

HBC Engineering Company

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Qualifications **DBE MBE SB**

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
PNC2120376P1--01-01	Consulting Services for Pine Island Road from Griffin Rd. to Nova Drive.	Supplier Product Code:	First Offer -	1 / project	Y	Y
					Supplier Total	\$0.00

HBC Engineering Company

Item: **Consulting Services for Pine Island Road from Griffin Rd. to Nova Drive.**

Attachments

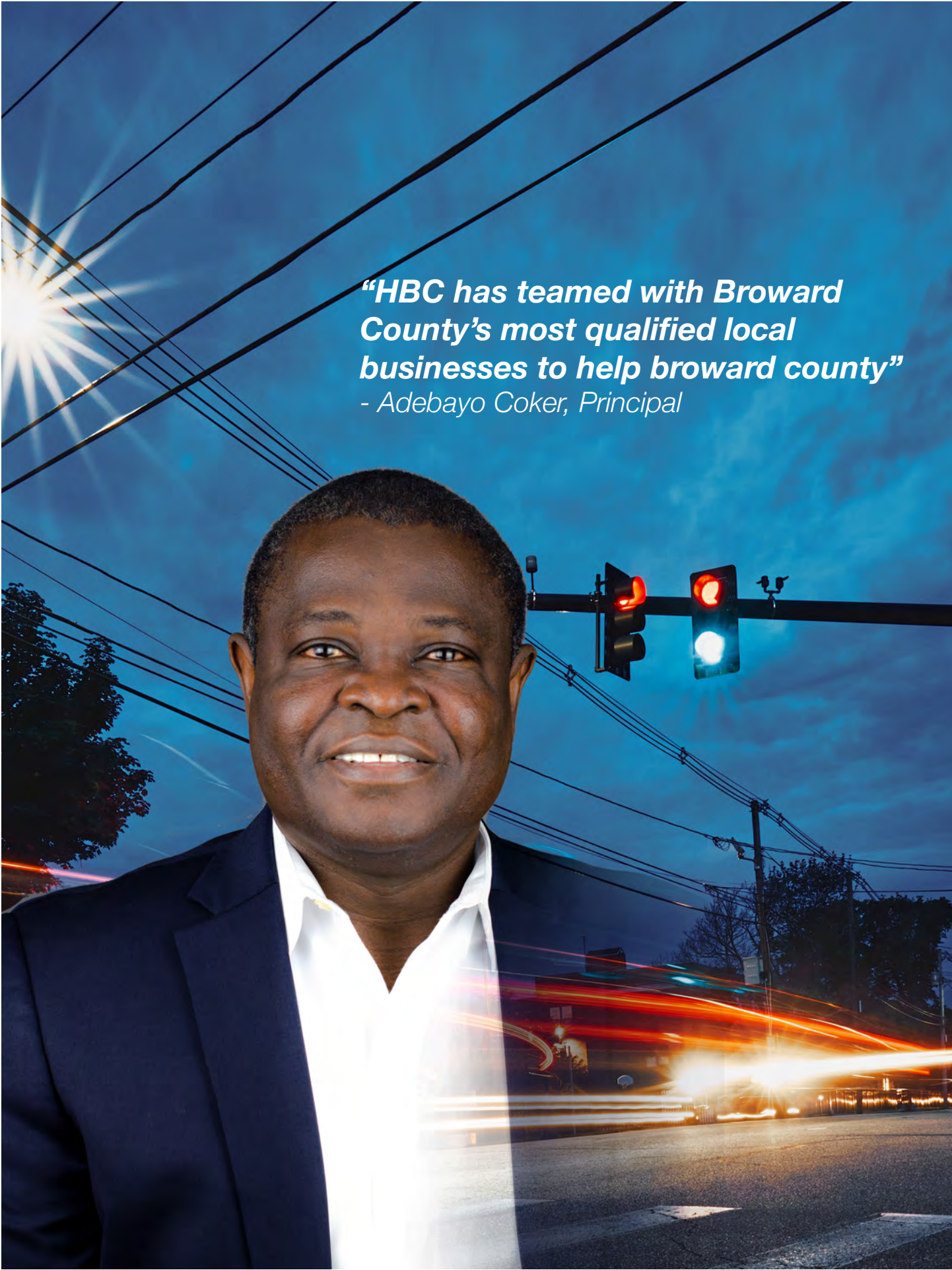
HBC Engineering Pine Island Proposal_Final.pdf



PNC2120376P1

Consulting Services for Pine Island Road from Griffin Road to Nova Drive.





***“HBC has teamed with Broward
County’s most qualified local
businesses to help broward county”***
- Adebayo Coker, Principal

Table of Contents

Letter of Interest

TAB 1 - *Ability of Key Personnel*

TAB 2 - *FDOT Pre-qualification*

TAB 3 - *Project Approach*

TAB 4 - *Past Performance*

TAB 5 - *Workload of the Firm*

TAB 6 - *Location*

TAB 7 - *Willingness to Meet Time and
Budget Requirements*

TAB 8 - *Volume of Previous Work*

Forms



Dear distinguished Selection Committee Members,

HBC Engineering Company (HBC) and our team partners, are pleased to submit our proposal for the Consulting Services for Pine Island Road from Griffin Road to Nova Drive, Solicitation PNC2120376P1. HBC has been providing quality design services in Broward County since 2009 and in that time have successfully delivered numerous roadway improvements projects including major and minor reconstruction projects throughout the County. We offer Broward County a multidisciplinary team of highly qualified professionals to provide holistic transportation design solutions to the engineering challenges of this contract.

HBC ENGINEERING COMPANY IS A LOCAL BROWARD COUNTY CBE

HBC is a Florida-based multi-disciplinary consulting firm specialized in Civil and Transportation Engineering, including Traffic Engineering, Highway, Drainage, Signalization, Signing, Pavement Marking and Channelization, Lighting, Constructability Review, Planning, Parking Solutions and Utility Coordination. HBC's resources include over 45 employees all based in the Tri-County area and many as residents and working in Broward County. HBC and its professional staff have a long history of successfully providing similar services to various agencies and municipalities throughout Florida with a focus on Broward County, Miami-Dade County, and FDOT Districts 4 and 6. Our Broward office is located at 5200 NW 33rd Avenue, Ste 211, Fort Lauderdale, Florida 33309.

COMMITMENT TO BROWARD COUNTY

All the firms that make up the HBC team have local offices or are headquartered in Broward County. We are familiar with county standards, local ordinances, and procedures to accomplish the widening of Pine Island Road from four to six-lanes with bicycle lanes and sidewalks. Our experience with roadway design, combined with the due diligence we have performed to understand the critical challenges associated with this project makes us the ideal team to help you accomplish your vision for the widening. This knowledge along with the initial investment we have made to develop viable widening alternatives makes HBC the ideal team for this contract and assures Broward County an engineering consultant firm that is ready to begin work on day one.

THIS PROJECT IS A PERFECT FIT FOR OUR EXPERIENCE

HBC Engineering Company (HBC) has a wealth of experience in projects like this one. HBC was recently selected by the Miami-Dade Department of Transportation and Public works, as part of a design-build team, to design the almost 1-mile roadway improvements to NE 2nd Avenue from NE 69th Street to NE 84th Street. The design efforts included identical components to this project, i.e., roadway design, drainage, lighting, signalization, landscaping, MOT, and public involvement. The drainage system design using ICPR modeling included 2,162 linear feet of French Drain and more than 125 interconnected drainage structures. HBC was responsible for the report and permitting.



This project also included widening and reconfiguration design of over 5,000 feet of four lane roadway, addition of bike lanes, street parking, pavement reconstruction, curb and gutter repairs, sidewalk reconstruction, new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, signing and pavement marking, and the preparation of Temporary Traffic Control Plans. The HBC staff that delivered this effort is the same staff allocated to this project.

Another project that included similar project issues is the SW 147th Avenue reconstruction from SW 17th Street to SW 26th Street. The Miami-Dade Parks and Recreation Department selected HBC as prime consultant to prepare the roadway design, construction documents and specifications, post design and construction administration. Services included horizontal and vertical geometry, milling and resurfacing, widening, roadway reconstruction, sub-soil excavation, ADA ramp upgrades, drainage design, sidewalk construction and repair, drainage, MOT, and signing and pavement marking. In addition, the project required extensive coordination among DERM, SFWMD, and USACE for permit, and with WASD for water main relocation.

We have included details of projects with similar issues and characteristics in TAB 4 - Past Performance of this proposal. We have also developed a design schedule for this project that is based on our experience on similar projects that have been successfully designed and constructed. Additionally, to expedite the design process we have performed our due diligence including field measurements and relevant document reviews and we have discussed in detail the proposed typical section, design challenges and their solutions for the project under TAB 3 – Project Approach.

HBC has provided engineering services for other clients in South Florida, including:

Northeast Transit Hub Enhancements at the 163rd Street Mall. This project for Miami-Dade Transit featured full roadway reconstruction with new drainage, lighting, signing and pavement marking, sidewalk, ADA ramps, bus shelters, bike racks, trash receptacles, pedestrian lighting, bike lane, and landscaping. Included civil/site design, utilities coordination, and MOT.

SR 7/ US 441 Transit Corridor Improvements Group/ Priority 1. FDOT retained HBC to provide design services to enhance the corridor's transit passenger, bicycle and pedestrian experience through mobility and to improve safety. Elements included development of CAP, general roadway and drainage reviews, signing and pavement marking, utilities and permit coordination, pedestrian signal and lighting enhancements, sidewalk and bicycle lane and landscape enhancements.

SR 858/ Hallandale Beach Boulevard from SR 7 to Lakeshore Drive. HBC was selected by FDOT to provide design and other services on over 10,000 feet of roadway. Scope of work included oversight of master plan preparation, design and construction documents, ADA ramp and sidewalk upgrade, widening of the existing shoulder, bicycle lane, grass swale, drainage analysis and design to address existing flooding conditions, new signing and pavement marking, and signalization replacement. Coordinated R/W requirements and Public Involvement.



Hollywood Gardens Sidewalk Project. HBC was retained to provide engineering services for FDOT within the Broward County MPO Complete Streets initiative. Scope of work included utilities coordination, drainage report, new sidewalk design, landscape coordination issues, design of bike lanes and shared lanes.

Miami Central High School. Provided the design and preparation of a complete set of construction documents and technical specifications for the installation of a traffic signal on a proposed drop-off-lane. Scope of work included design, specifications, permitting, utility coordination, dry run permitting, data collection, MOT, and construction assistance.

Traffic Circulation Plan Study Shed B – Port of Miami. HBC was retained by the Port of Miami to engineer a conceptual plan that would alleviate frequent traffic challenges at the North Cruise Boulevard and Africa Way intersection due to the way traffic merged from Garage C, Cruise Terminal B and C, and the CVIS tent directly before Shed B. Design concepts were to be in compliance with the Manual of Uniform Traffic Control Devices (MUTCD), the FDOT Design Standards, the Manual of Uniform Minimum Standards for Design, Construction and Maintenance (Florida Greenbook) for Streets and Highways, and the Miami-Dade County Public Works Manual and Specifications.

I AM YOUR PROJECT MANAGER AND I AM COMMITTED TO YOUR PROJECT

I will be your contract manager for this project, and you have my personal commitment that our team will work alongside with Broward County's staff to achieve your goals. Our office is conveniently located just a few minutes away from your office which facilitates personally attending any meetings required to resolve critical issues to keep the project on schedule and budget.

My principal areas of practice are roadway design, drainage design, and other related components such as pavement markings and channelization, signalization, traffic control, and construction administration. I have managed roadway projects for Miami-Dade County, Miami-Dade Expressway Authority (MDX), Florida Department of Transportation, Florida's Turnpike Enterprise, and numerous South Florida municipalities. With almost 28 years of engineering experience, I am fully vested in the outcome of this very important project.

HBC's COMMITMENT TO OUR LOCAL TEAM PARTNERS

HBC's team partners were selected for their experience and knowledge in the area and their track record providing quality projects for Broward County. HBC is a Broward CBE firm and thus as prime will more than exceed the CBE goal assigned to this project.



The HBC team includes:

Lakdas-Yohalem Engineering, Inc. (LYEI) - is a medium sized professional structural and civil engineering firm that has been in operation in Broward County since 1970. They provide Structural and Civil Engineering, Design and Inspection Services on several high-profile projects in the tri-counties, which includes mast arms, signage structures, light poles, bridges, drainage structures, marinas, and a whole range of other structural projects. They also offer threshold and site inspections, feasibility studies, design and condition survey of structures, restoration damage assessments, value engineering and constructability review.

GFA International, Inc. (GFA) – is a well-known geotechnical and construction materials testing engineering firm in South Florida. GFA owns and operates one of the largest and most diverse fleets of drilling equipment in the state. GFA's geotechnical engineers and geologists are skilled in defining and executing field exploration programs to provide cost-effective solutions to geotechnical challenges. GFA has extensive experience and a solid background providing Construction Materials Testing (CMT) Services to a large variety of clients, both public and private, including successful continuing service contracts with School Districts, Cities and Counties; as well as work with FDOT, SFWMD and the USACE. Their state-of-the-art laboratories boast new and innovative test equipment and are Construction Materials Engineering Council (CMEC) Certified, US Army Corps of Engineers (USACE) Validated and Florida Department of Transportation (FDOT) Qualified.

Archaeological and Historical Conservancy, Inc. (AHC) - is a Florida not-for-profit organization dedicated to the investigation and preservation of archaeological and historical sites across Florida and the Bahamas. In 1985, AHC began its first project with excavations at the Cutler Fossil site in Miami-Dade County, and subsequently has documented over 1000 sites throughout Florida. Projects have included investigations at the Miami Circle, Ten Thousand Islands, the Ortona Canals, Fort Pierce, Okeechobee Battlefield and Fort Van Swearingen. They are experts on prehistoric Florida and Seminole War sites. The Archaeological and Historical Conservancy conducts archaeological and historical assessments, surveys, investigations, excavations, and monitoring. These services are provided for public agencies, developers, businesses, and museums.

Andres Montero Landscape Architecture, LLC (AMLA) - is a Broward based Landscape Architecture firm located in Fort Lauderdale. Their team of talented professionals has over twenty-three years of experience in planning and landscape architecture at the highest levels of conceptual thinking and professional performance for urban design projects of various scales, residential communities, hotels, resorts, as well as private residences. They are used to collaborate with professionals from different fields to best integrate design into the sites and their surroundings. AMLA is Broward CBE certified and SBE certified with FDOT.



Premiere Design Services, Inc. (PDS) - is a Broward County locally based minority firm, established in 2007. The PDS professional staff brings over 100 years of combined experience. Their services include an in-house topographic surveying team, with the knowledge and capability to perform soft digs, engineering designers, and construction managers. PDS provides a wide range of engineering services, cost engineering and construction phase services in civil and transportation engineering. They can plan, design, and oversee construction of facilities to meet client's needs. Most important, they work closely with each client to make sure that their innovative and cost-saving solutions are tailored to their client's individual needs.

Dickey Consulting Services, Inc (DCS) - is a public/government relations consulting firm. DCS provides services to public and private enterprises by coordinating, implementing, and promoting projects related to transportation studies and construction, water and sewer infrastructure, airport expansion and noise mitigation, economic and community development, as well as other related initiatives. DCS provides guidance on development of effective partnerships and achieving collective objectives, working closely with administrators and elected officials to create, implement and promote projects. DCS performs liaison services on behalf of government officials by creating partnerships with the community, businesses and policymakers, before implementing proposed initiatives.

Cyriacks Environmental Consulting Services, Inc. (CECOS) – was formed in 2003 to provide high quality professional environmental and ecological consulting services. Wendy Cyriacks, with over 30 years of environmental experience in Florida, is president of CECOS and will be directly involved in this contract. CECOS provides a wide range of environmental and ecological consulting services including environmental permitting, environmental monitoring and permit compliance, NEPA documentation, sea-level rise analysis, and resilience studies. They are specialists in providing services for the Broward County Highway and Construction Engineering, Aviation, Port Everglades, FDOT and many others. CECOS is 100% Woman Owned Company and is certified with Broward County as a CBE.

HBC TEAM's QUALIFICATIONS AND COMMITMENT TO THE BROWARD COUNTY COMMUNITY

HBC Engineering Company provides a technically qualified team, with significant experience in:

- Traffic Engineering
- Highway Engineering
- Drainage
- Signalization
- Signing
- Pavement Marking and Channelization
- Lighting
- Utility Coordination
- Constructability Review
- Surveying
- Permitting
- Environmental
- Archeology
- Landscaping
- Public Information and Outreach



In addition to the above technical experience, the HBC team brings a blend of extensive understanding of the local and unique characteristics of this project, the local agencies, and Broward County's diverse community of stakeholders, all elements so important to this job.

Our team understands the one-off technical needs of this effort because we have successfully executed dozens of similar projects. We also understand the public needs and the importance to involve the residents and all stakeholders at the same time we deliver this project on time and within budget.

HBC is a local firm and vested with the interest to provide a successful project for the benefit of Broward County and its residents. Despite our long-term presence in Broward County as a local business, HBC wants to have a chance to demonstrate its capabilities and grow our presence with the Broward County government. HBC's staff and our local team partners have been residents of Broward for considerable time, will continue to live in Broward during the execution of this project, and will continue living in this community long after this project is done. We, HBC and team partners, have a vested interest in the success of this project because we know that the County's success will be our own success.

We hope that Selection Committee Members will see in this package that we fulfill and exceed all qualifications to have this project executed to your satisfaction, on time, and within budget. We hope you will realize how much we want to have a chance at demonstrating to Broward County our eagerness to deliver an outstanding product.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adebayo Coker".

Adebayo Coker, P.E.
Project Manager



TAB 1

Ability of Key Personnel



Ability Of Key Personnel

HBC is a Florida-based multi-disciplinary consulting firm specialized in Civil and Transportation Engineering, including Traffic Engineering, Highway, Drainage, Signalization, Signing, Pavement Marking and Channelization, Lighting, Constructability Review, Planning, Parking Solutions and Utility Coordination. HBC's resources include over 45 employees all based in the Tri-County area and many as residents and working in Broward County. HBC and its professional staff have a long history of successfully providing similar services to various agencies and municipalities throughout Florida with a focus on Broward County, Miami-Dade County, and FDOT Districts 4 and 6. Our Broward office is located at 5200 NW 33rd Avenue, Ste 211, Fort Lauderdale, Florida 33309.

The HBC team has significant design experience similar to the advertised scope of services. Our team is prepared to address the design aspects with an accelerated 18-months schedule as described in detail in Tab 7 – Willingness to Meet Time and Budget Requirements. We fully commit the key design experts and support staff as shown in the organizational chart from the start of the project to full acceptance by Broward County. The assigned key individual's experiences are highlighted below and further detailed in their respective resumes down below in this proposal.

HBC's team members were specifically selected for their experience and knowledge in the area and their track record providing quality projects for Broward County. HBC is a Broward County CBE firm and thus as prime will more than exceed the CBE goal assigned to this project.

Qualifications and Relevant Experience

Project Manager



Adebayo Coker, PE, has almost 28 years of responsible and diversified transportation engineering experience in the planning, design and construction management of major FDOT and Miami-Dade transportation projects. He successfully managed and demonstrated exemplary leadership and management skills on similar FDOT projects which included serving as an EOR. His particular areas of expertise are in production and management of all phases of transportation design projects including preliminary and final design of limited/controlled access highways and freeways; Signalization, Pavement Signing & Markings, MOT, Rural and Urban Resurfacing, Restoration and Rehabilitation (RRR) projects; Project Development and Environmental Studies; Traffic Operational Analysis; construction engineering inspection (CEI). He has managed and provided technical leadership on a number of public and private

sector projects. He has taken numerous projects from the planning phase through design, construction, and post design services. He has been responsible for coordination with clients, sub consultants, permitting agencies, between project disciplines, implementation of effective quality control and quality assurance plan (QA/QC), and the supervision of project personnel on major projects. He has led a team that offers redundancy in every staff category to ensure that adequate staff resources are available to the Department on large-scale TWO assignments, identifying goals, approved scope, budget, and schedule. He possesses the design expertise needed to produce innovative, feasible and cost-effective concepts and recommendations.

He also displays close relationships with staff and familiarity with FDOT policies and procedures that enables him to promptly respond to the Department's needs and exceed its expectations. Bayo has designed hundreds of roadway reconstruction and widening projects. Amongst his notable projects are the reconstruction of the NE 2nd Avenue from NE 84th Street to NE 91st Street in Miami-Dade County, SW 147th Avenue widening from 26th Street to 17th Street, NW 7th Ave. from NW 131st Street to NW 118th Street, the Dadeland South Parking Lot Expansion, I-595 Express Corridor Improvements Project, and the I-95 Rigid Pavement Rehabilitation Project from NW 103rd Street to NW 125th Street, in Miami-Dade County.

Principal-in-Charge



Fernando Craveiro de Sa, PhD, has more than 30 years of engineering, client service management, constructability review, area management and business development experience with large infrastructure projects including transportation in general, water, wastewater, coastal, ports, and marine projects. All of this experience has been with PCL Construction, CH2M HILL, The Shaw Group, and CB&I where he has held senior positions including Area Manager for Brazil, Latin America, Texas, South Florida, President and General Manager for Brazil operations, Client Service Manager and Business Development Director for the Coastal, Ports, and Marine Group. Dr. Craveiro has extensive engineering experience in Brazil, Argentina, Chile, Peru, Colombia, Honduras, other Latin American countries, Texas and South Florida. Typical client interface is with companies such as Miami Dade Water and Sewer Department, South Florida Water Management District, Vale and Petrobras. From a technical standpoint, he has been involved in a wide variety of infrastructure projects with different technical roles. Dr. Craveiro de Sa will serve as Principal-in-Charge and will oversee the Quality Control Review for this project.

Key Staff



Jose Lopez, PE, provides over 14 years of extensive civil engineering experience. Jose will lead the Highway Design and also the Signing, Pavement Marking and Channelization technical categories for this project. Jose has served as EOR for various FDOT projects including Districtwide efforts. He has managed and engineered the development of plans and specifications for civil projects involving site developments, storm drainage systems, paving, grading, water, sanitary sewer, erosion control, and utility relocations. He has prepared plans and led the construction management for educational, pharmaceutical, commercial, water and wastewater infrastructure, and residential sector projects. He also led public and private capital improvement projects from the design stage up to implementation ensuring compliance with quality, budget, time, and safety standards. Additionally, he has been responsible for coordination with clients, city personnel, sub-consultants, permitting agencies, contractors, and the supervision of project personnel on major projects.



Gregory A. Prytyka, PE has over 37 years of experience. Greg will lead the Traffic Engineering and Signalization technical categories. He has designed and managed projects in both client (FDOT) and consultant roles; as an employee of FDOT's Central Office, he participated in the development and implementation of statewide standards, criteria, procedures, and guidelines. Greg is a chief resource that has been relied on to provide training, technical advice and assistance to districts and their consultants on issues related to engineering and design policy, rules, criteria, standards, manuals, guidelines, and requirements. His role also involved utility coordination services which included identifying, evaluating, and resolving utility conflicts, communicating with Utility Agency Owners (UAO), creating a utility matrix, preparing a utility clear package, utility project file and documents. Greg was immersed in the latest research from FHWA, NCHRP, AASHTO, TRB, and others.



Orlando Penate, PE, provides over 13 years of experience. Orlando will lead the Lighting technical category for this project. His experience as a lighting design engineer includes production and management of all phases of lighting design projects including preliminary and final design working directly with project designs and directing junior engineers, designers, and CADD technicians to successfully execute and deliver project work, while implementing client focused strategies. Orlando has been the engineer of record for several high-profile and similar projects in the tri-county area, such as the Districtwide Pedestrian Lighting Retrofits on SRA1A/Collins Ave. from 18th Street to 65th Street in Miami-Dade County, and the NE 2nd Avenue Design-Build project from NE 69th Street to NE 84th Street. He has also been the QA/QC engineer responsible for reviewing Lighting Plans for the design phase of a 9.42 -mile for the Okeechobee Corridor Wide Design Support Services on SR 25/US 27/Okeechobee Road from Dade/Broward Countyline to SR-826.



Claudia Bustamante, P.E., has over 16 years of Civil and Transportation Engineering, and is specialized in several aspects of Roadway and Pavement Engineering including Signalization. She received her bachelor's in civil engineering degree at the Universidad del Cauca in Colombia, and a Master of Science in Civil Engineering, Transportation, at the University of Central Florida. She has worked for the private sector as well as FDOT District 5. Claudia is versed in Geopak, MicroStation, Autoturn, CADD, SAS, HSM, 3D Modeling, and other software. She has published in the area of Transportation and is affiliated to several organizations like the American Society of Civil Engineers (ASCE) or Women in Transportation (WTS). Claudia has also been a consultant to the Inter-American Development Bank (IADB) in Washington, D.C., and as such created, developed, supervised and monitored road safety projects for Latin America and Caribbean countries. More recently, Claudia has been part of projects as a Roadway Engineer, performing tasks including geometric designs, 3D Modeling, plans production, signing and pavement marking, pavement designs, quantities for FDOT and city projects.

A few of her most recent projects are: Multi-Lane Reconstruction and Bridge/Structural Design of State Road (SR) 75 (US231) from SR 30A (US98) to South of Pipeline Road in Bay County (FPID No. 217910-4-32-01; Wekiva Parkway (Section 8) From Orange Boulevard to East of Rinehart Road; City of Kissimmee Continuing Consultant Engineering.



Hernan Lugo, PE, has over 23 years of experience. Hernan will lead the Drainage Engineering technical category. He has extensive drainage design, roadway design, and plans review experience. Hernan Lugo has provided project and construction management for planning, design, and construction administration services on various types of public and private facilities throughout the country and abroad. He has more than 20 years of experience in the AEC industry that includes developing facility programs, site layouts, construction schedules and budget controls, recommendations, and specifications for new equipment. Hernan's experience also includes inspecting and servicing equipment for various types of maintenance facility projects.



Edgardo Diaz, PE, has over 33 years of substantial public works experience in transportation and utilities experience. Edgar will serve as a lead QA/QC engineer in Drainage, Traffic Control Plans, Signing and Marking Plans, and Signalization, ITS, and Lighting. In addition, he will be the Principal-in-Charge for this project. As a Civil Engineer, Edgardo has performed in various capacities that include task, discipline, project and construction management during conceptual, preliminary, final design, and construction of sites, utilities, bridges, roadways, rails, and tunnel projects. His experience was acquired while working on projects within the United States and the Caribbean. Prior to joining HBC, Edgardo served with Miami-Dade County as Project Manager and other consulting firms. He is responsible for overseeing the design and construction of various utility and roadway projects. He has successfully managed engineers, planners and technicians as part of project teams with the

purpose of developing design and construction plans/documents for utility projects and various types of roadway projects including interstate, arterial, and local roads. Edgar has worked on numerous high-profile projects, including:

Port of Miami Tunnel Public-Private Partnership (P3), MacArthur Causeway to Dodge Island for the FDOT. He was the Engineer of Record for the project design variations that required approval from FDOT's Central Office and FHWA.

I-595 Express Corridor Improvements. For this 11-mile project, Edgar was a Design Engineer for geometry, lighting, drainage, utilities and ITS disciplines.

North East Transit Hub Enhancements at 163rd Street Mall. For this project, Edgar performed roadway and site development for the reconstruction of NE 167th Street from NE 14th Avenue to NE 15th Avenue.

SR-713/Kings Hwy from Okeechobee Rd to N. I-95 Overpass. Edgar was engineer of record for the lighting design of approximately 3.3 miles of roadway construction.

Port of Miami Redevelopment, East and West Port Blvd, Miami-Dade County. Edgar was the Project Manager and scope of work included reconstruction of all the roadway corridors including geometry, drainage, signalization, and lighting system.

Edgar's principal areas of practice include project and construction management, roadway design, engineering studies, drainage design, storm water permitting, pavement design, utility coordination, maintenance of traffic, roadway lighting design, signing and pavement marking, traffic signalization, traffic planning, and public involvement.



Sonny Abia, Ph.D, P.E., MNSE, is a Florida Professional Civil Engineer with over 30 years of design/construction experience in several specialties including Highway/Roadway Design and construction, Building/structures Design, Building Inspections, Plans Production, Permitting, Land Development, Project and Consultant Management, Contract Administration, Cost Estimate, Plans Review and Specifications. Other specialties include extensive project management experience including bascule bridges, public outreach and training in Public Management, Statistical Analysis, process design and quality control, Projects Scheduling, coordination with Federal, State, and Local Agencies. Dr. Abia, P.E., has directed and overseen several highways and bridges design projects involving different types of permitting processes including construction within coastal line. Dr. Abia will cover QA/QC for Drainage Plans, Traffic Control Plans, Signing and Marking Plans, and Signalization and Lighting.



Jorge Rodriguez, PE (TX) - Mr. Rodriguez has over 49 years of industry experience. He has extensive civil engineering experience which includes 24 years as a structural engineer in Cuba. He has managed and engineered the development of plans and specifications for civil projects involving complex site developments, road design, storm drainage systems, paving, grading, water, sanitary sewer, erosion control, utility relocations, plats preparations and construction engineering inspection. He led multi-discipline design teams in the successfully delivery on a number of public and private sector projects. He has taken numerous projects from the planning phase through design, construction and post design services. He has been responsible for coordination with clients, FDOT, city staffs, sub consultants, permitting agencies, contractors, between project disciplines, implementation of effective quality control and quality assurance plan (QA/QC) and the supervision of project personnel on major projects. Jorge will lead the QA/QC efforts for this project.



David Chang, PE, has over 30 years of transportation engineering experience in highway and bridge construction, toll road construction, Construction Engineering and Inspection (CEI), construction project management and program management. David will lead the Constructability Review technical category. David's experience includes supervising CEI personnel, compliance with established budgets and time constraints, construction schedule and cost estimates, preparing budget and performance reports, construction materials testing oversight, Critical Path Method (CPM) Schedule Analysis, negotiating change orders and supplemental agreements, resolving disputes, interpreting contract drawings and specifications, constructability reviews, QA/QC audits, evaluating daily construction progress, participating in the Dispute Review Board process, meetings with contractors, and coordination with appropriate agencies.



Mr. Lakda Nanayakkara, P.E., has extensive experience in Civil and Structural Condition Survey, Design and Inspection and Construction Management of pump stations, parks, seawalls and bridges. He has successfully completed over 500 projects in South Florida and the Caribbean Basin during the last 47 years. He has also performed design & construction observation on civil, structural bridge and marine engineering services for a number of public entities and over 600 projects. Mr. Nanayakkara's experience extends design and construction observation of more than 64 residential, multi-residential, competed docks and seawalls. A total of 14 new fire stations and 18 park and amusement park facilities including 87 public schools, 6 city complexes, and 12 port cruise terminal facilities projects for a number of cities, county and private sectors in the tri-county area. His value-engineering experience has contributed to actual construction cost savings of over 2.8

million dollars in 16 value-engineering projects that he participated for in both Broward and Palm Beach County utility and public works department. He is a Member of Broward County Construction Executive Association and of the Florida Engineering Society Florida Chapter. He will lead Miscellaneous Structures. Services; SR 50 from West of CR 757 to the Sumter / Lake County Line; I-95 Interchange at Ellis Road/St. Johns Heritage Parkway (FIN No. 426905-3-32-01; Contract C9A33).



Fernando Fernandez - Mr. Fernandez is a Professional Land Surveyor with over 20 years of field data collection and surveying experience. In the HBC team, Mr. Fernandez will lead the Control Surveying technical category for this project. Mr. Fernandez currently serves as Professional Land Surveyor at Premiere Design Solutions, Inc. (PDS) and he is responsible for producing and certifying all surveying documents produced by the firm. Mr. Fernandez has served as a Professional Land Surveyor for professional engineering services work for several projects with the Broward County Transit Division (BCT). Mr. Fernandez's duties and responsibilities include producing certified surveys depicting existing conditions and property and right of way location for several bus stop locations throughout Broward County. Mr. Fernandez directs his crew to obtain information on marked utilities, gather field data, elevations and coordinates and then providing CAD drawings to engineers. Duties also include GPS location of point to tie bus stop locations to national DATUMS. Mr. Fernandez has completed surveys for transit improvements at more than 80 locations throughout Broward County.



Carlos Mercado, P.E., has over 26 years of Professional Engineering experience. As GFA's Delray Beach Branch Manager, Carlos is responsible for overseeing his staff, as well as all the work that is performed from the Delray office. Carlos's background as Geotechnical Engineer and Business owner provide for strong management skills and a valued approach to contract negotiation and execution. Mr. Mercado's project management experience includes transportation infrastructure projects, educational facilities, industrial facilities, port, aviation, commercial facilities, and multi-story condominiums. Mr. Mercado has also managed numerous geotechnical, pile driving, ground improvement, post-tensioning, and materials testing projects, as well as performed pre and post-construction structure conditions surveys.



Wendy Cyriacks - has over 30 years' experience in environmental analysis and impact studies, permitting and NEPA documentation. She will lead the Environmental discipline for this project and will oversee all environmental issues, including noise sensitive sites. She will interface with Bob Carr on documented human remains which were found in the project area in 2015. Wendy serves as Principal in Charge and/or Chief Scientist on large scale environmental projects. She has coordinated extensively with permitting agencies and has been responsible for obtaining state, federal and local environmental permits on numerous public sector projects. She has managed and/or conducted natural resource studies including wetlands, marine benthic studies, threatened and endangered species, and contamination assessments. She has also developed mitigation and monitoring plans, conducted permit compliance reviews and QA/QC reviews.



Susana Bernal - Ms. Susana Bernal has over 18 years of experience in performing Land Development Civil Engineering in South Florida. Solid expertise in civil engineering design including all aspects of site planning, grading and drainage, sanitary sewer collection, water distribution system design, roadway design, utility coordination, permitting and construction services; as well as project and contract administration. Ms. Bernal has performed senior level project oversight and management of multiple stages of the design and development processes for an array of projects from conceptual planning to final construction, including multi-family, commercial, roadway, utilities, aviation, education, healthcare, as well as affordable housing projects. Managed Broward County Water and Wastewater Services (BCWWS) continuing services contract that included multiple disciplined sub-consultants for the firm.



Robert (bob) Carr - is an archaeologist and the current executive director of The Archaeological and Historical Conservancy, Inc. He specializes in Southeastern archaeology, with particular emphasis on archaeology in Florida. He has also conducted fieldwork in the Bahamas. Bob Carr has been the principal investigator for numerous excavations and projects including archaeological assessment and data analysis of the Miami Circle; archaeological investigation of the Okeechobee Battlefield; Preachers Cave, Eluethera, Bahamas; Ortona Canal and Earthworks, Glades County; Long Lakes archaeological investigations; archaeological survey of Broward County and Miami-Dade County; and an archaeological survey of Okeechobee Lake. Carr has helped develop and improve upon archaeology conducted in Florida and the Bahamas. His work has spanned over several archaeological topics and he has developed expertise from the Native American Tequesta and their ancestors to Seminole War sites, such as Okeechobee.



Sheryl Dickey - Ms. Dickey is a community and economic development professional with more than 30 years of experience and a track record of success in these areas and has developed strong relationships within Broward County. She brings a high level of energy and the ability to participate in a leadership or team member role to ensure successful completion of a wide range of projects. Sheryl will provide guidance on development of effective partnerships and achieving collective objectives, working closely with the HBC team members, stakeholders, administrators and elected officials to create, implement and promote this important project.



Andres Montero - Mr. Montero has worked as a Land Planner and Landscape Architect. In this project Mr. Montero will assist the HBC team as the lead of Landscaping. During his career, Andres has been involved in all aspects of landscape architecture, ranging from large scale planning to detail design and has participated in numerous projects, many of which are located in the USA, China, Latin America and the Caribbean. Mr. Montero has extensive experience with all aspects of production and execution of landscape architectural projects, including conceptual design, preparation of permit drawings, specifications, cost estimates, project schedule, municipal regulations, planning and zoning policies and site plan approval processes.



Geira M. Pallotta - is an architectural designer and landscape architecture designer with 11 years of experience. She has completed several landscape design projects, programming and site analysis, data collection, research and project delivery. Mrs. Pallotta is a multi-talented professional which work aims at improving human settlements through place making, walk-ability, human scale centered design, landscape architecture and compact development. An outstanding problem solver who utilizes all resources to find the most cost-effective solution. She has participated in several high-profile projects in Broward County and elsewhere in Florida. She will assist Mr. Montero.



Mrs. Allison Glunt, E.I. has over 7 years of experience. Her areas of expertise are transportation engineering, traffic safety and Transportations Systems Management & Operations (TSM&O). Mrs. Glunt is a former employee of FDOT District 4, Traffic Operations – Arterial operations Manager. Based on her previous role, she is considered an expert in the field of TSM&O. In her role with The Department she managed all District 4 signal timing contracts, Traffic Operations research contracts, TSM&O general consulting contracts, TMC arterial operation contracts, and the TSM&O arterial operations program. In addition, Mrs. Glunt has reviewed TSM&O plan sets, prepared new FDOT TSM&O project requests, ana-

lyzed big data from the TSM&O arterial network, performed extensive public information outreach, and managed FDOT adaptive signal timing projects. In her role with HBC she has served as the Deputy Project Manager for the Okeechobee Road (US 27) Traffic Management Plan (TMP). This TMP analyzed seven overlapping projects along US 27 to ensure the traffic is handled appropriately during construction. Additionally, the TMP analyzed Work Zone ITS opportunities and recommendations for TSM&O activities as part of the traffic management during construction.



Dr. Moatz Saad has 7 years of experience. His areas of expertise are transportation engineering, traffic safety, traffic simulation, and connected and autonomous vehicles. He also has experience teaching courses of Transportation Planning, Traffic Engineering, and Highway Engineering. He conducted a safety and operational impact study of connected and autonomous vehicles at express lanes regarding market penetration rates (MPR) and lanes' configurations. In addition, he conducted a project for evaluating driving behavior at toll plazas and managed toll lanes. Dr. Saad also has experience with analyzing big data such as Microwave Vehicle Detection System data (MVDS) for traffic safety studies on expressways in Central Florida. Additionally, he has worked on a multitude of traffic safety projects concerning bicycle safety at intersections using crowdsourced smartphone data. He participated in studies related to the safety of alternative intersections in the U.S. He also worked on a study

for traffic and safety management in smart Mega Cities. Dr. Saad has multiple journal publications and several conference presentations. He is also a reviewer for several journals including Accident Analysis and Prevention Journal (AAP), Journal of Transportation Research Record (TRR), Journal of Transportation Engineering Part A, and Journal of advanced transportation. In his role with HBC, Dr. Saad is serving as a Traffic/Emerging Technologies Engineer. He has worked on the data processing and microsimulation modeling part of the Okeechobee Road (US 27) Traffic Management Plan (TMP).

