages caused by lifting of the spans and lowering them onto temporary steel piers. Provided recommendation for reopening the bridge to traffic and repeated the process for each subsequent pier. The inspections included the interior, the underside, and the top of the segments or roadway surface. The damages observed included expected reverse shear and moment cracks, as well as minor spalls and delaminations without exposed reinforcement (strands or rebar). Our inspection reports included complete repair recommendations. A total of 7 piers were inspected using boom lift trucks placed over a barge for the underside inspection. Other equipment included safety harness and an air quality monitor. US1 is the only access roadway in and out of the Florida Keys, and therefore opening the bridge to traffic depended entirely on the success of the above described operations.. *Location: Long Key,FL. Dates: 2014-2015. Reference: Johnson Brothers Corp., (813) 685-5101, www.johnson-bros.com.*

Florida Department of Transportation (FDOT) District 6, New Scenic Pedestrian Bridge Across SR 5 (US-1), Between Ponce de Leon Blvd. and Douglas Rd., Safety Project. Engineer of Record. Safety project: Realignment of SR 5 to improve visibility and reduce ponding. Responsible for the design of a steel truss pedestrian bridge superstructure to replace the existing structure, and replacement of the access piers in kind at a different location within the project limits. Prepared the Bridge Development Report. Helped a junior engineer with the implementation of MIDAS structural software, Civil/Bridge module, for design of the superstructure and substructure. The piers were located so as to prevent conflicts with existing utilities. Contributed to roadway drainage design including new inlets along the entire project. *Location: Miami, FL. Dates: 2014-2015. Reference: Ali Toghiani, (305) 567-1888, AToghiani@tylin.com.*

Iowa Dept. of Transportation, Bridge Reconstruction/Widening, I-29 Bridges Over Boyer River. Engineer of Record for the widening of two parallel skewed 410-foot bridges on NB and SB I-29 over the Boyer River in Harrison County, Iowa. Each bridge was widened from 28’-0” to 41’-6” clear roadway width, using steel built-up girders composite with a reinforced concrete deck on steel rocker bearings. Responsible for superstructure and substructure design per AASHTO LRFD and Iowa DOT standards, including five new girders, deck extension, and Type F barriers. Substructure work included pier and footing extensions with additional H-piles, new prestressed piles at abutments, and new wingwalls. Scour protection featured articulating block mats and riprap. Performed phased design to maintain traffic, using MDX for structural calculations and coordinated plan development with CAD staff. *Location: Harrison County, IA. Dates: 2007-2008. Reference: James Nelson, (515) 239-1206, James.s.Nelson@iowadot.us.*

US Army Corps of Engineers Hurricane Protection Office, New Orleans Inner Harbor Navigation Channel (IHNC), Hurricane Risk Reduction Project. Lead structural engineer, Engineer of Record. New two mile long Lake Borgne surcharge protection barrier, from the Gulf Intracoastal Waterway (GIWW) to the Mississippi River Gulf Outlet (MRGO). The barrier was conceived after the experience with Hurricane Katrina. Responsible for the design of the pivot structure for the new 150ft long navigational swing gate at the GIWW. The swing gate is the backup gate for the main sector gate designed by others. The reinforced concrete pivot column and steel pivot arm, with their embedded mechanisms, are designed to accommodate all six nautical motions of the floating swing gate they are connected to. Responsible for design of the support pier for the swing gate in the open position, a vehicular access to the gate, and other ancillary structures such as staircases and platforms. In charge of QC for design of the massive reinforced concrete pad resting on over 300 piles to support the swing gate in the closed position. Supervised junior personnel and draft persons, and prepared specifications package. *Location: New Orleans, LA. Dates: 2008-2009. Reference: Lt. Col. Victor Zillmer, (504) 862-2235.*

Bunrith Heng, MS, PE

Miscellaneous Structures

31 Years of Experience

Years with HBC
<1 year

Education
M.S. in Civil Engineering Science, University of New South Wales, (1999)

B.S. in Civil and Industrial Construction Eng, Institute of Technology of Cambodia, (1994)

Registration(s)
PE (FL) No. 94776 (9/8/2022)

Licenses & Certifications
Autodesk Cert. Civil 3D

Autodesk Cert. Revit

*** Prior to HBC**

Bunrith is a professional engineer with comprehensive experience in structural engineering and construction. He is proficient in CSI Etabs, SAP2000, SAFE, Enercal, Mathcad, Autodesk Civil 3D, MX Road, Autodesk Rivit, Risa 3D, Staad Pro, Microsoft Project, Primavera Project Planner, Microsoft Office and VBA and Python Programming. He has extensive experience in Structural design of building, highway geometrical design, land development, and Topographical survey and survey data processing. In 2001, Bunrith started a small engineering and construction company called Angkor Wat Engineering and Construction (AWEC) and had been maintaining the operation until the end of 2013. AWEC had been providing civil engineering, surveying and construction management services to many major companies and organization such as KCI inc., Taisei corporation, Kubota, LBI, Konoike construction Ltd., CTI engineering, Pisnoka inc. in association with Zachry company, Australia Cambodia Foundation and many more. AWEC had contracted to work as independent structural engineering firm in the United States Embassy compound buildings, Cambodian Mekong university construction project, and many more buildings and bridges construction.

Florida Department of Transportation (FDOT) District 4, SR-817/ University Dr Widening from Nova Dr to SR-84. Structural engineer responsible for reviewing calculation packages, establishing technical specifications for bus shelters and drawings for bus shelters, mast arms, and sign structures. *Location: Davie, FL. Dates: 04/28/2022–Ongoing. Contract Amount: $1,724,859.00. Contract No.: CAI67. FM No.: 445624-1-32-01. Reference: Lance Jones, (954) 777-4680, lance.jones1@dot.state.fl.us.*

***Fleming Hotel, LLC, The Hampton Inn.** Bunrith servered at the Senior Structural Engineer for this project tasks included structural modeling using ETABS, load take down, Irregular analysis, Seismic analysis of the building using Mathcad to compare with response spectrum analysis on ETABS, proposed structural solution, design of steel and reinforce concrete structural elements of the building, Foundation analysis and design with SAFE, lead drafter to produce drawings, coordinate with Architect and other related designed disciplines. Location: Ponce, Puerto Rico. Date: 4/2022 - 6/2022. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***Disney Enterprise, Inc, Light House Point Project.** Senior structural engineer for structural analysis and design of one-story masonry and wood building, concrete foundation analysis and design, concrete columns and beams design, lead drafters to produce drawings.Location: Bahamas. Date: 4/2022 - 6/2022. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***University of Florida, Archer Place Apartment Phase 1 and 2.** Senior structural engineer for structural analysis and design of two 7 stories building with reinforced concrete and masonry walls and hollow core plank slab. Pile foundation and reinforced concrete transferred beam design, lead drafter to produce drawings. Location: UF, Gainesville, FL. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***The Jay Odom Group, Holiday Inn Express & Suites.** Senior structural engineer for structural analysis and design of a 4-stories masonry building with transferred steel girders and hollow core plank slab. The tasks included structural modeling and structural analysis of the structure in ETABS, masonry shear wall design, structural analysis and design of steel transferred beams and columns using SAP2000, concrete foundation analysis and design using CSi SAFE, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings.Location: Ft. Walton Beach, FL. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***Nestor J. Ruiz, Thru by Hilton Hotel.** Senior structural engineer for structural analysis and design of a 8-stories post-tension concrete slab building with elevated car park. The tasks included performing structural analysis, building irregularity check, seismic analysis, and concrete shear walls and column design using ETABS, carried out initial post-tension design to provide data for post-tension the contractor using SAFE, punching shear and stud rail design, foundation analysis and design, steel structures and other auxiliary structures design, steel connection using IdeaStatica, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings. Location: Condado, Puerto Rico.