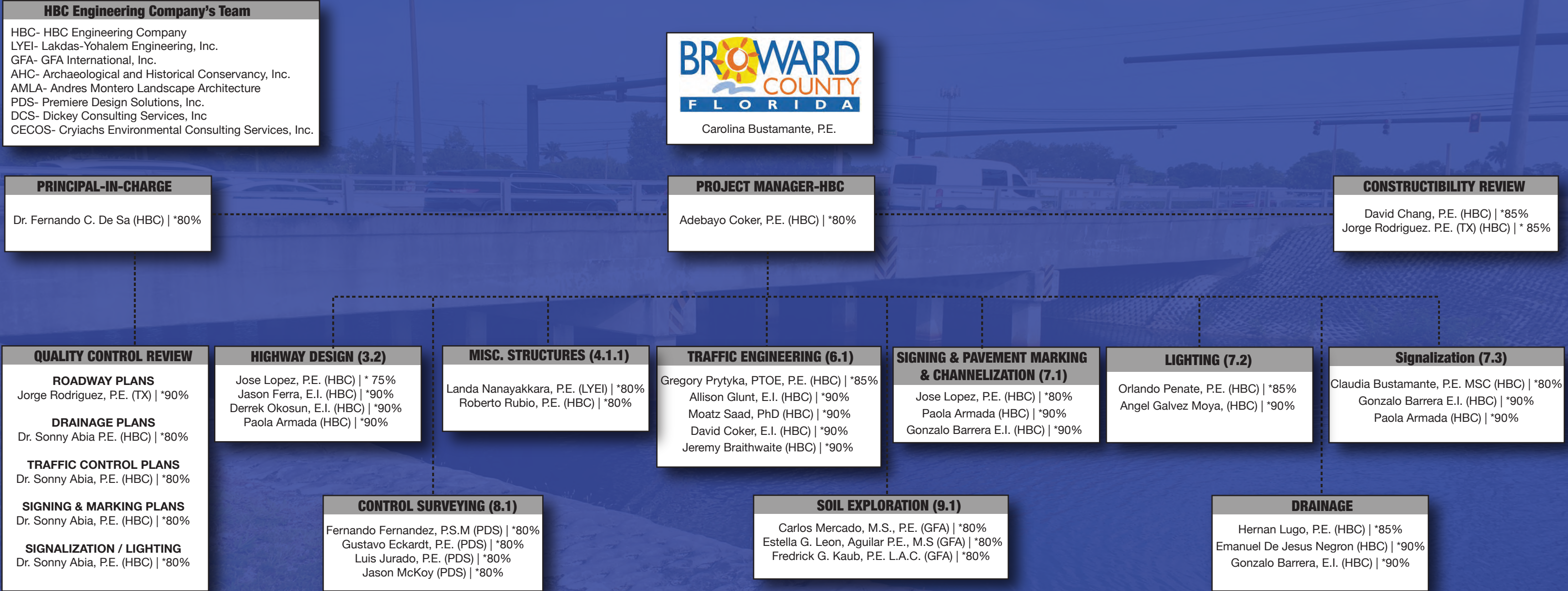


Frederick (Fred) G. Kaub, P.G. – Fred assumes overall responsibility for the leadership of professional Geotechnical and Engineering services for all GFA contracts as Principal-in-Charge. Mr. Kaub serves in the capacity of Executive Liaison to company clients. He is a graduate of Indiana University (White Star Endowment Scholarship Recipient) with a B.S. in Geology; is a licensed Florida Professional Geologist; and is co-founder of GFA International, Inc. He has served in the capacity of Expert Professional for the South Florida Water Management District and is professionally involved and active in the following associations: Professional Member of: Geotechnical Society of America, Association of Engineering Geologists, American Institute of Hydrology, National Association of Environmental Professionals, Florida Association of Environmental Professionals, and Florida Groundwater Association. Serving South Florida for over thirty-two years, Mr. Kaub has a clear understanding of South Florida geology.

ORGANIZATIONAL CHART

Broward County Board of
Consulting Services for Pine Island Road from Griffin Road to Nova Drive
PNC2120376P1

PNC2120376P1



Legend: * - Availability

ADDITIONAL SERVICES

UTILITY COORDINATION & ADJUSTMENT / UTILITY ADJUSTMENT
Edgar Diaz, P.E. (HBC)
Jason Ferra, E.I. (HBC)

ENVIRONMENTAL
Wendy Cyriacks (CECOS)
Timothy W.A. Ogle, MS (CECOS)

PERMITTING
Susana Bernal (HBC)
Hernan Lugo, P.E. (HBC)

ARCHEOLOGY
Robert Carr (AHC)

PUBLIC INFORMATION
Sheryl A. Dickey (DCS)

LANDSCAPING
Andres Montero PLS, ASLA (AMLA)
Geiry M. Pallotta (AMLA)



FERNANDO CRAVEIRO DE SA, PhD

PRINCIPAL-IN-CHARGE



HBC Tenure: 1 yr

Industry Experience: 30 yrs

Education:

Master of Science, 1985

PhD, 1991

Civil Engineering/

Environmental,

University of Texas at Austin,

TX

Indus. Environ. Engineering,
Fundação Armando Alvarez
Penteado,
Brazil, 1980

Bachelor of Science,
Civil Engineering,
Universidade de São Paulo,
Brazil, 1977

Master of Science,
Environmental and Sanitation
Engineering,
Delft, Holland, 1982

Qualifications:

Executive Leadership, 2001 -
Michigan University, MI

Mr. Craveiro de Sa has more than 30 years of engineering, client service management, constructability review, area management and business development experience with large infrastructure projects including transportation in general, water, wastewater, coastal, ports, and marine projects. All of this experience has been with PCL Construction, CH2M HILL, The Shaw Group, and CB&I where he has held senior positions including Area Manager for Brazil, Latin America, Texas, South Florida, President and General Manager for Brazil operations, Client Service Manager and Business Development Director for the Coastal, Ports, and Marine Group. Dr. Craveiro has extensive engineering experience in Brazil, Argentina, Chile, Peru, Colombia, Honduras, other Latin American countries, Texas and South Florida. Typical client interface is with companies such as Miami Dade Water and Sewer Department, South Florida Water Management District, Vale and Petrobras. From a technical standpoint, he has been involved in a wide variety of infrastructure projects with different technical roles.

KEY PROJECTS

Miami (2005-2009)

Client Service Manager and Senior Technical Consultant for the Miami-Dade Water and Sewer Department Water Master Plan Update.

As a team partner to another national consultant, Dr. Craveiro was responsible for the contract financial and technical performance, allocation of technical resources, and contributed to the project as an expert in water reuse and the mitigation of Emerging Pollutants of Concern. The team was successful in obtaining the Miami Dade Water and Sewer Department's Water Use Permit. This permit will guide the County for the next 20 years on management of its water resources, treatment, and reuse of its wastewaters.

Client Service Manager and Senior Technical Consultant, South District Wastewater Treatment Plant Renewal and Replacement Project for the Miami-Dade Water and Sewer Department.

Dr. Craveiro was responsible for the client's satisfaction, quality control, allocation of appropriate technical resources and also served as technical consultant on several issues including large sewage pumps, screening and grit removal and disposal system, primary clarification and scum handling, sludge thickening, co-generation, pure oxygen biological secondary system, high-level disinfection, effluent filtration, wastewater reuse, deep well injection, and operator training. Dr. Craveiro was also responsible for the allocation of tasks to several minority firms which were part of the team as well as overseeing their deliverables and quality of work.

Client Service Manager and Senior Technical Consultant for the Design of the Hialeah Preston Water Treatment Plant Upgrade for the Miami-Dade Water and Sewer Department.

Dr. Craveiro assisted the prime consultant during proposal preparation and procurement process. As a partner, Dr. Craveiro was responsible for the client's satisfaction, quality control, and overall performance of the project, allocation of technical resources, and as technical resource in water treatment and lime sludge disposal.

FERNANDO CRAVEIRO DE SA, PhD

PRINCIPAL-IN-CHARGE

Client Service Manager, Sunset Harbour Pressurized Drainage Wells, City of Miami Beach Public Works.

Dr. Craveiro was responsible for overall contract performance, including management of budget, schedule and client contact. Coordinated all activities between client, project manager, contractors, subcontractors, and internal company resources. Project included detailed design of pressurized injection wells to treat and dispose of stormwater runoff. Final design included developing mechanical and yard piping drawings, mechanical design calculations, and overall review of quality of deliverables.

Client Service Manager and Project Manager, Normandy Shores Right-of-Way Improvement Program, City of Miami Beach Capital Improvement Office.

Dr. Craveiro was responsible for overall contract performance, including management of budget, schedule, and contact with the Miami Beach Capital Improvement Office. Coordinated all activities between client, contractors, subcontractors, and internal company resources. This Normandy Shores right-of-way capital improvement project included a variety of streetscape and stormwater upgrades.

Client Service Manager, Bayshore Right-of-Way Improvement Program, City of Miami Beach Capital Improvement Office.

Dr. Craveiro was responsible for overall contract performance, including management of budget, schedule, and client contact. Coordinated activities between client and project manager. The Bayshore right-of-way improvement projects included a variety of streetscape, waterline, and stormwater improvements.

Client Service Manager, Normandy Shores Golf Course, City of Miami Beach Capital Improvement Office.

Dr. Craveiro was responsible for overall contract performance, and client contact. Project included hydraulic calculations and pumps selection, piping, and control structures for detailed design of pressurized injection wells to treat and dispose of stormwater runoff.

Texas (2003-2005)

Client Service Manager and initial Project Manager, Rehabilitation of the Collection System and Lift Stations, City of Pharr - South Texas.

Dr. Craveiro was responsible for the client's satisfaction, quality control, allocation of appropriate technical resources to the project and also served as technical consultant on several issues

including lift stations and collection systems. Rehabilitation of the system will be achieved through system modeling and detailed design of lift stations and collection system that will address the need for system capacity expansions and collection piping re-routing. This will also result in significant reductions in operational costs since the proposed re-routing will eliminate more than 20 lift stations.

Client Service Manager and Project Manager, Water and Wastewater Rate Analysis for the City of Pharr, Rio Grande Valley - South Texas.

As project manager, Dr. Craveiro leveraged technical resources to elaborate a rate study that presented a series of alternative rate structures and capital improvement phasing schemes to meet the revenue requirements of the City's water and wastewater system for the next 20 years.

Client Service Manager, Cibolo Creek Municipal Authority (CCMA), Texas.

Senior consultant, client contact, and technical resource for two projects with CCMA. Both projects went from conceptual to detail design and construction. One is a force main and lift station and the other is the expansion of the Odo J. Riedel Wastewater Treatment plant.

Senior Consultant for Confidential Client, Singapore:

At the request of a client from Singapore, organized and joined as senior consultant on a technical 2-week tour to Brazil to investigate technologies for the treatment of domestic wastewater for Water Reuse. Their mission was to investigate recent advances in the use of the UASB technology used in warm climate countries for the treatment of domestic wastewater and its potential application in Singapore for treatment of reclaimed water to a level suitable for potable consumption. This technology has potential application in the Southeast Florida area and has sparked the interest of Miami-Dade County officials.

Seattle (1991-1993)

Project Manager, Boise Cascade Corporation West Tacoma Mill, Washington.

Dr. Craveiro assisted with the evaluation of alternatives, preliminary and detailed designs for interfacing the wastewater treatment plant with installation of a processing unit for using recycled paper as raw material.

FERNANDO CRAVEIRO DE SA, PhD

PRINCIPAL-IN-CHARGE

Project Manager, Fleishmann's Yeast, Inc., Washington.

Dr. Craveiro provided technical assistance for an industry in identifying the effects of its industrial wastes in the problems of operating the municipal wastewater treatment plant. This involved research and statistical analysis of historical data and mediation between the industry and the local government. It resulted in technical recommendations for the industry to mitigate effects of its effluents on municipal wastewater treatment.



ADEBAYO COKER, P.E.

PROJECT MANAGER



HBC Tenure: 14 yrs

Industry Experience: 28 yrs

Education:

Bachelor of Science,
Civil Engineering,
Florida International University,
1992

Registration:

Professional Engineer,
Florida- No. 55322

-CTQP QA/QC Manger

-TTC Advanced Certification

Qualifications:

-Asphalt Paving
Level I&II

Mr. Coker, provides over 28 years of responsible and diversified transportation engineering experience in the planning, design and construction management of major FDOT and Miami-Dade transportation projects. He successfully managed and demonstrated exemplary leadership and management skills on similar FDOT projects which included serving as an EOR. His particular areas of expertise are in production and management of all phases of transportation design projects including preliminary and final design of limited/controlled access highways and freeways; Signalization, Pavement Signing & Markings, MOT, Rural and Urban Resurfacing, Restoration and Rehabilitation (RRR) projects; Project Development and Environmental Studies; Traffic Operational Analysis; construction engineering inspection (CEI). He has managed and provided technical leadership on a number of public and private sector projects. He has taken numerous projects from the planning phase through design, construction, and post design services. He has been responsible for coordination with clients, sub consultants, permitting agencies, between project disciplines, implementation of effective quality control and quality assurance plan (QA/QC), and the supervision of project personnel on major projects. He has led a team that offers redundancy in every staff category to ensure that adequate staff resources are available to the Department on large-scale TWO assignments, identifying goals, approved scope, budget, and schedule. He possess the design expertise needed to produce innovative, feasible and cost-effective concepts and recommendations. He also displays close relationships with staff and familiarity with FDOT policies and procedures that enables him to promptly respond to the Department's needs and exceed its expectations.

KEY PROJECTS

FDOT DISTRICT 6, PROJECT DEVELOPMENT AND ENVIRONMENTAL (PD&E), MIAMI-DADE COUNTY, FL:

District Project Development Engineer who oversaw tasks including PD&E Studies, Resurfacing, Restoration and Rehabilitation (RRR) Scoping Report, and traffic report of Flagler Street 2nd Ave. to 27th Ave (CE2), NW 74th St. from 114th to SR 826 (Noise Study), Card Sound Road (EA), I-75 from County Line to SR 826 (EIS/ EA), Tamiami Canal Swing Bridge (EA), Alton Road from 5th to Michigan (CE2), I-395/SR 836 PD&E (EIS), NW 138th St. from NW 57th to NW 67th Ave. (SEIR), NW 42nd Ct/Perimeter Road (SEIR), Krome Truck Bypass from Lucy to 296th (Pending Class of Action Determination). Numerous RRR Studies, Rickenbacker Causeway Lane Repurposing Study, NW 27th Ave. Express Bus Service Study. Performed utility coordination. Duration: 1996-2008

FDOT DISTRICT 4, I-595 CORRIDOR ROADWAY IMPROVEMENTS PROJECT, BROWARD COUNTY, FL, PROJECT REFERENCE: AECOM, REY RIVAS, (305) 594-0457:

Performed interdisciplinary coordination of structural, geotechnical, utility coordination, drainage, MOT, SUE, and

surveying for this Private-Public Partnership project (P3) which

extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities. Oversaw project scheduling, cost estimate, weekly design meeting, permits, landscaping, roadway, ITS, Geotechnical reports, miscellaneous structures, bridge, emergency access gate design, power design plan submittal packages. Attended meeting with local municipalities and permit agencies to present project and report status. Performed public involvement and attended public meetings. Supervised design activities and coordinated personnel. Duration: 2009-2014

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS, TOTAL RECONSTRUCTION PROJECT ON NE 2ND AVE. FROM NE 84TH ST. TO NE 91ST ST., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: LUIS BALDO, (305) 375-2111, Baldo@miamidade.gov:

Served as Lead Designer responsible for development of plans. Project included design for drainage, lighting, signalization, utility coordination, roadway reconstruction as well as public

ADEBAYO COKER, P.E.

PROJECT MANAGER

involvement. Design involved widening and reconfiguration of 5016 feet of a four (4) lane roadway segment. Improvement design included the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, and sidewalk reconstruction. Design also involved new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, sign and pavement marking, and preparation of TTCP. Coordination was also made between all design disciplines such as roadway, signalization, SPM, street lighting, landscaping, drainage, water main lines, utilities, and environmental, while maintaining the project on schedule. Project included extensive public involvement and utility coordination. TTCP involved shifting of traffic as required to facilitate construction through railroad crossing while maintaining the existing railroad-crossing gate. This required coordination with the railroad company and provision in the design for a railroad flagger during construction. Duration: 2016-2017.

FDOT DISTRICT 6, I-95 SOUTHBOUND RIGID PAVEMENT REHABILITATION PROJECT FROM NW 103RD ST. (MP 8.823) TO NW 125TH ST (MP 10.195), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JASON CHANG, PE, 305-470-1533, Jason.Chang@dot.state.fl.us:

Project Manager for the rehabilitation of the existing concrete pavement of southbound mainline I-95 and three ramps. Responsibilities include but not limited to coordination with FDOT Maintenance and Traffic Management Center, coordination of personnel for the design activities and supervision of design of roadway and Maintenance of Traffic, and utility coordination. Duration 2012-2015

SW 30TH AVENUE FROM GRIFFIN ROAD TO SW 45TH STREET 821 RRR, FP ID No. 431757-1-52-01, FDOT DISTRICT 4, BROWARD COUNTY, FL. PROJECT REFERENCE: Brent Lee-Shue-Ling, PE, 954 777 4075

Project Manager for RRR, designing for ADA compliance, widening to add sidewalk, lighting, minor drainage adjustments, MOT and extensive utility coordination. Signalization improvements from at four Griffin Road to SW 45th Street. Design includes new signalization loops and assembly, signal heads, pedestrian heads and detectors, sign panels including internally illuminated signs, and traffic controller assembly, new mast arms. Existing traffic controllers were modified with new concrete poles and aluminum pedestals. Duration: 2014 – 2019

MIAMI-DADE TRANSIT, DADELAND SOUTH PARKING LOT EXPANSION, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ORLANDO CAPOTE, (786) 469-5248:

Engineer of Record for site planning for the design of the parking lot expansion with over 98 parking spaces and the existing parking lot with over 180 parking spaces. Designed paving, grading, lighting, and drainage systems. Laid out the concept plans and ADA accessibility route for the entire parking including the existing lot. Prepared drainage report, pavement design, direction driveway access design, and coordinated the dry run permitting and landscape design. Also performed utility coordination. Water quality attenuation was provided through exfiltration trench. Performed drainage calculation and generated drainage report. He performed the permitting process with DERM, FDOT, MDPWD and Miami Dade County Building Department. Duration: 2008-2009

FDOT DISTRICT 6, SIGNALIZATION & UTILITY RELOCATIONS, SR 821/HOMESTEAD EXTENSION FLORIDA TURNPIKE (HEFT) FROM SUNSET DR. TO SW 40TH ST./BIRD RD., FP ID Nos. 427146-1-5601 AND 42146-1-52-01, MIAMI-DADE COUNTY, FL., PROJECT REFERENCE: STEPHANIE SHARP, (407) 384-4412, stephanie.sharp@dot.state.fl.us:

Served as Design-Build Project Manager for signalization design and improvements for ten (10) signalized intersections. Design includes new signalization loops and assembly, new and relocated signal heads, pedestrian heads and detectors, sign panels including internally illuminated signs, video monitors, mast arms and traffic controller assembly. Also served as Project Manager for utility line relocation of 2,500 feet of 8-inch water line and 900 feet of 4-inch sewer line. Project also involved utility coordination. Duration July 2014-ongoing (90% plan stage)

MIAMI-DADE PARKS & RECREATION, SW 147TH AVE. FROM SW 17TH ST. TO SW 26TH ST., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: LYDIA SALAS, (305) 755-5456, Lydia.Salas@miamidadegov:

Responsible for the design of the horizontal and vertical alignment, storm drainage system, cross sections, utility coordination, drainage structures for the proposed reconstruction project of 0.5 mile. Project required extensive coordination with South Florida Water Management District and DERM to acquire the environmental permits for the proposed construction. Also generated signing and pavement marking plan, lighting and traffic control plans. Duration: 2009-2014

FDOT DISTRICT 6, SR 7/NW 7TH AVE. SAFETY IMPROVEMENT PROJECT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JOSE BARRERA, PE, (305) 470-5260:

Served as Project Manager for Safety Improvement, Milling and resurfacing project with specifically providing modifications within the median to mitigate safety conditions along the corridor, drainage improvements, ADA sidewalk construction, signal

ADEBAYO COKER, P.E.

PROJECT MANAGER

modifications, signing and pavement marking plans and landscape improvements. Project required extensive coordination with the stake holders, homeowner associations and city commission. Duration: 2011-2013

FDOT DISTRICT 6, NW 36TH ST. BRIDGE BETWEEN LEJUENE ROAD (NW 42ND AVE./SR 953) AND OKEECHOBEE RD. (US 27, SR 25), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: DANIEL IGLESIAS, PE, (305) 470-5289, daniel.iglesias@dot.state.fl.us:

Served as Project Manager to perform MOT for the proposed bridge improvements i.e. converting the existing 4 lane bridge to 5 lane divided bridge, two lanes eastbound and three lanes westbound. FDOT plans to close the bridge to expedite the construction. Prepared the Maintenance of traffic and Detour Plans and construction documents for the roadway closure, as well as, utility coordination. Performed analysis of a maximum.

PORT OF MIAMI, CHUTE ROAD RELOCATION PHASE II, MIAMI-DADE COUNTY. PROJECT REFERENCE: Li Gurau, PhD. PE, 305-329-4034, li.gurau@miamidade.gov:

Mr. Coker was the project manager whose tasks included traffic engineering support and conception design for the Port of Miami on a project denominated "Chute Road Relocation Phase II". The main challenge of this project was the extreme urgency required by the Port of Miami engineering staff. The challenge was successfully met by assigning the proper resources and hard work. The scope of work consisted of an analysis of different roadway designs to verify truck traffic. There were questions regarding the adequacy of the radius of the curve and the potential need to limit the curve to "one truck only at curve". Mr. Coker used the "Auto Turn" simulation software as one of the tools for this project, analyzed the data, and recommended a road design that allowed the two-truck curve. Roadway signage including stop signs and stop bars, speed limit, and chevrons, were also included in the scope of work.

PORT OF MIAMI, SHED B TRAFFIC CIRCULATION PLAN STUDY ENGINEERING SERVICES, MIAMI-DADE COUNTY. PROJECT REFERENCE: VICTOR GUTIERREZ. PE, 305-347-4802, victor.gutierrez@miamidade.gov:

Mr. Coker was the project manager responsible for conceptual plan that would alleviate traffic congestion while in compliance with The Manual of Uniform Traffic Control Devices (MUTCD), Roadway Design Standards, Florida Greenbook, and the Miami-Dade County Public Works Manual and Specifications. Tasks involved developing several alternatives for road layouts and traffic control plans. Final recommendations included modifications to the loading dock at Shed B which allowed trucks to park diagonally in front of the shed and simultaneously provided a significant widening of North Cruise Blvd., as well as, a dedicated lane for trucks to safely maneuver.

Efforts resulted in alleviating traffic conditions and reduced the blocking of traffic being caused by trucks that were parked perpendicular to the loading dock. Solution consisted of relocated the CVIS tent while adding a lane, providing a bypass lane for the trucks adjacent to the docks, relocating a crosswalk, and applying miscellaneous striping. Angle parking location with frontage road to separate port traffic from CVIS delivery trucks.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS, TOTAL RECONSTRUCTION PROJECT ON NE 2ND AVE. FROM NE 84TH ST. TO NE 91ST ST., MIAMI-DADE COUNTY, FL.: PROJECT REFERENCE: LUIS BALDO, (305) 375-2111, Baldo@miamidade.gov:

Served as Lead Designer responsible for development of plans. Project included design for drainage, lighting, signalization, utility coordination, roadway reconstruction as well as public involvement. Design involved widening and reconfiguration of 5016 feet of a four (4) lane roadway segment. Improvement design included the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, and sidewalk reconstruction. Design also involved new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, sign and pavement marking, and preparation of TTCP. Coordination was also made between all design disciplines such as roadway, signalization, SPM, street lighting, landscaping, drainage, water main lines, utilities, and environmental, while maintaining the project on schedule. Project included extensive public involvement and utility coordination. TTCP involved shifting of traffic as required to facilitate construction through railroad crossing while maintaining the existing railroad-crossing gate. This required coordination with the railroad company and provision in the design for a railroad flagger during construction. Duration: 2016-2017.

FDOT DISTRICT 4, I-595 CORRIDOR ROADWAY IMPROVEMENTS PROJECTS, BROWARD COUNTY, FL: PROJECT REFERENCE: AECOM, REY RIVAS, (305) 594-0457:

Performed interdisciplinary coordination of structural, geotechnical, utility coordination, drainage, MOT, SUE, and surveying for this Private-Public Partnership project (P3) which extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities. Oversaw project scheduling, cost estimate, weekly design meeting, permits, landscaping, roadway, ITS, Geotechnical reports, miscellaneous structures, bridge, emergency access gate design, power design plan submittal packages. Attended meeting with local municipalities and permit agencies to present project and report status. Performed public involvement and attended public meetings.

ADEBAYO COKER, P.E.

PROJECT MANAGER

Supervised design activities and coordinated personnel. Duration: 2009-2014

FDOT DISTRICT 6, 8-INCH WATER MAIN ON SW 117TH AVENUE FROM SW 47TH STREET TO 41ST STREET, MIAMI, FLORIDA, PROJECT REFERENCE: STEPHANIE SHARP, (407) 384-4412, stephanie.sharp@dot.state.fl.us:

FDOT DISTRICT 6, NW / SW 12TH AVE. FROM SW 13TH TO NW 7TH ST., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: HAROLD DESDUNES, PE, (305) 470-5271, harold.desdunes@dot.state.fl.us:

Served as Project manager for a RRR Milling and resurfacing project with slope correction, drainage, traffic calming, and ADA sidewalk construction. The construction cost of the project was \$7,294,000. Responsible for the design and preparation of construction plans including roadway plans, utility coordination, signing & pavement marking, MOT, drainage, cross sections, signalization, grading, and traffic calming bulbouts. Duration: 2005-2007

MIAMI-DADE TRANSIT, NORTH EAST TRANSIT HUB ENHANCEMENTS AT 163RD STREET MALL, MIAMI-DADE COUNTY, FLORIDA: PROJECT REFERENCE: ORLANDO CAPOTE, (786) 469-5248:

Served as Project Manager for the reconstruction of NE 167th Street from NE 14th Avenue to NE 15th Avenue and also reconstruction and milling and resurfacing of NE 15th Avenue from NE 164th Street to NE 167th Street. Responsible of the preparation of construction documents, technical specifications, estimate of construction cost, dry run permitting, bid and award Services and design services during construction. Design elements included pavement, drainage, roadway and pedestrian lighting, signing and pavement markings, signalization, landscaping, and utility coordination. Performed coordination and presentations with agencies and organizations, including but not limited to, Miami-Dade Transit, (MDT), Miami-Dade Public Works and Waste Management (MDPWWM), TARC, Florida Department of Transportation (FDOT), The City of North Miami Beach, appropriate permitting agencies and committees, 163rd Street Mall and Wal-Mart. Duration: 2008-2013

FDOT DISTRICT 6, 4-INCH FORCE MAIN SERVICE CONNECTION TO TURNPIKE BIRD ROAD TOLL BUILDINGS MIAMI, FLORIDA, PROJECT REFERENCE: STEPHANIE SHARP, (407) 384-4412, stephanie.sharp@dot.state.fl.us:

Responsible for overall design of 900 LF of 4-inch diameter force main through open cut construction and direction drill. Designed 500-foot direction drill for crossing under the Bird Road Extended Canal. Obtained all jurisdictional authorities' approval. Prepared permit drawing for DERM approval of the canal crossing. Required service connection to an existing 36" FM by utilizing the existing 8" main and maintaining the existing connection and valve to allow the mainline to stay operation throughout the construction. Depth of pipe invert varied from 3 to 5 feet within the open cut segments. Duration: 2014-2015

Served as EOR for the design of the relocation of 2,500 feet WM located within the urbanized roadway footprint for SW 117th Ave. Project required survey, utility locates, installation of new fire hydrants and water meter connections, MOT, design plan and profile as well as special crossing details, and obtaining Florida DEP permit. Depth of pipe invert varies from 4 to 6 feet as required to avoid conflicts with existing drainage and utility crossings. Project was designed as conventional open-cut method and required special detailing to cross an existing French Drain system that was to remain in place before connecting back to the existing line. Duration: 2014-2015

PORT OF MIAMI, CHUTE ROAD RELOCATON PHASE II, MIAMI-DADE COUNTY, PROJECT REFERENCE: LI GURAU, PHD. PE, 305-329-4034, li.gurau@miamidade.gov:

Mr. Coker was the project manager whose tasks included traffic engineering support and conception design for the Port of Miami on a project denominated "Chute Road Relocation Phase II". The main challenge of this project was the extreme urgency required by the Port of Miami engineering staff. The challenge was successfully met by assigning the proper resources and hard work. The scope of work consisted of an analysis of different roadway designs to verify truck traffic. There were questions regarding the adequacy of the radius of the curve and the potential need to limit the curve to "one truck only at curve". Mr. Coker used the "Auto Turn" simulation software as one of the tools for this project, analyzed the data, and recommended a road design that allowed the two-truck curve. Roadway signage including stop signs and stop bars, speed limit, and chevrons, were also included in the scope of work.

PORT OF MIAMI SHED B TRAFFIC CIRCULATION PLAN STUDY ENGINEERING SERVICES, MIAMI-DADE COUNTY, PROJECT REFERENCE: VICTOR GUTIERREZ. PE, 305-347-4802, victor.gutierrez@miamidade.gov:

Mr. Coker was the project manager responsible for conceptual plan that would alleviate traffic congestion while in compliance with The Manual of Uniform Traffic Control Devices (MUTCD), Roadway Design Standards, Florida Greenbook, and the Miami-Dade County Public Works Manual and Specifications. Tasks involved developing several alternatives for road layouts and traffic control plans. Final recommendations included modifications to the loading dock at Shed B which allowed trucks to park diagonally in front of the shed and simultaneously provided a significant widening of North Cruise Blvd., as well as, a dedicated lane for trucks to safely maneuver. Efforts resulted in alleviating traffic conditions and reduced the blocking of

ADEBAYO COKER, P.E.

PROJECT MANAGER

traffic being caused by trucks that were parked perpendicular to the loading dock. Solution consisted of relocated the CVIS tent while adding a lane, providing a bypass lane for the trucks adjacent to the docks, relocating a crosswalk, and applying miscellaneous striping. Angle parking location with frontage road to separate port traffic from CVIS delivery trucks.



JORGE RODRIGUEZ, P.E.

QA/QC MANAGER

**HBC Tenure:** 5 yrs**Industry Experience:** 49 yrs**Education:**

Bachelor of Science,
Civil Engineering,
Havana University, 1970

Registration:

Professional Engineer,
Texas - No. 92097

Mr. Rodriguez has over 49 years of industry experience. He has extensive civil engineering experience which includes 24 years as a structural engineer in Cuba. He has managed and engineered the development of plans and specifications for civil projects involving complex site developments, road design, storm drainage systems, paving, grading, water, sanitary sewer, erosion control, utility relocations, plans preparations and construction engineering inspection. (CEI). Led multi-discipline design teams in the successfully delivery on a number of public and private sector projects. He has taken numerous projects from the planning phase through design, construction and post design services. He has been responsible for coordination with clients, TxDOT, city staffs, sub consultants, permitting agencies, contractors, between project disciplines, implementation of effective quality control and quality assurance plan (QA/QC) and the supervision of project personnel on major projects.

KEY PROJECTS

FDOT DISTRICT 6, PLANS REVIEW:

Project Engineer responsible for plans reviews to comply with specifications, FDOT Design Standards and District 6 requirements for roadway, signing and marking, lighting, signalization, structures, intelligent transportation systems and landscape plans. Representatives projects reviewed included:

- SR 90 /SW 8TH ST. AND SW A47TH AVENUE
- SIGNALIZED INTERSECTION/LIGHTING FROM NE 123 ST. TO NE 213 ST. FROM SW 344 ST. TO SW 244 ST. FROM SW 6 ST. TO SW 105 ST.
- KROME AVENUE FROM SW 312 ST/CAMPBELL DR. TO SW 296 ST.
- PALMETO EXPY FROM NORTH OF CANAL C-8 TO EAST OF NW 67 AVENUE.
- NW 27 AVENUE OVER MIAMI RIVER BRIDGES 870731 & 870763.
- US 441/NW 7 AVENUE FROM S. OF NW 119 ST. TO N. OF BISCAYNE
- PALM DRIVE FROM SR 997/KROME AVE TO SR5/US1
- SR 826/NW/NE167 ST. AT NORTH MIAMI AVENUE
- SR 925/NW 3RD COURT & NW 3RD AVE. FROM NW 1ST ST. TO NW 8TH ST.
- SR 93/175 FRINTAGERDS FROM EAST OF HIALEAH

GARDENS BLVD. TO WEST 23RD AVENUE

- SR 5/US-1 FROM EAST OF SR 9/SW 27 AVENUE TO SR 9A/I-95
- SR 25/OKEECHOBEE ROAD AT WEST 16TH AVENUE

- WEST FLAGLER ST. AND SW 84 AVENUE
- SR 25/OKEECHOBEE ROAD FROM E. OF NW 107 AVENUE TO E. OF NW 116 WAY
- SR 25/OKEECHOBEE ROAD & SR 826/PALMETTO EXPWY. INTERCHANGE
- HURRICANE IRMA PERMNT-SR 997 KROME AVENUE FROM US 1 TO US 27
- SR 994/QUAIL ROOST FROM EAST OF HEFT TO US 1
- SR 933/NW 12 AVENUE FROM SOUTH OF NW 20 ST TO NORTH OF NW 29 ST.
- SR 826/PALMETTO EXPWY FROM EAST OF NW 57TH AVENUE TO EAST OF NW 42ND AVENUE.
- SR 826/PALMETTO EXPWY FROM EAST OF NW 42ND AVENUE TO EAST OF NW 32ND AVENUE.
- I-95 NORTH BOUND FROM NW 143RD ST TO GOLDEN GLADES INTERCHANGE / TURNPIKE CONNECTOR.
- SR 909/WEST DIXIE HWY FROM NE 119 ST TO NORTH OF

QA-QC PLANS REVIEW: Project Engineer responsible for plans reviews to comply with specifications, FDOT Design Standards for roadway, signing and marking, traffic control, lighting, and signalization plans. Representatives projects reviewed included:

- SR 858/HALLANDALE BEACH BLVD. FROM E. OF SR-7 TO W. OF LAKESHORE DRIVE
- CITY OF MIAMI AUGER WELL ABANDONMENT
- NW 7TH AVENUE SR7
- I-95 REHABILITATION SR 9A
- NETHE NE 163RD STREET MALL
- SR 713/KINGS HIGHWAY FROM SR 70 AT TURNPIKE TO N.

JORGE RODRIGUEZ, P.E.

QA/QC MANAGER

OF I-95 OVERPASS IN ST. LUCIE COUNTY

- DESIGN SERVICES FOR SW 30TH AVENUE FROM GRIFFIN ROAD TO SW 45TH STREET
- SR 845/POWERLINE ROAD FROM N. OF SR 838/SUNRISE BLVD TO N. OF NW 19TH STREET
- VIRGINIA SHUMAN ELEMENTARY SCHOOL – SCHOOL ZONE IMPROVEMENT PROJECT
- DESIGN OF REDUCE SPEED ZONES FOR ORIOLE ELEMENTARY SCHOOL
- US1 LIGHTING RETROFITS
- PTP ROADWAY IMPROVEMENTS TO NE 2ND AVENUE FROM NE 69TH STREET TO NE 84TH STREET
- DESIGN SERVICES FOR TRAFFIC OPERATIONAL IMPROVEMENT FOR SR 90/SW 8TH STREET & 147TH AVENUE
- TRAFFIC SIGNAL DESIGN REVIEW NW 7TH AVE
- TRAFFIC SIGNAL DESIGN REVIEW NW 36TH ST. AND NW 20TH AVE.
- TRAFFIC SIGNAL DESIGN REVIEW- NW 54TH ST. AND NW 14TH AVE.
- TRAFFIC SIGNAL DESIGN REVIEW NW 12TH AVE. AND NW 19TH ST.
- ROADWAY AND SIGNING AND PAVEMENT MARKING PLANS REVIEW SR 90 SW 8TH ST. AND SW 157TH AVE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, NE 2ND AVE. DESIGN-BUILD PROJECT FROM NE 69TH ST. TO NE 84TH ST., MIAMI-DADE COUNTY, PROJECT REFERENCE: LUIS BALDO, (305) 282-0281, Luis.Baldo@miamidade.gov:

Performed QA/QC for Roadway, Lighting, Signalization, Drainage and Signing and Pavement Markings plans for different project phases. This project encompasses the roadway reconstruction of N.E. 2nd Avenue from N.E. 69th Street to N.E. 84th Street, a one mile segment in the City of Miami, Florida. Project Amount: \$9.8 M. Duration: 2016-2019

PROJECT REFERENCE: KENZOT JAZMIN, P.E. (954) 777-4462, Kenzot.Jasmin@dot.state.fl.us:

Performed QA/QC for Signing and Pavement Markings, Sidewalk Improvements, Drainage and Lighting on 7.3 miles of roadways across multiple streets within the Hollywood Gardens Beach area. Project Amount: \$2.8M. Duration 2016-2018

SWEETWATER ELEMENTARY SCHOOL PARKING LOT RECONSTRUCTION, SWEETWATER, FLORIDA, MIAMI-DADE COUNTY PUBLIC SCHOOLS: PROJECT REFERENCE: PM PETER DE LA HORRA, (305) 562-0047, Phorra@dadeschools.net:

Project Engineer responsible for the preparation of civil plans for the design of a parking lot in a 3-acre tract. Design tasks included pavement, grading and drainage, site and demolition and signing and marking plans. Duration: 2016-2017

SANGOTEDO MEDALLION BAY RESIDENTIAL DEVELOPMENT, LAGOS, NIGERIA: PROJECT REFERENCE: ADEBAYO COKER, P.E., (305) 232-7932, acoker@hbcengineering.com:

Project Engineer responsible for preparing civil plans for 24 acre-tract for a residential development, including pavement, grading, drainage, site dimension, water, sewer, and signing and marking plans. Duration: 2015-ongoing

CAMPBELL DRIVE MIDDLE SCHOOL CENTER FOR INTERNATIONAL STUDIES, MIAMI-DADE COUNTY PUBLIC SCHOOLS: PROJECT REFERENCE: PM PETER DE LA HORRA, Phorra@dadeschools.net:

Project Engineer. Design and quality assurance for a new site plan for International Center, with a 57,000 square foot parking lot. Design elements included paving, storm drainage and signing and pavement markings. Duration: 2014-2015

SW SR 821 HEFT WIDENING FROM SW 40TH STREET TO SW 72ND MIAMI, FLORIDA: PROJECT REFERENCE: NALDO GONZALEZ, P.E., (786) 845-9540, Ngonzalez@gfnet.com:

Project Engineer responsible for utility relocation for WASD's 2,500 linear feet of 8"-Diameter water main and 1,300 linear feet of FDOT/Florida Turnpikes' 4" force main, which included subaqueous crossing under Bird Road Canal. Duration: 2014-2015



GREGORY PRYTYKA, P.E., PTOE

TRAFFIC ENGINEERING DIRECTOR



HBC Tenure: 2 yrs

Industry Experience: 39 yrs

Education:

Bachelor of Science,
Engineering,
University of South Florida,
1981

Registration:

Professional Engineer,
Florida-No. 36868
PTOE-No. 758

Qualifications:

- CTQP QC Traffic Manager
- TTC Advanced Certification

Mr. Prytyka has designed and managed projects in both client and consultant roles; as an employee of FDOT's Central Office, he participated in the development and implementation of statewide standards, criteria, procedures, and guidelines. Mr. Prytyka is a chief resource that has been relied on to provide training, technical advice and assistance to districts and their consultants on issues related to engineering and design policy, rules, criteria, standards, manuals, guidelines, and requirements. His role also involved managing utility coordination which involved Also provided utility coordination services which involved identifying, evaluating, and resolving utility conflicts, communicating with Utility Agency Owners (UAO) and creating a utility matrix While also preparing a utility clear package, utility project file and documents. Mr. Prytyka was immersed in the latest research from FHWA, NCHRP, AASHTO, TRB, and others. As Ombudsman for this project, Mr. Prytyka will ensure that all comments generated by our office complies with the FDOT Design Manual, Standard Plans, and all other applicable references, as well as, professional standard of care.

KEY PROJECTS

FDOT DISTRICT 6, SR 25/US 27/OKEECHOBEE ROAD FROM MIAMI-DADE COUNTY LINE TO SR 826, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAO-YING WANG, P.E. (305) 470-5211, baoying.wang@dot.state.fl.us:

Project Engineer in responsible charge of overall corridor review of roadway design, signing and pavement markings, signalization, and ITS plans for the reconstruction of this 10-mile section including four major interchanges. New conceptual designs were developed to improve traffic operations and increase capacity.

FDOT DISTRICT 6, SR 25/US 27/OKEECHOBEE ROAD FROM MIAMI-DADE COUNTY LINE TO SR 826, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAO-YING WANG, P.E. (305) 470-5211, baoying.wang@dot.state.fl.us:

Project Manager in responsible charge of developing a Transportation Management Plan (TMP) for the reconstruction of this 10-mile section including four major interchanges. The TMP will increase safety and mobility throughout the region using Smart Work Zones. Vissim modeling was employed for the region to explore network travel patterns based on capacity restraint and providing mitigation for identified trouble spots.

FDOT DISTRICT 6, HIALEAH FREIGHT STUDY:

Project Manager and engineer of record for data collection activities supporting a freight mobility plan for the city of Hialeah, Florida. Data collected included turning movement counts at 29 intersections over a period of 7 days within 3 weeks.

FDOT DISTRICT 6, SR 90/US 41/SW 8TH STREET ASCT PILOT PROJECT FROM SW 132ND AVE. TO SW 62ND AVE, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JAVIER RODRIGUEZ, P.E. (305) 640-7307, javier.rodriquez@dot.state.fl.us:

Project Manager and EOR for the first Adaptive Signal Control Technology (ASCT) system installed in District 6. This design-build project was an implementation of Rhythm Engineering's InSync system at 29 intersections along the project corridor and included replacement of all traffic signal controllers and cabinets, new HD CCTVs, new conduit and pull box subsystems, upgrading pedestrian features and ADA retrofits. The InSync system optimizes not only progression and local signal timings, but also optimizes phasing using high definition video cameras to measure queues. Placement of the high definition video cameras is critical, and coverage plans were prepared to minimize the possibility of occlusion. Video cameras were mounted on both span wire and mast arm installations. This major project

GREGORY PRYTYKA, P.E., PTOE

TRAFFIC ENGINEERING DIRECTOR

progressed from Notice to Proceed to Released for Construction plans in just over 6 months.

CITY OF HOMESTEAD, TRAFFIC IMPACT STATEMENT REVIEWS, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: CATE MCCAFFREY, (305) 224-4403, catemccaffrey@cityofhomestead.com:

Mr. Prytyka provided peer reviews of traffic impact analyses submitted to the city for various medium to large developments throughout the city.

MIAMI-DADE COUNTY PUBLIC SCHOOLS, MARINE ACADEMY OF SCIENCE AND TECHNOLOGY, (MAST) TRAFFIC IMPACT STATEMENT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BEN WEINSTEIN, (305) 995-4250, bweinstein@dadeschools.net:

Mr. Prytyka prepared a complete Traffic Impact Analysis for a new 1,200 student High School on the campus of Florida International University, Biscayne Bay. This project included traffic data collection, future traffic forecasting, trip generation studies, trip assignments, and capacity analyses.

CITY OF KEY BISCAYNE, CRANDON BOULEVARD PEDESTRIAN SAFETY STUDY, MIAMI-DADE COUNTY, FL PROJECT REFERENCE: CHARLES PRESS, (305) 365-9837, cpress@kbpd.net:

Mr. Prytyka conducted a comprehensive pedestrian safety study along the Crandon Boulevard corridor and provide recommendations for improvements. The study included a critical examination of existing conditions and traffic control devices and preparation of a Master Sign Plan to guide the proper layout of signs, markings, and signals along the corridor and eliminate duplication.

BUS EXPRESS RAPID TRANSIT, MIAMI-DADE COUNTY, REFERENCE: ODALYS DELGADO, (305) 507-5583, Odalys.Delgado@parsons.com:

Project Manager and EOR for data collection and traffic analysis to evaluate the traffic impacts and operational efficiency of a county wide bus express rapid transit (BERT) system consisting of eight major routes. This project was a part of the Strategic Miami Area Rapid Transit (SMART) Plan. This project involved development and analysis of multiple Vistro, Visum, and Synchro microsimulation models to evaluate the operational efficiency of various Transit Signal Priority (TSP) strategies along arterial segments and terminal station access and egress.

HILLSBOROUGH COUNTY MISCELLANEOUS PROFESSIONAL SERVICES FOR GENERAL/CIVIL ENGINEERING:

Assignments completed under this contract included:

- Countywide Traffic Counts for signal retiming
- Sunlake at Lutz Lake Fern Road Intersection Traffic study and recommendations.
- US-301 at Bloomingdale Avenue Intersection Traffic Studies and Recommendations.
- Livingston Road/Collier Parkway at County Line Road Intersection Traffic Study and Recommendations.
- Countywide High Crash and Capacity Restraint Intersection Priority List.
- County Road 672 @ Balm River Road reconstruction & capacity improvements
- Linebaugh Avenue at Countryway Boulevard intersection analysis
- Crosstown Expressway at Falkenburg Road interchange analysis

LEE COUNTY: CYPRESS LAKES DRIVE SIGNAL RETIMING DEMONSTRATION PROJECT:

Used Synchro® to retime 9 signals including a school crossing, providing coordination from McGregor Boulevard to Cleveland Avenue (US-41) in this demonstration project.

FDOT DISTRICT 1: SR-60/US-98 INTERCHANGE:

Provided traffic operations design of the interchange layout including signalization, signing and pavement markings. Prepared Maintenance of Traffic Plans for this multi-phased construction project including temporary pavement and signalization.

FDOT DISTRICT 7: CURLEW ROAD (SR-586) FROM US-19 TO MCMULLEN-BOOTH ROAD:

Provided traffic operations analyses and design including lane assignments, signing, pavement marking and signalization plans.

FDOT DISTRICT 1: I-75 AT UNIVERSITY PARKWAY DIVERGING DIAMOND INTERCHANGE – MANATEE COUNTY:

Mr. Prytyka was ITS Project Manager and EOR. This project represents construction of the first Diverging Diamond Interchange (DDI) in the State of Florida. Mr. Prytyka provided ITS design which included relocation and replacement of ITS devices affected by the roadway construction, new ITS devices, relocation of 2,500 feet of Fiber Optic Cable, and Installation of 4,500 feet of new 96 count Fiber Optic Cable.

GREGORY PRYTYKA, P.E., PTOE

TRAFFIC ENGINEERING DIRECTOR

HILLSBOROUGH COUNTY, BRANDON CLOSED-LOOP COMPUTERIZED SIGNAL SYSTEM:

While serving as County Traffic Engineer for Hillsborough County, Mr. Prytyka provided planning, preparing a successful federal grant application, design EOR and Project Manager and chief designer for systems design, installation, activation and operation of 35 signalized intersections in the Brandon area of Hillsborough County under centralized computer control and added 10 miles to the fiber optics network.



HERNAN LUGO, P.E., CFM

SENIOR ENGINEER



HBC Tenure: 3 yrs

Industry Experience: 22 yrs

Education:

Master of Science,
Environmental Engineering,
Texas A&M University, 2011
Bachelor of Science,
Civil Engineering,
Universidad Nueva Esparta,
Venezuela, 1998

Registration:

Professional Engineer,
Florida-No. 74961
Professional Engineer,
Texas-No. 108728

Qualifications:

- Florida Certified Building Contractor-No. 160661
- Certified Floodplain Manager-No. US-15-08248
- Certified Storm Water Manager
- Certified Water Quality and Bacteria Monitor
- TTC Advanced Certification

Mr. Lugo has over 22 years of experience. He has extensive drainage design, roadway design, and plans review experience. Hernan Lugo has provided project and construction management for planning, design, and construction administration services on various types of public and private facilities throughout the country and abroad. He has more than 20 years of experience developing facility programs, site layouts, construction schedules and budget controls, recommendations, and specifications for new equipment.

KEY PROJECTS

FDOT DISTRICT 4, HOMEWOOD BLVD. FROM OLD GERMANTOWN RD. TO LOWSON BLVD., BROWARD COUNTY, FL, PROJECT REFERENCE: RAUL DOMINGUEZ, P.E., 954-777-4677, raul.dominguez@dot.state.fl.us:

Engineer of Record in charge of designing Temporary Traffic Control Plan (TTCP) for 0.51-miles RRR project in Homewood Blvd. in the City of Delray Beach. TTCP Design included typical sections for vehicular traffic and ADA compliant pedestrian detour on a multilane road. Task was accomplished by using tables to reference applicable details and index 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. Coordinated with District 4 Construction as necessary to ensure feedback and approval of the proposed TTCP design. Duration: 2018 – on-going

FDOT DISTRICT 4, I-75 REST AREA MASTER PLAN PROJECT, ALLIGATOR ALLEY REST AREA & EDUCATION CENTER, BROWARD COUNTY, FL, PROJECT REFERENCE: VANDANA NAGOLE, P.E., 954-777-4680, vandana.nagole@dot.state.fl.us:

Engineer of Record in charge of designing S&PM, for this project in a 0.71 miles stretch. Project involved improving existing rest area by constructing environmental education and recreational amenities. Project required reconfiguration of existing parking and access roads, sidewalks. Improvements

included an observation tower, covered pedestrian walkway, boardwalks, walking paths, dog walking areas, pedestrian lighting, wetland exhibits, pavilions, and picnic areas, site furnishing, informational kiosk and signage, and landscape. S&PM was designed to guide traffic through the rest area and provide guidance back to I-75 mainline. New pavement markings were also included to accommodate the proposed improvements. Duration: 2018 – on-going

FDOT DISTRICT 4, SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS, BROWARD COUNTY, FL, PROJECT REFERENCE: ROBERT LOPES, PE, 954-777-4454, robert.lopes@dot.state.fl.us:

Responsible in charge of coordination and identification of all existing utilities along SR-7 from Broward / Miami-Dade County Line to North of Sample Road and SR-858/Hallandale Beach Blvd from Edmund Road to SW 58th Ave. Duration: 2018 – on-going

FDOT DISTRICT 6, SR 5/US 1/OVERSEAS FROM MILE MARKER (MM) 109 TO MM 127, (FENCING/ROADSIDE IMPROVEMENT PROJECT), MONROE COUNTY, FL, PROJECT REFERENCE: FELIX HERNANDEZ, PE, 305-470-5274, felix.hernandez@dot.state.fl.us:

Engineer of Record and Project Manager in charge of designing fencing repairs due to damages caused by Hurricane Irma in a 18-miles stretch along SR 5/US 1 Overseas Hwy. Efforts resulted in minimizing damages and protecting the remaining facilities from further damage. Project amount: 1.2 Million. Duration:

HERNAN LUGO, P.E., CFM

SENIOR ENGINEER

2018– 2019

FDOT DISTRICT 6, HURRICANE IRMA PERMNT, SR 5/US 1 OVERSEAS HWY FROM MM 59.727 TO MM 84.959, (EMBANKMENT WASHOUTS REPAIR PROJECT) MONROE COUNTY, FL, PROJECT REFERENCE: ANA ARVELO, P.E. 305-470-5210, ana.arvelo@dot.state.fl.us:

Project Manager in charge of the overall coordination and management of the project who assisted in designing washout repairs due to damages caused by Hurricane Irma for 4.95 miles at 15 different locations along SR 5/US 1 Overseas Hwy. Environmental challenges were overcome associated with embankment repairs within the design and updated standards were applied. Efforts resulted in minimizing damages and protecting the remaining facilities from further damage. Project amount: 6 Million. Duration: 2018 – 2019

MAINTENANCE OF TRAFFIC (MOT) CONTROL PLANS FOR NEW 16" WATER MAIN ALONG NW 37TH AVENUE BETWEEN NW 36TH AND NW 82ND STREETS, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ARNELIO ALFONSO, P.E., 305-592-7283, aalfonso@apcte.com:

Project Engineer in charge of designing Temporary Traffic Control Plan (TTCP) for the installation of 14,400 L.F. of 16" Water Main along NW 37th Avenue from NW 36th Street (SR-948) to NW 82nd Street (Miami-Amtrak Station). Task was accomplished by using tables to reference applicable details and index 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. Coordinated with WASD, FDOT District 6, and stakeholders as necessary to ensure feedback and approval of the proposed TTCP design. Duration: 2020-ongoing

MAINTENANCE OF TRAFFIC (MOT) FOR REPLACEMENT / REHABILITATION OF WATER MAINS AT TURNBERRY ISLAND FOR MDWASD, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ARNELIO ALFONSO, P.E., 305-592-7283, aalfonso@apcte.com:

Project Engineer in charge of designing Temporary Traffic Control Plan (TTCP) for the replacement/rehabilitation of approximately 6,000 L.F. of 8-inch, 12-inch, and 16-inch Water Main at Turnberry Island, Miami, Florida. Task was accomplished by using tables to reference applicable details and index 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. Coordinated with WASD and stakeholders as necessary to ensure feedback and approval of the proposed TTCP design. Duration: 2019-ongoing

MIAMI-DADE WATER AND SEWER DEPARTMENT, 6-INCH ACP FM, FROM PS-1059 TO MH 65 ON STERLING DR. AND SW 97TH CT., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ARNELIO ALFONSO PE, A&P CONSULTING TRANSPORTATION ENGINEERS, 305-592-7283, aalfonso@apcte.com:

Project Engineer in charge of designing Temporary Traffic Control Plan (TTCP) for the replacement of 2,471-lf of forcemain. Task was accomplished by using tables to reference applicable details and index 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. Coordinated with WASD and stakeholders as necessary to ensure feedback and approval of the proposed TTCP design. Duration: 2018 – 2019.

FDOT DISTRICT 6, SR 25/US 27/OKEECHOBEE RD., PROJECT FROM KROME AVE. TO NW 79TH AVE., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAOYING WANG PE, 305-470-5211, BaoYin.Wang@dot.state.fl.us:

Owner Representative. Served as a main point of contact for coordination of several consultant teams, in charge of overall management of the project. Performed analysis and preparation of MOT master plan. Duration: 2017 – ongoing

FDOT DISTRICT 6– DISTRICTWIDE FINAL PLANS REVIEW, PROJECT REFERENCE: VIVIAN LEMUS, PE, (350)470-5376, Vivian.Lemus@dot.state.fl.us Duration: On-going.

PROJECTS RECENTLY REVIEWED:

- SR-847/NW 47th Ave. From north of NW 199th street to premier parkway
- SR-847/NW 47th Ave. Sanitary sewer and water main
- SR-997/Krome Ave./SW 177th Ave. from south of SW 184th St/Eureka Dr. to south of SW 136th St/Howard Dr.
- SR-997/Krome Ave./SW 177th Ave. from south of SW 232nd St/silver palm Dr. to south of SW 184th St/Eureka Dr.
- SR-968/ SW 1st St. at Miami River
- SR-968/SW 1st St. from SW 17th Ave. to SW 6th Ave.
- SR-94/Kendall Dr. from SW 102nd Ave. to SW 97th Ave. and from SW 97th Ave. to SW 79th Ave.
- SR-922 NW 125 St. from NW 6 Ave. to NE Miami court
- SR-944/NE 54th St. from east of NW 7th Ave. to Biscayne Blvd
- SR-94/SW 88 ST/Kendall Dr. from SW 99th Ct. to SW 97th Ave



JOSE LOPEZ, P.E.

TRANSPORTATION ENGINEER



HBC Tenure: 4 yrs

Industry Experience: 15 yrs

Education:

Bachelor of Science,
Civil Engineer
Polytechnic University of
Puerto Rico, 2005

Registration:

Professional Engineer,
FL No. 81014
Professional Engineer,
PR No. 21897

Qualifications:

- 30 HR OSHA Certification
- FDOT TTCP Advanced Certification
- ICPR V4 Training
- FDOT Specifications Package Preparation

Mr. Lopez provides over 15 years of extensive civil engineering experience and has served as EOR for various FDOT projects including Districtwide Projects. He has managed and engineered the development of plans and specifications for civil projects involving: Site Developments, Storm Drainage Systems, Paving and Grading, Water, Sanitary Sewer, Erosion Control and Utility Relocations. He has prepared plans and led the construction management for educational, pharmaceutical, commercial, water and wastewater infrastructure, and residential sector projects. He also led public and private capital improvement projects from the design stage up to implementation ensuring compliance with quality, budget, time, and safety standards. Additionally, he has been responsible for coordination with clients, city personnel, sub-consultants, permitting agencies, contractors, and the supervision of project personnel on major projects.

KEY PROJECTS

FDOT DISTRICT 6, SR 90/SW 8TH ST. AND SW 157TH AVE., SAFETY IMPROVEMENT PROJECT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JASON CHANG, PE, (305) 470-5331, Jason.chang@dot.state.fl.us:

Engineer of Record responsible for designing improvements to optimize safety and operations at the high-speed intersection of SR 90/SW 8th St. and SW 157th Ave., which was carried out through 0.52 miles. Tasks consisted of widening the northbound lanes providing an exclusive free-flowing left and right turn lane and widening of the eastbound and westbound accelerations lanes. Design also included shoulder reconstruction, milling and resurfacing, pavement markings, new guardrails, bike lanes, and signage. Performed pavement design and calculations. Also prepared design variations. Duration 2017-2019

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS, DESIGN-BUILD ON NE 2ND AVE. FROM NE 69TH ST. TO NE 84TH ST. ROADWAY AND DRAINAGE IMPROVEMENTS, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: LUIS BALDO, (305) 375-2111, Baldo@miamidade.gov:

Deputy Project Manager responsible for the widening and reconfiguration design of 5,016 feet of the four-lane undivided roadway segment. The corridor is generally commercial and light industrial with some residential areas. Improvement

design included the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, and sidewalk reconstruction. Design also involved new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, sign and pavement marking, and preparation of TTCP. Coordination was also made between all design disciplines such as roadway, signalization, SPM, street lighting, landscaping, drainage, water main lines, utilities, and environmental while maintaining the project on schedule. Performed pavement design and calculations. Project also included extensive public involvement and utility coordination. TTCP involved shifting of traffic as required to facilitate construction through railroad crossing while maintaining the existing railroad-crossing gate. This required coordination with the railroad company and provision in the design for a railroad flagger during construction. Duration 2016- 2018.

FDOT DISTRICT 6 SR 922/ NE 125TH ST. AT NE 10TH AVE. INTERSECTION, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: NATHAN PULIDO, P.E., (305) 470-5207, Nathaniel.pulido@dot.state.fl.us:

Project Manager and Engineer of Record for intersection improvements, drainage and signage design. In charge of designing mast arms placements and pedestrian signals, preparing TTCP, along with coordinating with the structural engineer. Pavement design was also completed. Duration: 2017-2019.

JOSE LOPEZ, P.E.

TRANSPORTATION ENGINEER

FDOT DISTRICT 6 SR 94/KENDALL DRIVE FROM SR 997/KROME AVE TO SR 5/SOUTH DIXIE HWY (RAPID TRANSIT STUDY), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: CARL FILER, P.E., (305) 392-2456, Carl.Filer@jacobs.com:

Project Engineer responsible for the analysis and design of Temporary Traffic Control Plan typical sections for five Kendall Drive built alternatives (Curbside BRT, Median BRT, Curbside BRT with Reversible Lanes, HRT Elevated and Hybrid HRT at grate). Duration: 2018- 2019.

FDOT DISTRICT 6, SR 25/NW 36TH ST. FROM NW 5TH AVE. TO NORTH MIAMI AVE. SAFETY PROJECT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: AURALIZ BENITEZ, P.E., (305) 470-5471, Auraliz.Benitez@dot.state.fl.us:

Engineer of Record and Project Manager in charge of designing roadway improvements according to safety recommendations made to mitigate hazardous conditions for all motorized and non-motorized traffic through the area. This included signalization improvements that provide orderly and predictable movement of traffic flow, additions of separators and medians to decrease conflict points wherein high rates of accidents were reported, milling and resurfacing to enhance road quality, Temporary Traffic Control (TTC) providing efficient movements around work zones, along with signing and pavement markings to ensure informed operations within the traffic stream. Also performed pavement design. Specific signalization designs consisted of new signalization loops and assembly, signal heads, pedestrian heads and detectors, sign panels including internally illuminated signs, and new mast arm. Duration: 2017-2019

FDOT DISTRICT 6, SR 25/NW 36 STREET FROM NW 20 AVENUE TO NW 19 AVENUE, FM 442537-1-52-01, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JASON CHANG, PE, (305) 470-5331, Jason.chang@dot.state.fl.us:

Engineer of Record and project manager responsible for designing roadway safety improvements. This resulted from a Safety Study, completed for this roadway segment and involved improvements to SR 25/NW 36 Street from NW 20 Avenue to NW 19 Avenue in the City of Miami. Improvements consisted of the installation of a new mast arm structure that included a high intensity activated crosswalk (HAWK) signal at the mid-block pedestrian crossing on NW 36th Street between NW 20th Ave. and NW 19th Ave. Pavement design was also performed. Duration: 2018-ongoing (98 Completed)

FDOT DISTRICT 6, SR 933/NW 12 AVENUE AT NW 19 STREET (INTERSECTION IMPROVEMENT PROJECT), FM 442538-1-52-01, MIAMI-DADE COUNTY, FL PROJECT REFERENCE: JASON CHANG, PE, (305) 470-5331, Jason.chang@dot.state.fl.us:

Engineer of Record and project manager for safety and operational intersection improvements. Tasks included designing a new traffic signal with vehicle video detection cameras, milling and resurfacing to implement pavement-marking changes, preparing TTCP, and replacement of pedestrian ramps. Pavement design was also performed. Additionally, coordination with Miami-Dade Transit and Metrorail to integrate future signal improvements within Metrorail right of way. Duration: 2018-ongoing (95% Completed)

FDOT DISTRICT 6, SR 944/NW 54 STREET AT NW 14 AVENUE, (INTERSECTION IMPROVEMENT PROJECT) FM 442539-1-52-01, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JASON CHANG, PE, (305) 470-5331, Jason.chang@dot.state.fl.us:

Engineer of Record and project manager responsible for designing roadway safety improvements. This resulted from a Safety Study, completed for this roadway segment and involved improvements to SR 944/NW 54 Street at NW 14 Avenue in the City of Miami. Safety improvements consisted of the installation of a new mast arm structure that included a crossing flashing beacon (RRFB) at the mid-block pedestrian crossing on NW 54 Street at NW 14 Avenue. Also completed pavement design. Duration: 2018-ongoing (98% Completed)

FDOT DISTRICT 6, SR 7/US 441/NW 7 AVENUE EMERGENCY SIGNAL AT NORTHSIDE POLICE STATION (SAFETY IMPROVEMENT PROJECT), FM 442540-1-52-01, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JASON CHANG, PE, (305) 470-5331, Jason.chang@dot.state.fl.us:

Engineer of Record and project manager responsible for safety improvements design for the Northside Police Station driveway in the West Little River area. This project resulted from an Intersection Qualitative Assessment and Signal Warrant Analysis dated October 2017, which recommended the installation of a new emergency traffic signal at the Northside Police Station driveway enabling preemption for the intersection located at SR 7 and NW 81st street. Pavement design was also prepared. Duration; 2018-2019



DAVID CHANG, P.E.

SENIOR CONSTRUCTION ENGINEER/MANAGER



HBC Tenure: 1 yr

Industry Experience: 38 yrs

Education:

Bachelor of Science,
Civil Engineering,
University of Florida, 1981

Registration:

Professional Engineer,
Florida-No. 41853, 1989

Qualifications:

- CTQP QC Manager
- CTQP Asphalt Paving Technician I & II
- CTQP Final Estimates Level I & II

- TTC Advanced Certification
- National Pollution Discharge Elimination System (NPDES Certified)
- Critical Path Method (CPM) Review Training

Mr. Chang brings more than 30 years of Construction Project Management, Construction Program Management and Construction Engineering Inspection (CEI) experience and has been involved in numerous prominent transportation construction projects in Miami-Dade and Broward Counties. Mr. Chang is currently managing the HBC Engineering CEI inspection teams as they provide services for Miami-Dade County Water and Sewer Department (MDWASD), Miami-Dade County Department of Transportation and Public Works (DTPW) and Miami-Dade County PortMiami. Mr. Chang oversees the work of project construction teams and handles all aspects of managing the department including administrative, strategic planning, budgeting, quality control and human resources tasks. Mr. Chang has successfully overseen construction project assignments with the Miami-Dade Expressway Authority General Engineering Consultant Contract, Florida's Turnpike Enterprise and FDOT.

KEY PROJECTS

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR 836 EXTENSION WESTBOUND ACCESS RAMP, INFRASTRUCTURE MODIFICATIONS FOR OPEN ROAD TOLLING (WEST SECTION), AND OVERHEAD SIGN STRUCTURE COATING DESIGN-BUILD (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for this grouping project consisting of the installation of five new Open Road Tolling gantry locations, mainline ramp, and toll plaza area reconstruction, westbound SR 836 access ramp construction, and cleaning and coating of existing overhead sign structures. Responsibilities included overseeing and ensuring the proper administration of the Design-Build contract according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards, coordination with MDX's Intelligent Transportation System Integrator and other FDOT projects in this highly traveled corridor, west of the Miami International Airport. Performed assurance of quality of construction operations, reviewed contractor's schedule, monthly payouts, assisted with negotiations of claims, as well as oversight of verification of materials testing. Duration: 2014-2017

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR 112 INFRASTRUCTURE MODIFICATIONS FOR OPEN ROAD TOLLING AND MISCELLANEOUS IMPROVEMENTS (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE

COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for installation of two new Open Road Tolling gantry locations, roadway lighting and signing upgrades, drainage upgrades, milling and resurfacing, and toll plaza demolition on the SR 112 corridor. Responsible for ensuring that contract was properly administered according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards. In charge of coordination with MDX's Intelligent Transportation System (ITS) Integrator and other FDOT projects. Performed quality assurance for construction operations, reviewed contractor schedules, authorized monthly payouts, assisted with claim negotiations, and supervised materials testing verification. Duration: 2013-2015

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR 874/KILLIAN PARKWAY INTERCHANGE IMPROVEMENTS (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for widening and reconstruction of the SR-874 mainline including 2 bridges over canals, a main interchange bridge and a complex ramp. Bridge reconstruction of two American Association of State Highway and Transportation Officials (AASHTO) Type II concrete structures which widened the mainline over canals requiring 18" concrete pile foundations, footings, columns, typical pier cap construction with concrete deck

DAVID CHANG, P.E.

SENIOR CONSTRUCTION ENGINEER/MANAGER

and overhang modifications. The main interchange structure over Killian Parkway consisted of a steel girder plate bridge with a reinforced concrete deck with a span of 260'. The fourth structure on the project was a new skewed bridge with complex geometry and AASHTO Type II and Type III beams which crossed over a CSXT railroad. Project also featured miscellaneous proprietary upright structures that were post-tensioned to accommodate monotube gantries and sign structures. Responsible for ensuring the construction contract was properly administered according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards, quality assurance of construction operations, review of contractor's schedule, monthly payouts, and assisted with negotiations of claims as well as oversight for verification of materials testing. Duration: 2008-2012

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR 924, SR 878 AND SR 874 INFRASTRUCTURE MODIFICATIONS FOR OPEN ROAD TOLLING DESIGN-BUILD (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for this Design-Build project consisting of roadway reconstruction, lighting and signing upgrades, drainage upgrades, milling and resurfacing, and toll plaza demolition on the SR 924 corridor. Open Road Tolling (ORT) gantries were also installed on the three corridors. Responsibilities included ensuring the construction contract was properly administered according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards, and coordination with MDX's Intelligent Transportation System Integrator, Florida's Turnpike Enterprise, and an existing MDX construction project on SR 874. Performed assurance of quality of construction operations, reviewed contractor's schedule, monthly payouts, assisted with negotiations of claims, as well as oversight of verification of materials testing. Duration: 2009-2011

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR-836 EXTENSION TOLL PLAZA SECTION DESIGN-BUILD (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for this Design-Build Project consisting of realignment and reconstruction of the SR-836 corridor between SW 107th Avenue and SW 87th Avenue along with the construction of two new toll plazas and two Open Road Tolling (ORT) gantries on the SR-836 mainline. Responsible for ensuring the construction contract was properly administered according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards. In charge of

quality assurance of construction operations, review of contractor's schedule, monthly payouts, and assisted with negotiations of claims, as well as oversight of verification of materials testing. Duration: 2005-2007

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR 836 WESTBOUND BRIDGE RAMP AND AUXILIARY LANE CONSTRUCTION (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for this bridge reconstruction and auxiliary lane construction project, consisting of conventional American Association of State Highway and Transportation Officials (AASHTO) concrete beam bridge with a length of 736' founded on 18" concrete piling, columns, pier cap, and end bent construction and concrete deck. Bridge construction spanned a canal and CSXT railroad. Responsible for ensuring the construction contract was properly administered according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards. Performed quality assurance of construction operations, review of contractor's schedule, monthly payouts, assisted with negotiations of claims, as well as oversight of verification of materials testing. Duration: 2005-2007

MIAMI-DADE EXPRESSWAY AUTHORITY (MDX), SR 836 WESTBOUND NW 57TH AVENUE BRIDGE WIDENING AND RAMP MODIFICATIONS (GEC CONSTRUCTION MANAGEMENT SERVICES), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: JUAN C. TOLEDO, PE, (305) 637-3277, jtoledo@mdxway.com:

Construction Project Manager for this bridge widening and ramp modification project. Bridge featured conventional American Association of State Highway and Transportation Officials (AASHTO) concrete beam bridge with a length of 170' founded on 18" concrete piling, footings, with pier cap construction, intermediate bent, end bent and deck construction. Road and bridge construction was performed in accordance with FDOT Standard Specifications for Road and Bridge Construction. Responsibilities included ensuring the construction contract was properly administered according to FDOT's Construction Project Administration Manual (CPAM) and client-specific construction standards, assurance of quality of construction operations, review of contractor's schedule, monthly payouts, assisting with negotiations of claims, as well as oversight for verification of materials testing. Duration: 2005-2007

DAVID CHANG, P.E.

SENIOR CONSTRUCTION ENGINEER/MANAGER

FLORIDA'S TURNPIKE ENTERPRISE (FTE), HOMESTEAD EXTENSION OF THE FLORIDA'S TURNPIKE (HEFT) SUNPASS CHALLENGE, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: MARIO ROJAS, PE - CONSTRUCTION PROJECT MANAGER, (305) 986-6417, mrojas@hntb.com:

Senior Project Engineer for this FTE's toll plaza conversion. Project included the addition of SunPass lanes at Mainline Toll Plazas, HEFT median safety upgrade, and resurfacing and signing upgrades. Responsible for project administration, inspections and documentation of Toll Plaza construction, milling and resurfacing and signing upgrade on four projects. Specific duties included supervising project personnel, monitoring sampling and testing activities, reviewing scheduling and claims, assuring documentation of the contractor's work effort, preparation and coordination of the submittal of final estimates. As Senior Project Engineer, was awarded Florida's Best in Construction 2005 Urban Award by the Florida Builders Transportation Association, Inc. Duration: 2003-2005

FDOT DISTRICT 6, CONSULTANT REVIEW CONTRACT SERVICES FOR FLORIDA DEPARTMENT OF TRANSPORTATION PERMITTING DEPARTMENT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ALI AL-SAID, PE – PERMITS ENGINEER, (305) 470-5367, ali.al-said@dot.state.fl.us:

Consultant providing reviews and approval of permit applications for access and drainage connections to the state road system. Review of access connections for conformance with FDOT Access Management Criteria. Evaluation of permits for other work, such as utilities, filming, banners, special permits. Duration: 2000-2002

FDOT DISTRICT 4, CITY OF TAMARAC SIDEWALK IMPROVEMENTS, TAMARAC, BROWARD COUNTY, FL, PROJECT REFERENCE: HASSAN ABEDI, PE, (954) 958-7629, hassan.abedi@dot.state.fl.us:

Project Engineer/Administrator responsible for Construction Engineering and Inspection (CEI) services on sidewalk enhancement features in numerous locations throughout the City of Tamarac. Duration: 2001

FDOT DISTRICT 1, THERMOPLASTIC STRIPING CONTRACTS, CITY OF BARTOW, POLK COUNTY, FL, PROJECT REFERENCE: MADELINE WADDELL

Project Engineer/Administrator responsible for Construction Engineering and Inspection (CEI) services for numerous thermoplastic striping contracts throughout District 1, in Central Florida. Duration: 2001-2002

FLORIDA'S TURNPIKE ENTERPRISE (FTE), SR 821 (HEFT) AT CAMPBELL DRIVE, MIAMI- DADE COUNTY, FL, PROJECT REFERENCE: MARIO ROJAS, PE - CONSTRUCTION PROJECT MANAGER, (305) 986-6417, mrojas@hntb.com:

Project Engineer for the construction of road, on and off-ramps, bridges, and two Toll Plazas at Campbell Drive on the Homestead Extension for Florida's Turnpike (HEFT) in Homestead, Florida. Required American Association of State Highway and Transportation Officials (AASHTO) pre-stressed girder conventional bridge construction with MSE wall for the construction of an on-ramp and off-ramp with Toll Plazas. Duration: 1999-2001

FLORIDA'S TURNPIKE ENTERPRISE (FTE), TURNPIKE MAINLINE AT TAMIAMI TRAIL/SR 836, MIAMI- DADE COUNTY, FL, PROJECT REFERENCE: MARIO ROJAS, PE - CONSTRUCTION PROJECT MANAGER, (305) 986-6417, mrojas@hntb.com:

Project Engineer responsible for road and bridge widening, and Toll Plaza construction for this \$6 million contract. Project included the construction of a post tensioned bridge over a canal along with bridge widening on the mainline. Provided Construction Engineering and Inspection (CEI) services as required by FDOT. Duration: 1991-1992

FDOT DISTRICT 6, SR 112 AIRPORT EXPRESSWAY RAMP CONNECTOR, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: EDWIN SANTANA, PE, (305) 235-5098, esantana@metriceng.com:

Project Engineer responsible for coordination of Construction Engineering and Inspection (CEI) services on this ramp connection project adjacent to the Miami International Airport. Project consisted of the construction of an AASHTO concrete beam and steel box girder bridge over LeJeune Road, in Miami. The construction cost for this project was \$17 million. Duration: 1989-1991



EDGAR DIAZ, M.S., P.E.

UTILITY COORDINATOR



HBC Tenure: 11 yrs
Industry Experience: 34 yrs

Education:
Bachelor of Science,
Civil Engineering
Florida International University,
1992
Master of Science,
Civil Engineering
Florida International University,
1999

Registration:
Professional Engineer,
Florida No. 50728
Professional Engineer,
Puerto Rico No. 27906

Qualifications:

- Advanced Maintenance of Traffic Training
- OSHA 30 Hour Certificate
- Proficient with WASD's Proliance Program Management Software

Mr. Diaz has 34 years of experience of major civil engineering projects with substantial public works experience in transportation and utilities experience. Mr. Diaz has performed in various capacities that include task, discipline and project management during conceptual, preliminary, final design, and construction of sites, utilities, bridges, roadways, rails, and tunnel projects. His experience was acquired while working on projects within the United States and the Caribbean. Prior to joining HBC, Mr. Diaz served with Miami-Dade County as Project Manager and other consulting firms. He is responsible for overseeing the design and construction of various utility and roadway projects. He has successfully managed engineers, planners and technicians as part of project teams with the purpose of developing design and construction plans/documents for utility projects and various types of roadway projects including interstate, arterial, and local roads. Mr. Diaz recently finished a tenure of six years as Senior Construction Manager for the MD WASD Consent Decree Program on major wastewater treatment plant projects. He has managed numerous projects which are critical and require special handling of stakeholders, public relations, multiple governmental entities, and environmental permitting combined with specialized technical requirements. He has earned the reputation as a leader having continually delivered projects on schedule and within budget at no sacrifice to quality and responsiveness. Mr. Diaz's experience includes baseline schedule approval, in-field project coordination, supervising inspectors roles, pre-construction conferences, regular site visits, shop drawing review, managing RFIs, field directives, witness testing of equipment and materials, payment requests, contract administration, commissioning of pump stations and acting as a liaison between the owner, contractor, and the engineer.

KEY PROJECTS

MIAMI-DADE COUNTY WASD CONSENT DECREE – SEWER COLLECTION AND TRANSMISSION IMPROVEMENTS, MIAMI-DADE, FL:

Responsible for major MDWASD projects including the installation of 2 miles of 54-Inch force main running parallel to the north runway along the Opa-Locka Airport and reconstruction of seven large pump stations with capacities of over 14-Million Gallons per Day (MGD). Tasks included Pre Construction meetings, review and approval of Construction Schedules, Safety Plans, Schedule of Values, conducted periodic Construction Meetings, review Request for Information, manage Submittals of Equipment and Materials, manage monthly Payment Requisitions, responsible of processing Change Orders including review of Contractor's Propose Change Orders, preparation of package for Board of County Commissioners Approval. During the Commissioning phase of the Pump Stations responsible of Pre-Demonstration and Demonstration of the pump station Primary Control Equipment, HVAC, Valves, SCADA, Generator,

coordination with multi division personnel. Preparation of permitting package for Certification of Use with permitting agencies, preparation of Punch List items at Substantial Completion phase, review of As-Built Plans, preparation of Final Checklist Package to certify compliance with USEPA Consent Decree Mandate. Duration: 2016-2019

MIAMI-DADE COUNTY WASD CONSENT DECREE – SEWER COLLECTION AND TRANSMISSION IMPROVEMENTS, MIAMI-DADE, FL:

Senior Project Manager - Develop project specific Scope of Work for several Force Main and Pump Station projects, Negotiated Consultant Fee and Schedule, responsible to managed various consultants design from route alignment to final plans, quantities evaluation, specifications evaluation, permitting coordination, preparation of bid package, evaluated bid tabulation to prepare opinion of bid and recommendation for contractor award, prepared Construction Conformed Set. Duration: 2014-2016

EDGAR DIAZ, M.S., P.E.

UTILITY COORDINATOR

I-595 CORRIDOR ROADWAY IMPROVEMENTS, BROWARD COUNTY, FL, PROJECT REFERENCE: REY RIVAS, PE, (305) 594-0457:

Lead Roadway Discipline Engineer responsible for roadway design, analysis and quality control of approximately 11 miles of the project. This \$900 million PPP project included 11 miles of reversible/managed lanes for the I-595 and 2 miles of ramp interconnections between the I-595 corridor and Florida's Turnpike. Responsible for geometric design of roadway, including ramps, median barrier modifications and new barrier walls. Was also responsible for post design services during construction. Duration: 2011-2014

PORT OF MIAMI TUNNEL, MACARTHUR CAUSEWAY TO DODGE ISLAND, FLORIDA DEPARTMENT OF TRANSPORTATION REFERENCE: TERESA ALVAREZ (305) 470-5142:

Engineer of Record for the project Design Variations that required approval from FDOT's Central Office and FHWA. For this 3P project was responsible for the preparation of preliminary plans, geometric design, and documents used as the basis of design for the project's Request for Proposal. As a member of the Technical Expert Panel, participated in Project Information and One-On-One meetings, Technical Proposal Evaluation and Recommendation for Award. This \$1.2 billion PPP project involved MacArthur Causeway Bridge widening, roadway construction, two 42-Foot Diameter bored tunnels connecting Watson Island and Dodge Island (Port of Miami), and utility and rail relocation. Duration: 2004-2009

PORT OF MIAMI REDEVELOPMENT - WATER AND SEWER IMPROVEMENTS MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ELIZABETH OGDEN, RA, 305-347-4892:

Project Manager responsible for the design, permitting, and construction support services for water and sewer distribution system for the Port of Miami. Responsibilities consisted of complete design services of various roads, drainage systems, water mains, and sewer force mains, which included route analysis, site evaluation, cost estimates, coordination of surveying services, evaluated and developed construction phasing plans, coordinated with other utilities. Prepared permitting documents, assisted Miami-Dade County during the procurement phase and performed construction services. During Construction provided site inspections and attended construction meetings, reviewed shop drawings, review of change orders as well as managing request for information. Duration: 2003-2006

PORT OF MIAMI REDEVELOPMENT, EAST AND WEST PORT BLVD., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ELIZABETH OGDEN, RA, 305-347-4892:

Project Manager responsible for this \$12 million project. The project involved reconstruction of the main entry/exit road and support roadways into the Port. Major tasks included the design of roadway geometry, two signalized intersections, and the roadway lighting system. Responsible of design and review of construction documents, specifications and bid documents. Prepared permitting documents for various local and state agencies including coordination with multi-disciplinary firms including post design construction services. During Construction provided site inspections prepared schedules, attended construction meetings, reviewed shop drawings, review of change orders as well as managing request for information. Duration: 2003-2009

PORT OF MIAMI WHARF 6 & 7 BACKLANDS - MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ELIZABETH OGDEN, RA, 305-347-4892:

Project Manager for the design and post design services for Terminal Redevelopment project at the Port of Miami. The scope specifically included the following tasks: Development of a conceptual design, pavement design to support Taylor top loaders and rubber tired gantry cranes, its operations and loading characteristics, responsible for designing the drainage and stormwater collection system for the project site meeting local, state, and federal regulatory agencies requirements. Utility plans were developed to allow cargo movement during all phases of construction and normal operations. Duration: 2006-2009

NORTH EAST TRANSIT HUB ENHANCEMENTS AT 163RD STREET MALL, MIAMI-DADE TRANSIT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ORLANDO CAPOTE, (786) 469-5248:

Performed roadway and site development for the reconstruction of NE 167th Street from NE 14th Avenue to NE 15th Avenue and also reconstruction and milling and resurfacing of NE 15th Avenue from NE 164th Street to NE 167th Street. Responsible of the preparation of construction documents, technical specifications, estimate of construction cost, dry run permitting, bid and award Services and design services during construction. Design elements included pavement, drainage, roadway and pedestrian lighting, signing and pavement markings, signalization, landscaping, and utility coordination. Performed coordination and presentations with agencies and organizations, including but not limited to MDT, DTPW, TARC, FDOT, City of North Miami Beach, appropriate permitting agencies and committees, 163rd Street Mall and Wal-Mart. Duration: 2011-2015

WINTER HAVEN CSX INTERMODAL LOGISTICS HUB, WINTER HAVEN, FL, PROJECT REFERENCE: RICK HOOD (904) 633-4547:

Engineer of Record (EOR) for the CSX's Integrated Logistics Center, (Polk County, Florida) The project occupies approximately

EDGAR DIAZ, M.S., P.E.