***The Jay Odom Group: Element Hotel by Westin.** Element hotel by Westin, 5 stories with two designed options—cmu wall with post-tension slab or hollow core slab. The tasks included structural modeling and structural analysis of the structure in ETABS, masonry shear wall design, initial design of post-tension slab, structural analysis and design of steel transferred beams and columns using SAP2000, concrete foundation analysis and design using CSi SAFE, , steel connection using IdeaStatica, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings. Location: Grand Lagoon, FL. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***Shah Realty Partners LLC, Shah Villa.** Senior structural engineer for structural analysis and design of a 5 stories cmu and hollow core slab. The tasks included structural modeling and structural analysis of the structure in ETABS, masonry shear wall design, structural analysis and design of steel transferred beams and columns using SAP2000, concrete foundation analysis and design using CSi SAFE, steel connection using IdeaStatica, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings. Location: Bradenton, FL. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***The Jay Odom Group, Marriott TownePlace Suites.** Senior structural engineer for structural analysis and design of a 4-stories hotel. The tasks included structural modeling and structural analysis of the structure in ETABS, masonry shear wall design, structural analysis and design of steel transferred beams and columns using SAP2000, concrete foundation analysis and design using CSi SAFE, steel connection using IdeaStatica, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings. Location: Grand Lagoon, FL. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***The Jay Odom Group: Beast Code Office.** Senior structural engineer for structural analysis and design of a 2-stories office and data center building with 50 ft Vulcraft composite joists, steel girders and composite deck. The tasks included structural modeling, structural analysis of the structure in ETABS and design of steel girders and columns, steel connection design using IdeaStatica, concrete foundation design, Vulcraft composite deck design and provide load schedule for Vulcraft to design steel joists. Location: Ft. Walton Beach, FL. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

***SSA Marine Mexico, Port Progreso Facility.** Senior structural engineer for structural design of 12 masonry and wood buildings in combination with structural steel components. The tasks include structural analysis and design of cmu shear walls, concrete, steel and wood structures, retaining walls and foundation using Enercalc and spreadsheet and Mathcad, steel connection design using IdeaStatica, leading drafters to produce drawing for 12 buildings. Location: Yucatan, Mexico. *Reference: Michael Pagliaro, (407) 909-8995, michael.pagliaro@celticengineering.com*

Joseph Maceo, EI

Drainage Engineer

Joseph graduated from Florida International University (FIU) with a Bachelor of Science in Civil Engineering (BSCE) and is registered in the State of Florida as an Engineer Intern (EI) with EI Certificate Number 1100027387. Joseph previously worked for a deep foundation construction company as an assistant estimator, where he performed various engineering tasks, including developing bid proposals for general contractors; analyzing drawings; reviewing geotechnical reports for vital information; and working as a field engineer on multiple job sites across Florida. Joseph then began working as a project estimator at a glass and construction company, where he performed similar engineering tasks while also assisting project managers with daily reports, material orders, and coordination of installations; attending inspections at various phases of job completion; and completing all aspects of projects from initial budgeting through final turnover to client. Joseph is currently developing roadway designs for HBC.

Palm Beach County, Boca Rio Rd from Palmetto Park Rd to Glades Rd. This Design-Build project involves the widening of Boca Rio Road and design improvements for Boca Rio Road from Palmetto Park Road to Glades Road. Joseph assisted in the intersection designs of Palmetto Park Road, Boca Lago Road, Via Ancho Road, and Glades Road. These designs included proposed pedestrian detectors, video loop systems, and replacement of span-wire poles with mast arms. *Location: Boca Raton, FL. Dates: 11/2023-Ongoing. HBC Fee: $660k. Reference: Holly B. Knight, (561) 684-4150.*

City of Riviera Beach, W 15th St from Ave R to Ave L. This progressive Design-Build project involves the construction of a new raw water treatment plant and the expansion of the existing raw water network in the City of Riviera Beach. The project includes the installation of new wells and new raw water transmission mains to connect proposed wells to the treatment plant. Joseph serves as Engineering Technician for roadway and pipeline design. Joseph also created 3D CADD design drawings of existing utilities. *Location: Riviera Beach FL. Dates: 11/2023–Ongoing. HBC Fee: $2M.*

Miami-Dade County Water and Sewer Department (MDC-WASD), Q16 A&D Small Diameter Water Main Replacement Program (SDWMRP). Project Engineer for supporting the planning, design, and construction coordination of over 60,000 linear feet of new water mains for Miami-Dade WASD. Responsibilities included performing route feasibility studies to assess alignment alternatives, coordinating survey and subsurface utility exploration, and overseeing geotechnical investigations to inform design. The role involved preparing phased construction documents for 8”, 12”, and 16” diameter water mains and associated Consumer Line Relocations (CLRs), facilitating permit submittals and responses, and supporting the procurement process. Provided continuous engineering support throughout construction to ensure compliance with WASD standards, optimize constructability, and maintain schedule coordination. *Location: Miami-Dade, FL. Dates: 2025-Ongoing. Reference: Rudy Ibarra, PE, Rudy.Ibarra@miamidade.gov. Contract No. 23HBCE002/TA No 001.*

7 Years of Experience

Years with HBC
2 years

Education
B.S. in Civil Engineering, Florida International University (04/28/2018)

Registration(s)
EI (FL) No. 1100027387 (1/11/2024)

Licenses & Certifications
FDOT Temporary Traffic Control (TTC) Advance Course Certificate No. 621306

Affiliations
American Society of Civil Engineers (ASCE) Member

Expertise
AutoCAD Civil 3D

OpenRoads Designer

***Prior to HBC**

Joseph Maceo, EI

Puerto Rico Aqueduct and Sewer Authority (PRASA), Improvement to Sanitary Trunk Sewer Van Scoy. Joseph served as the designer of the pressurized sanitary force main system ensuring compliance with local regulations. The proposed force main spans over 7,500 feet and includes segments Horizontal Directional Drill (HDD) and open trench, designed to connect an existing pumpstation system. Joseph also created 3D CADD design drawings to depict potential utility conflicts in cross section views. Location: Puerto Rico. Dates: 04/2024–Ongoing. Reference: Ramon Ortiz, (787) 781-9050, Ramon.Ortiz-Morgado@jacobs.com

***Keller Group, The One at University City.** Joseph served as the Project Engineer for the duration of this project. His responsibilities included preparing daily progress reports, ensuring the project adhered to the established timeline, managing material procurement such as grout and rebar, coordinating with subcontractors for deliveries and installations, and verifying that all work was executed in accordance with the design specifications. He was also in charge of inspecting each pile to verify that they were installed at the correct elevation and reporting any issues encountered on the job site to the project manager. Sweetwater, FL. Dates: 5/2018-7/2018. Reference: Jose Delgado, (305) 989-1060.

***Keller Group, Ritz-Carlton Residences.** Joseph served as the Project Engineer for the test pile installation on this project. His responsibilities encompassed overseeing the installation of test piles and monitoring the lengthy testing process to ensure that each pile maintained structural integrity in order to meet the minimum design specifications for construction. Joseph ensured each tension and compression test pile was installed in the correct location and according to design specifications. Sarasota, FL. Dates: 8/2018-8/2018. Reference: Jose Delgado, (305) 989-1060.

***National Glass & Construction, Casa Murano.** Joseph served as the lead estimator and project engineer for the construction of this luxury five-story condominium. His roles included performing takeoffs, coordinating with the GC for cost estimation, pulling permits, ordering materials such as impact windows and doors, coordinating installations, ensuring project critical path was met, and assuring completion of successful inspections. Las Olas, FL. Dates: 01/2023 -10/2023. NGC Fee: $450k. Reference: Ray Rodriguez, (305) 878-4492.

***Private Glass & Construction Firm, Project Estimator.** Joseph served the role of Project Estimator where he was responsible for performing the following tasks:

- Performing takeoffs
- Applying for permits and attending inspections
- Completing daily reports, material orders and coordination of installations
- Analyzing architectural and civil drawings for budget proposals

Location: Doral, FL. Dates: 4/2022–11/2023. Reference: Ray Rodriguez, (305) 878-4492, ray@natglass.net.

Derrek Okosun, EI

Drainage Engineering

Derrek specializes in traffic engineering and roadway design, with experience in Temporary Traffic Control (TTC), utility coordination, and traffic data collection. He has worked on various resurfacing, restoration, and rehabilitation (3R) projects, assisting with scoping reports, field reviews, and compliance assessments to ensure adherence to FDOT Design Manual and ADA Standards. His expertise includes lane closure analysis, traffic control planning, safety evaluations, and utility coordination for state and municipal projects. Derrek has contributed to key projects such as SR-90/US-41 RRR, SR-932/NE 103rd St RRR, and Miami-Dade County Water & Sewer Department (MDC-DTPW) MOT plans, where he played a vital role in documenting deficiencies and developing improvement recommendations. Certified in Advanced TTC, Work Zone Safety, and Traffic Control, Derrek applies detailed engineering analysis and problem-solving skills to enhance roadway safety, optimize mobility, and support infrastructure improvements.

Florida Department of Transportation (FDOT) District 6, SR-90/US-41/SW 7th St from Brickell Ave to West of SW 2nd Ave RRR Project. Derrek is the Engineering Technician assisting in the production of a Scoping Report for SW 7th Street from Brickell Avenue to West of SW 2nd Avenue. Derrek is responsible for performing field reviews to observe the existing physical, operational, and safety conditions and assessing if conditions are compliant with FDOT Design Manual and ADA Standards. Derrek is also responsible for creating tables that document the existing deficiencies along the corridor and providing recommendations to address substandard features within the project limits, as well as creating an exhibit that summarizes the existing deficiencies and recommended improvements. *Location: Miami, FL. Dates: 2022–Ongoing. Reference: Nicholas Danu, PE, (305) 470-5219, Nicholas.danu@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 6, SR-932/NE 103rd St from East of NE 2nd Ave to West of NE 6th Ave RRR Project. Derrek is the Engineering Technician assisting in the production of a Scoping Report for NE 103rd Street from East of NE 2nd Avenue to West of NE 6th Avenue. Derrek is responsible for performing field reviews to observe the existing physical, operational, and safety conditions, and assessing if conditions are compliant with FDOT Design Manual and ADA Standards. Derrek is also responsible for creating tables that document the existing deficiencies along the corridor and providing recommendations to address substandard features within the project limits, as well as creating an exhibit that summarizes the existing deficiencies and recommended improvements. *Location: Hialeah, FL. Dates: 2022–Ongoing. Reference: Nicholas Danu, PE, (305) 470-5219, Nicholas.danu@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 6, SR-5/US-1/South Dixie Hwy from South of SW 232nd St to South of SW 112th Ave/SW 208th Dr RRR Project. Derrek is the Engineering Technician who

6 Years of Experience

Years with HBC
5 years

Education
B.S. in Civil Engineering, Florida International University (12/14/2019)

Registration(s)
EI (FL) No. 1100027387 (12/27/2024)

Licenses & Certifications
TTC Advanced Certification

Work Zone Safety

Traffic Control

Expertise

Temporary traffic control (TTC), maintenance of traffic (MOT), traffic data collection, roadway restoration, utility coordination, safety analysis, signalization, field reviews.

assisted in the production of a Scoping Report for South Dixie Highway from South of SW 232nd Street to South of SW 208th Drive. Derrek performed field reviews to observe the existing physical, operational, and safety conditions and assessed if conditions were compliant with FDOT Design Manual and ADA Standards. Derrek also created tables that documented the existing deficiencies along the corridor and provided recommendations to address substandard features within the project limits, as well as created an exhibit that summarized the existing deficiencies and recommended improvements. *Location: Miami-Dade County, FL. Dates: 2021. Reference: Nicholas Danu, PE, (305) 470-5219, Nicholas.danu@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 6, Districtwide Resurfacing Scoping Reports. Derrek is the Engineering Technician assisting in the design of various roadway restoration projects, including minor reconstruction, signalization, widening, and intersection improvements. *Location: Miami-Dade County, FL. Dates: 2020–Ongoing. Contract No.: CA812. Reference: Nicholas Danu, PE, (305) 470-5219, nicholas.danu@dot.state.fl.us.*

Miami-Dade County Water and Sewer Department (MDC-WASD) Maintenance of Traffic (MOT), Control Plans for 16" Diameter Water Main along NW 37th Ave between NW 36th St and NW 82nd St. Derrek is the Engineering Technician assisting the design of a Temporary Traffic Control Plan (TTCP) for the installation of 14,400 Linear Feet (LF) of a 16" diameter water main along NW 37th Avenue from NW 36th Street (SR-948) to NW 82nd Street (Miami-Amtrak Station). This task is accomplished by using tables to reference applicable details and indexes for such locations. This includes Lane Closure Analysis, summary of quantities, and precise TTCP phases and plans to safely facilitate the routing of traffic through work zones. Derrek is responsible for coordinating with MDC-WASD, FDOT District 6, and stakeholders, as necessary, to ensure feedback and approval of the proposed TTCP design. *Location: Miami, FL. Dates: 2020–Ongoing. Reference: Arnelio Alfonso, PE, (305) 592-7283, Aalfonso@apcte.com.*