UTILITY COORDINATOR

318 acres and supports a Major Intermodal Terminal operation and the other is CSX's Automotive Service operation. As the EOR he was responsible for the preparation of site construction documents for both facilities, design of a new 2.2 mile of 2 lane road connecting the ILC to SR 60. Specific disciplines included the site geometric layout, paving and grading, main access road, site roadways, water and sewer distribution, utilities, parking facilities, signalized intersections, pavement markings and signing, lighting, and coordination with local and state permitting agencies as well as multi-disciplinary firms. Duration: 2007-2009

SR-713/KINGS HWY FROM OKEECHOBEE RD TO N. I-95 OVERPASS, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), DISTRICT 4, BROWARD COUNTY, FL, PROJECT REFERENCE: BING WANG, PE (954)777-4419:

EOR responsible for the lighting design of approximately 3.3 miles of roadway reconstruction and retrofitting multiple signalized intersection. Duration: 2012-2014

SR-80/SOUTHERN BLVD. FROM WEST OF LION COUNTRY SAFARI ROAD TO FOREST HILL/CRESTWOOD BLVD., FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), DISTRICT 4, BROWARD COUNTY, FLORIDA. PROJECT REFERENCE: JAMES HUGHES, PE, CONTACT NUMBER: 954-777-4419:

EOR responsible for the signalization design of 4 signalized intersections (Lion Country Safari Road, Binks Forest Drive, Big Blue Trace, Palms West Parkway) for this widening and resurfacing project all 4 signals required replacements. The design required coordination with Palm Beach County the maintenance agency. There are 4 PTMS count station/sites that will be replaced. Design activity includes MOT signal design. Duration: 2012 – 2016

SR 9/I-95 from South of SR 614/Indrio Road to St. Lucie/Indian River County Line, St. Lucie County, Florida Department of Transportation (FDOT), District 4, Broward County, Florida. Project Reference: Bing Wang, PE, Contact Number: 954-777-4419:

Engineer responsible for the design, quality control, and post design services for this roadway lighting Design/Build Project. Responsible design elements included roadway pole lighting, underdeck lighting, and sign lighting. Duration: 2011 – 2013

SW 147 Avenue from Coral Way to SW 10th Street, Miami-Dade Parks & Recreation, Miami-Dade County, Florida Project Reference: Lydia Salas, PE, Contact Number: 305-755-5456:

Performed as the lighting designer, quality control, and post design services for this project. Responsible for this widening and new construction of 4 lane roadway project. Responsible design

elements included roadway lighting.

Other Roadway Experience Projects:

Responsible for the coordination and/or preparation of construction and permitting documents and permitting for roadway projects that included disciplines like; roadway design, geometry, storm drainage system, signing and pavement marking, signalized intersections, and lighting plans for the following projects:

- NW 95th Street from NW 27th Avenue to I-95
- Lincoln Road Blvd. from SW 117th AV to SW 152nd Street
- W 76th Street from W 36th Avenue to W 20th Avenue
- W 60th Street from W 28th Avenue to W 12th Avenue (Crossing under SR 826)
- 23rd Street and Dade Boulevard Bridge Over Collins Canal
- NE 1st Avenue and NE 2nd Avenue from NE 5th Street and NE 6th Street to I-395
- SW 137th Avenue from SW 184th Street to SW 152nd Street
- SW 137th Avenue from SW 88th Street to SW 40th Street
- SW 109th Avenue from SW 8th Street to Flagler Street
- NE 2nd Avenue from NE 91st Street to NE 115th Street
- SW 328th ST from SW 162nd Avenue to SW 152nd Avenue
- NW 95th Street from NW 27th Avenue to I-95to certify the project, and obtained release of permits to operate the force main.
- 23rd Street and Dade Boulevard Bridge Over Collins Canal
- NE 1st Avenue and NE 2nd Avenue from NE 5th Street and NE 6th Street to I-395



ORLANDO PENATE, P.E.

SENIOR ELECTRICAL ENGINEER



HBC Tenure: 4 yrs

Industry Experience: 14 yrs

Education:

Bachelor of Science,
Electrical Engineering,
University of "Marta Abreu de
las Villas", Cuba, 2006

Registration:

Professional Engineer,
Florida-No. 80385

Qualifications:

- Bentley MicroStation Certification
- AutoCAD Certification
- Specifications Package Preparation Training for Consultants
- Open Road Designer

Mr. Penate's experience as a lighting design engineer includes production and management of all phases of lighting design projects including preliminary and final design working directly with project designs and direction junior engineers, designers, and CADD technician to successfully execute and deliver project work, while implementing client focused strategies.

KEY PROJECTS

SR 5/US 1 SIGNALIZED INTERSECTION LIGHTING FROM SW 132ND AVE. TO SW 112TH ST. PROJECT REFERENCE: FDOT D6, PATRICK MARCHANT, PE, (305) 470-5299, Patrick.marchant@dot.state.fl.us:

Engineer of Record and Project Manager responsible for designing a lighting system for 23 signalized intersections within the Village of Palmetto Bay, Village of Pinecrest, and Town of Cutler Bay, FL. Design consisted of retrofitting existing poles by replacing (HPS) luminaires with (LED) luminaires, considering overhead electrical and utilities lines. Also prepared design variation. Project Duration: 2017-2018

SR 5/US 1 SIGNALIZED INTERSECTION LIGHTING FROM PALMETTO/SW 98TH ST. TO GRANADA BLVD. PROJECT REFERENCE: FDOT D6, PATRICK MARCHANT, PE, (305) 470-5299, Patrick.marchant@dot.state.fl.us:

Engineer of Record and Project Manager responsible for designing a lighting system for 15 signalized intersections within the City of South Miami, City of Coral Gables, and Village of Pinecrest, FL. Design consisted of retrofitting existing poles by replacing (HPS) luminaires with (LED) luminaires at each signalized intersection and adding new light poles with LED luminaires at specific locations to meet roadway and pedestrian lighting design criteria. Calculations were also performed through AGI 32 to run point-by-point photometric analysis. Design required Temporary Traffic Control Plans (TTCP), roadway design, surveying services, interdisciplinary and governmental entity coordination. Accommodated FPL LED additions by creating extra sets of plans. Project Duration: 2017-2018

NE 2ND AVE. DESIGN BUILD PROJECT FROM NE 69TH ST. TO NE 84TH ST. PROJECT REFERENCE: MIAMI DADE COUNTY DTPW, LUIS BALDO, (305) 282-0281, Luis.Baldo@miamidade.gov:

Engineer of Record in charge of designing a lighting system for the widening and reconfiguration of 5016 feet of a four (4) lane roadway segment. This included the additions of decorative lighting throughout corridor. Overall project required design for drainage, lighting, signalization, roadway reconstruction as well as public involvement. This consisted of the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, and sidewalk reconstruction, new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, sign and pavement marking, and preparation of TTCP. Coordination was also made between all design disciplines such as roadway, signalization, SPM, street lighting, landscaping, drainage, water main lines, utilities, and environmental, and railroad company while maintaining the project on schedule. Project Duration: 2016-2019

SR A1A/COLLINS AVE. SIGNALIZED INTERSECTION LIGHTING FROM 18TH ST. TO 65TH ST. PROJECT REFERENCE: FDOT D6, PATRICK MARCHANT, PE, (305) 470-5299, Patrick.marchant@dot.state.fl.us:

Engineer of Record and Project Manager who designed a lighting system for 18 signalized intersections. The project area stretched throughout Miami Beach, FL covering 3.910 miles. This involved retrofitting existing poles by replacing High Pressure luminaires with Light Emitting Diode (LED) at each signalized intersection and adding new light poles with LED luminaires at specific locations to

ORLANDO PENATE, P.E.

SENIOR ELECTRICAL ENGINEER

meet roadway and pedestrian lighting design criteria. Calculations were also performed through AGI 32 to run point-by-point photometric analysis. A full inventory of the existing luminaires was collected to efficiently identify each owner, manufacturer, and retrofit that would be used in the proposed improvements. Responsibility also consisted of preparing and providing submittals through digital delivery, preparing Light Design Analysis Report, and perform permitting review through FDOT's One Stop Permitting. Design required Temporary Traffic Control Plans (TTCP), roadway design, surveying services, interdisciplinary and governmental entity coordination. Design also considered environmental and seaward Coastal Construction Control Line (CCCL). Lighting design resulted in increase of visibility and provided pedestrian safety. Duration: 2018-2019

SR-713/KINGS HWY. FROM SOUTH OF SR-70 TO NORTH OF PICOS ROAD. PROJECT REFERENCE: FDOT D4, BING WANG, PE, (954) 777-4406, Bing.Wang@dot.state.fl.us, BCC ENGINEERING, OSCAR OLIVA, PE, (305) 670-2350 ooliva@bcceng.com:

Engineer of Record who designed new lighting system for a total of 2.2 miles. Responsibilities included performing a lighting analysis, preparing a lighting design analysis report and design file, and submitting voltage drop calculations. Duration: 2016-2017

SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS, GROUP/PRIORITY 1 , PROJECT REFERENCE: FDOT D4, ROBERT LOPES, PE, (954) 777-4425, Robert.lopes@dot.state.fl.us:

Engineer of Record who is responsible for designing lighting improvements for 21 intersections that include lighting retrofits. Also responsible for necessary interdisciplinary coordination, Municipalities and FPL. Design improvements will increase passenger transit and enhancing overall patron experiences. Duration: 2019-ongoing

I-75 ALLIGATOR ALLEY ENVIRONMENTAL EDUCATION PROJECT. PROJECT REFERENCE: FDOT D4, VANDANA NAGOLE, (954) 777-4680, Vandana.Nagole@dot.state.fl.us, EAC CONSULTING, INC., RODNEY C. DEVERA, PE, (305) 265-5462, rdevera@eacconsult.com:

Engineer of Record responsible for designing lighting related to the improvements for existing I 75/Alligator Alley rest area by constructing educational amenities within the existing site. Replace lighting impacted by reconfiguration of site plan. Duration: 2019-ongoing

SR-817/UNIVERSITY DRIVE FROM N OF WB SR-84 TO NORTH OF NW 1ST STREET. PROJECT REFERENCE: FDOT D4, ALEXANDER ESTRADA, (954) 777-4296, Alexander.Estrada@dot.state.fl.us, A&P CONSULTING TRANSPORTATION ENGINEERS, EITHEL M. SIERRA, PE, (786) 257-3118, emsierra@apcte.com:

Lighting Design Engineer of Record for corridor along SR-817/University Drive from N. of WB SR-84 to N. of NW 1st Street is with four signalized intersections within the segment to retrofit. The project will entail roadway widening, milling, and resurfacing, new sidewalks, signing and pavement markings, new signal mast arms, pedestrian signals upgrades, lighting, and pedestrian lighting. Duration 2019-ongoing

OKEECHOBEE CORRIDOR WIDE DESIGN SUPPORT SERVICES ON SR 25/US 27/OKEECHOBEE ROAD FROM DADE/BROWARD COUNTYLINE TO WEST OF HEFT. PROJECT REFERENCE: FDOT D6, ELSA RIVEROL, PE, (305) 470-5105, Elsa.Riverol@dot.state.fl.us:

QA-QC Engineer responsible for reviewing Lighting Plans for the design phase of a 4.3 -mile rural corridor. QA/QC was performed for capacity improvements of Okeechobee Road and involved a frontage road, widening, milling, resurfacing and reconstruction using rigid pavement. Task also consisted of continuous communication with FDOT project manager, FDOT Design Department, and HDR Engineering as prime consultant. Duration: 2017-ongoing



SONNY D. ABIA, P.E., PhD

SENIOR ENGINEER



HBC Tenure: 1 yr
Industry Experience: 32 yrs

Education:
Ph.D.,
Civil Engineering
University of Miami, 2014
Master of Science,
Civil Engineering
Florida International University
1992

Registration:
Professional Engineer,
Florida-No. 48190

Qualifications:
- TTC Advanced
Certification
- Certification General
Course in Construction
City and Guilds of
London Institutes

Dr. Abia is a Florida Professional Civil Engineer with over 30 years of design/construction experience in several specialties including Highway/Roadway design and construction, building/structures design, building inspections, plans production, permitting, land development, project and consultant management, contract administration, cost estimate, plans review and specifications. Other specialties include extensive project management experience including bascule bridges, public outreach and training in public management, statistical analysis, process design and quality control, projects scheduling, coordination with Federal, State, and Local Agencies. Dr. Abia has directed and overseen several highways and bridges design projects involving different types of permitting processes including construction within coastal line.

KEY PROJECTS

FDOT FDOT AND MIAMI-DADE COUNTY HIGHWAY BRIDGE DESIGN, FL:

- Project Manager for the design of Bascule Bridge over Intracoastal Waterway along Oakland Park Blvd.
- Project Manager Design and Construction of Bridge over Canal, NE 2nd Ave.
- Project Manager for the Metro-Rail extension above grade alignment to the Miami-Dade Expressway Authority and several Bridge Widening projects.

BEACH PRIVATE AND GOVERNMENT ENTITY DESIGN AND BUILDING, FL:

- POP'S Garage, Fort Lauderdale - Design and completed Single Story Reinforced Masonry and Concrete Structures. The design included all components from site clearing to complete design and all structural. Designed to include, wind loads, foundation, walls, beams, columns and beams, roof anchors and Straps. Work also included Electrical, Plumbing and Mechanical design, Parking and drainage.
- NW 47 Ave Miami- Design and completed Single Story Structures.
- Mr. and Mrs. Briggs, Miami - Design of Aluminum Porch and addition to existing structures.
- Deutsche Bank, Fort Lauderdale - Design of addition to

corporate apartments.

- Mr. Rodriguez, 17639 SW, Miami - Partial modification of residential home.
- 3220 Douglass Road, Miramar - Design of Dumpster Enclosure.
- Edible Arrangement, 6960 Collins Ave, Miami - Reconfiguration of office space to Mercantile.
- Industrial Silo, Miami Lakes - Design of foundation.

40-YEARS RECERTIFICATION INSPECTION, MIAMI-DADE COUNTY, FL:

- EDEN Roc Hotel and Jimmy Johnson Restaurant, Miami Beach
- 7115 Rue Granville Apartments, Miami Beach
- 6500 NE 2ND Ave., Miami
- 3400 NW 135th St., Opa-Locka
- 1476 NE 130th Street, Miami
- 1478 NE 130th Street, Miami
- 1600 NW 20th Street, Miami
- 1474 NE 130th Street, Miami
- 1470 NE 130th Street, Miami
- 5570 N Miami Ave., Miami
- 481 Sharar Ave., Opa-Locka
- 491 Sharar Ave., Opa-Locka

SONNY D. ABIA, PhD, P.E.

SENIOR ENGINEER

LINCOLN FDOT DISTRICT 4: SR-9/I-95, ST. LUCIE WEST BLVD. INTERCHANGE IMPROVEMENT, PERMIT PROJECT, ST. LUCIE COUNTY, FL, PROJECT REFERENCE: JOSEPH BORELLO FDOT, 954-777-4426; FRED BURKETT- KIMLEY-HORN AND ASSOCIATE (KHA), 407-898-1511:

Widening St. Lucie West Blvd. to a six-lane urban typical section from Commerce Center Parkway to NW Peacock Blvd. Widening of existing Bridge and construction of parallel bridge over I-95 and Widening and incidental improvement to the ramp termini. This project was prepared for the City of Port St. Lucie and funded by Kolter Corporation. Project Manager responsible for managing the design of the project to ensure that it conforms to FDOT and FHWA standards. Coordination and review of pavement design, typical section, drainage and environmental permits. Reviewed responses to comment using Electronic Review system.

FDOT DISTRICT 4: SR-9/I-95 FROM DANIA CUTOFF CANAL TO SOUTH FORK NEW RIVER BRIDGE: FPID# 231732-1-52-01, BROWARD COUNTY, FL, PROJECT REFERENCE: JOSEPH BORELLO – 954-777-4426; MIKE CISCAR - THE CORRADINO GROUP, 954-777-0044:

Milling and resurfacing of 16 lanes, Signing and Marking plans including overhead cantilever sign, slope corrections, glare screens over existing barrier wall and Landscaping design around the interchange of I-95/I-595. Project Manager responsible for managing the project from consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, Maintenance Agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-5/US-1 FROM SAMPLE ROAD TO NE 54 STREET TO HILLSBORO BLVD – BROWARD COUNTY: FPID# 403575-1-52-01 & 403575-2-52-01, PROJECT REFERENCE: JOSEPH BORELLO-954-777-4426; ALEX MEITIN – DMJM-HARRIS, 305-345-7136:

Milling and resurfacing of 6 lanes of urban roadway, signing and marking plans, signalization, landscaping and irrigation system. Median modification to extend turn lanes, ADA ramps. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection

through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, Maintenance Agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-A1A (OCEAN BLVD.) LINTON BLVD TO E ATLANTIC BLVD TO GEORGE BUSH BLVD – PALM BEACH COUNTY: FPID# 403603-1-52-01 & 229748-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO-954-777-4426; RICK CROOKS – EAC CONSULTING, 954-733-8004:

Widening of existing rural roadway to accommodate bicycle lanes, milling and resurfacing of 4 lanes of roadway, signing and marking plans, landscaping and irrigation system. Work also include Drainage design, sidewalk, Decorative Lighting and Signalization. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-816 (OAKLAND PARK BLVD.) FROM BAYVIEW DRIVE TO A1A-BROWARD COUNTY: FPID# 228156-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO - 954-777-4426; RICK CROOKS –EAC CONSULTING, 954-733-8004:

Milling and resurfacing of 6 lanes of urban roadway, signing and marking plans, landscaping and irrigation system. Drainage, sidewalk, decorative lighting, signalization and parking. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval

SONNY D. ABIA, PhD, P.E.

SENIOR ENGINEER

of each phase completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-816 (OAKLAND PARK BLVD.) FROM SR-7 (US441) TO TRI-RAIL RR-BROWARD COUNTY: FPID# 413886-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO- 954-777-4426; MARWAN MUFLEH, KHA:

Milling and resurfacing of 6 lanes of urban roadway, signing and marking plans, landscaping and irrigation system. Miscellaneous drainage, sidewalk, decorative lighting and signalization. Median modification to extend turn lanes, ADA ramps and side street widening at NW 36 Ave. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-786 (PGA BLVD) FROM SR-811(DIXIE HWY) TO SR-5(US-1)-PALM BCH. COUNTY: FPID# 229786-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO -954-777-4426; MR. ROSE – ADAIR & BRADY:

Milling and resurfacing of 6 lanes of urban roadway, signing and marking plans, landscaping and irrigation system. Drainage design, sidewalk, decorative lighting and signalization. Median modification to extend turn lanes, ADA ramps. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-15/US-441: FROM PALM BCH COUNTY LINE TO SR-76 - MARTIN COUNTY: FPID# 411436-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO- 954-777-4426; ROGER WALKER- 561-392-9578:

Milling and resurfacing of 2 lanes of Rural roadway, Signing and Marking plans, Superelevation correction, Guardrail and selective Clearing and Grubbing. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, Maintenance Agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-15/80/MAIN STREET: FROM AVE E. TO CANAL STREET-PALM BEACH COUNTY: FPID# 4137991-1-52-01, PROJECT REFERENCE JOSEPH BORELLO- 954-777-4426; GINO CHARLES - G&O, 561-686-7707:

Milling and resurfacing of 4 lanes of urban roadway, signing and marking plans, landscaping and irrigation system. Drainage design, sidewalk, decorative lighting and signalization. Median modification to extend turn lanes, ADA ramps. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, Maintenance Agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-800/SPANISH RIVER BRIDGE: BRIDGE OVER ICC WATER WAY-PALM BCH. COUNTY: FPID# 412487-3-52-01, PROJECT REFERENCE: JOSEPH BORELLO-954-777-4426; SERGE STIVENS – LICHTENSTEIN, 954-970-4240:

Bascule bridge rehabilitation, replacement of system controls, breaks, repair of tender house, and maintenance of traffic

SONNY D. ABIA, PhD, P.E.

SENIOR ENGINEER

throughout repairs period. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, Maintenance Agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: I-75/MIRAMAR PARKWAY INTERCHANGE: BROWARD COUNTY: FPID# 414561-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO- 954-777-4426 (PENDING CONSULTANT SELECTION):

Urbanization of the interchange to improve operational capacity. Work also include signalization, landscaping, drainage design, signing and pavement marking. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-700/US98 FROM SR-80 TO SR-15-PALM BCH. COUNTY: FPID# 415317-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO -954-777-4426; MIKE CISCAR – CORRADINO, 954-777-0044:

Milling and resurfacing of 2 lanes of urban roadway, Signing and Marking plans, Geotechnical investigation of side slope blowouts and design mitigations using geoweb. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public

information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-76: FROM PRATT WITNEY TO WEST OF TURNPIKE: -MARTIN COUNTY: FPID# 415304-1-52-01, PROJECT REFERENCE: JOSEPH BORELLO- 954-777-4426; ROGER WALKER-561-392-9578:

Milling and resurfacing of 2 lanes of rural roadway, signing and marking plans, signal analysis and safety review. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services, negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, maintenance agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package.

FDOT DISTRICT 4: SR-9/I-95: AT INDRIO, ST. LUCIE WEST AND GATLING RD. ST. LUCIE COUNTY: FPID# 416382-1-52-01. AT CR-708 AND SR-76-MARTIN COUNTY: FPID# 416383-1-52-01. AT INDIAN TOWN RD-PALM BCH. COUNTY: FPID# 416384-1-52-01 AND AT CR-512-INDIAN RIVER COUNTY: FPID# 416385-1-52-01.

Provide Design and Build Package for Median Guardrail design to prevent cross over accidents. Works also include miscellaneous asphalt under guardrail, end anchorages at bridges and miscellaneous earthwork. Project Manager responsible for managing the project from Consultant selection to production of complete set of plans for construction. These duties involved consultant selection through advertisement, setting of scope of services negotiation, contract procurement, management of the design contract, invoices review and payments to the consultant, progress reports, consultant evaluations, design and coordination of permits, Maintenance Agreement, public information workshop and liaison between the FDOT and the local agencies. Review and approval of completed plans and all supporting documents for production complete package. Ref: Joseph Borello-954-777-4426; Mike Flick –HDR, 305-557-4770.



ROBERTO RUBIO, P.E.

STRUCTURAL ENGINEER



HBC Tenure: < 1 yr
Industry Experience: 23 yrs
Education:
Master of Science,
Civil Engineering,
University of Washington,
1987

Registration:
Professional Engineer,
Florida-No. 48982

Mr. Rubio graduated from the University of Wisconsin in 1987 with a M.S. in Civil Engineering and is a seasoned Structural Engineer. Before joining HBC Engineering Company he 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 has provided Construction Support Services 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 Florida Department of Transportation (FDOT) District 4.

KEY PROJECTS

SR 714/MARTIN HIGHWAY FROM CITRUS BLVD TO MARTIN DOWNS BLVD, FDOT FPID 436870-1-52-01, MIAMI-DADE COUNTY, FL:

Subconsultant to Engineer of Record in charge of design of new signal mast arm structures as part of reconstruction of two intersections near the interchange between SR-714 and the Turnpike. Used FDOT Mast Arm Spreadsheet and MathCAD programs. Duration: 2018-2019

HEFT II FLORIDA TURNPIKE FROM SUNSET DR TO BIRD RD, FDOT FPID 427146-1-52-01:

Construction Support Services Structural Engineer. The services I was entrusted with included development of repair procedures for prestressed Florida I beams damaged during transportation and installation on 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. Duration: 2017-2018

POST DESIGN SERVICES FOR RECONSTRUCTION OF BOAT DOCKS AT CRANDON PARK MARINA, MIAMI-DADE COUNTY, FL:

Acting Engineer of Record in charge of RFI responses and specialty inspections during the replacement of timber piles and fenders with reinforced plastic marine lumber, and the repair of

damages to the reinforced concrete decks and pedestrian access ramps. The marina consists of 8 boat docks of 16 piles each, separated by reinforced concrete boat ramps. Attended weekly progress meetings and prepared the final as-built plan set. Duration: 04/2017-10/2017.

CITY OF BOCA RATON MUNICIPAL SERVICES DEPARTMENT, TASK WORK ORDER 10:

Engineer of Record in charge of evaluation and recommendations for the repair of traffic signal mast arm structures hit by vehicular traffic at four intersections. Recommendation to replace the pole or mast versus wrapping it with FRP to restore capacity among other repairs. Included inspections, analysis, research, and final report. Duration: 03/2017-06/2017

ON-CALL PROFESSIONAL ENGINEERING SERVICES FOR MONROE COUNTY, FLORIDA:

Engineer of Record for rehabilitation of emergency rescue boat dock at Big Pine Key Park, Florida: design for replacement of entire timber deck, bumpers, cleats, access ladder, and exit ramp; reuse of all 8 existing timber piles and regrading of rubble rip rap canal bank slope. Acting Engineer of Record providing post design services for rehabilitation of boat docks and boat ramps at 3 other locations within the Florida Keys: responsible for research and detailing of articulating block mat at the bottom of boat ramps effectively protect canal banks from erosion by boat

ROBERTO RUBIO, P.E.

STRUCTURAL ENGINEER

propellers. Structures Engineer of Record in charge of special design of multipost welcome signs on US1 at the entrances to Big Pine Key. Duration: 2016 – 2018

I-95 PAVEMENT RECONSTRUCTION FROM NORTH OF NW 29TH STREET TO SOUTH OF NW 131ST STREET, FDOT FPID 429300-3-52-01:

Structural Engineer for Subconsultant in charge of phase reviews including plans, shop drawings and calculations reviews for the widening and resurfacing of bridges and approaches within the I-95/I-395 interchange. Improvements were needed for the increased traffic volume using the new Port of Miami tunnel. Widening included replacement of obsolete barrier walls at the copings and median. Responsible for the design of various special or combination overhead truss span and cantilever sign structures within the limits of the project: superposition of results from FDOT span and cantilever overhead truss sign programs requiring manipulation of the SAP routine within the programs. Duration: 2016-2019

SR A1A FROM BAYVIEW DRIVE TO SR 856 (192ND STREET), FDOT FPID 430949-1-52-02:

Subconsultant to Engineer of Record in charge of design and post-design services for over 140 decorative luminary pole foundations in Sunny Isles Beach. Poor soil conditions and widespread utility conflict resulted in various iterations from the original design. Retrofits to existing foundations were needed to support the new light poles gathering higher wind forces than standard light poles. Used FDOT Drilled Shaft Design and Rectangular Spread Footing Design MathCAD programs. Duration: 2016 – April 2020

NEW WEST AVENUE BRIDGE OVER COLLINS CANAL, MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA: Engineer of Record and Lead Structures Design Engineer. The superstructure consists of composite Florida slab beams, a new FDOT developmental standard. The bridge is a single span, skewed deck, supported on auger-cast piles. Designed same type substructure and foundation for new adjacent prefabricated pedestrian bridge at Lincoln Ct. Designed mast arm signal and luminaire structures within the limits of the project. Adopted same traffic railing as that on nearby Venetian Causeway bridge. Used FDOT Prestressed Beam MathCAD program for the deck and Stadd Pro for worst vehicular loading at the end bents. Duration: 2016-2017

SR 916 (DIXIE HWY) AND NW 135 ST OVER BISCAYNE CANAL, FDOT FPID 429346-1-52-01:

QC personnel for Engineer of Record, in charge of QC of plans and calculations for minor bridge repairs. The bridge is a four

span precast slab multibeam bridge carrying five lanes of traffic. Repairs included shear key and post tensioning replacement. Responsible for the design of permanent steel sheet piling for stabilization of the canal including two 5ft diameter culvert inlets. Contributed to roadway resurfacing design. Duration: 04/2015-09/2015

REPLACEMENT OF PIERS AT THE LONG KEY BRIDGE, US1, KEY LARGO FLORIDA, CIE INSPECTION SERVICES:

Lead Inspector in charge of the inspection of segmental spans on each side of massive reinforced concrete piers. The piers needed to be completely replaced due to extreme deterioration. Temporary steel piers were built on both sides of the existing pier. The segmental spans were jacked up and placed back down on the temporary piers. Inspections were conducted before and after the segmental spans were jacked up, and included the interior, the underside, and the top of the segments. New damages included reverse shear and moment cracks. A record of existing damages such as cracks, spalls, delamination, and segregation, was also part of the inspection to develop complete repair recommendations. A total of 7 piers were inspected using boom lift trucks placed over a barge for the underside inspection. A report was issued to the contractor for each pier to recommend that the bridge remain open to traffic, as US1 is the only access roadway into and out of the Florida Keys. Equipment included safety harness and an air quality monitor. Duration: 2014-2015

NEW SCENIC PEDESTRIAN BRIDGE ACROSS SR5 (US-1), BETWEEN PONCE DE LEON BLVD AND DOUGLAS ROAD, SAFETY PROJECT, MIAMI, FL, FDOT FPID 433455-1-52-01:

Engineer of Record, 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 or BDR. Helped a junior engineer with the implementation of MIDAS structural software, Civil/Bridge module. Contributed to roadway drainage design which included new inlets along the entire project after realignment of SR 5. Duration: 2014-2015

SR 5 (BRICKELL AVENUE) FROM 5TH TO 8TH STREET, FDOT FPID 412473-5-52-01:

Support to Engineer of Record, responsible for reanalysis of existing mast arm signal structures to resist the load of additional sign panels needed for traffic operation improvements. Structures are located at the intersection between Brickell Avenue and 10th, 14th, and 15th Streets in downtown Miami. Used FDOT Mast Arm MathCAD program. Duration: April 2014-July 2014



SUSANA BERNAL

PROJECT MANAGER



HBC Tenure: 1 yr

Industry Experience: 22 yrs

Education:

Bachelor of Science,
Civil Engineering
EAFIT University, Colombia
1995

Registration:

Professional Engineer
Colombia No.
0520262447ANT

Ms. Bernal graduated from the EAFIT University in Colombia, 1995 and has over 18 years of experience in performing Land Development Civil Engineering in South Florida. Solid expertise in civil engineering design including all aspects of site planning, grading and drainage, sanitary sewer collection, water distribution system design, roadway design, utility coordination, permitting and construction services; as well as project and contract administration. Ms. Bernal has performed senior level project oversight and management of multiple stages of the design and development processes for an array of projects from conceptual planning to final construction, including multi-family, commercial, roadway, utilities, aviation, education, healthcare, as well as affordable housing projects. Managed Broward County Water and Wastewater Services (BCWWS) continuing services contract that included multiple disciplined sub-consultants for the firm.

KEY PROJECTS

FDOT BROWARD COUNTY WATER AND WASTEWATER SERVICES (BCWWS) SEPTIC TANK ELIMINATION PROGRAM (STEP), BROWARD COUNTY, FL, PROJECT REFERENCE: ALICIA DUNNE, PE, PROJECT MANAGER, BCWWS, (954) 831-0793, adunne@broward.org:

Responsible for the contract administration and the implementation of sanitary sewer and water main improvements within the County's STEP areas. Duration: 2017-2020

FORT LAUDERDALE / HOLLYWOOD INTERNATIONAL AIRPORT (FLL) – NORTH PERIMETER ROAD WATER MAIN EXTENSION, BROWARD COUNTY, FL, PROJECT REFERENCE: LUIS RAMIREZ, CONSTRUCTION PROJECT MANAGER, BROWARD COUNTY AVIATION DEPARTMENT (BCAD), (954) 359-2259, lr Ramirez@broward.org:

Responsible for the project management, the implementation of the water main system design and permitting, and procurement package preparation. Duration: 2018-2020

FORT LAUDERDALE / HOLLYWOOD INTERNATIONAL AIRPORT (FLL) – SOUTH RUNWAY STORMWATER BASINS MODIFICATION, BROWARD COUNTY, FL, PROJECT REFERENCE: MILENA QUECANO-URUEÑA, CONSTRUCTION PROJECT MANAGER, (954) 359-1086, mu ruena@broward.org:

Responsible for the project management, the implementation of the airport stormwater model, improvements design and permitting, and project procurement assistance. Duration: 2019

OPA-LOCKA BOMBARDIER AIRCRAFT SERVICE CENTER, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: SHAWN DOYLE, JACOBS, (817) 371-1329, shawn.doyle@jacobs.com:

Responsible for the project management and contract management, the preparation of civil engineering design and engineering permitting. Duration: 2017-2020

FORT LAUDERDALE / HOLLYWOOD INTERNATIONAL AIRPORT (FLL) – 9R/27L RUNWAY EXPANSION PROGRAM, BROWARD COUNTY, FL, PROJECT REFERENCE: JAMES A. THIELE PE, (954) 599-9149, jthiele@keithteam.com:

Responsible for providing design, permitting and construction services for the 24-inch water main and 16 force main relocations, and the Perimeter Roadway relocation associated with the aviation design efforts for the south runway expansion project. Duration: 2012-2016

PINNACLE AT PEACEFIELD, BROWARD COUNTY, FL, PROJECT REFERENCE: TIMOTHY P. WHEAT, REGIONAL VICE PRESIDENT, PINNACLE HOUSING GROUP, (561) 627-2820, twheat@pinnaclehousing.com:

Responsible for project and contract management, and providing civil engineering design, permitting, utility coordination and construction administration services for an affordable senior housing development located in the City of Hollywood. Duration: 2018-2020



CLAUDIA BUSTAMANTE, P.E., MSC

CIVIL AND TRANSPORTATION ENGINEER



HBC Tenure: 1 yr

Industry Experience: 16 yrs

Education:

Master of Science,
Civil Engineering,
Transportation,
University of Central Florida,
2017

Bachelor of Arts,
Civil Engineering,
Universidad del Cauca,
Colombia
1998-2004

Qualification:

-Geopak
-MicroStation
-Autoturn
-CADD
-3D Modeling

Ms. Bustamante has over 16 years of Civil and Transportation Engineering, and is specialized in several aspects of Roadway and Pavement Engineering including Signalization. She received her Bachelors in Civil Engineering degree at the Universidad del Cauca in Colombia, and a Master of Science in Civil Engineering, Transportation, at the University of Central Florida. She has worked for the private sector as well as FDOT District 5. Claudia is versed in Geopak, MicroStation, Autoturn, CADD, SAS, HSM, 3D Modeling, and other software. She has published in the area of Transportation and is affiliated to several organizations like the American Society of Civil Engineers (ASCE) or Women in Transportation (WTS). Claudia has also been a consultant to the Inter-American Development Bank (IADB) in Washington, D.C., and as such created, developed, supervised and monitored road safety projects for Latin America and Caribbean countries. More recently, Claudia has been part of projects as a Roadway Engineer, performing tasks including geometric designs, 3D Modeling, plans production, signing and pavement marking, pavement designs, quantities for FDOT and city projects.

KEY PROJECTS

HBC ENGINEERING COMPANY, DORAL, MIAMI-DADE COUNTY, FL:

Roadway and Pavement Engineering, assisting with scoping reports, TTCPs, instructor of Design Standard applications, manager of tasks and FDOT pursuits.

- City of Kissimmee Continuing Consultant Engineering Services SR 50 from West of CR 757 to the Sumter / Lake County Line
- I-95 Interchange at Ellis Road/St. Johns Heritage Parkway (FIN No. 426905-3-32-01; Contract C9A33).

BCC ENGINEERING, ORLANDO, FL.

Roadway Engineer, transportation, including geometric designs, 3D Modeling, plans production, signing and pavement marking, pavement designs, quantities. FDOT and city projects. Application of TTCP and ADA evaluations. Duration: 2018-2020. Projects:

- Multi-Lane Reconstruction and Bridge/Structural Design of State Road (SR) 75 (US231) from SR 30A (US98) to South of Pipeline Road in Bay County (FPID No. 217910-4-32-01 Wekiva Parkway (Section 8) From Orange Boulevard to East of Rinehart Road

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), DISTRICT 5, DELAND, FL.

Roadway Engineer IV, Experience in roadway design and plans production, 3D Modeling, TTCPs, crash data analysis and lane

closure analysis. Familiarity with FDM, Design Standards, ADA, Intersection Manual and Complete Streets. Technical advisor evaluating project proposals and engineering estimates (services and staff hours, constructability meetings, V.E. studies, multidisciplinary project coordination).

UNIVERSITY OF CENTRAL FLORIDA (UCF), DEPARTMENT OF CIVIL, ENVIRONMENT AND

CLAUDIA BUSTAMANTE, P.E, MSC

CIVIL AND TRANSPORTATION ENGINEER

CONSTRUCTION ENGINEERING; TRANSPORTATION DIVISION, ORLANDO, ORANGE COUNTY, FL.:

Graduate Research Assistant, Created and developed road safety and traffic research studies: crash data analysis, traffic studies, data analysis, transportation policy. HSM Familiarity. Prepared presentations and explained research projects. Thesis: Analysis in Transportation Policy at State and Driver's Level.

INTER-AMERICAN DEVELOPMENT BANK (IADB), WASHINGTON, D.C.:

Transportation Consultant, created, developed, supervised and monitored road safety projects for Latin America and Caribbean countries; created road safety plans, performed impact evaluations; participated in transportation planning; conducted transport policy-decisions; planned engineering policies for transportation projects, gained work experience with multilateral banks, advised transportation projects and conducted conferences. Mexico, Dominican Republic, Costa Rica, Colombia, Brazil, Guatemala, Chile and Honduras. Duration: 2014-2015.

3M TRAFFIC SAFETY SYSTEMS DIVISION, ST. PAUL, MINNESOTA, MEXICO, BRAZIL AND COLOMBIA

Road Safety Traffic Specialist, executed traffic and ITS rural and urban projects; led technical expertise with the performance of innovative traffic solutions; Implemented standards in roadway safety and mobility; conducted roadway maintenance services; maintenance and operational budgets; conducted international conferences in traffic signs and pavement markings, led workshops and conferences in traffic safety systems.

NATIONAL INFRASTRUCTURE AGENCY (ANI), COLOMBIAN GOVERNMENT, DEPARTMENT OF TRANSPORTATION. BOGOTA, COLOMBIA

Project Manager. Transportation planning. Supervised the design, construction and operation for toll roads, designed standards, policies, procedures and practices for toll roads. Duration 2011-2012.

COLOMBIAN NATIONAL HIGHWAY INSTITUTE (INVIAS), COLOMBIAN GOVERNMENT, DEPARTMENT OF TRANSPORTATION. BOGOTA, COLOMBIA

Traffic Engineer. Conducted road safety audits in the interstate road network, 21 states out of 32; member of the Colombian Traffic Control Devices Manual; member of the Colombian Road Safety Law Committee; provided road safety technical support,

executed highway contracts; worked in planning, construction, maintenance and operational tasks for transportation projects. Duration: 2008-2011.

CRISANTO SAENZ CONSULTANCY FIRM, BOGOTA, COLOMBIA

Roadway Engineer. Executed geometric urban-rural roadway designs, supervised road safety BRT's plans in rural and urban projects; coordinated urban mobility and traffic plans, roundabouts and multi-level designs. Created road safety plans, supervised highway designs and construction plans. Duration: 2007.

CONALVIAS, S.A, PEREIRA, COLOMBIA

Construction Resident and Technical Manager Assistant. Conducted inspections and analytical evaluations for a highway construction project; resolved engineering problems by collecting and analyzing information; researched, analyzed, adapted, and modified engineering solutions for the expressway, preparing reports and budgets and presenting construction work progress. Duration: 2006.

ARY BUSTAMANTE & ASSOCIATES CONSULTANCY FIRM, POPAYAN, COLOMBIA

Transportation Engineer, External Consultant. Coordinated technical studies for transportation projects; conducted research; presented traffic engineering conferences; led road safety workshops and developed road safety audits in highways and BRTs; Developed pavement, transit, transport, geometric, and road safety studies; performed traffic plans and surveys; developed transportation plans, supervised construction projects. Duration: 2006-2019.



ALLISON GLUNT, E.I.

TRAFFIC AND TSM&O ENGINEER



HBC Tenure: 1 yr

Industry Experience: 7 yrs

Education:

Bachelor of Science,
Civil Engineering
Florida Atlantic University,
2014

Bachelor of Science,
Scientific & Technical
Communications
Florida Institute of Technology,
2010

Registration:

Engineering Intern, FL
1100019552

Ms. Glunt, has over 7 years of experience. Her areas of expertise are transportation engineering, traffic safety and Transportations Systems Management & Operations (TSM&O). Ms. Glunt is a former employee of FDOT District 4, Traffic Operations. Based on her previous role, she is considered an expert in the field of TSM&O. In her role with the Department, she managed all District 4 signal timing contracts, Traffic Operations research contracts, TSM&O general consulting contracts, TMC arterial operation contracts, and the TSM&O arterial operations program. In addition, Ms. Glunt has reviewed TSM&O plan sets, prepared new TSM&O project requests, analyzed big data from the TSM&O arterial network, performed extensive public information outreach, and managed adaptive signal timing projects. In her role with HBC she has served as the Deputy Project Manager for the Okeechobee Road (US 27) Traffic Management Plan (TMP). This TMP analyzed seven overlapping projects along US 27 to ensure the traffic is handled appropriately during construction. Additionally, the TMP analyzed Work Zone ITS opportunities and recommendations for TSM&O activities as part of the traffic management during construction.

KEY PROJECTS

FDOT DISTRICT 6, SR 25/US 27/OKEECHOBEE ROAD TRANSPORTATION MANAGEMENT PLAN, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAO-YING WANG, P.E., (305) 470-5211, baoying.wang@dot.state.fl.us:

Deputy Project Manager in responsible charge of the Transportation Management Plan including: smart work zone design, mitigation strategies, work zone library of signal timing plans, and construction scenario modeling. Analyzed data and scenario modeling results to create mitigation strategies for implementation in order to better manage traffic during construction. Coordinated with Miami Dade County to identify standards for the library of signal timing plans being created and implemented for each construction scenario. Conducted all public outreach to local agencies and businesses. Additionally, coordinated meetings with project designers.

BEACH CONNECTOR RAPID TRANSIT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ODALYS DELGADO, (305) 507-5583, Odalys.Delgado@parsons.com:

Deputy Project Manager for data collection and traffic analysis to evaluate the traffic impacts of Light Rail Transit and other

appropriate Premium Transit Technology linking Miami's Design District, Downtown Miami, and Miami Beach. Reviewed microsimulations using Vistro and Synchro to evaluate strategies such as queue jumping, transit signal priority and separated transit corridors. Compiled all simulations results in tables and completed all data in report format.

BUS EXPRESS RAPID TRANSIT, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ODALYS DELGADO, (305)507-5583, Odalys.Delgado@parsons.com:

Project Manager and EOR for data collection and traffic analysis to evaluate the traffic impacts and operational efficiency of a county wide bus express rapid transit (BERT) system consisting of eight major routes. This project was a part of the Strategic Miami Area Rapid Transit (SMART) Plan. This project involved development of multiple Vistro and Synchro microsimulation models to evaluate the operational efficiency of various Transit Signal Priority (TSP) strategies along arterial segments and terminal station access and egress. Compiled all simulations results in tables and completed all data in report format.

ALLISON GLUNT, E.I.

TRAFFIC AND TSM&O ENGINEER

LINCOLN GARDENS TRAFFIC IMPACT STUDY, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: KAREEM BRANTLEY, kbrantley@RELATEDGROUP.com:

Assisted with the traffic impact study for a new residential complex being built in Miami-Dade. Reviewed volume growths, volume to capacity analysis, trip generation, queue analysis and future traffic evaluation including signalization. Compiled the analysis results in report format.

FDOT DISTRICT 4, ARTERIAL OPERATIONS MANAGER, FLORIDA DEPARTMENT OF TRANSPORTATION, FORT LAUDERDALE, FL

- Coordinated and managed District Four's University Master Agreement with FAU (BDV27)
 - TWO-462-01: Evaluation of Technologies to Support Multimodal Operations in Southeastern Florida
 - TWO 462-02: Analysis of Traffic Demand Patterns and Signal Retiming Strategies for ITS-data-rich Arterials
 - TWO 462-03: Impact of Accurate Assessment of Freeway Traffic Conditions on the Operations of I-95 Express Lanes in Broward County
 - TWO 462-04: Identification and Application of Implementable Research Outcomes from FAU TSM&O Projects
- Created new TSM&O projects and ushered them through the work program and design process
- Developed and managed the monthly arterial data dashboard used to assist in making signal timing decisions Duration: January 2016 – October 2019

FDOT DISTRICT 4, SIGNAL TIMING CONTRACTS MANAGER, FORT LAUDERDALE, FL

- FDOT Project Manager on all signal timing contracts in District 4 including:
 - 230017-7-32-01: DW signal retiming (AECOM) – Traditional signal retiming in Norther 3 Counties
 - 230017-8-32-01: DW signal retiming (Kimley Horn) – TSM&O style retiming (Railroad and bridge crossings)
 - 230017-9-32-01: DW signal retiming (Coke Consulting) – District 4 signal retiming program process
 - 435150-1-32-01: DW signal retiming (Albeck Gerken) – Context Sensitive signal timing

(Sunrise Blvd)

- 435150-2-32-01: DW in house signal retiming (Eland Eng.) – Active Arterial Management
- 429652-1-32-01: Closed DW signal retiming (Faller Davis) – Safety based signal retiming
- Addressed all signal timing related citizen complaints, special events, real-time active arterial management through signal timing, and TSM&O specific signal timing solutions

FDOT DSITRICT 4, TSM&O GENERAL CONSULTING CONTRACT MANAGER, FORT LAUDERDALE, FL

- FDOT Project Manager for all TSM&O District 4 District Wide General Consulting Contracts:
 - 229765-6-32-01: DW TSM&O General Consulting (Kittelson) – TSM&O Master Plan, TSM&O Outreach, ITS Design, LCIS support
 - 229765-7-32-01 DW TSM&O General Consulting (Atkins) – Connected Vehicles (CV) data pilot project, ATCMTD Grant coordination, TSM&O Project Development Liaison
- Contract specific tasks performed were: Smart Work Zone Strategic Plan, LCIS Support, TSM&O Outreach, TSM&O Plan Development, SW 10th St TSM&O PD&E, Performance Measures review and analysis, TSM&O Master Plan creation and updates, Grant development, TMC Strategic Plan, and CV Data Evaluation.
- As part of the CV Data Pilot Project, Atkins partnered with Wejo, a company who has access to CV data from vehicle OEMs. Four pilot scenarios data (Work Zone, O-D, Last Mile, and School Zone) were developed to analyze the CV data to determine the usability in everyday engineering decisions without deployment of new field devices.

ADDITIONAL EXPERIENCE

- FDOT District 4 Research Project Manager
 - BE548: Application of Dynamic Crash Prediction Methodologies to FDOT Safety and Transportation System Management & Operation (TSM&O) Programs (CUTR University)
 - BDV29 TWO 977-38: Data and Modeling Support of Off-Line and Real-Time Decisions Associated with Integrated Corridor Management (FIU)
- FDOT District 4, Glades Road Adaptive Signal System JPA (436318-1-52-01): FDOT Project Manager
- FDOT District 4 Indiantown Road ATMS project (432883-3-32-01): Technical advisor and TRC team member
- FDOT District 4 TSM&O Master Plan Owner & Manager



DAVID COKER, E.I.

ENGINEERING INTERN



HBC Tenure: 3 yrs

Industry Experience: 3 yrs

Education:

Bachelor of Science,
Civil Engineering
Florida International University,
2018

Registration:

Engineering Intern, FL
1100023530

Qualifications:

- Drone Studies
- Miovision Cameras
- Synchro and Vissim proficiency

Mr. Coker graduated from FIU in 2018 and has just received his EIT. He has been an intern at HBC Engineering Company since 2016 where he did plan review. Since 2018 he has joined the Traffic Team. He has participated in several high-profile projects and is well versed in handling, installing, maintaining, setting up, and using several of the equipment for Transit data collection. He is an expert in Miovision Cameras, flying drones to acquire data, and proficient with the latest version of Synchro and Vissim. His interests are very diverse but with a focus on the efficient use of technology to solve transit problems. His passion is on the future of transportation engineering in light of the advent of automated vehicles.

KEY PROJECTS

MIAMI-DADE COUNTY, BUS EXPRESS RAPID TRANSIT, SMART PLAN BUS EXPRESS RAPID TRANSIT (BERT), PROJECT REFERENCE: ODALYS DELGADO, (305) 507-5583, odalys.delgado@parsons.com:

Traffic Engineer responsible for conducting traffic control analysis by comparing measures of effectiveness at multiple signalized and unsignalized intersections, arterial corridors, and urban networks. Task was performed by supervising the data collection phase which encompassed the set up and dismantling of Miovision Cameras to record turning movement counts (TMC) and automatic traffic recorder (ATR) tubes to record speed-volume data at key intersections. Responsibilities also included updating and processing results through Miovision's Data Link Software. Utilized the latest versions of Synchro, and Vissim to analyze the effects of the interaction of multiple modes on the operational efficiency of any combination of roadway elements. Performed optimization and microsimulation of subject intersections to more closely examine the operational and safety effects of various improvement options while simultaneously incorporating pedestrian, bicycle, motor vehicles and transit. Utilized transit microsimulation capabilities such as transit signal priority to optimize the balance between mobility and safety in both urban and rural scenarios. Duration: 2019-ongoing

FDOT DISTRICT 6, SR 25/OKEECHOBEE RD. FROM SR 997/KROME AVE. TO WEST OF NW 79TH AVE., MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAO-YING WANG, (305) 470-5211, [BaoYing.Wang@dot.state.fl.us](mailto: BaoYing.Wang@dot.state.fl.us):

Assisted with Synchro analysis and VISSIM microsimulation of project corridor. Analyzed traffic volumes, turning movement counts, level of service, and vehicle delays. Also responsible for creating visual exhibits through extensive CorelDraw use to report and present results. Duration: 2017-ongoing

MIAMI DADE COUNTY, BUS EXPRESS RAPID TRANSIT, SMART PLAN BUS EXPRESS RAPID TRANSIT (BERT), REFERENCE: ODALYS DELGADO, AICP, 305-507-5583, odalys.delgado@parsons.com:

Conducted traffic control analysis by comparing measures of effectiveness at multiple signalized and unsignalized intersections, arterial corridors, and urban networks. Task was performed by supervising the data collection phase which encompassed the set up and dismantling of Miovision Cameras to record turning movement counts (TMC) and automatic traffic recorder (ATR) tubes to record speed-volume data at key intersections. Responsibilities also included updating and processing results through Miovision's Data Link Software. Utilized the latest versions of Synchro, and Vissim to analyze the effects of the interaction of multiple modes on the operational efficiency of any combination of roadway elements. Performed optimization and microsimulation of subject intersections to more closely examine the operational and safety effects of various improvement options while simultaneously incorporating pedestrian, bicycle, motor vehicles and transit. Utilized transit microsimulation capabilities such as transit signal priority to optimize the balance between mobility and safety in both urban and rural scenarios.

DAVID COKER, E.I

ENGINEERING INTERN

FDOT DISTRICT 6, HIALEAH FREIGHT STUDY, REFERENCE:
MICHAEL WAHLSTEDT, P.E., PTOE, 816-329-8600,
mrwahlstedt@transystems.com:

Conducted AM peak, Mid-day peak, and PM peak weekday Turning Movement Counts at 29 intersections in Hialeah/Hialeah Gardens. The counts were conducted at all movements for beach intersection (including special movements such as fly over ramps) utilizing MioVision Scout cameras. Data collection also included full vehicle classification, including bicycles and pedestrians on crosswalks, and bicycles on the road.

- SR 9/NW 27 Avenue From NW 23 Street To NW 26 Street
- Palmetto Expressway From E. Of NW 42 Ave To E. Of NW 32 Ave
- SR 5/Overseas Highway At Sugarloaf Key From Mm 15.46 To Mm 20.14
- West Flagler Street From SW 27 Avenue To SW 14 Avenue
- Kendall Drive From SW 77 Ave To Us 1
- Palm Drive From SR 997/Krome Ave To SR 5/Us

LINCOLN GARDENS TRAFFIC IMPACT STUDY, REFERENCE:
KAREEM BRANTLEY, kbrantley@RELATEDGROUP.com:

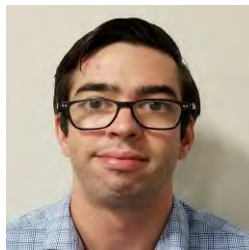
Completed traffic impact study for a new residential complex being built in Miami-Dade including; Data collection, volume growths, volume to capacity analysis, trip generation, queue analysis and future traffic evaluation.

MDX, SR 878 BUS-ON-SHOULDER LANE VIOLATION STUDY, REFERENCE: ANDREW PIERCE, P.E., 305-265-5470,
apierce@eacconsult.com:

Studied extent of violations of official use of exclusive bus-only use of roadway shoulders during peak traffic congestion periods along segments of SR 878 and SR 874. Conducted 12-hour classification counts for Tuesday thru Thursday, identifying volumes and classifications per lane including roadway shoulders.

PLANS REVIEW, FDOT DISTRICT 6: PROJECT REVIEWED -
CADD Technician responsible for plan reviews to comply with specifications, FDOT Design Standards and District 6 requirements for roadway, signing and pavement marking, lighting, signalization, ITS, structure, and landscape plans.
Duration: 2016-Present

- SR 9a/I-95 NB From Biscayne River Canal To SR 860/Miami Garden Dr.
- Hialeah Gardens Boulevard From South Of West 84 Street To NW 138 Street
- US 1 Signalized Intersection Lighting From Lejeune Rd To SE 4th Street
- Krome Avenue From SW 136 Street To SW 88 Street
- SR 9/NW 27 Avenue Over Miami River Bridges 870731 & 870763
- SR 934/Ne 82 St From Ne 4 Place To SR 5/Us-1/Biscayne Blvd
- SW 336 St/Davis Pkwy From SR 997/Krome Avenue To Us 1 (Truck Bypass)



JASON FERRA, E.I.

ENGINEERING INTERN



HBC Tenure: 1 yr

Industry Experience: 6.5 yrs

Education:

Bachelor of Science,
Civil Engineering,
University of South Florida
2013

Registration:

Engineering Intern, FL
1100017855

Qualifications:

- TTC Intermediate Certified
- Florida LTAP – Work Zone
Safety and Traffic Control

Mr. Ferra graduated from the University of South Florida in 2013 with a B.S. in Civil Engineering. He has been an intern at HBC Engineering Company since 2019 and has had other internship as an application engineer with Southeastern Pump. He started with Southeastern Pump in 2013. He holds trainings including FDOT Temporary Traffic Control (TTC) Intermediate Course and Florida LTAP – Work Zone Safety and Traffic Control. Mr. Ferra is a versatile intern, proficient in transportation and water resources related activities. He has participated in several high profile projects in South Florida and is proficient in a variety of technical software packages such as AutoCAD Civil 3D, hydraulic Analysis, Cost Estimation and Value Engineering, and Scheduling.

KEY PROJECTS

MAINTENANCE OF TRAFFIC (MOT) CONTROL PLANS FOR NEW 16" WATER MAIN ALONG NW 37TH AVENUE BETWEEN NW 36TH AND NW 82ND STREETS, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ARNELIO ALFONSO, 305-592-7283, aalfonso@apcte.com:

Engineer Intern who assisted in preparing Maintenance of Traffic (MOT) control plans for the installation of 14,400 L.F. of 16" Water Main along NW 37th Avenue from NW 36th Street (SR-948) to NW 82nd Street (Miami-Amtrak Station). Temporary Traffic Control Plan was designed in accordance with The Manual of Uniform Traffic Control Devices (2012 Revision), The FDOT Design Standards (FY2020-2021 Edition), The Manual of Uniform Minimum Standards for Design Construction and Maintenance for Streets and Highways (FDOT's Green Book), Miami-Dade County Public Works Manual and Specifications, MDWASD Standards and Specifications. Plans included General Notes and Specifications, MOT Plans, Typical Traffic Control Details, Typical Section Package. Plans prepared in AutoCAD and AutoCAD Civil 3D. Duration: 2020-ongoing tested equipment.

CONTINUING ENGINEERING SERVICES – BROWARD COUNTY WATER WASTEWATER SERVICES ("BCWWS") RFP R1404111P1 SEPTIC TANK ELIMINATION PROGRAM, BROWARD COUNTY, FL, PROJECT REFERENCE: ALICIA DUNNE, 954-831-0793, adunne@broward.org:

Engineer Intern responsible for Engineering Design and Cost Evaluation for three (3) design alternatives to replace the on-site septic tanks. The project services included the evaluation

and selection of the three (3) alternative sewer systems to serve the business properties located within a marina in Broward County. Other services included site evaluation, site investigations, coordination with municipalities and property owners, hydraulic analysis, lift station design, and preparation of inventory for existing and proposed utility easements. Duration: 2019-ongoing

MAINTENANCE OF TRAFFIC (MOT) FOR REPLACEMENT / REHABILITATION OF WATER MAINS AT TURNBERRY ISLAND FOR MDWASD, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: ARNELIO ALFONSO, 305-592-7283, aalfonso@apcte.com:

Engineer Intern who assisted in preparing Maintenance of Traffic (MOT) control plans for the replacement/rehabilitation of approximately 6,000 L.F. of 8-inch, 12-inch, and 16-inch Water Main at Turnberry Island, Miami, Florida. Temporary Traffic Control Plan was designed in accordance with The Manual of Uniform Traffic Control Devices (2012 Revision), The FDOT Design Standards (FY2019-2020 Edition), The Manual of Uniform Minimum Standards for Design Construction and Maintenance for Streets and Highways (FDOT's Green Book), Miami-Dade County Public Works Manual and Specifications, MDWASD Standards and Specifications. Plans included General Notes and Specifications, MOT Plans, Typical Traffic Control Details, Typical Section Package. Plans prepared in AutoCAD and AutoCAD Civil 3D. Duration: 2019-2020

JASON FERRA, E.I.

ENGINEERING INTERN

FDOT DISTRICT 4, SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS, BROWARD COUNTY, FL, PROJECT REFERENCE: ROBERT LOPES, 954-777-4425, Robert.Lopes@dot.state.fl.us:

- Coordination with Material Suppliers, Utility Agencies, Municipalities, Project Engineers, and Contractors

Engineer Intern who assisted in coordination and identification of all existing utilities along SR-7 from Broward / Miami-Dade County Line to North of Sample Road and SR-858/Hallandale Beach Blvd from Edmund Road to SW 58th Ave. Additional responsibilities included assisting in Drainage Analysis and preparation of a Mini-Drip report to identify existing and proposed drainage conditions. Duration: 2019-ongoing

CENTRAL DISTRICT WASTEWATER TREATMENT PLANT OXYGENATION FACILITY SITE IMPROVEMENTS, MIAMI-DADE COUNTY, FL: PROJECT REFERENCE: CARLOS LOPEZ, 786-361-1645, clopez@wadetrim.com:

Engineer Intern who Aided in providing Civil-Site Design Services to address a proposed new Oxygenation Production Facility. Design included Clearing and Grubbing, Site Dimension Control and Layout, Pavement Design, Pavement Restoration, Signing and Marking, and Drainage Systems. Duration: 2019-ongoing

MAINTENANCE OF TRAFFIC CONTROL PLAN FOR PROJECT NL-1A: 60-INCH DIAMETER PCCP SEWER FORCE MAIN, PROJECT REFERENCE: DARIO GERSZUNY, 954-714-2000, dgerszuny@eaconsult.com:

Engineer Intern who aided in the development and design of a Maintenance of Traffic Plan for the construction of a new 60" sewer force main installation. MOT was designed in accordance with The Manual of Uniform Traffic Control Devices (2012 Revision), The FDOT Design Standards (FY2017-2018 Edition), The Manual of Uniform Minimum Standards for Design Construction and Maintenance for Streets and Highways (FDOT's Green Book), Miami-Dade County Public Works Manual and Specifications, MDWASD Standards and Specifications. Plans included General Notes and Specifications, MOT Plans, Typical Traffic Control Details, Typical Section Package. Plans prepared in AutoCAD and AutoCAD Civil 3D. Duration: 2019

ADDITIONAL EXPERIENCE

SOUTHEASTERN PUMP

Application Engineer

- Preparation and Review of Contract Documents, Agreements, and Bid Specifications
- Project Cost Estimation and Value Engineering
- Development and Management of Project Scheduling
- Lift Station Design and Calculations
- Hydraulic Analysis



GONZALO BARRERA, E.I.

ENGINEERING INTERN



HBC Tenure: 1.5 yrs

Industry Experience: 2 yrs

Education:

Bachelor of Science,
Civil Engineering,
Florida International University,
2018

Registration:

Engineering Intern, FL
1100021812

Mr. Barrera graduated from Florida International University in 2018 with a Bachelor of Science in Civil Engineering. He has been an intern at HBC Engineering Company since 2018 and has had an internship as an engineer with FIU/FDOT. He holds trainings including FDOT Roadway Design Shadowing Program and is AutoCAD Certified. Gonzalo is a versatile intern, proficient in transportation and experienced in horizontal geometry and vertical profiles in compliance to the FDM and ADA guidelines to ensure safety. He is a member of the American Society of Civil Engineers.

KEY PROJECTS

FDOT DISTRICT 4, SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS, BROWARD COUNTY, FL, PROJECT REFERENCE: ROBERT LOPES, 954-777-4425, Robert.lopes@dot.state.fl.us:

Engineer Intern who assisted in preparing CADD design for roadway improvements along the corridor to improve pedestrian movement. This included horizontal geometry and vertical profiles 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. Also included was the rework of adjacent drainage ditch to account for the improvement without affecting the current runoff. Also developing design alternatives for proposed design based on existing condition to determine safest and cost effective design. Duration: 2019-ongoing

FDOT DISTRICT 6, SR 25/OKEECHOBEE RD FROM W. OF NW 138 ST TO E. OF NW 107 AVE (CONCRETE), MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAOYING WANG, 305-470-5211, baoying.wang@dot.state.fl.us:

Engineer Intern who assisted in designing TTCP for Master Plan to ensure a safe and continuous transition between corridor based on estimated construction schedule. Responsibilities include determining TTC phase overlaps than transiting proposed TTC lane configuration between segments of the corridor. Responsibilities also include detour overlap location, clarity of detour assignment and general geometry of TTC lane configuration. Duration: 2018-ongoing

FDOT DISTRICT 6, SR 90/SW 8TH ST. AND SW 157TH AVE., SAFETY IMPROVEMENT PROJECT, MIAMI-DADE COUNTY, FL, REFERENCE: JASON CHANG, 305-470-5331, Jason.chang@dot.state.fl.us:

Engineer Intern responsible for preparing Signs and Paving Marking (S&PM) design plans for proposed roadway design. Also prepared project overall quantities and cost estimate. The project's focus was to design improvements that would optimize safety and operations at the high-speed intersection of SR 90/SW 8th St. and SW 157th Ave., which was carried out through .52 miles. Project scope also included widening the northbound lanes providing an exclusive free flowing left and right turn lane and widening of the eastbound and westbound accelerations lanes. Additional to the S&PM design, shoulder reconstruction, milling and resurfacing, new guardrails, bike lanes, and signage were included. Design also included design variations. Duration 2018-ongoing

FDOT DISTRICT 6, SR 932/NW NE 103 STREET FROM EAST OF NW 6 AVE TO EAST OF NE 2 AVE, MIAMI-DADE COUNTY, FL, PROJECT REFERENCE: BAOYING WANG, 305-470-5211, baoying.wang@dot.state.fl.us:

Engineer Intern responsible for preparation restoration assessment report. The report includes safety improvement within the project area as well as data collection of the existing conditions to determine their compliance to the FDM and FDOT standard plans. Areas of focus include the general geometry of the roadway, intersection configuration, pedestrian facilities, drainage, and ADA compliance. Duration: 2020-ongoing

GONZALO BARRERA, E.I.

ENGINEERING INTERN

FDOT DISTRICT 6, SR 925/NW 3RD COURT & NW 3RD AVENUE FROM NW 1ST STREET TO NW 8TH ST, MIAMI-DADE COUNTY, FL: PROJECT REFERENCE: FELIX HERNANDEZ, 305-470-5274, Felix.Hernandez@dot.state.fl.us:

Engineer Intern who prepared S&PM plans and which included its respective quantities. Duration: 2018-ongoing

FDOT DISTRICT 6. SR 94/KENDALL DR FROM SR 997/KROME AVE TO SR 5/S DIXIE HWY (BRT STUDY) FM NO. 437784-1, PROJECT REFERENCE: NILIA CARTAYA, 305-640-7557, Nilia.Cartaya@dot.state.fl.us:

Engineer Intern in charge of preparing CADD TTC plans for 4 proposed roadway design alternatives. Duration: 2019-ongoing

FDOT DISTRICT 6. SR 94/KENDALL DR FROM SR 997/KROME AVE TO SR 5/S DIXIE HWY (BRT STUDY) FM NO. 437784-1, PROJECT REFERENCE: NILIA CARTAYA, 305-640-7557, Nilia.Cartaya@dot.state.fl.us:

Engineer Intern in charge of preparing CADD TTC plans for 4 proposed roadway design alternatives. Duration: 2019-ongoing



MOATZ SAAD, PhD

TRAFFIC & EMERGING TECHNOLOGIES ENGINEERING



HBC Tenure: 1 yr
Industry Experience: 7 yrs
Education:
PhD, Civil Engineering
Alexandria University,
Egypt 2019
Master of Science,
Transportation Engineering
University of Central Florida,
2016
Bachelor of Science,
Civil Engineering
Alexandria University, 2012

Qualifications:

- PTV
- VISSIM
- GIS
- SAS
- SPSSR
- Python
- SAS Data Mining
Certificate

Dr. Saad has 7 years of experience. His areas of expertise are transportation engineering, traffic safety, traffic simulation, and connected and autonomous vehicles. He also has experience teaching courses of Transportation Planning, Traffic Engineering, and Highway Engineering. He conducted a safety and operational impact study of connected and autonomous vehicles at express lanes regarding market penetration rates (MPR) and lanes' configurations. In addition, he conducted a project for evaluating driving behavior at toll plazas and managed toll lanes. Dr. Saad also has experience with analyzing big data such as Microwave Vehicle Detection System data (MVDS) for traffic safety studies on expressways in Central Florida. Additionally, he has worked on a multitude of traffic safety projects concerning bicycle safety at intersections using crowdsourced smartphone data. He participated in studies related to the safety of alternative intersections in the U.S. He also worked on a study for traffic and safety management in smart Mega Cities. Dr. Saad has multiple journal publications and several conference presentations. He is also a reviewer for several journals including Accident Analysis and Prevention Journal (AAP), Journal of Transportation Research Record (TRR), Journal of Transportation Engineering Part A, and Journal of advanced transportation. In his role with HBC, Dr. Saad is serving as a Traffic/Emerging Technologies Engineer. He has worked on the data processing and microsimulation modeling part of the Okeechobee Road (US 27) Traffic Management Plan (TMP).

KEY PROJECTS

MIAMI-DADE COUNTY, BUS EXPRESS RAPID TRANSIT, SMART PLAN BUS EXPRESS RAPID TRANSIT (BERT), PROJECT, REFERENCE: ODALYS DELGADO, (305) 507-5583, Odalys.Delgado@parsons.com:

Traffic Engineer responsible for conducting traffic control analysis by comparing measures of effectiveness at multiple signalized and unsignalized intersections, arterial corridors, and urban networks. Task was performed by supervising the data collection phase at key intersections. Utilized the latest versions of Synchro, and Vissim to analyze the effects of the interaction of multiple modes on the operational efficiency of any combination of roadway elements. Performed optimization and microsimulation of subject intersections to more closely examine the operational and safety effects of various improvement options while simultaneously incorporating pedestrian, bicycle, motor vehicles and transit. Utilized transit microsimulation capabilities such as transit signal priority (TSP) to optimize the signal timing and balance between mobility and safety in both urban and rural scenarios. Optimized signal timing via Synchro for future years

2020 and 2040 as well as future years including TSP at specified intersections.

FDOT DISTRICT 6, SR 25/US 27/OKEECHOBEE ROAD TRANSPORTATION MANAGEMENT PLAN, MIAMI-DADE COUNTY, FL, PROJECT, REFERENCE: BAO-YING WANG, P.E. (305) 470-5211, baoying.wang@dot.state.fl.us:

Assisted with creating the Synchro Analysis of the project corridor and model lead on coding the VISSIM microsimulation model for the corridor, including all detour and diversion routes. Four microsimulation scenarios are being tested: base model, during construction no closure, 1 lane closure, and full closure. This requires 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. Coordinated with Miami Dade County to identify preferred standards for the library of signal timing plans being created.

MOATZ SAAD, PhD

TRAFFIC & EMERGING TECHNOLOGIES ENGINEERING

GRADUATE RESEARCH ASSISTANT, UNIVERSITY OF CENTRAL FLORIDA - DEPARTMENT OF CIVIL, ORLANDO, FL:

- Studied the safety and operational impact of connected vehicles (CVs) and autonomous vehicles (AVs) on managed lanes with dynamic toll pricing using VISSIM microsimulation.
- Conducted a research for investigating the bicycle safety at intersections using crowdsourced smartphone data.
- Implemented a study for evaluating drivers' behavior at toll plazas using driving simulator.
- Investigated the optimal access zone designs at managed toll lanes using microsimulation and driving simulator.
- Analyzed Microwave Vehicle Detection System (MVDS) data for studying traffic safety on expressways.
- Participated in a project related to the safety of different types of alternative intersections in the U.S.
- Participated in the real-time crash risk visualization for traffic safety challenge (Qualified with UBER and FORD as semifinalists in a national competition, U.S. DOT).
- Provided technical reports for the abovementioned studies.
- Reviewed research papers for multiple journals (e.g., Accident Analysis and Prevention Journal (AAP), Journal of Transportation Research Record (TRR), and Journal of advanced transportation). Duration: August 2015 to Present

TEACHING AND RESEARCH ASSISTANT, ALEXANDRIA UNIVERSITY, CIVIL ENGINEERING DEPARTMENT, ALEXANDRIA, EG

Lectured on the courses of Transportation Planning, Traffic Engineering, and Highway Engineering.
Supervised senior level projects and Evaluated tests and assignments. Duration: August 2013 to July 2015

CIVIL ENGINEER FACB GROUP ALEXANDRIA, EG

- Designed residential buildings.
- Participated in a project related to traffic flow optimization at intersections using VISSIM microsimulation. Duration: August 2012 to September 2013

PAOLA ARMADA

CADD/COMPUTER TECHNICIAN



HBC Tenure: 2 yrs

Industry Experience: 3 yrs

Education:

Bachelor of Science,
Civil Engineering
Polytechnic University of
Puerto Rico, 2017

Ms. Armada graduated from the Polytechnic University of Puerto Rico in 2017 with a B.S. in Civil Engineering. She has been an engineering intern at HBC Engineering Company since 2018. Prior to that she was an intern with other engineering firms starting in 2015. She is a member of the American Society of Civil Engineers and she was in the Civil and Environmental Engineering Department Honor Program given her outstanding academic performance. She has participated in several high-profile projects in South Florida and is proficient in a variety of technical software packages such as AutoCAD.

KEY PROJECTS

FDOT DISTRICT 4, SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS., BROWARD COUNTY, FL, ROBERT LOPES, (954) 777-4425, robert.lopes@dot.state.fl.us:

Engineer Technician who assisted in the design improvements along SR 7 from Hallandale Beach Blvd to Turtle Creek Pkwy. The design included pedestrian safety improvements at multiple signalized intersections, a signalized pedestrian mid-block crossing, widening, pavement reconstruction, bike lanes, pavement markings, and signage. Duration: 2018-ongoing

FDOT DISTRICT 6, SR 90/SW 8th ST. AND SW 157th AVE., MIAMI DADE COUNTY, FL, JASON CHANG, (305) 470-5331, jason.chang@dot.state.fl.us:

Engineer Technician who assisted in the design improvements to optimize safety and operations at the high-speed intersection. This included widening to provide an exclusive free flowing left and right turn lane and accelerations lanes, shoulder reconstruction, milling and resurfacing, pavement markings, new guardrails, bike lanes, and signage. Duration: 2018-ongoing

FDOT DISTRICT 6, SR 933/NW 12th AVE. AND NW 19th ST., MIAMI DADE COUNTY, FL, LUIS TEJADA, (305) 470-5461, luis.tejada@dot.state.fl.us:

Engineer Technician who assisted in the design of traffic signals for safety improvement. This included signalization addition to control traffic flow, milling and resurfacing to enhance road quality, and signing and pavement markings to ensure informed operations within the traffic stream. Specific signalization designs consisted of new signalization loops and assembly, signal heads, pedestrian heads and detectors, sign panels including internally

illuminated signs, and four new mast arms. Duration: 2018-ongoing

FDOT DISTRICT 6, SR 933/NW 12th AVE. AND NW 19th ST., MIAMI DADE COUNTY, FL, LUIS TEJADA, (305) 470-5461, luis.tejada@dot.state.fl.us:

Engineer Technician who assisted in the design of traffic signals for safety improvement. This included signalization addition to control traffic flow and provide safety to pedestrians, milling and resurfacing to enhance road quality, and signing and pavement markings to ensure informed operations within the traffic stream. Specific signalization designs consisted of new Rectangular Rapid Flashing Beacons (RRFB), sign panels including internally illuminated signs, and a new mast arm. Duration: 2018-ongoing

ALTERNATE CONCEPTS INC.

Infrastructure Inspector

- Completed visual inspections and condition assessments of the Puerto Rico Railway System (Tren Urbano) structures and drainage infrastructure.
- Identified and proposed possible improvements to the inspection, condition evaluation, and maintenance assessment processes of transportation facilities.

NORTH CAROLINA STATE UNIVERSITY

Research Assistant

- Printed Electrical Sensors for Structural Health Monitoring
- Collaborated in the development of a more accurate technique using inkjet printers with modified cartridges to print sensors used in electrical impedance tomography.
- Selected in the highly-competitive Research Internship Summer Experience (RISE Program)

PAOLA ARMADA

CADD/COMPUTER TECHNICIAN

IOWA STATE UNIVERSITY

Research Assistant

- Characterization of a Soft Elastomeric Resistor for Structural Health Monitoring
- Assisted in the development of a flexible sensing skin that transduces strain into resistance for the current SHM technologies incorporated into wind turbine blades.
- Chosen as one of ten international candidates for the Wind Energy Science, Engineering, and Policy (WESEP Program)



ANGEL GALVEZ MOYA

ELECTRICAL DESIGNER



HBC Tenure: 1 yrs

Industry Experience: 14 yrs

Education:

Master of Science,
Electrical Engineering
Universidad Central de las
Villas, 2013

Bachelor of Science,
Electrical Engineering
Universidad Central de las
Villas, 2005

Mr. Galvez graduated from the Universidad Central de las Villas, Cuba in 2013 with a M.S. in Electrical Engineering. He has been an electrical designer at HBC Engineering Company since 2019 and has work experience as an electrician involving installation of new high voltage electrical service, troubleshoot, repaired and serviced a variety of electrical work, analyzed blueprints, drawings and work orders to accomplish the assigned work correctly and repaired wiring systems, electrical conduit, and related equipment.

KEY PROJECTS

POWERCOM, LLC. 2511 NW 16TH LN STE 8, POMPANO BEACH, FL, 511 NW 16th LN STE 8, POMPANO BEACH, FL 33064 (954) 978-7070 / ELECTRICIAN:

Installed, maintain, repaired and tested equipment.

- Installation of new high voltage (480 volts) electrical service.
- Troubleshoot, repaired and serviced a variety of electrical work.
- Analyzed blueprints, drawings and work orders to accomplish the assigned work correctly.
- Repair Wiring Systems, Electrical Conduit, and Related Equipment
- Measuring, Cutting, and Bending Conduit Using Hand and Hydraulic Benders
- Replacing Defective Wiring Systems

KEYLITE POWER & LIGHTING CORP. 12312 SW 117 CT, MIAMI FL 33186 (305) 232-9910 / ELECTRICIAN OCT 2017 - FEB 2018

- Measuring, Cutting, and Bending Conduit Using Hand and Hydraulic Benders
- Installed, maintain, repaired and tested equipment.
- Installation of new high voltage (480volts) electrical service.
- Troubleshoot, repaired and serviced a variety of electrical work.

ROADRUNNER ELECTRIC INC. 4735 SW 74 AVE, MIAMI, FL 33155 (305) 267-1013/ ELECTRICIAN APRIL 2016- OCT 2017

- Installed, maintain, repaired and tested equipment.
- Installation of new high voltage (480volts) electrical service.
- Measuring, Cutting, and Bending Conduit Using Hand and

Hydraulic Benders.

EMPRESA DE TELECOMUNICACIONES, VILLA CLARA, CUBA. AUG 2009 –NOV 2015

- Control of energy carriers in the province Radio Shack
- Electricity and another complementary services activity
- Analysis and regular monitoring of the implementation of the budgets of expenses and investments of Activity Electricity, Fuels and Lubricants, Water and Other.
- Auto inspection on Energy Fuels and Lubricants and Power and Control Plans Audits recommended measures to be carried out by the leading area or governing bodies of the activity at the country level.
- The analysis and application of the methodology for the control of energy carriers, and guidance on emerging Savings Programs, guide the institutions responsible for State Policy for energy carriers as well as the program for savings and rational use, their indices and Consumer Standards.
- Analysis and implementation of all organizational and technical regulations on energy carriers, aimed at ensuring energy efficiency of new investments.

EMPRESA DE PROYECTOS ELECTRICOS AGROPECUARIO. VILLA CLARA, CUBA SEP. 2008-JUL 2009

- Senior specialist of Electric Projects.

EMPRESS HOSTELES DE MONTAJE Y MANTENIMIENTO ELECTRICO. VARADERO, CUBA FEB. 2007-JUN. 2008

- Maintenance of automatic, weak currents and SADI of Iberostar

ANGEL GALVEZ MOYA

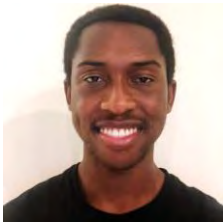
ELECTRICAL DESIGNER

hotels.

- Automatic Montage Hotel Coral.

CARDIOCENTRO ERNESTO CHE GUEVARA.VILLA CLARA, CUBA / MAINTENANCE ENGINEER DEC 2005-FEB. 2007

- Checked the software and computers connected to the system of medical images
- Tested, adjusted and repaired electromedical equipment, inspect the equipment and the structural environment of the facility and checked the proper use of equipment



DERREK OKOSUN

ENGINEERING TECHNICIAN



HBC Tenure: 1.5 yrs

Industry Experience: 1.5 yrs

Education:

Bachelor of Science,
Civil Engineering
Florida International University,
2019

Registration:

Professional Engineer,
Florida-No. 41853, 1989

Qualifications:

- TTC Advanced Certification
- Work Zone Safety and Traffic Control

Mr. Okosun graduate from Florida International University, having graduated as a Civil Engineer in 2019. He has been an intern at HBC Engineering Company since 2019 and has received training for TTC Advanced and Work Zone Safety and Traffic Control. Derrek has been a computer technician and CADD operator at HBC Engineering Company since 2019 and has already participated of two important FDOT projects. He has assisted with utility coordination and has been a part of the Temporary Traffic Control Plan efforts for an RRR project in the City of Delray Beach.