Miami-Dade County Water and Sewer Department (MDC-WASD) Maintenance of Traffic (MOT), Control Plans for 8" Diameter Gravity Sewer Line along NW 37th Ave between NW 36th St and NW 82nd St. Derrek is the Engineering Technician assisting the design of a Temporary Traffic Control Plan (TTCP) for the installation of 26,860 Linear Feet (LF) of an 8" diameter gravity sewer line along NW 37th Avenue and adjacent areas from NW 36th Street (SR-948) to NW 82nd Street (Miami-Amtrak Station). This task is accomplished by using tables to reference applicable details and indexes for such locations. This includes Lane Closure Analysis, summary of quantities, and precise TTCP phases and plans to safely facilitate the routing of traffic through work zones. *Location: Miami, FL. Dates: 2020–Ongoing. Reference: Arnelio Alfonso, PE, (305) 592-7283, Aalfonso@apcte.com.*

Florida Department of Transportation (FDOT) District 4, SR-7/US-441 Transit Corridor Improvements. Derrek is the Engineering Technician assisting in utility coordination efforts along SR-7/US-441 from Hallandale Beach Boulevard to Turtle Creek Parkway. Utility coordination consists of cooperating with Utility/agency Owners (UAOs) to accurately display utilities along SR-7/US-441. *Location: Broward County, FL. Dates: 2019–Ongoing. Reference: Robert Lopes, (954) 777-4425, Robert.Lopes@dot.state.fl.us.*

Florida Department of Transportation (FDOT) District 4, Homewood Blvd from Old Germantown Rd to Lowson Blvd. Derrek is the Engineering Technician assisting the design of a Temporary Traffic Control Plan (TTCP) for this 0.51-mile 3R project on Homewood Boulevard in the City of Delray Beach. The TTCP design includes typical sections for vehicular traffic and an ADA-compliant pedestrian detour on a multilane road. This task is accomplished by using tables to reference applicable details and indexes for such locations. This includes Lane Closure Analysis, summary of quantities, and precise TTCP phases and plans to safely facilitate the routing of traffic through work zones. *Location: Delray Beach, FL. Dates: 2018–Ongoing. Reference: Raul Dominguez, (954) 777-4677, Raul.Dominguez@dot.state.fl.us.*

Yissell Navarro Sanchez, EI

Engineer Intern

Yissell is a motivated, responsible, and goal-oriented Engineer Intern (EI) with a background in Environmental and Geophysical Engineering. She is focused on the design of water and wastewater treatment plants and the overall improvement of water supply systems. Her areas of expertise include water resources, water quality analysis, and analytical and quality control design, with a focus on the provision of cost-effective innovative solutions. She has experience in fundamental geophysical testing, geological areas, earth structures, hydrology, mineralogy, rock classification, and geological/ seismic evaluations.

4 Years of Experience

Years with HBC
2 years

Education
B.S. in Environmental Engineering, Florida International University (12/17/2022)

Registration(s)
EI (FL) No. 1100027116 (09/25/2023)

Licenses & Certifications
AutoCAD

ArcGIS

***Prior to HBC**

Miami-Dade County Water and Sewer Department (MDC-WASD), Q16 A&D Small Diameter Water Main Replacement Program (SDWMRP). Project Engineer responsible for supporting the planning, design, and construction coordination of over 60,000 linear feet of new water mains for MDC-WASD. Her responsibilities include performing route feasibility studies to assess alignment alternatives, coordinating survey and Subsurface Utility Engineering (SUE), and overseeing geotechnical investigations to inform the design efforts. Her role involved preparing phased construction documents for 8", 12", and 16" diameter water mains and associated Consumer Line Relocations (CLRs), facilitating permit submittals and responses, and supporting the procurement process. She is also tasked with providing continuous engineering support throughout construction to ensure compliance with MDC-WASD standards, optimize constructability, and maintain schedule coordination. *Location: Miami, FL. Dates: 2025-Ongoing. Reference: Rudy Ibarra, PE, Rudy.Ibarra@miamidade.gov. Contract No. 23HBCE002/TA No 001.*

Puerto Rico Aqueduct and Sewer Authority (PRASA), El Yunque (Las Picúas) Wastewater Treatment Plant (WWTP) Elimination. Project Engineer responsible for the design of two (2) new sanitary pump stations and force mains. This project also involves the decommissioning of the existing WWTP and the integration of new infrastructure, including stormwater management and utility assessments. HBC performed detailed demolition plans, site grading, and capacity analysis of the existing systems to ensure a smooth transition and compliance. *Location: Rio Grande, Puerto Rico, FL. Dates: Ongoing. Reference: Adamaris J. Quiñones, PE, Program Manager.*

Puerto Rico Aqueduct and Sewer Authority (PRASA), Improvement to Sanitary Trunk Sewer Van Scoy. Project Engineer responsible for the survey, topography, and Subsurface Utility Engineering (SUE) services for the Improvement to Sanitary Trunk Sewer Van Scoy project. The scope includes conflict detection, soft digs, and flow measurement studies to address capacity limitations in the Bayamon Municipality. HBC prepared design reports, drawings, and cost estimates, and managed permits to ensure compliance with local regulations. *Location: Puerto Rico, FL. Dates: 04/2024-Ongoing. Reference: Ramon Ortiz, 787.781.9050, Ramon.Ortiz-Morgado@jacobs.com*

Puerto Rico Aqueduct and Sewer Authority (PRASA), Preliminary Engineering Report (PER) for the Elimination of the Ciales, Morovis, and Unibón Wastewater Treatment Plants. Project Engineer responsible for the Preliminary Engineering Report (PER) for the Elimination of the Ciales, Morovis, and Unibón WWTPs, and includes pump station design recommendations for force/gravity main route evaluations, head loss analysis, and environmental/constructability assessments. This project also explores installing intermediate pump stations to optimize flow. *Location: Rio Grande, Puerto Rico, FL. Dates: Ongoing. Reference: Jose A. Rodriguez, PE, (787) 641-6800, jarodriguez@csagroup.com*

***Florida International University (FIU), Design of an Ion Exchange Process for the Removal of PFAS in the Water Supply at Broward County.** Task Manager responsible for the design of an Ion Exchange Process that effectively reduces eighty-three (83) Parts per Trillion (PPT) of Per- and Polyfluoroalkyl Substances (PFAS), commonly known as "forever chemicals," for an existing potable water treatment plant. Yissell provided emergent engineering solutions to guarantee efficiency for the removal of PFAS, the ability to scale to both the plant's current and maximum permitted flowrate, and the compatibility with the existing facility processes. *Location: Broward County, FL. Dates: 08/2022–12/2022. Reference: Jeffrey Greenfield, PhD, PE, (561) 682-2989, jgreenfi@fiu.edu.*

***Florida International University (FIU), Design of Membrane Filtration Unit Process for a 150 MGD Desalination Plant in Miami-Dade County (MDC).** Project Manager responsible for the design of a membrane filtration unit process for a 150 Million Gallons per Day (MGD) Desalination Plant in MDC to ensure water quality to increase the sustainability and resilience of the water supply infrastructure under the existing climate change, population growth, strict regulations, sea level rise, and saltwater intrusion threatening the sustainable water supply for the citizens of MDC. *Location: Miami, FL. Dates: 8/2022–12/2022. Reference: Walter Tang, (305) 348-3046, tangz@fiu.edu.*

***Florida International University (FIU), Design of an Attached Growth and Combined Biological Treatment Process for a Wastewater Treatment Plant.** Project Manager and Lead Designer responsible for design alternatives based on attached growth and combined biological treatment processes to increase the effectiveness of the plant's current practice and activated sludge treatment system by specifically providing two (2) different alternatives: Moving Bed Biological Reactor (MBBR) and Membrane Bioreactor (MBR). She also addressed the presence of toxic Per- and Polyfluoroalkyl Substances (PFAS) in wastewater, providing a solution capable of reducing and removing PFAS from wastewater, with the objective of protecting the environment and public health. *Location: Miami-Dade County, FL. Dates: 1/2022–4/2022. Reference: Walter Tang, (305) 348-3046, tangz@fiu.edu.*

***Simon Bolivar University, Research Assistant, Global Positioning System (GPS) Geodesy Lab, Department of Earth Sciences.**

- Collaborated with the research team in experimental design, collection, recording, and analysis of seismic data on cutting-edge research initiatives, contributing to advancements in geophysical engineering
- Conducted thorough literature reviews to support the research objectives and maintain updates pertinent to the advancements in the field
- Assisted in the interpretation of research findings, contributing to the preparation of reports
- Managed and maintained Global Positioning System (GPS) and seismic monitoring equipment, ensuring accurate and reliable data collection

Location: Caracas, Venezuela. Dates: 2016–2017. Reference: Omar Perez, PE, +58 (212) 9063111, ojperez@usb.ve.

Teodoro Tefel, PE

Maintenance of Traffic (MOT) | Cost Estimator

Teodoro has extensive experience working on various civil engineering projects involving roadway design. He has served the roles of Support Engineer, Project Engineer, Senior Roadway Engineer, and Engineer of Record (EOR) successfully and has been responsible for management and plans review. He has also served as in-house consultant for the review of design variations and exceptions for the Florida Department of Transportation (FDOT) District 6 Design Office. In addition, Teodoro also has significant experience in the design of Signing and Pavement Marking (S&PM) plans, Maintenance of Traffic (MOT) plans, Traffic Control Plans (TCPs), and Temporary Traffic Control Plans (TTCPs).

Florida Department of Transportation (FDOT) District 6, Districtwide Resurfacing Scoping Reports. Teodoro is serving the role of Engineer of Record (EOR) and is responsible for preparing districtwide resurfacing scoping reports, by analyzing the existing conditions, to determine deficiencies and establish or substantiate the project purpose and need. He is also developing project alternatives to satisfy the identified deficiencies or needs within the corridor. The evaluation of alternatives includes transit or transportation system improvement options. Most deliverables are preliminary cost sections, based on the engineer's estimates, preliminary drainage analysis and plans, conceptual roadway plans, approved typical section package, and variances and exceptions sections. *Location: Miami-Dade County, FL. Dates: 2023-2026. FM No.: 250759-5-22-01. Contract No.: CAN23. HBC Fee: $1.5M. Reference: Md S Hossain, MS, EI, (305) 470-5342, Md.Hossain@dot.state.fl.us*

Florida Department of Transportation (FDOT) District 1, SR-29 Milling and Resurfacing from North of Wagon Wheel Rd to South of I-75. Teodoro is serving the role of Support Engineer for Milling and Resurfacing (M&R) and Signing and Pavement Markings (S&PMs) on SR-29 from north of Wagon Wheel Road to south of I-75. *Location: Collier County, FL. Dates: 2023-2025. FM No.: 448929-1-32-01. Contract No.: CAN28. HBC Fee: $1M. Reference: Christopher Speese, (239) 225-1973, christopher.speese@dot.state.fl.us.*

Palm Beach County (PBC), Boca Rio Rd Widening from Palmetto Park Rd to Glades Rd. Teodoro is serving the role of Support Engineer for the reconstruction and widening of Boca Rio Road from Palmetto Park Road to Glades Road in Palm Beach County, Florida. *Location: Palm Beach County, FL. Dates: 2022–2024. HBC Fee: $660K. Reference: Jonathan DeLaura, (561) 684-4013, jdelaura@pbcgov.org.*

38 Years of Experience

Years with HBC
5 years

Education
B.S. in Civil Engineering, Florida International University (12/12/1987)

Registration(s)
PE (FL) No. 50106 (02/15/1996)

Certifications
Advanced MOT

Expertise
Roadway design, maintenance of traffic (MOT), traffic control plans (TCPs), signing and pavement marking (S&PM), highway reconstruction, milling and resurfacing, interchange design, roadway widening, drainage analysis, project management.

***Prior to HBC**

Miami-Dade County Water and Sewer Department (MDC-WASD), Maintenance of Traffic (MOT) Control Plans for New 16" Diameter Water Main along NW 37th Ave between NW 36th St and NW 82nd St. Teodoro served the role of Project Engineer responsible for designing a Temporary Traffic Control Plan (TTCP) for the installation of 14,400 LF of a 16" diameter water main along NW 37th Avenue from NW 36th Street/SR-948 to NW 82nd Street (Miami-Amtrak Station). This project was accomplished by using tables to reference applicable details and indexes for such locations. This included lane closure analysis, summary of quantities, and precise

TTCP phases and plans, to safely facilitate the routing of traffic through work zones. Teodoro coordinated with Miami-Dade County (MDC) Water and Sewer Department (WASD), FDOT District 6, and stakeholders, as necessary, to ensure feedback and approval of the proposed TTCP design. *Location: Miami-Dade County, FL. Dates: 2020–2021. HBC Fee: $40K. Reference: Arnelio Alfonso, PE, (305) 592-7283, Aalfonso@apcte.com.*

Miami-Dade County Water and Sewer Department (MDC-WASD), Maintenance of Traffic (MOT) Control Plans for New 8" Diameter Gravity Sewer Line along NW 37th Ave between NW 36th St and NW 82nd St. Teodoro served the role of Project Engineer responsible for designing a Temporary Traffic Control Plan (TTCP) for the installation of 26,860 LF of an 8" diameter gravity sewer line along NW 37th Avenue and adjacent areas from NW 36th Street/SR-948 to NW 82nd Street (Miami-Amtrak Station). This project was accomplished by using tables to reference applicable details and indexes for such locations. This included lane closure analysis, summary of quantities, and precise TTCP phases and plans to safely facilitate the routing of traffic through work zones. Teodoro also coordinated with Miami-Dade County (MDC) Water and Sewer Department (WASD), FDOT District 6, and stakeholders, as necessary, to ensure feedback and approval of the proposed TTCP design. *Location: Miami-Dade County, FL. Dates: 2020–2021. HBC Fee: $85K. Reference: Arnelio Alfonso, PE, (305) 592-7283, Aalfonso@apcte.com.*