KEY PROJECTS

FDOT DISTRICT 4, SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS., BROWARD COUNTY, FL, ROBERT LOPES, (954) 777-4425, robert.lopes@dot.state.fl.us:

Engineer Technician who assisted in the utility coordination along SR 7 from Hallandale Beach Blvd to Turtle Creek Pkwy. Utility coordination consisted of cooperating with utility owners to accurately display utilities along SR 7. Duration: 2019-present

FDOT DISTRICT 4, HOMEWOOD BLVD. FROM OLD GERMANTOWN RD. TO LOWSON BLVD., BROWARD COUNTY, FL, PROJECT REFERENCE: RAUL DOMINGUEZ, 954-777-4677, raul.dominguez@dot.state.fl.us:

Engineer Technician who assisted in designing Temporary Traffic Control Plan (TTCP) for 0.51-miles RRR project in Homewood Blvd. in the City of Delray Beach. TTCP Design included typical sections for vehicular traffic and ADA compliant pedestrian detour on a multilane road. Task was accomplished by using tables to reference applicable details and index 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. Coordinated with District 4 Construction as necessary to ensure feedback and approval of the proposed TTCP design. Duration: 2018 – on-going



EMANUEL DE JESUS NEGRON

CADD/ COMPUTER TECHNICIAN



HBC Tenure: 1 yr

Industry Experience: 2 yrs

Education:

Bachelor of Science,
Civil Engineering,
Polytechnic University of
Puerto Rico, 2018

Qualifications:

- OSHA Certified – 30 hours
- Autodesk AutoCAD
- CIC Soil Classification
- Sketch up
- MicroStation/Geopak

Mr. Negron received his Bachelor of Science degree from the prestigious Polytechnic University of Puerto Rico in 2018. He has been with HBC Engineering Company since 2018, but his experience in the engineering area started as an intern at the Office of Permits Management in Puerto Rico, in 2013. He has several training and certifications such as the OSHA 30 hours, Sketch up, Autodesk AutoCAD, and MicroStation/Geopak. Since 2018 he has been an active participant in several high-profile traffic engineering projects in Miami-Dade County.

KEY PROJECTS

HCB ENGINEERING COMPANY:

Work with design files (MicroStation, AutoCAD), Cost estimate, Field visits and Visual inspections, Data collection, Project reports, Project documentation. Duration: March 2019 – Present.

PROJECTS:

- EMERGENCY TRAFFIC SIGNAL – NW 7TH AVENUE AT NORTHSIDE POLICE STATION:

Redesigned and updated existing roadway, signalization, and pavement markings components as part of safety improvements done to the SR 7 to add a traffic signal component that gives priority to the police station.

- TRAFFIC SIGNAL – INTERSECTION OF NW 36TH STREET AND NW 20TH AVENUE:

Redesigned and updated existing roadway, signalization, and pavement markings components as part of safety improvements done to the SR 25 to add a mast arm for the control pedestrian crossing.

- TRAFFIC SIGNAL – INTERSECTION OF NW 54TH STREET AND NW 14TH AVENUE:

Redesigned and updated existing roadway, signalization, and pavement markings components as part of safety improvements done to the SR 944 to add a bigger sidewalk that will have the clearance after a new mast arm is install.

- TRAFFIC SIGNAL - INTERSECTION OF NW 12TH AVENUE AND NW 19TH STREET:

Redesigned and updated existing roadway, signalization, and pavement markings components as part of safety improvements done to the SR 933 to give the pedestrian a safer way to cross the intersection on the way to the hospital.

VAG TRANSPORTATION ENGINEERING CONSULTING PSC, PUERTO RICO:

Worked with data collection, Visual inspections, Project reports, Street plans, Sign design (AutoCAD). Duration: October 2018- March 2019

STEER, PUERTO RICO:

Worked with project locations, data collection and data analysis, KMZ files, research, and Long-Range Multimodal Transportation Plan Reports. Also subcontracted by VAG Transportation Engineering Consulting PSC. Duration: May 2018 – October 2018

OFFICE OF PERMITS MANAGEMENT (OGPE), PUERTO RICO:

Intern for Government Center of who worked with case evaluations: Location, Soil classification, Use permits, Construction permits. Duration: January-May 2013

FREDERICK G. KAUB, P.G., L.A.C.*Principal in Charge / Professional Geologist / Asbestos Consultant / Well Contractor***SUMMARY OF QUALIFICATIONS**

Mr. Kaub assumes overall responsibility for the leadership of professional Geotechnical and Engineering services for all GFA contracts as Principal-in-Charge. Mr. Kaub serves in the capacity of Executive Liaison to company clients. He is a graduate of Indiana University (White Star Endowment Scholarship Recipient) with a B.S. in Geology; is a licensed Florida Professional Geologist; and is co-founder of GFA International, Inc. He has served in the capacity of Expert Professional for the South Florida Water Management District and is professionally involved and active in the following associations: Professional Member of: Geotechnical Society of America, Association of Engineering Geologists, American Institute of Hydrology, National Association of Environmental Professionals, Florida Association of Environmental Professionals, and Florida Groundwater Association. Serving South Florida for over thirty-two years, Mr. Kaub has a clear understanding of South Florida geology.

REPRESENTATIVE PROJECT EXPERIENCE**Camino Real Bridge Reconstruction Project – Boca Raton, FL***Professional Geologist / Principal-in-Charge*

This \$9 million dollar project consisted of renovations to the historic Camino Real Bridge over the Intracoastal Waterway in east Boca Raton, Florida. Work included replacing the sidewalks, railings, approach spans, decking, and foundations. Vehicle lanes and sidewalks were widened. The bridge tender's house was demolished and moved from the southeast corner to the northeast corner of the bridge. GFA completed a Pre-Construction Video Survey prior to construction. This included a Structural Inspector performing visual inspections and video documentations of exteriors for signs of structural distress or damage, exterior stucco, glazing, walkways / breezeways, and structural conditions. After construction was completed, GFA performed a Post-Construction Video Survey. GFA provided FDOT certified engineering field technicians and a certified laboratory to perform construction materials testing in accordance with the approved plans and the requirements of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction. GFA also provided geotechnical technicians to perform vibration monitoring with remote seismographs when construction occurred near the existing structure on a continuing basis during construction activities. Mr. Kaub was responsible for overseeing all services provided by GFA.

Hillsboro Inlet Bridge – Lighthouse Point, FL*Professional Geologist / Principal-in-Charge*

This project consisted of renovations to the existing Hillsboro Inlet Bridge which included a new sidewalk and pedestrian railing on the south side of the bridge, new traffic railings on both sides of the bridge and upgrades to the fender system. The existing bridge tender house was retrofitted into a two-story building equipped with better facilities and more modern operational equipment. The bridge was also repainted. The estimated total construction cost for the project was \$7.8 million. GFA provided construction materials testing services for all soils and concrete material for the project. GFA provided CTQP certified Earthwork Inspectors, drilled shaft inspectors, and maintained an FDOT Density Logbook on site.

**YEARS OF EXPERIENCE**

32

EDUCATION

B.S., GEOLOGY, INDIANA
UNIVERSITY (WHITE STAR
ENDOWMENT SCHOLARSHIP)

LICENSES & CERTIFICATIONS

- FLORIDA PROFESSIONAL GEOLOGIST #1344
- FLORIDA ASBESTOS CONSULTANT #AX71
- FLORIDA WATER WELL CONTRACTOR #11236
- ASBESTOS CONTRACTOR SUPERVISOR, PROVIDER #: FL-49-0003810, CERT #: 07201803
- ASBESTOS SURVEY & MECHANICAL INSPECTOR, PROVIDER #: FL-49-0003810, CERT #: 07191804
- ASBESTOS MANAGEMENT PLANNER, PROVIDER #: FL-49-0003810, CERT #: 07191801
- ASBESTOS PROJECT DESIGNER, PROVIDER #: FL-49-0003810, CERT #: 07211801

Flagler Memorial Bridge – West Palm Beach, FL*Professional Geologist / Principal-in-Charge*

The project consisted of the complete replacement of the existing bridge with a new four-lane divided bridge. The new bridge includes two 12-foot wide travel lanes in each direction, an eight-foot wide shoulder on each side, and a 15.5-foot median. There is also an eight-foot wide sidewalk on each side. The estimated construction cost is \$97.6 million. GFA provided construction materials testing for all soils and concrete work on the project. GFA is also providing quality control services to our client and is maintaining an FDOT Density Logbook as well as entering soil and concrete testing results into the FDOT system.

Golden Gate Boulevard Widening – Collier County, FL*Professional Geologist / Principal-in-Charge*

This project consisted of the widening of approximately 13,000 linear feet of Golden Gate Boulevard. This included three ponds, intersection improvements at Everglades Boulevard, and one bridge widening. GFA performed up to (135), 5-foot deep auger borings and (9), 10 foot deep auger borings in the proposed new alignment at approximate 100 foot intervals. These borings were staggered on the north and south sides of the Golden Gate widening and will be located at both sides of the Everglades widening. GFA performed (4), 100 foot deep SPT borings for the proposed bridge widening. GFA performed (4), 25 foot deep SPT borings for signalization at the Golden Gate and Everglades intersection. GFA performed up to (15), 15 foot deep auger borings at 3 pond locations (5 per pond site). GFA visually classified and stratified the soil/rock samples recovered and perform laboratory testing as necessary to facilitate classification of samples.

Island Way South Extension – Jupiter, FL*Professional Geologist / Principal-in-Charge*

Island Way South will provide a southern extension of the existing N. Island Way roadway, which currently connects to W. Indiantown Road from the north just west of Central Boulevard. Island Way South will provide an alternate route that will alleviate some traffic from Indiantown Road and Central Boulevard. This project includes improvements to 168th Street with new lanes and turn-a-bout for a distance of about 600 linear feet, construction of new Island Way roadway for a distance of about 2,740 linear feet with some small portions encompassing existing roadway incorporation, and mast arms at one intersection. GFA provided Geotechnical Engineering Services which included performing a geotechnical exploration consisting of hand augers, standard penetration test borings, exfiltration tests, asphalt cores, and laboratory testing of soil samples.

Oslo Road Phase III Roadway Improvements – Indian River County, FL*Professional Geologist / Principal-in-Charge*

This project consisted of the reconstruction and widening of Oslo Road from two lanes to four lanes between 43rd Avenue and 58th Avenue, a distance of approximately 1.3 miles. FDOT Standards were specified for the construction. In addition, the project included filling existing ditches and constructing new drainage infrastructure, a new bridge, and a sidewalk. During the project, GFA was responsible for providing materials testing services to Indian River County. GFA provided a quality control manager and FDOT certified technicians to perform the required field testing including the roadway embankment, pipe backfill, subgrade and base testing. GFA's certified lab technicians performed the required organic content tests, LBR's, proctors, LL/PL, and sieve analyses. GFA provided FDOT certified technicians and staff to provide all construction materials testing for the reconstruction and widening of Oslo Road as well as a quality control manager.

CARLOS A. MERCADO, P.E., M.S.*Branch Manager / Senior Geotechnical Engineer***SUMMARY OF QUALIFICATIONS**

Mr. Mercado has over 26 years of Professional Engineering experience. As GFA's Delray Beach Branch Manager, Carlos is responsible for overseeing his staff, as well as all the work that is performed from the Delray office. Carlos's background as Geotechnical Engineer and Business owner provide for strong management skills and a valued approach to contract negotiation and execution. Mr. Mercado's project management experience includes educational facilities, industrial facilities, port, aviation, commercial facilities, multi-story condominiums, and infrastructure projects. Mr. Mercado has also managed numerous geotechnical, pile driving, ground improvement, post-tensioning, and materials testing projects, as well as performed pre and post-construction structure conditions surveys.

SELECT PROJECT EXPERIENCE**North 64th Avenue Roadway Widening and Utility Improvements – Hollywood, FL***Senior Geotechnical Engineer / Contract Manager*

This project consisted of the demolition and relocation of an existing lift station and all associated piping, pumps, and utility line connections, milling and resurfacing of the existing roadway. GFA provided engineering field technicians and a certified laboratory to complete Construction Materials Testing services for all soils and concrete materials utilized for the project completion. Mr. Mercado was responsible for overseeing all staff associated with the project, as well as overall project management.

SW 18th Street Roadway – Boca Raton, FL*Contract Manager / Sr. Geotechnical Engineer*

This project consisted of the removal of existing asphalt, placing fill material and repaving the 1,300-linear foot stretch of roadway on SW 18th Street, west of El Rio Canal and east of the FEC railroad. GFA performed a Geotechnical Exploration consisting of six standard penetration test borings to depths of 6-feet below existing grade. Mr. Mercado was responsible for reviewing field data collected from the soil borings and providing recommendations for the proposed construction in the geotechnical report.

Hillsboro Technology Center Mast Arm – Deerfield Beach, FL*Contract Manager / Sr. Geotechnical Engineer*

This project consisted of the installation of a mast arm on Hillsboro Boulevard and Fairway Drive in Deerfield Beach, Florida. GFA performed a Geotechnical Exploration consisting of two standard penetration test borings to depths of 25-feet below existing grade. Mr. Mercado was responsible for reviewing field data collected from the soil borings and providing recommendations for the proposed construction in the geotechnical report.

Roadway Maintenance Responsibilities – Coconut Creek, FL*Senior Geotechnical Engineer / Contract Manager*

The objective of this project was to collect site and subsurface data and summarizing test results in the form of a Geotechnical Engineering report listing pavement structural values at each location. GFA performed a total of 81 asphalt cores and 27 standard penetration test borings to depths of 15-feet below existing grade. GFA also sampled base rock and subgrade material for Limerock Bearing Ratio (LBR) testing, as well as carbonate content testing. Mr. Mercado was responsible for overseeing all staff associated with the project, as well as overall project management.

**YEARS OF EXPERIENCE**

26

YEARS WITH THE FIRM

5

EDUCATION

- B.S., CIVIL ENGINEERING
- M.S., GEOTECHNICAL ENGINEERING, UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

LICENSES & CERTIFICATIONS

- STATE OF FLORIDA PROFESSIONAL ENGINEER #71707
- LICENSED GEOTECHNICAL ENGINEER – PUERTO RICO #11621

PROFESSIONAL ORGANIZATIONS & AFFILIATIONS

- AMERICAN SOCIETY OF CIVIL ENGINEERS

Glades Road and Turnpike North Bound Exit Ramp – Boca Raton, FL*Contract Manager*

This project is located in Boca Raton, Florida on Glades Road and the Florida Turnpike. This \$8.3 million project consists of adding an additional right turn lane from westbound Glades Road to the entrance of the Turnpike, adding an additional right turn lane from the Turnpike off ramp to westbound Glades Road and widening the exit ramp from the northbound Turnpike to Glades Road to two lanes. This project also includes installing new traffic signals, improving drainage, and lighting, and painting the Turnpike Bridge over Glades Road. GFA provided CTQP certified technicians and a certified laboratory to perform all construction materials testing services for all soils and concrete materials used on the project.

Flagler Memorial Bridge – West Palm Beach, FL*Contract Manager*

The project consisted of the complete replacement of the existing bridge with a new four-lane divided bridge. The new bridge includes two 12-foot wide travel lanes in each direction, an eight-foot wide shoulder on each side, and a 15.5-foot median. There is also an eight-foot wide sidewalk on each side. The estimated construction cost is \$97.6 million. GFA provided construction materials testing for all soils and concrete work on the project. GFA also provided quality control services to our client and is maintaining an FDOT Density Logbook as well as entering soil and concrete testing results into the FDOT system.

SR 80 (Southern Boulevard) Bridge Replacement Project – West Palm Beach, FL*Contract Manager*

This project consists of the replacement of the SR 80/Southern Boulevard bridge over the Intracoastal Waterway and Lake Worth Lagoon between West Palm Beach and Palm Beach. The new bridges will each carry one lane of traffic in each direction, have 6-foot-wide sidewalks in each direction, and 10-foot-wide paved shoulders with 7-foot-wide bike lanes. The new bridge over the Intracoastal Waterway will be a drawbridge with a vertical clearance of 21 feet and the navigable-channel width will be increased to 125 feet. The new bridge over Lake Worth Lagoon (tide relief bridge) will be a low level, fixed bridge similar to the existing bridge. The project also includes reconstruction and paving of the roadway approaches and causeway. The estimated total cost of construction is \$93,000,000.00. GFA is providing CTQP Certified Engineering Field Technicians and a certified laboratory to complete Construction Materials Testing for all soil, aggregate, and concrete material utilized for the project completion. GFA is also providing CTQP Dilled Shaft technicians for the project and a QC Manager.

SR 708 & SR 809 – Palm Beach County, FL*Contract Manager*

The improvements under this contract consisted of lighting retrofit for three intersections along SR 708 and eleven intersections along SR 809 in Palm Beach County, Florida. GFA provided CTQP Certified Engineering Field Technicians and a certified laboratory to complete Construction Materials Testing for all soil, aggregate, and concrete material utilized for the project completion. Additionally, GFA provided a Geotechnical Field Technician to monitor ground vibration levels with a seismograph and provided a vibration control plan for the project.

NE 26th Street – Wilton Manors, FL*Contract Manager*

This project consisted of the widening of 0.868 miles of NE 26th Street from Andrews Avenue to Dixie Highway in the City of Wilton Manors, Florida. GFA provided CTQP Certified Engineering Field Technicians and a certified laboratory to complete Construction Materials Testing for all soil, aggregate, and concrete material utilized for the project completion.

ESTELA G. LEÓN AGUILAR, P.E., M.S.*Professional Engineer / Geotechnical Department Manager***SUMMARY OF QUALIFICATIONS**

Ms. Aguilar is a Professional Engineer specializing in the Geotechnical Engineering industry for GFA International, Inc. She has over five years of experience in the geotechnical engineering field. Her experience includes defining scope for geotechnical investigations, managing vibroflotation treatments, classifying soil samples recovered from test borings, performing pre-construction structure condition surveys, cutoff wall verification hole borings and testing, operation of a borehole optical televiewer, as well as vibration monitoring. She routinely provides settlement and pile capacity calculations, as well as foundation design and foundation recommendations.

As the Geotechnical Department Manager for the Delray Beach, Florida branch of GFA International, Inc., Ms. Aguilar is responsible for providing project management for geotechnical projects, overseeing and managing the geotechnical department staff, completing geotechnical exploration reports containing various recommendations for foundation designs, performing settlement and pile capacity calculations, defining scope for geotechnical investigations.

SELECT PROJECT EXPERIENCE**Marathon Shopping Center Parking Lot Investigation – Marathon, FL***Professional Engineer / Geotechnical Department Manager*

This project consisted of the investigation into cracking/settling in the parking lot of the Marathon Shopping Center plaza located at 5561 Overseas Highway in Marathon, Florida. GFA performed a Geotechnical Exploration consisting of eight pavement cores to depths of 2-feet below existing grade and twelve standard penetration test borings to depths of 6 feet below existing grade. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

Drainage Improvements – Miami Dade County, FL*Professional Engineer / Geotechnical Department Manager*

This project consists of drainage improvements on SW 27th Street from SW 57th Avenue to SW 58th Avenue in Miami Dade County, Florida. GFA performed a Geotechnical Exploration consisting of two standard penetration test borings to depths of 20-feet below existing grade and two exfiltration tests to depths of 15-feet below existing grade. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

Various Drainage Improvements, Miami Dade County, FL*Professional Engineer / Geotechnical Department Manager*

This project consisted of drainage improvements on SW 13th Street from SW 42nd Avenue to SW 40th Avenue, on SW 35th Street from SW 67th Avenue to SW 65th Avenue, and on SW 77th Avenue from SW 2nd Street to SW 4th Street. GFA performed a Geotechnical Exploration consisting of six standard penetration test borings to depths of 20-feet below existing grade and six exfiltration tests to depths of 15-feet below existing grade. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

**YEARS OF EXPERIENCE**

5

YEARS WITH THE FIRM

4

EDUCATION

- B.S., CIVIL ENGINEERING, CUM LAUDE, UNIVERSITY OF FLORIDA, 2012
- M.S., CIVIL/GEOTECHNICAL ENGINEERING, UNIVERSITY OF FLORIDA, 2013

LICENSES &**CERTIFICATIONS**

- STATE OF FLORIDA PROFESSIONAL ENGINEER #83307

PROFESSIONAL**ORGANIZATIONS &****AFFILIATIONS**

- AMERICAN SOCIETY OF CIVIL ENGINEERS, PALM BEACH BRANCH, CHAIR OF SOCIAL

SW 18th Street Roadway – Boca Raton, FL*Professional Engineer / Geotechnical Department Manager*

This project consisted of the removal of existing asphalt, placing fill material, and repaving the 1,300-linear foot stretch of roadway on SW 18th Street, west of El Rio Canal and east of the FEC railroad. GFA performed a Geotechnical Exploration consisting of six standard penetration test borings to depths of 6-feet below existing grade. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

Roadway Maintenance Responsibilities – Coconut Creek, FL*Professional Engineer / Geotechnical Department Manager*

The objective of this project was to collect site and subsurface data and summarizing test results in the form of a Geotechnical Engineering report listing pavement structural values at each location. GFA performed a total of 81 asphalt cores and 27 standard penetration test borings to depths of 15-feet below existing grade. GFA also sampled base rock and subgrade material for Limerock Bearing Ratio (LBR) testing, as well as carbonate content testing. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

Canal Point Pedestrian Bridge – Palm Beach County, FL*Professional Engineer / Geotechnical Department Manager*

This project consisted of the construction of a pedestrian bridge with the installation of prestressed concrete piles. GFA provided Dynamic Testing Services on four test piles prior to the installation of production piles using a Pile Driving Analyzer to develop the pile driving criteria and pile length recommendations. Additionally, GFA provided a Geotechnical Field Technician to perform Vibration Monitoring with a seismograph during pile installation activities. Ms. Aguilar was responsible for reviewing Dynamic Testing results and providing recommendations for the pile installation, as well as the completion of vibration monitoring reports.

Kimberly Boulevard – North Lauderdale, FL*Professional Engineer / Geotechnical Department Manager*

This project consisted of roadway improvements along Kimberly Boulevard from US Route 441 to Rock Island Road in North Lauderdale, Florida. GFA provided Geotechnical Engineering services consisting of ten pavement cores and ten standard penetration test borings to determine pavement section details for base and sub-base approximate thickness. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

Tam Oshanter Boulevard – North Lauderdale, FL*Professional Engineer / Geotechnical Department Manager*

This project consisted of roadway improvements along Tam Oshanter Boulevard from Rock Island Road to SW 81st Avenue in North Lauderdale, Florida. GFA provided Geotechnical Engineering services consisting of ten pavement cores and ten standard penetration test borings to determine pavement section details for base and sub-base approximate thickness. Ms. Aguilar was responsible for coordinating the geotechnical field work, overseeing geotechnical staff, as well as the completion of the geotechnical report with foundation recommendations for the proposed construction.

Camino Real Bridge Reconstruction Project – Boca Raton, FL*Professional Engineer / Geotechnical Department Manager*

This \$9 million dollar project consisted of renovations to the historic Camino Real Bridge over the Intracoastal Waterway in east Boca Raton, Florida. Work included replacing the sidewalks, railings, approach spans, decking, and foundations. Vehicle lanes and sidewalks were widened. The bridge tender's house was demolished and moved from the southeast corner to the northeast corner of the bridge. GFA services included Pre and Post Construction Video Survey, Construction Materials Testing, Environmental Consulting, and Vibration Monitoring. Ms. Aguilar was responsible for the completion of vibration monitoring reports.

LAKDAS NANAYAKKARA P.E. #37590**EDUCATION:**

Post Graduate Diploma in Structural Engineering
England, United Kingdom

Bachelor of Science Honors Degree in Civil Engineering
With Structural Engineer Major
University of Hartford
England, United Kingdom

Higher National Certificate in Civil Engineering
Hertfordshire College of Building
England, United Kingdom

PROFESSIONAL ENGINEER REGISTRATIONS:**Engineering**

- Chartered Structural Engineering
London, England – 1981
- Florida #037590
- South Dakota – 4058
- Minnesota - #17947

• Structural Engineering Expert for Unsafe Structure Board – City of Margate since “2001”.

• Structural expert witness services over 400 residential projects for Insurance companies, over 58 projects failure analysis and Expert testimony for litigation representation.

EMPLOYMENT:

1988 to present Lakdas / Yohalem Engineering, Inc
Fort Lauderdale, FL 33308

Principal - in charge of structural design and final review of construction documents, study, evaluation reports and contract negotiation.

1986-87 Yohalem Engineering, Inc.
Fort Lauderdale, FL 33308

Principal Associate - structural design, project management,
Structural Investigation Reports liaise with Architects and clients contract negotiation.

1983-86 Darg Palanasami and Associates, Inc.
Minneapolis, MN

Project Engineer - Structural design, site supervision, structural investigations and reports, liaise with Architects and General Contractors.

1978-83 Structural Design Partnership
St. Albans, England

Project Engineer - Structural design, site supervision, structural investigations and reports, liaise with Architects, General Contractors and clients.

NATIONAL & STATE AWARDS:

- *Tamarac City Complex: National Award: Structural Engineer of Record*
- *Aventura City Complex: State Award: Structural Engineer of Record*
- *Tamarac Pedestrian Bridge: State Award: Structural Engineer of Record*
- *2011 National Tilt-Up Achievement Award – Tilt-Up Concrete Association*

PATENT LICENSE TO INDUSTRY:

- *11 Patents: U.S., U.K., Australia, China and Bahamas*
- *Metal stud frame system # US 6980 347 B2*
- *Interlocking masonry wall # US 6550 208 B2*
- *Light gauge metal frame # US 6163 674 B1*

Construction

- Florida Certified General Contractor – CGC 044303

Inspection

- Certified Structural Masonry Inspector – 1992
- Certified Threshold Inspector – 1987
- Certified Uniform Building Code Inspector - 690



EXPERIENCE:

Thirty-six years of practicing as a Professional Structural Engineer in the following disciplines: building structures, marine and bridge engineering structures for many state, county and city agencies in support of high visible and miscellaneous public projects.

Over 1500 projects were completed in South Florida and the Caribbean Basin during the last 31 years.

Building Projects:

- ❖ 8 new stand-alone multi-story parking garages
- ❖ Over 10 multi-stories residential buildings with parking garages
- ❖ Over 5 multi-stories commercial buildings with parking garages
- ❖ 11 cruise terminal facilities
- ❖ Renovation and expansion of 61 existing elementary, middle and high schools.
- ❖ 6 high schools, 8 middle schools and 14 elementary schools (New)
- ❖ 11 community college building facilities, 6 special education facilities
- ❖ 18 multi-story hotels and resort projects
- ❖ Structural renovations of 11 parking garages, 21 condominiums
- ❖ 8 new libraries, 8 auditorium and amphitheater
- ❖ 14 new fire stations, 7 police and public safety buildings
- ❖ 6 new city complexes with two award winning structures

Water and Wastewater Treatment and Solid Waste Treatment Plants:

- ❖ 12 water and wastewater treatment plants expansion projects
- ❖ 6 solid waste treatment plant renovation and expansion projects
- ❖ 14 water and wastewater treatment plant renovation projects

Marinas, Seawalls and Port Facilities:

- ❖ 9 Marinas (Over 100 Slips)
- ❖ 64 Residential, multi-residential, docks and seawalls
- ❖ 8 Toewalls, bulkhead and pier projects at port facilities

Highway and Pedestrian Bridges:

- ❖ 18 new highway bridges ❖ 11 pedestrian bridges ❖ 14 passenger loading bridges
- ❖ 16 high-way bridge expansion projects

Park Facilities:

- ❖ 18 park and amusement park facilities

Mast Arm Structures:

- ❖ 400 Mast Arm Structures

Value Engineering and Constructability Review

Participated as structural expert for over 31 value-engineering sessions for both FDOT and County's major projects in building, bridges and water and wastewater treatment plants. Our Value-Engineering service has saved:

- Bridge projects over \$4.5 million
- Building projects, saved over \$4.1 million
- Water & Wastewater Treatment Plants, saved over \$6.6 million
- Worked for local city agencies as special structural review for over 40 projects

Structural Failure Analysis and Expert Witness: Construction Related Litigation

- 12 Commercial projects ❖ 46 Residential projects

Professional Societies:

Institute of Structural Engineers, London, England
American Society of Civil Engineers, American Concrete Institute
Florida Institute of Consulting Engineers, The Masonry Society

Civic Organizations:

Member of Broward County Construction Executive Association and Member of Florida Consulting Engineers



Wendy Cyriacks

Principal/Chief Scientist

Office Location

Deerfield Beach, FL

Education

- M.S. Marine Biology, Nova Southeastern University (graduate classes completed, 2004)
- B.S. Biology, University of Miami, 1983

Special Qualifications

- 30+ years environmental experience in south Florida
- Extensive PD&E and permitting experience
- Former FDOT Environmental Administrator, Districts 4 & 6
- FDEP Certified Erosion and Sediment Control Inspector (2004)
- PADI Open Water, Advanced, Rescue & Nitrox

Wendy Cyriacks has over 30 years' experience in environmental analysis and impact studies, permitting and NEPA documentation. Wendy serves as Principal in Charge and/or Chief Scientist on large scale environmental projects. She has coordinated extensively with permitting agencies and has been responsible for obtaining state, federal and local environmental permits on numerous public sector projects. She has managed and/or conducted natural resource studies including wetlands, marine benthic studies, threatened and endangered species, and contamination assessments. She has also developed mitigation and monitoring plans, conducted permit compliance reviews and QA/QC reviews.

PROJECT EXPERIENCE

U.S. 1/FEC RR Structures for the Expansion of Runway 9R-27L at FLL Airport, Environmental Permitting and Compliance, Broward County Aviation Department, Broward County, FL - This major project involves design and construction of the realignment of US1 and structures that will carry Runway 9R-27L and Taxiway over US-1, FEC RR and East Perimeter Road. Project Manager responsible for the environmental permitting effort including SFWMD ERP, USACE Dredge/Fill, SFWMD and Broward County EPGMD Dewatering permits, Tree permits, Stormwater and Wetland Resource permits. Specific activities include project oversight, scheduling,

client and agency coordination and quality control.

- **Bridges of the Isles Replacement Design-Build, Environmental Permitting, FDOT District 4/City of Fort Lauderdale, Broward County, FL** – This Design Build project consists of replacing five structurally deficient bridges with new 2-lane fixed low level bridges. Project Manager responsible for environmental permitting, preparation of an Endangered Species Biological Assessment, Section 7 consultation, EFH Assessment and consultation and development of a Mitigation Plan. Conducted quality control reviews, scheduling, team coordination and all project management activities.
- **I-595/Port Everglades Expressway Corridor Improvement, Environmental Permitting, I-595 Express, LLC / FDOT District 4, Ft Lauderdale, Broward County, FL** - This Private-Public Partnership project (P3) involved major reconstruction of I-595 mainline and interchanges and extended from SW 136th Street to east of SR 7. Environmental Manager responsible for all interagency coordination, permit agency liaison, permit preparation and quality control reviews. This was a fast track project with over 25 permits being obtained within the 18 months. Permits were required from Broward County, SFWMD (ERP, R/W Occupancy and Dewatering), USACE Dredge/Fill, FDEP NPDES and several Drainage Districts. Prepared and coordinated documentation for Section 408 approval from the USACE for modification to the North New River Canal.
- **SR 786/PGA Boulevard, Environmental Permitting & Mitigation, FDOT District 4, Palm Beach County, FL** - This 2-mile long project traversed the environmentally sensitive Loxahatchee Slough and involved elevating the roadway and constructing a new bridge to reduce roadway flooding and improve flow between the north and south sides of the Loxahatchee Slough. Environmental Manager responsible for project oversight, scheduling and quality control. Major tasks involved habitat mapping 6,589 acres in Loxahatchee Slough, conducting biological evaluations, environmental permitting and development of an onsite mitigation plan. Extensive agency coordination with SFWMD, USACE and Palm Beach Environmental Resources Management (ERM) occurred during the development of the mitigation plan (hydrological improvements).
- **West Relief Bridge Replacement Permitting, Mitigation and Monitoring, Town of Bay Harbor Islands, Miami-Dade County, FL** - Responsible for obtaining environmental permits and developed a mitigation plan for impacts associated with the construction of a new bridge, located in Biscayne Bay, an Outstanding Florida water (OFW) and Aquatic Preserve. The mitigation plan involved construction an artificial reef within Biscayne Bay. Conducted marine benthic surveys to determine impacts to the benthic communities which included seagrass and hard bottom habitat. Prepared permit application packages and obtained permits from Miami-Dade County Class I, SFWMD, and USACE. Also conducted five year monitoring of the mitigation site (artificial reef).

Wendy Cyriacks

Principal /Chief Scientist

- **SR 80/Southern Boulevard Bridge PD&E Study, Design and Permitting, NEPA Documentation, Permitting, FDOT District 4, Palm Beach County, FL** - This project involves the replacement of the two bridges over the Intracoastal Waterway and Lake Worth Lagoon. Project Manager responsible for preparing the NEPA documentation, Wetlands, Endangered and Threatened Species and EFH Assessment Reports. Conducted marine benthic survey for approximately 34 acres. Other activities include conducting wetland impact assessment, evaluating impacts to the environmentally sensitive resources due to construction methodology, and conducting wildlife surveys. Also responsible for obtaining permits from the USACE, USCG and SFWMD.
- **SR 710 Design-Build RFP Package Development, Environmental Studies & Permitting, FDOT District 4, Palm Beach County, FL** - This project extends from just west of the Martin/Palm Beach County line to the Pratt Whitney Entrance. Environmental Manager responsible for environmental permitting including development of the Environmental Resource Permit (ERP) package, coordination with SFWMD and USACE on jurisdictional wetland lines and impacts, developing UMAM, WRAP, m-WRAP and WATER functional assessment scores for preparation of Bid package for mitigation.
- **CR-714/Indian Street Widening, Environmental Permitting, FDOT District 4, Martin County, FL** – This project involved widening the existing 2-lane roadway and connecting to the new Indian Street/Martin Highway Bridge. Project Manager responsible for project oversight, supervision and QC of project activities including wetland delineation, agency coordination, environmental permitting, UMAMs, development of Cumulative Impacts Assessment, wood stork habitat foraging assessment and mitigation.
- **SR 997/Krome Avenue, Environmental Permitting, FDOT District 6, Miami-Dade County, FL** - This project involves widening Krome Ave. from Kendall Dr. to north of Tamiami Trail, from 2- to 4-lanes, includes widening the C-4 Canal Bridge. Environmental Manager responsible for the oversight and preparation of environmental permit applications (SFWMD: ERP & ROW and USACE) and Section 408 documentation. Responsibilities included evaluation of wetland impacts and wetland functional assessments, wood stork habitat foraging assessment, mitigation coordination and cumulative impact analysis.
- **SR 710 PD&E Study - Environmental Assessment/Finding of No Significant Impact, NEPA Documentation & Support Environmental Studies, FDOT District 4, Palm Beach & Martin Counties, FL** - Environmental Manager for a 25 mile road improvement. The project traverses extensive environmental sensitive areas including conservation lands and habitat for listed species. Responsible for managing all environmental activities including preparation of NEPA document (EA/FONSI) and support environmental documents (Endangered Species Biological Assessment, Wetlands, and Contamination). Additional responsibilities include conducting wetland/ habitat mapping of over 900 acres, preparing UMAMs, listed species surveys, wildlife crossing study, and development of wetland and species mitigation plans. Conducted extensive agency coordination with SFWMD, USACE, USFWS, FFWCC and PBC ERM.
- **Turnpike Widening PD&E Study/Design, Florida's Turnpike Enterprise, Broward County, FL**. The project involved conducting a PD&E study for the widening of a six-mile section of the Turnpike from south of Atlantic Boulevard to the Broward/Palm Beach County Line. Responsible for preparation of SEIR and support environmental documents including Wetlands and Endangered Species Biological Assessment reports and agency coordination. Also responsible for preparing all environmental permits including USACE, SFWMD and Broward County.
- **SR A1A Deerfield Beach PD&E Study, City of Deerfield Beach/FDOT District 4, Broward County, FL**. This Local Agency Program (LAP) project extends from SE 3rd St to NE 7th St through the Beach Community Redevelopment Area. Environmental Project Manager responsible for preparing all environmental studies and documentation including NEPA (Categorical Exclusion, Type 2), Endangered Species Biological Assessment Report, Contamination Screening Evaluation Report, and Noise Study Report.
- **Replacement of US 1/ SR 5 Low Level Bridges Design-Build, Environmental Permitting, FDOT District 4, Palm Beach County, FL**. This Design-Build project involved the replacement of four low level bridges located within an OFW/Aquatic Preserve. Environmental Manager responsible for preparation of permit applications (SFWMD, USACE, USCG) and agency coordination. Additional responsibilities included conducting a seagrass survey and mangrove delineation to defined wetland impacts. Developed avoidance/minimization plan that reduced impacts by >0.5 acre.
- **General Environmental Consulting Services, Environmental Studies, Permitting & Compliance, Palm Beach County Department of Airports, Palm Beach County, FL** - Environmental Manager for three separate PBC DOA General Consulting Services contract since 2009; providing miscellaneous environmental and permitting services including wildlife studies surveys (burrowing owl, gopher tortoise, wildlife hazard assessment), environmental permitting, annual SWPPP updates and compliance inspections (2010 – 2016), wetland delineations and agency coordination.



Timothy W.A. Ogle, MS

Environmental Engineer

Office Location

Deerfield Beach, FL

Education

- M.S. Environmental Engineering, University of Central Florida, 1995
- B.S. Environmental Engineering, University of Central Florida, 1991

Special Qualifications/Certifications

- Certified Traffic Noise Analyst – FDOT
- FDOT Noise Task Team
- USDOT - Transportation Research Board-ADC40/ Highway Noise Subcommittee Friend

Tim Ogle has more than 26 years of professional experience in Florida, particularly relating to transportation air quality and noise impact reviews and analyses as required by NEPA, FHWA and FDOT regulations. His expertise includes project oversight, field assessment, computerized air quality and traffic noise analyses, noise abatement design, project design change analyses and public involvement for air quality and traffic noise assessments. Mr. Ogle has been involved in transportation noise issues for the FDOT over his more than 20 year career and has conducted noise impact and barrier analyses for PD&E, Final Design and Design-Build projects on most of the primary expressways and significant surface streets in Miami-Dade County. Mr. Ogle has also performed numerous QA/QC reviews of FDOT noise studies and has conducted public involvement for FDOT projects and roadways in south Florida. Mr. Ogle has played a prominent role in conducting and reporting on air quality and traffic noise assessments for more than 50 PD&E projects statewide and

nearly as many final design projects for the FDOT and other agencies in the State of Florida.