Florida Department of Transportation (FDOT) District 6, SR-25/US-27/Okeechobee Rd from the Miami-Dade County Line to SR-826/Palmetto Expressway. Teodoro served the role of Senior Engineer responsible for the review of roadway design plans for the reconstruction of this 10-mile section, which includes four (4) major interchanges. *Location: Miami-Dade County, FL. Dates: 2020-2021. HBC Fee: $3.96M. Reference: Bao-Ying Wang, PE, (305) 470-5211, Baoying.Wang@dot.state.fl.us.*

***Florida Department of Transportation (FDOT) District 6, In-House Consultant Under the General Engineering Consultant (GEC) Contract.** Teodoro served the role of Senior Engineer and Florida Department of Transportation (FDOT) District 6 In-House Consultant responsible for the review of design variations and exceptions and typical section packages for approval by the District 6 Design Engineer. Teodoro also performed proactive coordination with consultant firms. *Location: Miami-Dade County, FL. Dates: 2016–2020. Contract Amount: $5M. Reference: Daniel Iglesias, PE, (305) 470-5266, Daniel.Iglesias@dot.state.fl.us.*

***Florida Department of Transportation (FDOT) District 6, Express Lane on SR-826/Palmetto Expressway from Flagler St to NW 154th St and SR-93/I-75 from SR-826/Palmetto Expressway to NW 170th St.** Teodoro served the role of Project Engineer for this 14-mile Preliminary Engineering project. The design included the major highway reconstruction, widening, and Milling and Resurfacing (M&R) of SR-826/Palmetto Expressway, SR-93/I-75, and frontage roads, as well as the construction of a 2-lane SR-826/Palmetto Expressway to SR-93/I-75 flyover connector. *Location: Miami-Dade County, FL. Dates: 2014–2015. Contract Amount: $1M. Reference: Judy Solaun-Gonzalez, PE, (305) 470-5343, Judy.Solaun@dot.state.fl.us.*

***Florida Department of Transportation (FDOT) District 6, SR-826 (Palmetto Expressway)/SR-836 (Dolphin Expressway) Interchange Reconstruction (Section 5).** Teodoro served the role of Senior Roadway Engineer responsible for plans review of complex major limited access facilities. The SR-826 (Palmetto Expressway)/SR-836 (Dolphin Expressway) Interchange is a heavily traveled 4-level system to system interchange in Miami-Dade County. *Location: Miami-Dade County, FL. Dates: 2013–2016. Contract Amount: $300M. Reference: Ali Toghiani, PE, (305) 470-5343, Ali.Toghiani@dot.state.fl.us.*

David Coker, EI

Maintenance of Traffic (MOT)

David specializes in roadway and traffic engineering, with expertise in 3D roadway design, traffic operations analysis, and signalization. He has worked on highways, arterial roads, and transit projects, utilizing Bentley OpenRoads Designer for advanced modeling and ensuring compliance with FDOT standards. His background includes horizontal geometry, drainage design, ADA compliance, temporary traffic control, and traffic safety studies, along with extensive experience in traffic impact analysis, signal retiming, and simulation modeling using Synchro and Vissim. He has contributed to major projects, including the NW 84th Ave Reconstruction, SR-817 Widening, and Miami-Dade SMART Plan BERT, where he conducted traffic control analysis, microsimulations, and transit signal priority (TSP) optimization. Certified in Advanced MOT and as an IMSA Traffic Signal Technician, he is also a licensed drone pilot. David integrates innovative technology and data-driven solutions to enhance roadway safety, optimize traffic flow, and improve transportation infrastructure.

Florida Department of Transportation (FDOT) District 4, SR-817/ University Dr Widening from Nova Dr to SR-84. This project consists of the widening of one lane along approximately 0.5 mile of SR-817/University Drive from south of Nova Drive to SR-84. This project includes the addition of a choice lane and the widening of the on-ramp by one lane, connecting to I-595. Bike lanes and shared-use path modifications will be included within the reconstruction. David is responsible for assisting with the roadway and drainage design and the development of Temporary Traffic Control Plans (TTCPs). *Location: Davie, FL. Dates: 2022–2024. HBC Fee: $1.75M. Reference: Adham Naiem, PE, (954)-777-4440, adham.naiem@dot.state.fl.us. FM# 445624-1-32-01,* Contract No.: CAI67

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NW 84th Ave Reconstruction from NW 58th St to NW 74th St Design-Build. David is serving the role of lead project engineer intern responsible for the development of roadway and drainage engineering plans. This project involves the reconstruction of 1 mile of existing two-lane roadway to expand it into a 4-lane roadway with Two-Way Left-Turn Lane (TWLTL), where Right-of-Way is available. The overall design effort includes the design of new closed drainage conveyance systems, connection to existing outfall and stormwater retention facilities, replacement of existing CMP culverts to RCP culvert crossings, and designing a new stormwater management facility to compensate for the additional impervious areas. *Location: Miami-Dade County, FL. Dates: 2022–Ongoing. Contract No.: DB21-DTPW-04. HBC Fee: $7M. Reference: Alejandro Sauleda, (305) 375-4866, alejandro.sauleda@miamidade.gov.*

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), Northeast Corridor FTA Categorical Exclusion Data Collection. David assisted with all data collection tasks for this project, which involved evaluating impacts of

7 Years of Experience

Years with HBC
6 years

Education
B.S. in Civil Engineering, Florida International University (12/08/2018)

Registration(s)
EI (FL) No. 1100023530 (6/26/2020)

Licenses & Certifications
TTC Advanced #57886

IMSA Traffic Signal Technician Level 1

Certified Drone Pilot

Bentley OpenRoads 3D Modeling

Synchro and Vissim Simulations

Expertise
Roadway design, traffic engineering, traffic safety studies, signalization, maintenance of traffic (MOT), temporary traffic control, traffic simulation, data collection, drainage design.

implementing 13.5 miles of new commuter rail service. He was responsible for overseeing and preparing traffic data collection and performing safety analysis over an initial four month period (with supplemental intersections later added) for 76 study intersections, including Turning Movement Counts (TMCs), 292 72-hour approach volume counts, traffic signal, pre-emption, and geometric data, field review of existing conditions, queuing data, Spot Speed studies at 36 locations, and safety analysis for 52 state road intersections. *Location: Miami-Dade County, FL. Dates: 2022–Ongoing. Reference: Morteza Alian, Morteza.Alian@parsons.com, (305) 507-3843*

Florida Department of Transportation (FDOT) District 6, Districtwide Traffic Operations Studies Contract for SR-959/Red Rd/SW 57th Ave at SW 19th St. This project evaluated the feasibility of installing a pedestrian crosswalk and determining recommendations for potential improvements in response to citizen complaints at the study intersection. David performed data collection for this project, which involved 72-Hour traffic volume approach counts, 8-Hour Turning Movement Counts, and vehicle gap measurements. He also performed safety analysis for the location, pedestrian evaluation and analysis, and provided recommendations based on the the FDOT Traffic Engineering Manual (TEM). *Location: Miami-Dade County, FL. Dates: 12/2020–01/2021. Reference: Xaviel Llerena, (305) 470-3935, Xaviel.Llerena@dot.state.fl.us. FM# 249796-9-32-01,* Contract No.: CA 139

Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NW 25th St Reconstruction from NW 117th Ave to NW 87th Ave. This project consists of the full reconstruction of approximately 3.0 miles of the existing roadway from a 4-lane road to a 6-lane road with raised median, sidewalk on the south side, shared-use path on the north side with the appropriate structural supporting system for the path, due to widening into the North Line Canal, curb & gutter, stormwater drainage system, signing and pavement marking, traffic signalization, roadway lighting, environmental permitting, and construction administration. David is responsible for the drainage design, analysis, and permitting of the proposed roadway widening improvements. *Location: Miami, FL. Dates: 2019–Ongoing. Reference: Alejandro Uribe, PE, (305) 908-3935, auribe@gfnet.com.*

Florida Department of Transportation (FDOT) District 6, SR-25/US-27/Okeechobee Rd Transportation Management Plan (TMP). David assisted with all traffic engineering tasks for this project, which involved coding the VISSIM microsimulation model for the corridor, including all detour and diversion routes. He also assisted with the Synchro Analysis of the project corridor. Four microsimulation scenarios were tested: base model, during construction no closure, 1 lane closure, and full closure. This required balancing traffic, determining the traffic growth rate over the course of construction, generating AM and PM models for each scenario, and optimizing the signal timing for each scenario. Smart Work Zones were identified, based on the dynamic assignment of the models. *Location: Miami, FL. Duration: 2019–2020. Reference: Bao-Ying Wang, PE, (305) 470-5211, Baoying.Wang@dot.state.fl.us. FM# 423251-2-32-01,* Contract No.: C9R91

Florida Department of Transportation (FDOT) District 6, Hialeah Freight Study. The Hialeah Freight Study was part of a regional planning effort to facilitate freight movement in Miami-Dade County. FDOT District 6 investigated freight corridors within the City of Hialeah and surrounding areas, to develop a plan of alternatives that enhance freight connectivity and minimize transportation conflicts. David's primary responsibility was data collection. This effort included AM peak, Mid-day peak, and PM peak weekday Turning Movement Counts (TMCs) at 29 intersections. The counts were conducted at all movements for each intersection, including special movements, such as fly over ramps, utilizing Miovision Scout cameras. Data collection also included volume and full vehicle classification, including pedestrians on crosswalks and bicyclists on the road. *Location: Hialeah, FL. Dates: 3/2019–4/2019. Reference: Michael Wahlstedt, PE, PTOE, (816) 329-8600, MRWahlstedt@transystems.com.*

Claudia Bustamante, MS, PE

Signing, Pavement Marking and Channelization

21 Years of Experience

Years with HBC
5 years

Education
M.S. in Civil Engineering, University of Central Florida (2017)

B.S. in Civil Engineering, Universidad Del Cauca Colombia (06/11/2004)

Registration(s)
PE (FL) No. 87381 (06/01/2019)

Licenses & Certifications
Advanced MOT - # 32203
DOT & LTAP Specifications Package
GeoPAK
MicroStation
Autoturn
CADD
3D Modeling

Awards and Recognitions
2024 ASCE Engineer of the Year

Expertise
Transportation engineering, roadway design, signing and pavement marking, signalization, temporary traffic control (TTC), project development and environment (PD&E) studies, traffic operations

Claudia specializes in several aspects of transportation engineering, and transportation planning including roadway design, Signing & Pavement Marking (S&PM), channelization, signalization, Temporary Traffic Control (TTC), and Project Development & Environment (PD&E) studies. She has worked for the private sector, as well as various municipalities and FDOT Districts 4 & 5. She has over 20 publications in Transportation and has been affiliated with several organizations, such as the American Society of Civil Engineers (ASCE), Institute of Transportation Engineers (ITE), Women in Transportation Seminar (WTS), Transportation Research Board (TRB) AN20, ANB20, and ANB10 Committees. Claudia has participated on numerous projects as a Project Manager, performing various tasks on projects involving geometric designs, 3D modeling, plans production, S&PM, plans revision, PD&E studies, transportation alternatives, pavement designs, and Temporary Traffic Control Plans (TTCPs).

Broward County Public Works Department, School Zone Flasher Improvements Project (Elementary Schools). Project Manager and Engineer of Record for developing school zone flasher improvement designs for two Broward County schools: Broward Estates Elementary School and Oakridge Elementary School. The project aimed to mitigate vehicle speeds, ensure compliance with school zone speed limits, and enhance pedestrian safety. The design scope included records research, signalization, signing and pavement markings, utility coordination, Subsurface Utility Engineering (SUE), permitting, and public notification. As Project Manager and Engineer of Record, she was responsible for overseeing all aspects of the design improvements. *Location: Broward County, FL. Dates: 2022–2023. Reference: Eduardo Martin, (954) 270-3387, emartin@broward.org.*

Florida Department of Transportation (FDOT) District 4, SR-7/US-441 from SR-870/Commercial Blvd to Bailey Rd/NW 62nd St. Claudia was the Project Engineer Consultant responsible for assisting FDOT District 4's in-house Roadway Design Team. The design included roadway milling and resurfacing, coordination for pedestrian signals, lighting retrofits, roadway ADA ramps, high-emphasis crosswalks, sidewalk/bike lane construction, widening, and flexible pavement design. The design also included horizontal and vertical geometry, in compliance with the FDOT Design Manual (FDM) and ADA guidelines, to ensure safety. Claudia's responsibilities involved preparing a 3D model for the proposed design, to develop cross sections for the required earthwork and construction quantities for the proposed roadway widening and sidewalk improvements. The scope of services also included drainage improvements, signing and pavement marking, signalization, pavement design, utility coordination, public involvement, project management, and QC coordination. *Location: Broward County, FL. Dates: 2021–2022. FM No.: 443845-1. Reference: Jamie Polidora, PE, (954) 777-4633, jamie.polidora@dot.state.fl.us.*

Claudia Bustamante, MS, PE

Florida Department of Transportation (FDOT) District 4, SR-809/Military Trail at Forest Hill Blvd. Project Engineer who assisted as a consultant in the In-house Roadway Design team in FDOT District 4. The design included roadway milling and resurfacing, coordination for pedestrian signals, lighting retrofits, roadway ADA ramps, high emphasis crosswalks, and sidewalk/bike, lane construction, widening and flexible pavement design. This included horizontal geometry and vertical geometry in compliance to the FDM and ADA guidelines to ensure safety. Responsibilities also extended to preparing a 3D model for the proposed design to develop cross sections for the required earthwork and construction quantities for the proposed roadway widening and sidewalk improvements. Also included drainage improvements, signing and pavement marking, signalization, pavement design, utility coordination, public involvement, project management tasks and QC coordination. *Location: Palm Springs, FL. Dates: 2021–2022. Reference: Jamie Polidora, PE, (954) 777-4633, jamie.polidora@dot.state.fl.us.*