PROJECT EXPERIENCE

- **Noise Analysis, SR 968/Flagler Street/SW 1st Street Premium Transit Study, FDOT District 6, Miami-Dade County, FL** - This project will provide Premium Transit (BRT or LRT) service and infrastructure along Flagler Street from west of the HEFT to east of I-95 and along SR 985/NW 107th Avenue from SW 8th Street to Flagler Street. Mr. Ogle is the Senior Environmental Scientist responsible for the development of the noise analysis associated with the Transit Study.
- **Noise Analysis, SR 25 (Okeechobee Road) PD&E Study, FDOT District 6, Miami-Dade County, FL** - This project proposes to improve overall traffic operations on the 9.6 mile long segment of Okeechobee Road from SR 997/Krome Avenue to NW 79th Avenue. Mr. Ogle is the Senior Environmental Scientist responsible for the development of the air and noise analysis associated with the Cat-Ex Type II for this PD&E Study.
- **Noise Analysis, SR A1A PD&E Study, FDOT District 4/City of Deerfield Beach, Broward County, FL** - This project will add lanes and improve an 0.8 mile long segment of A1A from SE 3rd Street to NE 7th Street. Mr. Ogle was the Senior Environmental Specialist responsible for the development of the air and noise analysis associated with the Cat-Ex Type II for this PD&E Study.
- **Noise Barrier Study, SR 874/Don Shula Expressway (87409) Final Design, MDX, Miami-Dade County, FL** - SW 88th Street/North Kendall Drive to SR 826/Palmetto Expressway. Completed in 2010. This project included a detailed design-phase noise barrier analysis for a project corridor located adjacent to multiple residential communities. This project also included extensive coordination with the project's design team and noise barrier specific public involvement efforts.
- **Noise Barrier Study, SR 826/Palmetto Expressway - SR 836/Dolphin Expressway Interchange Final Design, FDOT District 6, Miami-Dade County, FL** - SW 8th Street to NW 25th Street, SW 97th Avenue to SW 72nd Avenue. Completed in 2009. This project included a detailed design-phase noise barrier analysis for a project corridor located adjacent to multiple residential communities. This project also included extensive coordination with the project's design team.
- **Air & Noise Analysis, SR 826/Palmetto Expressway Express Lanes PD&E/CE Type II, FDOT District 6, Miami-Dade County, FL** - Roadway improvements (including express lanes) along an approximately 6 mile long segment of SR 826/Palmetto Expressway from SR 836/Dolphin Expressway to SR 932/NW 103rd Street. Mr. Ogle was the Senior Environmental Scientist responsible for the development of the air and noise analysis associated with the CE Type II.

Timothy W.A. Ogle, MS

Environmental Engineer

- **Noise Analysis**, *Districtwide Environmental Data and Report Consultant, FDOT District 6, Miami-Dade County and Monroe County, FL* - Air Quality and Noise Specialist for numerous projects in FDOT District 6. Tasks include conducting noise analyses for roadways such as NW 107th Avenue, I-195 and SR 826; preparing NEPA documentation and reevaluations for various District 6 projects; noise-related public involvement and responding to citizen's complaints; noise policy and guideline development for District 6 and Statewide including Chapter 17 of Part 2 of the PD&E Manual and Chapter 32 of the Plans Preparation Manual; and, in-house transportation noise-related training.
- **Air & Noise Analysis**, *Project Development and Environment (PD&E) Study for Golden Glades Interchange SR 826 / Palmetto Expressway Eastbound to I-95 Northbound, FDOT District 6, Miami-Dade County, FL* - This project proposes to provide a direct connection between eastbound SR 826 and northbound I-95 along with other operational improvements. Mr. Ogle is the Senior Environmental Scientist responsible for the development of the air and noise analysis associated with the Cat-Ex Type II for this PD&E Study.
- **Noise Analysis**, *SR 997/Krome Avenue South EIS, FDOT District 6, Miami-Dade County, FL* - This project will add lanes and improve an approximately 10-mile long segment of Krome Avenue from SW 296th Street/Avocado Drive to SW 136th Street/Howard Drive in the south Miami-Dade County. Mr. Ogle was the Senior Environmental Scientist responsible for the development of the noise analysis for the DEIS and FEIS.
- **Noise Analysis**, *SR 924/Gratigny Parkway Western Extension PD&E/CE Type II, Miami-Dade Expressway Authority (MDX) Miami-Dade County, FL* - This project will extend SR 924/Gratigny Parkway to the approximately 4.3 miles to west in northwestern Miami-Dade County between SR 826 and the HEFT. Mr. Ogle was the Senior Environmental Scientist responsible for the development of the noise analysis associated with the CE Type II. The project is anticipated to receive approval and LDCA by FHWA in early 2014.
- **Noise Barrier Analysis**, *SR 826/Palmetto Expressway Final Design, FDOT District 6, Miami-Dade County, FL* - This project widened and improved five segments of the SR 826 corridor between US-1 and I-75. This project also included extensive design phase coordination and public involvement efforts and build phase noise analysis/coordination. Mr. Ogle conducted the Final Design noise barrier analysis and portions of the project's public involvement program. Completed under Districtwide Miscellaneous Environmental Services contract.
- **Air & Noise Analysis**, *SR 836/Dolphin Expressway PD&E Study, FDOT District 6, Miami-Dade County, FL* - This project widened and improved SR 836 between NW 17th Avenue and I-95. Mr. Ogle was the Senior Environmental Scientist for the development of the air and noise analysis associated with the SEIR for this PD&E Study.
- **Air & Noise Analysis**, *I-75 Express Lanes PD&E Study, FDOT District 6, Miami-Dade County, FL* - This project widened, improved and added express lanes along an 8.6 mile long segment of I-75 from SR 826/Palmetto Expressway to the Miami-Dade/Broward County line and along SR 826 from NW 103rd Street to NW 154th Street. Mr. Ogle was the Senior Environmental Scientist responsible for the development of the air and noise analysis associated with the Cat-Ex Type II for this PD&E Study.
- **Air & Noise Analysis**, *SR 80/Southern Boulevard PD&E Study, FDOT District 4, Palm Beach County, FL* - CR 880 to Forest Hill Boulevard. Responsibilities include PD&E phase traffic noise impact and air quality analyses for the project corridor.
- **Noise Barrier Analysis**, *CR 714/SW Martin Highway Final Design, FDOT District 4/Martin County, Martin County, FL* - This project will add lanes and improve an approximately 1.9 mile long segment of Martin Highway from Florida's Turnpike to west of Mapp Road. Mr. Ogle was the Senior Environmental Specialist responsible for the development of the Final Design noise barrier analysis.



Andres E. Montero, PLA, ASLA

President

BACKGROUND

Since graduating from University of Oregon in 1997, Mr. Montero has worked as a Land Planner and Landscape Architect. During his career, Andres has been involved in all aspects of landscape architecture, ranging from large scale planning to detail design and has participated in numerous projects, many of which are located in the USA, China, Latin America and the Caribbean.

Mr. Montero has extensive experience with all aspects of production and execution of landscape architectural projects, including conceptual design, preparation of permit drawings, specifications, cost estimates, project schedule, municipal regulations, planning and zoning policies and site plan approval processes.

EXPERIENCE

- **Aerotropolis Panama (Panama City, Panama)** – Our Team provided master planning services for This 146-hectare Ciudad Aeroportuaria Tocumen. The project is located adjacent to the existing Tocumen International Airport in Panama City and it is planned to support new business generated by the Tocumen International Airport future expansion. The project includes a logistic and JIT center, business and industrial park, a tax free zone center, hotel and entertainment center, outlet mall, and a moving system connecting the complex, the airport and the line 1 of the future metro system.
- **Aroa Resort Community (Punta Cana, Dominican Republic)** – A Workshop Audit for a predominately single- family lot layout, 67.4 hectares, within a larger residential community.
- **Boathouse at the Riverside Hotel (Punta Cana, Dominican Republic)** – Located in the heart of Fort Lauderdale downtown, Boathouse offers waterfront dining with a spectacular view of the New River. Our team provided site planning and landscape architecture services.
- **Cap Cana Resort Community (Punta Cana, Dominican Republic)** – Cap Cana is an exclusive private resort community located along the east coast of the Dominican Republic. The team provided master planning services for several developments within the resort community, including the marina, 110-hectare Cap Cana Village and Las Iguanas residential development, the 100-hectare Racquet Village, the 160-hectare Mountain Golf Course Community with a Jack Nicklaus signature course, the Farallon I and Farallon II 285-hectare Golf Course Communities with two Gil Hanse signature courses in partnership with the Trump Organization.
- **Casa Lake Condominium (Lauderdale Lakes, Florida)** – This 63-unit Condominium Community located in a 2.56 acres site within the City of Lauderdale Lakes. The program includes a 4-story tower with parking, indoor & outdoor recreational amenities for the community and project entry feature. Our team collaborated with Martin Architectural Group in the preparation of the site plan and landscapearchitecture for the project.
- **Century Grand Central Park (Beijing, China)** – This transit-oriented development has a land area of 6 hectares on-structure planned and designed to be the Central Sports.

QUALIFICATIONS

A.M.L.A.
2017 - current

DUMON DESIGN
2010 - current

EDSA
1997-2010

EDUCATION

Bachelor of Landscape
Architecture
University of Oregon
1995-1997

Bachelor of Architecture
Universidad Jose Maria Vargas
Caracas, Venezuela
1988-1993

REGISTRATION

Registered Landscape Architect:
State of Florida

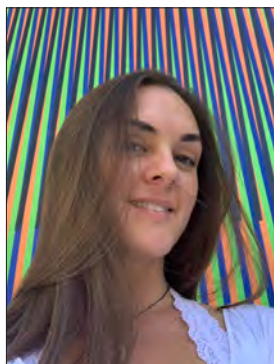
AFFILIATIONS

American Society of Landscape
Architects

AWARDS

10th China International Garden
Exposition
Wuhan, China
2015 Award of Excellence

- **Dali Wetland Waterfront Park (Dali, China)** - The 5 mile liner site is situated on the south eastern shore of ER-Hai Lake, one of the largest high-land lakes in China. The ER-Hai Lake is one of the most important wetland eco-system in all of China and our Conceptual Workshop Master Plan followed sustainable design approach by fostering harmony between constructed and natural elements. ER-HAI Lake is everyone's responsibility to ensure its water quality and an enhanced environment.
- **Dania Beach City Hall Complex (Dania Beach, Florida)** - AMLA collaborated with Martin Architectural Group and New Urban Communities in the preparation of the Master Plan for the Dania Beach City Center. Our team was responsible for the design of the streetscape, plazas, outdoor spaces, rooftop amenity terraces and vehicular and pedestrian circulation.
- **Deco Green Mixed-use Development (Lake Worth, Florida)** - AMLA collaborated with Martin Architectural Group and Office America Group in the preparation of the Master Plan for this 2.3-acre mixed-use complex located along Dixie Highway in Lake Worth. AMLA's team was responsible for the design of the outdoor spaces, streetscape, plazas, event open lawn and vehicular and pedestrian circulation.
- **Deerfield Beach Ocean Way (Deerfield Beach, Florida)** - The improvements at this \$3 million redesign project of the Deerfield's Ocean Way beachfront included drainage, paving, sidewalk pavers, landscape, decorative pedestrian and vehicular lights, special paving at the street intersections, beach gateways with columns and sitting walls, new outdoor showers, a bike lane and parking.
- **Golden Beach Civic Center Complex (Golden Beach, FL)** - AMLA collaborated with Martin Architectural Group, Gerrits Construction, Master Consulting Engineers, Keith, Formica & Associates in the preparation of the Master Plan for new Golden Beach Civic Center Complex. Our team was awarded the design-built project for this 3-acre site. AMLA was responsible for the design of the streetscape, plazas, outdoor spaces, sport fields, off street parking, and vehicular and pedestrian circulation.
- **Hillsboro Boulevard Streetscape (Deerfield Beach, Florida)** - The Streetscape Improvement Plan along Deerfield Beach's gateway to its beachfront included spacious sidewalks with apacial paving, landscape, decorative pedestrian and vehicular lights, bus stops, site furniture, a bike lane and on-streest parking.
- **Metropica (City of Sunrise, FL)** - Landscape and Hardscape design for Metropica a first-class, transit-oriented, mixed-use project consisting of class A office buildings with structured parking, full service restaurants, upscale retail and luxury high-rise condominiums next to Sawgrass Mall. Phase I of this new urban center spans 27 acres.
- **Pionner Park (Deerfield Beach, Florida)** - The master plan for the renovation of a 16 acre active park at the City of Deerfield Beach, located at Dixie Hwy and Hillsboro Canal includes a community center, two major league baseball fields, basketball courts, playground, tennis center, concession building, outdoor plazas, boat ramps and trails along Hillsboro Canal tuan be connected to a regional trail system.
- **River Club at Carlton Residential Community (Vero Beach, FL)** - The River Club is an exclusive 120-acre luxury gated community on the barrier island of the upscale town of Vero Beach, Florida. Our team prepared a master plan to include a combination of luxury condos, single-family home sites, attached villas, lakefront estates, a community clubhouse with a pool, and a yacht club on the Indian River.
- **Vira Vira Residential Community (Barquisimeto, Venezuela)** - A master planned community envisioned as one of the first planned residential communities in Venezuela. The development provides a high quality living environment by referencing local traditions and cultural influences while preserving the existing environment. Amenities are proposed to include 350 apartment units, 550 single-family lots, 9-hole Arnold Palmer golf course, tennis complex, church, school and commercial parcel.
- **Xi-Huang Mountain Resort Community (Zhengzhou, China)** - Xi-Huang Resort Community is located onehour southwest of Zhengzhou, within the famous Shao-Lin Mountain Range extension. The site has an extremely complex topography, with elevations ranging from 300 meters to 1,100 meters above sea level and encompasses 18.7 hectares with over 70% natural forest coverage. AMLA's master plan provides an environmentally-friendly design, integrating 210 luxury homes and amenities into the natural surroundings.
- **Port Everglades Terminal 2 & 4 Parking Garage Deck (Fort lauderdale, FL)**



Geiry M. Pallotta

Design Staff

BACKGROUND

Geiry Pallotta is an architectural designer and landscape architecture designer with 11 years of experience. She has completed several landscape design projects, programming and site analysis, data collection, research and project delivery. Mrs. Pallotta is a multi-talented professional which work aims at improving human settlements through place making, walk-ability, human scale centered design, landscape architecture and compact development. An outstanding problem solver who utilizes all resources to find the most cost-effective solution.

EXPERIENCE

QUALIFICATIONS

A.M.L.A
2019 - current

RIEGOMATIC, C.A.
Caracas, Venezuela
2015- 2017

PLANTARQ, C.A.
Caracas, Venezuela
2014 - 2015

ASYMETRIC, C.A.
Caracas, Venezuela
2014

EDUCATION

Bachelor of Architecture,
2007
Universidad Central de
Venezuela
School of Architecture and
Urbanism.
Caracas, Venezuela.

Associate degree in "Tools
for Design in Landscape
Architecture" 2013.
Universidad Central de
Venezuela
School of Architecture and
Urbanism.
Caracas, Venezuela.

- **Golden Beach Civic Center Complex (Golden Beach, FL)** – AMLA collaborated with Martin Architectural Group, Gerrits Construction, Master Consulting Engineers, Keith, Formica & Associates in the preparation of the Master Plan for new Golden Beach Civic Center Complex. Our team was awarded the design-built project for this 3-acre site. AMLA was responsible for the design of the streetscape, plazas, outdoor spaces, sport fields, off street parking, and vehicular and pedestrian circulation.
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- **Dania Beach City Hall Complex (Dania Beach, Florida)** – AMLA collaborated with Martin Architectural Group and New Urban Communities in the preparation of the Master Plan for the Dania Beach City Center. Our team was responsible for the design of the streetscape, plazas, outdoor spaces, rooftop amenity terraces and vehicular and pedestrian circulation.
- Private residence, Country Club Lane. Lote #12, Fort Lauderdale, Florida.
- Hampton Inn, Fort Lauderdale, Florida
- Gallery One Hotel, Fort Lauderdale, Florida
- Gateway Terrace Apartments, Fort Lauderdale, Florida - Concept Plan.
- Private residence, Rockerman Road, Miami, Florida.
- Avid Hotel, Dania Beach, Florida.



GUSTAVO ECKARDT, P.E.

Senior Civil Engineer



EDUCATION

- B.S. in Civil Engineering, University of North Carolina, 2002
- Scheduling Seminar - Primavera Project Management, Miami Micro Data, 2005
- Designing Pedestrian Facilities for Accessibility / ADA Seminar 2008.
- Work Zone Traffic Control & Maintenance of Traffic, MDX Seminar, 2010

PROFESSIONAL REGISTRATIONS

- P.E. Florida License
No. 67553

PROFESSIONAL AFFILIATIONS

- Chi Epsilon Civil Engineering Honor Society - Member
- FES (Florida Engineering Society - Member)

FIELD OF SPECIALIZATION

- Transportation
- Transit Facilities
- ADA Compliance
- Storm Water Management General Civil
- Permitting
- Bid Preparation & Assistance Construction Management
- Utility Coordination
- Maintenance of Traffic

YEARS OF EXPERIENCE

18 years

EXPERIENCE SUMMARY

Mr. Eckardt is a professional engineer registered in the state of Florida with over 18 years of experience in land development, Civil and Transit engineering design. Mr. Eckardt currently serves as a Project Manager for Premiere Design Solutions, Inc. (PDS) responsible for overseeing engineering plans production, quality control and making sure our Client needs are incorporated into our engineering design.

Mr. Eckardt has been a project manager for professional engineering services work assigned to PDS under contract numbers V1018717R1, V0708015B1, V0765964B1 and V0871602B1 with the Broward County Transit Division (BCT). Mr. Eckardt's duties and responsibilities include overseeing the designs realized by the project engineers, providing technical guidance as well as a thorough quality control review prior to submittal and project schedule updates. Mr. Eckardt has completed transit improvements at more than 300 locations throughout Broward County.

RELEVANT EXPERIENCE

○ Architectural and Engineering (A/E) Services for the Transit Division, Broward County Transit, Broward County, Florida

The A/E Services for the Transit Division project consists of providing comprehensive professional A/E services on a continuing term basis for the remodeling, renovation and new construction of transit facilities in which construction costs do not exceed \$2 million. Project includes existing facility & site documentation, project budgeting, cost estimating, schedule development and analysis, facility programming, complete A/E design of buildings, on-site and off-site improvements, contract and bidding document development, code analysis, permitting assistance and procurement, bid negotiation support, construction contract administration services, inspections, surveying, computer-aided and manually generated graphics support, preparation of narratives and other textual project support, photographic and video-graphic project support, building information modeling (BIM) project support, GIS project support and information system project support.

○ ADA Improvements at Bus Stops

The ADA Improvements at Bus Stops work orders consisted of providing an ADA accessible route for areas surrounding and leading to the location of the bus stop. These improvements include but are not limited to the addition of appropriately sloped concrete sidewalks, inclusion of FDOT approved curb ramps, relocation of obstructing amenities (e.g. trash cans, benches, etc.), landing pads, inclusion of curbing for protection of landing pads (Type "F" curb and gutter or Type "D" curb), and addition of amenities for the public. The scope included performing Field Data Collection and Scope Determination, Topographic and ROW Surveys including existing utility coordination, Engineering Design Documents composed of paving, grading and drainage plans to depict the new ADA design for each bus stop, regulatory agency permitting and construction support. Work orders completed include: WO 82 – Hallandale Beach – 28 Stops | WO 156 – North Lauderdale – 13 Stops | WO 132G – Miramar – 15 Stops | WO 165 – Plantation – 20 Stops.

RELEVANT EXPERIENCE**○ Transit Infrastructure & Shelter Improvement at Bus Stops, Broward County, Florida.**

The Transit Infrastructure & Shelter Improvement at Bus Stops is a multi-year project consisting of improving transit facilities throughout Broward County. The scope of work for this project can be subdivided into ADA Improvements at Bus Stops, Bus Shelter Expansion Program, Bus Bay Enhancements and Transit Terminal Improvements.

○ Bus Shelter Expansion Program

The Bus Shelter Expansion Program work orders consisted of the installation of ADA approved bus shelter infrastructure, selected by the local municipalities, as well as improvements to ensure proper access from and to the bus stop location. The design of each bus stop included the inclusion of the most efficient placement of the structure, maintaining a practical and safe approach while supplementing the ADA guidelines. This applies both to the bus shelter and any selected amenities to be included in each location, which included but are not limited to new or relocated benches, trash cans, bike racks, solar panels, traffic signs, etc. Determined by existing conditions, the improvements may also include the replacement and/or addition of new appropriately slope concrete sidewalk and the inclusion of curbing for protection. For these work orders our scope included performing Field Data Collection and Scope Determination, Topographic and ROW Surveys including existing utility coordination, Engineering Design Documents composed of paving, grading and drainage and maintenance of traffic plans, regulatory agency permitting and construction support. Work orders completed include: WO 156S-A – North Lauderdale – 7 Stops | WO 144S-A – Hollywood – 10 Stops | WO 144S-B Hollywood – 6 Stops | WO 144S-C – Hollywood – 14 Stops | WO 144S-D – Hollywood – 7 Stops | WO 144S-E – Hollywood – 7 Stops | WO 144S-F – Hollywood – 2 Stops | WO 112S-A – Sunrise – 9 Stops | WO 112S-B – Sunrise – 8 Stops | WO 112S-C – Sunrise – 4 Stops | WO 169S – Broward County – 17 Stops | WO 168S – Pembroke Pines – 11 Stops | WO 158S-A – Ft. Lauderdale – 5 Stops | WO 158S-B – Ft. Lauderdale – 5 Stops | WO 175S-A – Dania Beach – 12 Stops | WO 178S – West Park – 11 Stops.

○ Miami-Dade Transit Department, ARRA Municipalities Group "A", Miami-Dade County, Florida.

The ARRA Municipalities Group "A" Transit Improvements projects consisted of transit improvements at 43 locations in Miami-Dade County, in the Cities of Homestead, North Miami and Miami Lakes. Project is Federally Funded and coordinated by the Miami-Dade Transit Department, and follows all ARRA guidelines and regulations. Mr. Eckardt is the construction project manager and serves as main contact for communications with County, City and Federal Agencies. Project includes ADA accessibility improvements to bus stop locations, new bus shelters and amenities, new sidewalk, reinforced concrete pads, the relocation of existing bus shelters and permitting activities.

○ Bus Bay Enhancements.

The Bus Bay Enhancements work orders consisted of new and modifications to existing bus bays. The design of each bus bay varies from site to site, for which a proper evaluation is conducted, and upon resolution, a bus bay is designed, adhering to any guidelines provided by local municipalities, as well as Broward County Minimum Standards, FDOT Index and all applicable regulatory codes. As the inclusion of a bus bay impacts the surrounding areas, design will include a proper geometric layout, the consideration of paved shoulders, bike lanes, pavement markings and signage, dry retention areas, and pedestrian sidewalks. The design of a proper drainage system to mitigate the impact of dry retention areas is included in these work orders, as well as a proper FDOT approved Maintenance of Traffic plan to allow a safe traffic flow during construction. Work orders completed include: WO 165 – Plantation – Bus Stop 1844 | WO 156S-B – North Lauderdale – 7 Stops.

○ Transit Terminal Improvements.

Improvements to Transit Terminals work orders included a pre-design site inspection and assessment to determine improvements and scope of work to be performed at each facility. In addition, paving, grading and drainage design to ensure ADA compliance, and management of the project to ensure design completion within the allowable time schedule. Any modification made to roads included the design of milling and resurfacing for adjacent roadways, including pavement markings and striping. These improvements include swept path vehicle maneuver studies for the bus routes. Any improvement for areas used by passengers will maintain proper ADA guidelines and considerations, including but not limited to proper walkway slopes, detectable warnings, FDOT approved curb ramps, protective curbing, proper signalization, etc. Work orders completed include: WO 163 – Lauderhill Mall | WO 166 – West Regional Terminal - Plantation.

○ FDOT District 4, Broward County Transit Bus Shelter Project, Broward County, Florida.

The FDOT Bus Shelter project is a Design-Build project which consists of providing ADA compliant bus shelters to 73 locations throughout the cities of Wilton Manors, Oakland Park and Pompano Beach, all located in Broward County, Florida. The project scope includes civil, structural and electrical engineering design for the bus shelters to be installed at the current locations, as well as improvements at bus stops such as landing pads, curb & gutter, sidewalk restoration, sidewalk transitions, and amenities such as benches, trashcans and solar panels. This project required the coordination between the design team consisting of civil engineers, structural engineers, electrical engineers and a surveying team. To ensure the best possible product, this project closely followed a strict quality control procedure review prior to submittal and meeting with governmental agencies having jurisdiction over the project.

○ Busway Extension to Florida City and US-1 Reconstruction, Miami-Dade Transit, Miami, Florida

Mr. Eckardt performed construction administration of 7 miles of new exclusive bus lane construction, with state of the art passenger stations, bike path, and bridges; as well as the urban reconstruction and widening of the adjacent US-1 corridor which included roadway improvements, asphalt milling, removal and replacement, new drainage system, sidewalks with ADA compliant ramps, bridge widening, street lighting, new and improved traffic signals, signing and markings, and landscaping.



FERNANDO FERNANDEZ, P.S.M.

Professional Land Surveyor



EDUCATION

- Hydrologist Engineer
Alma- Ata, former USSR, 1987

PROFESSIONAL REGISTRATIONS

- Professional Land
Surveyor and Mapper
State of Florida, LS 6765

FIELD OF SPECIALIZATION

- Field Data Collection
- Total Station and Data
Collector Utilization
- Topographic Surveys
- Certificate of Elevations
- GPS Field Location
- Surveys with NAVD88 and
NGVD29 DATUM
- As-Built Certified Surveys
- Project Stakeout
- Writing and
interpretations of legal
descriptions

YEARS OF EXPERIENCE

20 years

EXPERIENCE SUMMARY

Mr. Fernandez is a Professional Land Surveyor with over 20 years of field data collection and surveying experience. Mr. Fernandez currently serves as Professional Land Surveyor at Premiere Design Solutions, Inc. (PDS) and he is responsible for producing and certifying all surveying documents produced by the firm. Mr. Fernandez has served as a Professional Land Surveyor for professional engineering services work assigned to PDS under contract numbers V1018717R1, Vo708015B1, Vo765964B1 and Vo871602B1 with the Broward County Transit Division (BCT). Mr. Fernandez's duties and responsibilities include producing certified surveys depicting existing conditions and property and right of way location for several bus stop locations throughout Broward County. Mr. Fernandez directs his crew to obtain information on marked utilities, gather field data, elevations and coordinates and then providing CAD drawings to our engineers. Duties also include GPS location of point to tie bus stop locations to national DATUMS. Mr. Fernandez has completed surveys for transit improvements at more than 80 locations throughout Broward County.

RELEVANT EXPERIENCE

○ Architectural and Engineering (A/E) Services for the Transit Division, Broward County Transit, Broward County, Florida

The A/E Services for the Transit Division project consists of providing comprehensive professional A/E services on a continuing term basis for the remodeling, renovation and new construction of transit facilities in which construction costs do not exceed \$2 million. Project includes existing facility & site documentation, project budgeting, cost estimating, schedule development and analysis, facility programming, complete A/E design of buildings, on-site and off-site improvements, contract and bidding document development, code analysis, permitting assistance and procurement, bid negotiation support, construction contract administration services, inspections, surveying, computer-aided and manually generated graphics support, preparation of narratives and other textual project support, photographic and video-graphic project support, building information modeling (BIM) project support, GIS project support and information system project support.

○ Transit Infrastructure & Shelter Improvement at Bus Stops, Broward County, Florida.

The Transit Infrastructure & Shelter Improvement at Bus Stops is a multi-year project consisting of improving transit facilities throughout Broward County. The scope of work for this project can be subdivided into ADA Improvements at Bus Stops, Bus Shelter Expansion Program, Bus Bay Enhancements and Transit Terminal Improvements.

○ ADA Improvements at Bus Stops

The ADA Improvements at Bus Stops work orders consisted of providing an ADA accessible route for areas surrounding and leading to the location of the bus stop. These improvements include but are not limited to the addition of appropriately sloped concrete sidewalks, inclusion of FDOT approved curb ramps, relocation of obstructing amenities (e.g. trash cans, benches, etc.), landing pads, inclusion of curbing for protection of landing pads (Type "F" curb and gutter or Type "D" curb), and addition of amenities for the public. The scope included performing Field Data Collection and Scope Determination, Topographic and ROW Surveys including existing utility coordination, Engineering Design Documents composed of paving, grading and drainage plans to depict the new ADA design for each bus stop, regulatory agency permitting and construction support. Work orders completed include: WO 165 – Plantation – 20 Stops | WO 108B – Dania Beach – 6 Stops.

RELEVANT EXPERIENCE**○ Bus Shelter Expansion Program**

The Bus Shelter Expansion Program work orders consisted of the installation of ADA approved bus shelter infrastructure, selected by the local municipalities, as well as improvements to ensure proper access from and to the bus stop location. The design of each bus stop included the inclusion of the most efficient placement of the structure, maintaining a practical and safe approach while supplementing the ADA guidelines. This applies both to the bus shelter and any selected amenities to be included in each location, which included but are not limited to new or relocated benches, trash cans, bike racks, solar panels, traffic signs, etc. Determined by existing conditions, the improvements may also include the replacement and/or addition of new appropriately slope concrete sidewalk and the inclusion of curbing for protection. For these work orders our scope included performing Field Data Collection and Scope Determination, Topographic and ROW Surveys including existing utility coordination, Engineering Design Documents composed of paving, grading and drainage and maintenance of traffic plans, regulatory agency permitting and construction support. Work orders completed include: WO 112S-B – Sunrise – 8 Stops | WO 169S – Broward County – 17 Stops | WO 144S-B – Hollywood – 2 Stops | WO 175S-A – Dania Beach – 12 Stops | WO 156S-B – North Lauderdale – 7 Stops | WO 178S – West Park – 11 Stops.

○ Bus Bay Enhancements.

The Bus Bay Enhancements work orders consisted of new and modifications to existing bus bays. The design of each bus bay varies from site to site, for which a proper evaluation is conducted, and upon resolution, a bus bay is designed, adhering to any guidelines provided by local municipalities, as well as Broward County Minimum Standards, FDOT Index and all applicable regulatory codes. As the inclusion of a bus bay impacts the surrounding areas, design will include a proper geometric layout, the consideration of paved shoulders, bike lanes, pavement markings and signage, dry retention areas, and pedestrian sidewalks. The design of a proper drainage system to mitigate the impact of dry retention areas is included in these work orders, as well as a proper FDOT approved Maintenance of Traffic plan to allow a safe traffic flow during construction. Work orders completed include WO 165 – Plantation – Bus Stop 1844.

○ Transit Terminal Improvements.

Improvements to Transit Terminals work orders included a pre-design site inspection and assessment to determine improvements and scope of work to be performed at each facility. In addition, paving, grading and drainage design to ensure ADA compliance, and management of the project to ensure design completion within the allowable time schedule. Any modification made to roads included the design of milling and resurfacing for adjacent roadways, including pavement markings and striping. These improvements include swept path vehicle maneuver studies for the bus routes. Any improvement for areas used by passengers will maintain proper ADA guidelines and considerations, including but not limited to proper walkway slopes, detectable warnings, FDOT approved curb ramps, protective curbing, proper signalization, etc. Work orders completed include: WO 163 – Lauderhill Mall | WO 166 – West Regional Terminal - Plantation.

○ FDOT District 4, Broward County Transit Bus Shelter Project, Broward County, Florida.

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JASON MCKOY

Project Manager



EDUCATION

- Btec National Diploma in Computer Graphic Design
The Sheffield College, 1995
- B.A. in Architecture, (RIBA Part 1)
Leeds Metropolitan(Beckett) University, Leeds, UK, 1999
- Post Graduate Diploma in Architectural Studies / Urban Design(RIBA Part 2) Leeds Metropolitan(Beckett) University, Leeds, UK, 2003
- Masters in Architectural Professional Studies Architect - Architects Registration Board (A.R.B.) UK (RIBA Part 3)Leeds Metropolitan(Beckett) University, Leeds, UK, 2006

PROFESSIONAL REGISTRATIONS

- Registered Architect 2006
A.R.B. UK – No. 0721681

PROFESSIONAL AFFILIATIONS

- Architects Registration Board
U.K. - Member

FIELD OF SPECIALIZATION

- Architectural Design
- Space Planning
- Conceptual Design
- Graphic/ 3D Presentation
- AutoCAD/Graphics Software
- ADA Compliance
- Sustainable Design
- Specifications
- Permitting Compliance
- Construction Management
- Utility Coordination
- G.I.S. Data Management

YEARS OF EXPERIENCE

12 years

EXPERIENCE SUMMARY

Mr. McKoy is a professional Architect registered in the U.K. before relocation to become resident in Florida with over 12 years of experience in Architectural / Civil and Graphic design. Mr. McKoy is currently a designer and project manager for professional engineering services work assigned to Premiere Design Solutions, Inc. (PDS) via B.C.T. Transit department for the design and management of their ADA improvement projects County wide, consisting of Pre-fab and cast in place shelter / amenities installations and accessible transit infrastructure design and construction. Mr. McKoy has been working for professional engineering services work assigned to PDS under contract number V1018717R1. Mr. McKoy's general experience in the public sector includes design and management of projects including schools, health centers, community youth facilities, office buildings, libraries and various community based projects. All of which advanced his skills of quickly and clearly taking projects from field analysis to design to construction and completion repeatedly within project time schedules and budget.

RELEVANT EXPERIENCE

○ Architectural and Engineering (A/E) Services for the Transit Division, Broward County Transit, Broward County, Florida

The A/E Services for the Transit Division project consists of providing comprehensive professional A/E services on a continuing term basis for the remodeling, renovation and new construction of transit facilities in which construction costs do not exceed \$2 million. Project includes existing facility & site documentation, project budgeting, cost estimating, schedule development and analysis, facility programming, complete A/E design of buildings, on-site and off-site improvements, contract and bidding document development, code analysis, permitting assistance and procurement, bid negotiation support, construction contract administration services, inspections, surveying, computer-aided and manually generated graphics support, preparation of narratives and other textual project support, photographic and video-graphic project support, building information modeling (BIM) project support, GIS project support and information system project support.

○ CBIS/CBRA/BHS Program Civil Engineering at Miami International Airport, Miami-Dade Aviation Department, FL

The South and Central Terminals Checked Baggage Inspection Systems (CBIS) / Checked Baggage Reconciliation Areas (CBRA) / Baggage Handling System (BHS) Program is a part of a \$160-Million-dollar program to centralize all baggage operations of these two terminals in a new modern facility. The Engineering phase, estimated at \$1.6 Million included a new 4 Stories-70,000 SF building, and necessary modifications to the Central and South Terminals to accommodate the new Baggage systems. Mr. McKoy is currently assisting in the Construction Management for the civil component of the program. Tasks completed included the design and inspection of new water and sewer services for the building, underground utility coordination, concrete pavement design, pavement markings, signage, and maintenance of traffic. Project also included necessary civil coordination for the design and inspection of a temporary baggage make-up device requiring a 12" fire line relocation, new monitoring wells, and cleanout relocation.

○ Fort Lauderdale Airport Runway Expansion Project, Fort Lauderdale, FL

McKoy was the Project Construction Manager for the utility designs, relocations and coordination related to the FLL Runway Expansion project, to expand the runway over US-1. Mr. McKoy participated in the generation of engineering drawings for the design of over 5,000 LF of 16" Water Main, and 4,000 LF of 12" Force Main for utility relocations required for this project. The project also included the design of a shared communication duct bank to relocate communication utilities along the corridor. Mr. McKoy also assisted in the coordination efforts with over 20 Utility Companies with utilities along this corridor that will also be impacted by this project which will need to be relocated. Utility companies included AT&T, FPL, TECO, Comcast, FAA, Windstream, XO, CITGO, Buckeye Pipeline, Qwest, Verizon, Sprint, L3, etc. Project also included the collection of as-built data and production of as-built drawings, and construction support services.



RELEVANT EXPERIENCE

○ **North Perry Airport Park and Ride Facility, Pembroke Pines, Florida**

Mr. McKoy served as the Project Construction Manager for the development of a Park and Ride Facility at the North Perry Airport located on the northeast corner of Pembroke Road and University Drive in the City of Pembroke Pines. The site development included the design of the parking facility including a drainage and lighting system to serve riders of the Broward County Transit System, and a reconfiguration of the parking lot. Mr. McKoy was responsible for the coordination of permitting with the local governmental agencies and overseeing construction of this facility for Broward County Transit and the City of Pembroke Pines. Project was fast track and required expedited completion to secure federal funds.

○ **Broward County Transit–Via Staff Augmentation Contract, Ft. Lauderdale, FL**

Through a Staff Augmentation Contract, Mr. McKoy worked inside Broward County Transit (BCT) in several governmental architectural Transit related projects as project manager including the following.

- Worked as part of an architectural team within the Broward County Transit offices, providing design and management services for the new Shelter design and ADA improvement projects Broward County wide. Including field data collection and processing leading to design packages for permitting and construction.
- Worked collaboratively with Broward County Transit, Service and Capital Planning department using my expertise in architectural design to produce construction drawings and management of in house projects including 3D design proposals for future civil infrastructure developments, including transit terminal developments and future roadway design proposals.

○ **Thibeaux Architecture Inc., Ft. Lauderdale, FL**

Thibeaux Architecture is an established architectural firm servicing South Florida for over 50 years with a diverse portfolio including: residential (both new and renovation), commercial (both new and renovation), restaurants, medical facilities, light industrial (warehouse / office & factory design).

- Assisted in closing new project of over \$10M through the use of designs presented to public where ideas from drawings, floor plans, site photography and building elevations were transformed to create conceptual photorealistic 3D imagery.
- Worked collaboratively with an architectural team using my expertise in building technologies, architectural area planning, and drafting to prepare presentations for current projects underway for building management and local planning authority submission including the refurbishment of the 'Allington Towers' condominium project, Hollywood Beach, FL.

○ **Rotherham Metropolitan Borough Council, Rotherham, UK**

Rotherham MBC is a public sector governing agency that manages the Economic and Development services for the entire borough of Rotherham, from designing and planning educational establishments & government buildings to community facilities and sports venues.

- Achieved award for "Best Design in Nationwide Competition" & led the project to the success of winning a £3.7M new client on the 'My Place Community Youth Facility' Rotherham UK.
- Produced various stages of architectural construction / detail drawings for use amongst various disciplines, including specifications, submissions for building management and planning permits.
- Projects ranged from educational, retail, community based facilities, healthcare facilities, libraries and commercial.
- Collaborated with contractors to ensure specification adherence leading to savings in cost & time.
- Managed various architecture models and technical skills.
- Interacted & worked with vendors across commercial, private, and public sectors
- Led many public presentations of projects to the local community informing them of design principles, innovations and benefits of the projects to their community.
- Used my proficiency in hand sketching drafts and computer aided design and my in-depth knowledge of 3D modeling, sculpture and digital media to present ideas effectively.

○ **Byrom Clark Roberts Ltd, Sheffield, UK**

Byrom Clark Roberts is a multi-disciplinary firm consisting of architects, surveyors and engineers – providing building consultative services for over 75 years in the UK.

- Worked with an architectural team to produce architectural/graphic designs and generated multiple solutions in various visual mediums to meet client needs, consisting of educational, ecclesiastical and residential projects.
- Produced multiple design packages for project presentations to clients at various stages.

○ **Abel Joel Green Ltd, Sheffield, UK**

Abel Joel Green Ltd is a well-known architectural firm servicing South Yorkshire in all manner of architectural services.

- Produced construction design packages and detail for various project work including – sports facilities, residential, community facilities and educational.
- Managed documentation and coordinated project submissions for all project phases.



LUIS J. JURADO, P.E.

Project Principal



EDUCATION

- B.S. in Civil Engineering,
University of North
Carolina Charlotte, 2003

PROFESSIONAL REGISTRATIONS

- P.E. Florida License
No. 66396
- P.E. South Carolina
No. 28394

PROFESSIONAL AFFILIATIONS

- Member, American
Society of Civil Engineers
- FES (Florida Engineering
Society – Member)

FIELD OF SPECIALIZATION

- Transportation
- Transit Facilities
- ADA Compliance
- Storm Water Management
- General Civil
- Permitting
- Bid Preparation & Assistance
- Construction Management
- Utility Coordination

YEARS OF EXPERIENCE

16 years

EXPERIENCE SUMMARY

Mr. Jurado is a professional engineer registered in the states of Florida and South Carolina with over 16 years of experience in civil, transportation and municipal engineering design. Mr. Jurado currently serves as the President of Premiere Design Solutions, Inc. and is the professional in charge of all project coordination between PDS and its Clients. PDS currently serves as the Prime Consultant for Miami Dade Transit (MDT) and Broward County Transit (BCT), the two largest transit authorities in the state of Florida. Mr. Jurado has been the project coordinator for the professional engineering services work assigned to PDS with duties and responsibilities that include meeting on a regular basis with MDT and BCT officials to provide recommendations on scope of work and schedule for projects, meetings with governmental agencies having jurisdiction over project site locations to discuss permitting requirements, complying with Federal Transit Authority (FTA) specifications, Tiger Grants, and quality control review. Mr. Jurado has been a project coordinator for professional engineering services work assigned to PDS under contract number V1018717R1. Mr. Jurado has led his team in transit improvements at more than 800 locations in over 30 municipalities within Broward and Miami-Dade Counties.