Miami-Dade County Department of Transportation & Public Works (MDC-DTPW), Design-Build Services for Roadway Signs in the Vicinity of Metrorail Stations. S&PM Engineer for developing signing and pavement marking plans as part of the Miami-Dade County Department of Transportation & Public Works (MDC-DTPW) Design-Build Services for Roadway Signs in the Vicinity of Metrorail Stations project. This project involves the installation of roadway signs at multiple locations across Miami-Dade County to enhance wayfinding and guide motorists toward Metrorail stations. Responsibilities include designing regulatory and directional signs, developing pavement marking layouts, and preparing Temporary Traffic Control Plans (TTCPs) to ensure safe and efficient implementation. All designs comply with MDC-DTPW and FDOT standards to optimize visibility and roadway operations. *Location: Miami-Dade County, FL. Dates: 2023–Ongoing. Contract No.: DB21-DTPW-08. HBC Fee: $300K. Reference: Alejandro Sauleda, (305) 375-4866, alejandro.sauleda@miamidade.gov.*

Miami-Dade County Department of Transportation & Public Works (MDC-DTPW), NE 2nd Avenue Reconstruction from NE 20th Street to NE 36th Street Design-Build. S&PM Engineer for developing signing and pavement marking plans as part of the Miami-Dade County Department of Transportation & Public Works (MDC-DTPW) NE 2nd Ave Reconstruction from NE 20th St to NE 36th St Design-Build project. This 1.09-mile roadway reconstruction expands the existing two-lane roadway to include a Two-Way Left-Turn Lane (TWLTL) and 6-foot buffered bike lanes in each direction to enhance multimodal connectivity and safety. Responsibilities include designing regulatory, warning, and guide signs, developing pavement marking layouts for lane assignments and bike facilities, and ensuring compliance with MDC-DTPW and FDOT standards to optimize roadway operations and safety. *Location: Miami-Dade County, FL. Dates: 2022–Ongoing. Contract No.: DB21-DTPW-02. HBC Fee: $13.7M. Reference: Alejandro Sauleda, (305) 375-4866, alejandro.sauleda@miamidade.gov.*

Miami-Dade County Department of Transportation & Public Works (MDC-DTPW), NW 84th Avenue Reconstruction from NW 58th Street to NW 74th Street Design-Build. S&PM Engineer for developing signing and pavement marking plans as part of the Miami-Dade County Department of Transportation & Public Works (MDC-DTPW) NW 84th Ave Reconstruction from NW 58th St to NW 74th St Design-Build project. This 1-mile roadway reconstruction expands the existing two-lane roadway to a four-lane configuration with a Two-Way Left-Turn Lane (TWLTL), where Right-of-Way is available, improving traffic operations and capacity. Responsibilities include designing regulatory, warning, and guide signs, developing pavement marking layouts for lane assignments and multimodal facilities, and ensuring compliance with MDC-DTPW and FDOT standards to enhance roadway safety and efficiency. *Location: Miami-Dade County, FL. Dates: 2022–Ongoing. Contract No.: DB21-DTPW-04. HBC Fee: $7M. Reference: Alejandro Sauleda, (305) 375-4866, alejandro.sauleda@miamidade.gov.*

Ynaja Juste, EI

Signing, Pavement Marking and Channelization

9 Years of Experience

Years with HBC
5 years

Education
B.S. in Civil Engineering, Florida International University (05/07/2016)

Registration(s)
EI (FL) No. 1100023151 (10/29/2019)

Licenses & Certifications
FDOT Intermediate Maintenance of Traffic (MOT), Florida - No. 53983

TTC Advanced # 620323

Expertise
Traffic engineering, data collection, traffic impact analysis, safety analysis, signing and pavement marking (S&PM), intersection capacity analysis, microsimulation modeling, wayfinding design, bicycle and pedestrian planning, transportation planning.

Ynaja specializes in traffic engineering, signing and pavement marking design, and channelization planning, with expertise in data collection, traffic impact studies, and operational analysis. He has contributed to projects for Miami-Dade County, Palm Beach County, and the Florida Department of Transportation (FDOT), including corridor assessments, bridge rehabilitation studies, and multimodal improvements. His skills include intersection capacity analysis, safety studies, microsimulation modeling, and developing wayfinding and traffic control plans. Proficient in Synchro, VISSIM, and AutoCAD, Ynaja is dedicated to enhancing roadway safety and efficiency through data-driven solutions.

City of Hollywood, Johnson St from North 30th Rd to North Dixie Hwy Complete Streets Project. Ynaja assisted with data collection efforts for this project, part of an effort to evaluate a selected alternative as part of a PD&E study for reconstructing Johnston Street from North 30th Road to North Dixie Highway to accommodate a new interconnected sidewalk on one side of the street, new lighting, fully reconstructed two-lane two-way roadway with a center turn lane, new transit bus stops, and new drainage system within the existing Right of Way (ROW). This project involved Turning Movement Counts, 72-Hour Volume Counts, Gap Data, and Speed data collection for traffic operations analysis. *Location: Broward County, FL. Dates: 2023–Ongoing. Reference: Luis Lopez, PE, (954) 921-3925, llopez@hollywoodfl.org.*

Florida Department of Transportation (FDOT) District 4, Districtwide Traffic Operations Studies – Districtwide Ped/Bike Data Collection. Ynaja served as a Data Collection Lead for the Districtiwde Ped/Bike Data Collection effort, which involved collecting bicycle and pedestrian data at 14 locations throughout Palm Beach, Indian River, and Broward Counties. Ynaja coordinated all data collection efforts, identified equipment setup locations, carried out equipment installation and breakdown, performed remote monitoring of equipment, and processed and furnished collected data. Pedestrian and bicycle data for this effort was collected and provided to the Department over the course of a four-week period. *Location: Palm Beach County, Indian River County, & Broward County, FL. Dates: 3/2021–4/2021. Reference: Ravi Wijesundera, (954) 535-5153, Ravi.Wijesundera@kimley-horn.com. FM No.: #230094-6-32-01*

Florida Department of Transportation (FDOT) District 4, FL, SR-7/US-441 Transit Corridor Improvements Group/Priority 2 between Orange Drive and the New River Greenway and SR-838/Sunrise Boulevard from SR-7/US-441 to NW 31st Avenue Task Order 3. Ynaja served as the Project Engineer tasked with developing the Signing and Pavement Marking plans for the project which involved designing a shared-use path that runs alongside SR-838, also known as Sunrise Boulevard, stretching from SR-7/US-441 to NW 31st Avenue. Ynaja's role was crucial in ensuring that all plans were meticulously designed to meet the current standards and specifications set forth by the Florida