RELEVANT EXPERIENCE

○ **Architectural and Engineering (A/E) Services for the Transit Division, Broward County Transit, Broward County, Florida**

The A/E Services for the Transit Division project consists of providing comprehensive professional A/E services on a continuing term basis for the remodeling, renovation and new construction of transit facilities in which construction costs do not exceed \$2 million. Project includes existing facility & site documentation, project budgeting, cost estimating, schedule development and analysis, facility programming, complete A/E design of buildings, on-site and off-site improvements, contract and bidding document development, code analysis, permitting assistance and procurement, bid negotiation support, construction contract administration services, inspections, surveying, computer-aided and manually generated graphics support, preparation of narratives and other textual project support, photographic and video-graphic project support, building information modeling (BIM) project support, GIS project support and information system project support. Mr. Jurado has overseen over sixteen work orders under this contract performing scope, budget determination, coordination of project team, progress meetings with Client and negotiation of permitting requirements with regulatory agencies among others.

○ **Mater Planning for the Copans Bus Transit Facility, Broward County Transit, Broward County, Florida**

Mr. Jurado personally led an assessment of the existing conditions of the Copans Transit Facility located at 3201 West Copans Road in Broward County. The intent of this assessment was to determine the condition of functionality of the existing facility and to coordinate design efforts required for the development of a proposed site plan divided into phases, accommodating future needs. This facility includes bus fueling, washing, repairing, and parking of Broward County Buses, while also training new employees. Mr. Jurado led site visits, interviews in order to gain an understanding of site characteristics, prepared construction estimates for cost and construction times and applicable exhibits and renderings. Document prepared were used to apply for Federal funds, granting this project over \$15 Million in Federal Grant.

RELEVANT EXPERIENCE***Continuous Professional Services for Federally Funded Projects, Miami-Dade Transit, Miami-Dade County, Florida.***

This is a multi-year project to develop transit facilities that are funded through the FTA. The scope of work for this contract includes but is not limited to technical and operation planning, transit studies, environmental impact statements, permitting, engineering inspections, surveying, cost estimating, structural, geotechnical, electrical and mechanical engineering, architecture, transit and transportation planning in accordance with FTA requirements, design criteria, support negotiation of full funding grant agreements, plan and specification reviews for federal compliance, design, construction engineering and inspections, value engineering, project cost estimates and traffic studies. Mr. Jurado has overseen eight work orders under this contract performing quality control review and analysis of FTA guidelines, project coordination and assisting upper management at MDT.

MDT Park-and-Ride at SW 147 Ave and SR 836 Express Bus Service Planning Support, Miami-Dade Transit, FL

Mr. Jurado was the project principal and quality control manager for this project to analyze the impacts of the relocation of an existing terminal located at FIU Main campus to Parking Garage VI, and creating concepts for the Panther Station. Mr. Jurado provided key support and assistance during the update to the Categorical Exclusion Document prepared for FTA to obtain federal support on this project. Mr. Jurado also assisted in the preparation of conceptual design for the panther station, attended and participated in the public meeting for the SR 836 Express Bus Service project, and analyzed route intersections for queue jumps and TSP application and QA/QC of cost estimating tasks.

FDOT District 4, Broward County Transit Bus Shelter Project, Broward County, Florida.

The FDOT Bus Shelter project is a Design-Build project which consists of providing ADA compliant bus shelters to 73 locations throughout the cities of Wilton Manors, Oakland Park and Pompano Beach, all located in Broward County, Florida. The project scope includes civil, structural and electrical engineering design for the bus shelters to be installed at the current locations, as well as improvements at bus stops such as landing pads, curb & gutter, sidewalk restoration, sidewalk transitions, and amenities such as benches, trashcans and solar panels. This project required the coordination between the design team consisting of civil engineers, structural engineers, electrical engineers and a surveying team. To ensure the best possible product, this project closely followed a strict quality control procedure review prior to submittal and meeting with governmental agencies having jurisdiction over the project. Mr. Jurado was responsible to mastermind and plan the surveying, design and construction schedules of this contract, segregating the project areas into several work orders to ensure a rapid approval process to allow construction to start sooner to be able to deliver the overall project within the allotted time schedule.

Transit Infrastructure & Shelter Improvement at Bus Stops, Broward County Transit, Broward County, Florida

The Transit Infrastructure & Shelter Improvement at Bus Stops is a multi-year project consisting of improving transit facilities throughout Broward County. This project was subdivided into ADA Improvements at Bus Stops, Bus Shelter Expansion Program, Bus Bay Enhancements and Transit Terminal Improvements. Mr. Jurado was responsible for coordinating the scope of work assigned to PDS, overseeing all engineering and signing and sealing as engineer of records all designs prepared under this contract, meeting with Client and Owner on a regular basis, review of plans and assisted in negotiating permitting requirements with regulatory agencies.

ARRA Municipalities Groups "A" & "C", Miami Dade Transit, Miami-Dade County, Florida

The ARRA Municipalities Groups "A" & "C" Transit Improvements projects consisted of transit improvements at 72 locations in Miami-Dade County, in the Cities of Homestead, North Miami, Miami Lakes, Bay Harbor, El Portal, Opa Locka, Florida City, Surfside, North Miami Beach and Aventura. The projects were Federally Funded and coordinated by the Miami-Dade Transit Department, following all American Recovery and Reinvestment Act (ARRA) guidelines and regulations. PDS was the main contact for all communications with County, City and Federal Agencies in this contract. Projects included ADA accessibility improvements to bus stop locations, new bus shelters and amenities, new sidewalk and reinforced concrete pads, relocation of existing bus shelters and permitting with regulatory agencies. Mr. Jurado was involved with negotiating permitting requirements for this project.

Broward County Transit Infrastructure Improvements, FDOT District 4, Broward County, Florida

This Design-Build project consisted of providing ADA compliant bus shelters to 73 locations throughout the cities of Wilton Manors, Oakland Park and Pompano Beach, in Broward County, Florida. The project scope included civil, structural and electrical engineering design for the bus shelters to be installed at the current locations, as well as improvements at bus stops such as landing pads, curb & gutter, sidewalk restoration, sidewalk transitions, and amenities such as benches, trashcans and solar panels. This project required the coordination between the design team consisting of civil engineers, structural engineers, electrical engineers and a surveying team. To ensure the best possible product, this project closely followed a strict quality control procedure review prior to submittal and meeting with governmental agencies having jurisdiction over the project site location. Mr. Jurado was responsible for presenting a work program to ensure completion within the expected Client's schedule, project team coordination and rigorous quality control.



Sheryl A. Dickey

President/CEO

HIGHLIGHTS

*Community and Business
Development Expert*

Public Engagement Specialist

Collaborative Change Agent

CERTIFICATIONS

*Charrette Planner
National Charrette Institute*

*Public Meeting Facilitator,
National Charrette Institute*

AFFILIATIONS

*International Economic
Development Council*

*Greater Fort Lauderdale
Chamber of Commerce*

COMTO

AMAC

EDUCATION

B.S.S.W. The Ohio State University

RECOGNITION

*Boys & Girls Clubs of Broward
County/ 100 Outstanding Women
of Broward County, 2010*

*Sistrunk Community Festival Small
Business Award, 2007*

*Success South Florida Magazine
One of South Florida's 25 Most
Prominent & Influential Black
Women, 2006*

*Greater Fort Lauderdale Chamber
of Commerce/Salute to
Business Award. 2002*

Sheryl A. Dickey, founder and owner of Dickey Consulting Services, Inc. (DCS) is a community and economic development professional with more than 30 years of experience and a track record of success in these areas. She and her staff bring a high level of energy and the ability to participate in a leadership or team member role to ensure successful completion of a project.

DCS is an economic development, government relations, project management and communications consulting firm. DCS provides services to public and private enterprises. DCS provides staffing for invoicing, accounting, documents control, contract administration, civil-CAD, construction inspections, and communications assistance. The firm also provides administrative support for budgeting, planning, management, and purchasing.

Dickey has worked with numerous clients including the Florida Department of Transportation, Broward County, City of Fort Lauderdale, City of Plantation, and City of Sunrise. She currently serves as the Project Director for Broward County Utility Analysis Zones Projects, Airport Noise Abatement Committee Assistance for Fort Lauderdale-Hollywood International Airport, and DBE Program Administrator for Boca Raton Airport Authority and Fort Lauderdale Executive Airport. Dickey has successfully completed the Improvements to Hiatus Road Project, Improvements to Palm Avenue Project, and Broward County Neighborhood Improvement Projects to name a few.

Dickey is a longtime Broward County resident and business owner. Her company's headquarters are in the Midtown Commerce Center, a Silver LEED certified building in Fort Lauderdale. Dickey is the developer and owner of the building.

Dickey's professional experiences include Director of Economic and Community Development for Blockbuster Entertainment Corporation and Director of Economic Development for the City of Fort Lauderdale, in Fort Lauderdale, Florida. She was formerly the Deputy Director of Economic Development for the Toledo/Lucas County Port Authority in Toledo, Ohio, the Director of Small and Developing Businesses for the State of Ohio Department of Development, in Columbus, Ohio, and a former member of the Portsmouth City Council in Portsmouth, Ohio. Ms. Dickey's prior experiences include a variety of positions supporting small business development and community revitalization.

Dickey completed her undergraduate education in social work at The Ohio State University in Columbus, Ohio.

Dickey is active in many community and business organizations including the Urban Core Committee of Broward Workshop, Greater Fort Lauderdale Chamber of Commerce, Leadership Broward, Riverwalk Trust, Association for Women in Communication, and International Council for Urban and Economic Development. She is the former Chair of the Broward Public Library Foundation.

Carla Hankerson

*Senior Project Coordinator
Dickey Consulting Services, Inc.*



A.D. Business Economics

Carla Hankerson is a results-oriented professional with more than 28 years of experience supporting clients and projects. She is an organized self-starter with excellent personal and presentation skills. Her work knowledge includes achieving results in public and private organizations with municipalities, community leaders, vendors, contractors and subcontractors.

She assists the Project Director and Project Manager to successfully complete projects. Her approach to project support is to provide input, actively participate on cross-functional teams, and adapt to specific client needs.

Ms. Hankerson has extensive experience working with Broward County projects and roadway projects in numerous municipalities. They include:

- Improvements to Palm Avenue between Griffin Road and Stirling Road
- Improvements to Hiatus Road from Sunrise Boulevard to Oakland Park Boulevard
- State Road 7 Multimodal Improvements Corridor Study
- FDOT District Four SR 9/I-95 PD&E Study
- City of Fort Lauderdale Sistrunk Boulevard Infrastructure Project
- Pompano Beach Boulevard Beach Streetscape & Dune Restoration
- Broward County Utility Analysis Zone Projects
- Broward County Neighborhood Improvement Projects
- Broward County Aviation Department Airport Noise Abatement Committee Support Services
- Broward County Aviation Department Electronic Document Management System

Santia Vacius

Project Coordinator

Dickey Consulting Services, Inc.



B.S. Business Administration
Certified Notary Public

Santia Vacius is a client-focused, detail-oriented team builder with more than six years of experience supporting various projects, clients, and teams. Ms. Vacius is fluent in Creole and lends her language expertise to fulfill translation needs when necessary. She possesses a strong work ethic with a positive can-do attitude which assists the entire team to achieve project goals.

PROJECT EXPERIENCE

*Broward County Utility Analysis Zones 310, Hillsboro Mile, 122, 123, and 108
Broward County Utility Analysis Zones 110, 111, 113A, and 113B*

Broward County Water & Wastewater Services implemented infrastructure improvement projects throughout the county that include replacement of sanitary sewer systems, installation of storm drains, construction of water and sewer lines, replacement of water mains, rehabilitation of lift stations, and restoration of roadways, sidewalks, driveways, and landscape. Ms. Vacius provides public information and community outreach services on behalf of the client: Distribute information to property owners, residents and businesses relative to the impact of the project in the neighborhood; Maintains database tracking system for community concerns and responses to the project team for management purposes; Prepares and distributes flyers, notices, and letters; and Attends progress meetings and provide coordination assistance during construction.

City of Deerfield Beach Homeowner Rehabilitation Program

The primary purpose of the program is to provide home repairs, weatherization, and energy efficiency repairs necessary to provide a safe environment. Ms. Vacius is the liaison between city staff and the Consultant and Program participants. She also provides administrative support services.

City of Deerfield Beach Hurricane Loss Mitigation Program

The Program provides qualified wind resistance construction and installations in strict compliance with the Florida Building Codes. Examples are replacement of roof covering/re-roofing, installation of window and door opening protection, installation of hurricane strapping, and application of secondary water barriers. Ms. Vacius provides administrative support services to city staff.



Archaeological and Historical Conservancy, Inc.

4800 S.W. 64th Ave, Suite 107 Davie, FL 33314

Phone: 954-792-9776 Fax: 954-792-9954

Email: archlgcl@bellsouth.net Web: www.flarchaeology.com



Robert S. Carr

Education

August 1976	Florida State University. Tallahassee, Florida. <ul style="list-style-type: none">• M.S. Degree in Anthropology
August 1972	Florida State University. Tallahassee, Florida. <ul style="list-style-type: none">• B.A. Degree in Anthropology
1970 – 1971	University of Miami. Coral Gables, Florida. <ul style="list-style-type: none">• Course Work
June 1968	Miami-Dade Junior College. Miami, Florida. <ul style="list-style-type: none">• A.A. Degree

Professional Experience

1999 – Present	Archaeological and Historical Conservancy, Inc. <ul style="list-style-type: none">• Executive Director
1996 - 1999	Dade County Historic Preservation Division <ul style="list-style-type: none">• Director
1994 - 1995	Dade County Division of Historic Preservation <ul style="list-style-type: none">• Acting Director
1978 - 1999	Dade County Division of Historic Preservation <ul style="list-style-type: none">• County Archaeologist
1980 - 1981	Florida Archaeological Council <ul style="list-style-type: none">• President
1980 - 1983	<i>The Florida Anthropologist</i> <ul style="list-style-type: none">• Editor
March 1977	U.S. Park Service, SE Archaeological Center, Tallahassee, Florida. <ul style="list-style-type: none">• Archaeologist
1973 - 1976	Division of Archives History and Records Mgmt, Tallahassee, Florida. <ul style="list-style-type: none">• Contract Archaeologist

Representative Projects (Principal Investigator)

- 2018 Search and recovery excavation at site of Missing Aircraft 13714, Zwickau District, Republic of Germany
- 2017 Closing field recovery excavation at site of Missing Aircraft 7070, S Tyrol District, Republic of Italy
- 2016 Monroe County updates assessment of cultural resources in the unincorporated Florida keys
- 2015 Archaeological Assessment of the Cutler Fossil Site, Miami-Dade County
- 1999 - 2003 Archaeological assessment and data analysis of Miami Circle (8DA12)
- 2000 - 2001 Archaeological investigation of Okeechobee Battlefield. Boundary
- 1992 and 2006 Preachers Cave, Eleuthera, Bahamas
- 1992 Archaeological Survey and Management Plan for the Town of Palm Beach
- 1991 - 2002 Ortona Canal and Earthworks, Glades County
- 2000 - 2001 Long Lakes (Broward County) archaeological investigations
- 1985 - 1991 Archaeological Survey of Broward County
- 1979 - 1981 Archaeological Survey of Miami-Dade County

Selected Reports and Publications

- 2016 Carr, Robert S. et al. Monroe County Cultural Resource Assessment Update, CLG Grant #F1503, Monroe County, Florida. *AHC Technical Report #1114*.
- 2003 Carr, Robert S., Alison Elgart-Berry, Victor Longo, Jeff Ransom Archaeological Survey of Palm Beach County, Florida. *AHC Technical Report #419*.
- 1998 Carr, Robert S., David Allerton and Ivan Rodriguez An Assessment of the Archaeological and Historic Resources of the Florida Keys, Monroe County. *AHC Technical Report #4*.
- 1995 Carr, Robert S., James Pepe, W.S. Steele and Linda Jester Archaeological Survey of Martin County, Florida. *AHC Technical Report #124*
- 1991 An Archaeological Survey of Broward County, Florida: Phase I. *AHC Technical Report #34*
- 1990 Carr, Robert S. and Patricia Fay An Archaeological Survey of the Lower Keys, Monroe County, Florida. *AHC Technical Report #19*.
- 1981 *Dade County Historic Survey Final Report: The Archaeological Survey*. Historic Preservation Division. Metro-Dade Office of Community and Economic Development.
- 1978 An Archaeological Survey of the Big Cypress National Preserve, Preliminary Report. National Park Service, Southeastern Archaeological Center, Tallahassee Florida. (Co-author).
- 1975 An Archaeological and Historical Survey of the City of Apalachicola. Report on file with Division of Archives, History and Records Management, Tallahassee, Florida.

Books and Articles

- 2012 *Digging Miami* University Press of Florida (September 30), Gainesville.
- 2012 "Ritual Cave Use in the Bahamas." In *Sacred Darkness*. University of Colorado Press. (Senior author)
- 2012 *The Everglades (Images of America)*. Coauthor: Timothy A Harrington. Arcadia Publishing, Mount Pleasant, South Carolina.

- 2003 “The Archaeology of Everglades Tree Islands” In *Tree Islands of the Everglades*. Edited by [Fred H. Sklar](#) and [A. Van Der Valk](#).
- 1984 Prehistoric Man in Southern Florida. In *Environments of South Florida – Present and Past*. Edited by Patrick Gleason. Memoir 2 (revised). Miami Geological Society. (Co-author/Senior author)
- 1981 The Brickell Store and Seminole Indian Trade. *The Florida Anthropologist*. 34:180-199.



Archaeological and Historical Conservancy, Inc.

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Phone: 954-792-9776 Fax: 954-792-9954

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Ryan Franklin

Education

- | | |
|------|--|
| 2009 | University of the Witwatersrand, Johannesburg, South Africa. <ul style="list-style-type: none">• Ph.D. in Palaeoanthropology |
| 2005 | University of the Witwatersrand, Johannesburg, South Africa. <ul style="list-style-type: none">• M.Sc. in Palaeoanthropology |
| 2002 | Florida Atlantic University, Boca Raton, Florida. <ul style="list-style-type: none">• B.A. in Anthropology |

Professional Experience

- | | |
|----------------|--|
| 2007 - Present | Archaeological and Historical Conservancy, Inc., Davie, Florida <ul style="list-style-type: none">• Osteologist and Collections Manager |
| 2007 | Human Origins, C.C., Johannesburg, South Africa <ul style="list-style-type: none">• Project manager for Gladysvale Cave excavation, 2007 field season |
| 2006 | Archaeological and Historical Conservancy, Inc., Davie, Florida <ul style="list-style-type: none">• Archaeological field director / technician |
| 2001 | University of the Witwatersrand., Johannesburg, South Africa <ul style="list-style-type: none">• Fossil excavations at Gladysvale, Bolt's Farm, Motsetse, Cooper's D• Teaching assistant for Duke University field school |

Selected Reports and Publications

- 2012 Carr, Robert S., Ryan Franklin, Ray Skinner, Timothy Harrington, and John Beriault
Archaeological Monitoring of Fort Lauderdale Beach Park Improvements, Broward County, Florida *AHC Technical Report #957*

2010 Carr, Robert S., and Ryan Franklin A Phase I Archaeological Survey of 1480 North Lake Way, Town of Palm Beach, Florida *AHC Technical Report #924*

2009 Carr, Robert S., Ryan Franklin, Joseph F. Mankowski, John G. Beriault, and Timothy A. Harrington Phase II Cultural Resource Survey of Tarpon Bend Park, City of Fort Lauderdale, Broward County, Florida *AHC Technical Report # 886*

2009 Carr, Robert S., Ryan Franklin, and Timothy A. Harrington Phase I Cultural Resource Survey of the Reese Parcel, Palm Beach County, Florida *AHC Technical Report # 880*

2008 Carr, Robert S., Joseph F. Mankowski, and Ryan Franklin Archaeological Assessment of 3031 and 3115 Brickell Avenue, Miami-Dade County, Florida *AHC Technical Report # 846*

Ryan Franklin—page 2

2008 Carr, Robert S., and Ryan Franklin An Archaeological Assessment of Impacts to Parcels A and B, 8BD41, Parkland, Broward County, Florida *AHC Technical Report # 860*

2008 Carr, Robert S., Joseph F. Mankowski, Ryan Franklin, and John G. Beriault Archaeological Assessment of the Oakwood Center Parcel, Dania Beach, Broward County, Florida *AHC Technical Report # 831*

2008 Carr, Robert S., Joseph F. Mankowski, Ryan Franklin, John G. Beriault, and Timothy A. Harrington Cultural Resource Survey of the Briger Parcel, Palm Beach County, Florida *AHC Technical Report # 865*

2008 Franklin, R. and Schaffer, W. *The Bioarchaeology of Santa Maria West*. Presentation to the Florida Anthropological Society, Annual Meeting.

2008 Franklin, R. and Beriault, J.G. A Phase I Cultural Resource Survey of the Tarpon Park Parcel, Fort Lauderdale, Broward County, Florida. *AHC Technical Report # 868*.

2008 Franklin, R., Mankowski, J.F. and Beriault, J.G. A Phase III Cultural Resource Assessment of 8DA1081 within the SW 157th Avenue R.O.W. *AHC Technical Report # 85*.

2006 Franklin, R. and Mankowski, J.F. A Phase I Archaeological Survey and Assessment of the Bogg Site (8DA5131), Miami-Dade County, Florida. *AHC Technical Report # 732*.

2006 Beriault, John G., and Ryan Franklin A Phase I Archaeological Assessment of the Savanna Lakes Parcel, Lee County, Florida *AHC Technical Report # 752*

2006 Carr, Robert S., Ryan Franklin, David Boschi, and Joseph F. Mankowski Phase I Archaeological Assessment of the Four Fillies Parcel, Miami-Dade County, Florida *AHC Technical Report # 757*

2006 Mueller, Bradley M., Ryan Franklin, William Schaffer, and Ashely Gelman Phase I Cultural Resource Assessment Survey of the Blind Creek East Parcel, St. Lucie County, Florida *AHC Technical Report # 764*

2006 Beriault, John G., David Boschi, Ryan Franklin, and Joseph F. Mankowski Phase II Archaeological Investigations of the Lely #5 Site 8CR751, Collier County, Florida *AHC Technical Report # 771*

2005 Steininger, C., DeRuiter, D.J., Franklin, R. and Berger, L. *New Hominids from Coopers Cave*.
Presentation to the African Genesis Conference, South Africa

Professional Affiliations

Institute for Human Evolution



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HBC ENGINEERING COMPANY

13155 SW 134TH STREET
SUITE 207
MIAMI FL 33186

LICENSE NUMBER: CA27160

EXPIRATION DATE: FEBRUARY 28, 2021

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

COKER, ADEBAYO T.

18842 SW 74TH COURT
CUTLER BAY FL 33157

LICENSE NUMBER: PE55322

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

DIAZ, EDGARDO

13565 SW 109 CT
MIAMI FL 33176

LICENSE NUMBER: PE50728

EXPIRATION DATE: FEBRUARY 28, 2021

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

LOPEZ, JOSE A.

HC 4 BOX 16201
MOCA PR 00676

LICENSE NUMBER: PE81014

EXPIRATION DATE: FEBRUARY 28, 2021

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

CHANG, DAVID ANDRE

25125 SW 192 AVE
HOMESTEAD FL 33031

LICENSE NUMBER: PE41853

EXPIRATION DATE: FEBRUARY 28, 2021

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Ron DeSantis, Governor



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

LUGO, HERNAN A.

112 GABLES BLVD
WESTON FL 33326

LICENSE NUMBER: PE74961

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



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Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

PRYTYKA, GREGORY ANDREI

1484 NW 208TH WAY
PEMBROKE PINES FL 33029

LICENSE NUMBER: PE36868

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

PENATE, ORLANDO RANYER

12724 NW 6TH LN
MIAMI FL 33182

LICENSE NUMBER: PE80385

EXPIRATION DATE: FEBRUARY 28, 2021

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Ron DeSantis, Governor



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

RUBIO-ROACH, ROBERTO MANUEL

890 BRIAR RIDGE ROAD
WESTON FL 33327

LICENSE NUMBER: PE48982

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



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Ron DeSantis, Governor

**FBPE**
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS**STATE OF FLORIDA****BOARD OF PROFESSIONAL ENGINEERS**

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

ABIA, SONNY DANIEL

12701 S.W. 22ND STREET
MIRAMAR FL 33027

LICENSE NUMBER: PE48190**EXPIRATION DATE: FEBRUARY 28, 2021**Always verify licenses online at MyFloridaLicense.com

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS

THE GEOLOGY BUSINESS HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

GFA INTERNATIONAL, INC.

1215 WALLACE DRIVE
DELRAY BEACH FL 33444

LICENSE NUMBER: GB118

EXPIRATION DATE: JULY 31, 2020

Always verify licenses online at MyFloridaLicense.com



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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

KAUB, FREDERICK GEORGE

851 NE 71ST STREET
BOCA RATON FL 33487

LICENSE NUMBER: PG1344

EXPIRATION DATE: JULY 31, 2020

Always verify licenses online at MyFloridaLicense.com



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Ron DeSantis, Governor



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

MERCADO, CARLOS A.

924 LAVENDER CIRCLE
WESTON FL 33327

LICENSE NUMBER: PE71707

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

LEON AGUILAR, ESTELA GEANNINNA

306 18TH AVE N
LAKE WORTH FL 33460

LICENSE NUMBER: PE83307

EXPIRATION DATE: FEBRUARY 28, 2021

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GFA INTERNATIONAL, INC.

1215 WALLACE DRIVE
DELRAY BEACH FL 33444

LICENSE NUMBER: CA4930

EXPIRATION DATE: FEBRUARY 28, 2021

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**OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT****Governmental Center Annex**

115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

October 3, 2019

Mr. Lakdas Nanayakkara
LAKDAS/YOHALEM ENGINEERING, INC
2211 NE 54th Street
Fort Lauderdale, Florida 33308

Dear Mr. Nanayakkara:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's **County Business Enterprise (CBE)** certification has been renewed.

Your firm's certification is continuing from your anniversary date but is contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE program within **thirty (30) days** from your anniversary may result in the expiration of your firm's certification. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over \$3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Architecture/Engineering Services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following areas:

NAICS CODE: 541330, 541340, 541350, 541990

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

A handwritten signature in black ink, appearing to read "S.McDonald", with a large, stylized loop at the end.

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE

ANNIVERSARY DATE: November 7th

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

Receipt #: 315-184819
Business Type: ENGINEER (PROFESSIONAL ENGINEER CORP)

Business Opened:12/18/1987
State/County/Cert/Reg:PE0037590
Exemption Code:

Professionals

**OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT****Governmental Center Annex**

115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

February 7, 2020

Ms. Wendy Cyriacks

CYRIACKS ENVIRONMENTAL CONSULTING SERVICES, INC

3001 SW 15th Street, Suite B
Deerfield Beach, Florida 33442

Dear Ms. Cyriacks:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's **County Business Enterprise (CBE)** certification has been renewed.

Your firm's certification is continuing from your anniversary date but is contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE program within **thirty (30) days** from your anniversary may result in the expiration of your firm's certification. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over \$3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Contract Services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following area:

NAICS CODE: 541620

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

A handwritten signature in black ink, appearing to read "Sandy-Michael McDonald", with a long, sweeping horizontal line extending to the right.

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE

ANNIVERSARY DATE: February 5th

VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

MONTERO, ANDRES ELOY

2408 NE 19TH TERRACE
WILTON MANORS FL 33305

LICENSE NUMBER: LA6666973

EXPIRATION DATE: NOVEMBER 30, 2021

Always verify licenses online at MyFloridaLicense.com



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Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT BUSINESS HEREIN HAS REGISTERED UNDER THE
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

ANDRES MONTERO LANDSCAPE ARCHITECTURE, LLC

ANDRES MONTERO LANDSCAPE ARCHITECTURE
502 SE 11TH COURT
FORT LAUDERDALE FL 33316

LICENSE NUMBER: LC26000598

EXPIRATION DATE: NOVEMBER 30, 2021

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VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

Business Opened:10/20/2017
State/County/Cert/Reg:LC26000598
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
1	1	1	1	1

	For Vending Business Only					
	Number of Machines:			Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

ANDRES MONTERO LANDSCAPE ARCHITECT
502 SE 11 CT
FORT LAUDERDALE, FL 33316

Receipt #WWW-18-00190538
Paid 09/16/2019 30.00

2019 - 2020

VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

Business Opened: 10/20/2017
State/County/Cert/Reg: LC26000598
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
1				

Signature	For Vending Business Only					
	Number of Machines:			Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt #WWW-18-00190538
Paid 09/16/2019 30.00



Florida Department of Agriculture and Consumer Services
 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
 800HELPFLA(435-7352) or (850) 488-2221

October 21, 2019

FERNANDO FERNANDEZ
 12781 MIRAMAR PKWY STE 205
 MIRAMAR, FL 33027-2908

Detach Here

SUBJECT: Professional Surveyor and Mapper License # LS6765

Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2021.

You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.



**Florida Department of Agriculture
 and Consumer Services
 Board of Professional Surveyors
 and Mappers**

LS6765

**Professional Surveyor and Mapper
 FERNANDO FERNANDEZ**

IS LICENSED under the provisions of Ch. 472 FS
 Expiration date: February 28, 2021

Detach Here



**Florida Department of Agriculture and Consumer Services
 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkwy Tallahassee, Florida 32399-6500**

License No.: **LS6765**
 Expiration Date February 28, 2021

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

**FERNANDO FERNANDEZ
 12781 MIRAMAR PKWY STE 205
 MIRAMAR, FL 33027-2908**

nicole fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex

115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

June 2, 2020

Mr. Luis Jurado
PREMIERE DESIGN SOLUTIONS, INC.
2900 Glades Circle, Suite 700
Weston, FL 33327

ANNIVERSARY DATE – Annually, on May 12th

Dear Mr. Jurado:

Broward County is pleased to announce **PREMIERE DESIGN SOLUTIONS, INC.** has renewed its certification as a **Disadvantaged Business Enterprise [DBE]** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PART 26.

DBE certification continues from your anniversary date, but is contingent upon PREMIERE DESIGN SOLUTIONS, INC. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, ensuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to decertify PREMIERE DESIGN SOLUTIONS, INC. as a DBE.

As long as PREMIERE DESIGN SOLUTIONS, INC. is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of PREMIERE DESIGN SOLUTIONS, INC.

PREMIERE DESIGN SOLUTIONS, INC. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at:

<https://fdotxwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch>

DBE certification is **NOT** a guarantee of work, but enables PREMIERE DESIGN SOLUTIONS, INC. to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev

Re: PREMIERE DESIGN SOLUTIONS, INC.**June 2, 2020**

If, at any time, there is a material change in PREMIERE DESIGN SOLUTIONS, INC. including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of PREMIERE DESIGN SOLUTIONS, INC., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

PREMIERE DESIGN SOLUTIONS, INC. may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following areas:

NAICS CODES: 541330 Engineering Services**NAICS CODES: 541360 Geophysical Surveying and Mapping Services**

Please feel free to contact OESBD for any questions or concerns pertaining to your DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,



Sandy-Michael McDonald, Director
Office of Economic and Small Business Development



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex

115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

September 24, 2019

Mr. Luis Jurado

PREMIERE DESIGN SOLUTIONS, INC.

12781 Miramar Pkwy., Suite 205
Miramar, Florida 33027

Dear Mr. Jurado:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's **County Business Enterprise (CBE)** certification has been renewed.

Your firm's certification is continuing from your anniversary date but is contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE program within **thirty (30) days** from your anniversary may result in the expiration of your firm's certification. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over \$3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Architecture/Engineering Services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following area:

NAICS CODE: 541330

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

A handwritten signature in black ink, appearing to read "Sandy-Michael McDonald", with a large, stylized loop at the end.

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE

ANNIVERSARY DATE: September 19th

Broward County Board of County Commissioners

Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org/econdev



TOWN OF DAVIE
Business Tax Receipts Division
 6591 Orange Drive, Davie, FL 33314
 Telephone: 954-797-1212
 Email: btr@davie-fl.gov
 Website: www.davie-fl.gov

TOWN OF DAVIE

Local Business Tax Receipt

Business Name: ARCHAEOLOGICAL & HISTORICAL CONSERVANCY

Address: 4800 DAVIE RD #107

City, ST, Zip: DAVIE, FL, 33314

	<p align="center">TOWN OF DAVIE Local Business Tax Receipts Effective Date: 10/1/2019 Expiration Date: 9/30/2020</p>	<p align="center">License Number 16225</p>						
<p>Business Name: ARCHAEOLOGICAL & HISTORICAL CONSERVANCY Business Phone: (954) 370-6702 Address: 4800 SW 64 AVE 107 City, ST, Zip: Davie, FL, 33314</p>								
<p>License Type: Office-E DBA Name: Square Footage:</p>								
<table border="1"> <thead> <tr> <th>Quantity</th> <th>License for</th> <th>Business Tax Receipt fee</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td align="center">conversion</td> <td align="center">\$0.00</td> </tr> </tbody> </table>			Quantity	License for	Business Tax Receipt fee	1	conversion	\$0.00
Quantity	License for	Business Tax Receipt fee						
1	conversion	\$0.00						
<p>Restrictions:</p>								

NOTICE – This document is an acknowledgement that a Business Tax has been paid pursuant to Sec. 13-17 of the Town Code. Please contact the Towns Business Tax Receipt Division if the business has ceased, moved or changed ownership.



HBCENGI-01

NGONZALEZ

CERTIFICATE OF LIABILITY INSURANCE

 DATE (MM/DD/YYYY)
 2/21/2020

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

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

PRODUCER Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102		CONTACT NAME: PHONE (A/C, No, Ext): (703) 827-2277 FAX (A/C, No): (703) 827-2279 E-MAIL ADDRESS: admin@amesgough.com	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A : Valley Forge Insurance Company A(XV)	NAIC # 20508
		INSURER B : National Fire Insurance Company of Hartford A(XV)	20478
		INSURER C : Continental Casualty Company (CNA) A, XV	20443
		INSURER D : Transportation Insurance Company A(XV)	20494
		INSURER E : Argonaut Insurance Co. A(XIV)	19801
		INSURER F :	

INSURED
 HBC Engineering Company
 8935 NW 35th Ln
 Suite 201
 Doral, FL 33172

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			6045366972	2/21/2020	2/21/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			6024713271	2/21/2020	2/21/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB OCCUR CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0			6057619145	2/21/2020	2/21/2021	EACH OCCURRENCE \$ 3,000,000 AGGREGATE \$ 3,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	6076299547	2/21/2020	2/21/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Professional Liab.			121 AE 0167371-00	2/21/2020	2/21/2021	Per Claim/Aggregate 2,000,000

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

CERTIFICATE HOLDER

CANCELLATION

INFORMATIONAL PURPOSES

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

AUTHORIZED REPRESENTATIVE



TAB 2

FDOT Technical Qualifications





Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAUT, P.E.
SECRETARY

May 14, 2020

Adebayo Coker, President
HBC ENGINEERING COMPANY
8935 NW 35th Lane, Suite 201
Doral, Florida 33172

Dear Mr. Coker:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

Group 3 - Highway Design - Roadway

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 3.3 - Controlled Access Highway Design

Group 6 - Traffic Engineering and Operations Studies

- 6.1 - Traffic Engineering Studies
- 6.2 - Traffic Signal Timing
- 6.3.1 - Intelligent Transportation Systems Analysis and Design
- 6.3.2 - Intelligent Transportation Systems Implementation
- 6.3.3 - Intelligent Transportation Traffic Engineering Systems Communications
- 6.3.4 - Intelligent Transportation Systems Software Development

Group 7 - Traffic Operations Design

- 7.1 - Signing, Pavement Marking and Channelization
- 7.2 - Lighting
- 7.3 - Signalization

Group 10 - Construction Engineering Inspection

- 10.1 - Roadway Construction Engineering Inspection

Group 13 - Planning

- 13.3 - Policy Planning
- 13.4 - Systems Planning
- 13.5 - Subarea/Corridor Planning
- 13.6 - Land Planning/Engineering
- 13.7 - Transportation Statistics

Safety, Mobility, Innovation

www.fdot.gov
BidSync

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2021 for contracting purposes.

Approved Rates

Home/ Branch Overhead	Field Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense	Field Direct Expense
181.54%	97.14%	0.153%	Reimbursed	No	0.00%	3.64%*

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,



Carliayn Kell
Professional Services
Qualification Administrator



TAB 3

Project Approach



Project Approach

Introduction

The project is located within an urbanized area, primarily developed with single family homes. Community features identified along the corridor include Grand Oaks Golf Club, Bamford Sports Complex and Pine Island Park, and Linear Park Trail which runs parallel to Orange Drive and the C-11 (South River Drive Canal). A NRHP eligible archaeological site, East Midden site - BD 1113, is present in the vicinity of Pine Island Road and Forest Ridge Boulevard. This site has documented human remains. An archaeological study was undertaken in 2015 by Archaeological and Historical Conservancy, Inc and a recommendation of this study was for future roadway improvements to widen the roadway to the west to avoid impacting intact cultural deposits and likely human remains present under the eastern lanes.



HBC and team members are ready and available to provide design services to widen this segment of Pine Island Rd from Griffin Road to Nova Drive from four (4) lanes road to six (6) lanes road with bicycle lanes and sidewalks in each direction.

We have made several field visits and examined as-built construction plans for the corridor. We have developed three alternatives conceptual plans for the widening that meet the project requirements. These alternatives provide varying benefits by reducing impact to the canal, landscaping, providing context sensitive design through introduction of wider sidewalk and shade trees, to avoid impacting intact cultural deposits by widening to the west. In addition, these alternatives provide 6 feet buffered bike lane, minimize utility, maintain driveway access, provide multi-modal mobility options, and seamlessly connect to existing conditions at Nova Drive on the northern end and Griffin Road on the southern end of the corridor.

The proof of our commitment to Broward County is the level of effort we've invested to develop conceptual alternatives and solutions that accomplish the stated objectives of this contract. We have carefully evaluated this corridor and are fully prepared to submit a cost effective and well optimized conceptual drawings on Day 1 considering all the project's critical issues; intersection operations, mobility, typical section with bike lanes, utility coordination, maintenance of traffic, archeological impacts, Right-of-Way, canal impact, access management, and public involvement.

- Performed several field visits
- Coordinated with Central Broward Water Control District
- Reviewed Land ownership, usage details, and governmental boundaries
- Developed three alternatives with 6-lane urban divided typical section
- Reviewed geotechnical reports of adjacent projects
- Reviewed previous studies
- Conducted preliminary lighting photometric analysis
- Conducted preliminary drainage layout and connections to existing system

Understanding of the Project Scope of Work

The project scope encompasses the preparation of complete contract package for the County to widen Pine Island Road from four to six-lanes with bicycle lanes and sidewalks in each direction starting at Griffin Road and ending at Nova Drive including the pre-design, design, permitting, and procurement phase services. The scope also includes the structural evaluation and preparation plans for retaining wall and culvert extension for widening into the canal and widening of bridge on Pine Island Road from Orange Drive to Griffin Road. The project pre-design and design phase activities include the following:

<i>Project Activity</i>	<i>FDOT Activity Number</i>
<i>Existing Traffic Counts</i>	
<i>Signalization Analysis and Evaluation</i>	
<i>Safety (Crash Data, Safety Analysis, and Documentation)</i>	
<i>Access Management</i>	
<i>1. Project Common & Project General Tasks</i>	<i>3</i>
<i>2. Roadway Analysis</i>	<i>4</i>
<i>3. Roadway Plans</i>	<i>5</i>
<i>4. Drainage Analysis</i>	<i>6a</i>
<i>5. Drainage Plans</i>	<i>6b</i>
<i>6. Utilities</i>	<i>7</i>
<i>8. Environmental Permits and Clearances/Reevaluations</i>	<i>8</i>
<i>9. Structures - Retaining Walls</i>	<i>17</i>
<i>10. Structures - Miscellaneous</i>	<i>18</i>
<i>11. Signing and Pavement Marking Analysis</i>	<i>19</i>
<i>12. Signing and Pavement Marking Plans</i>	<i>20</i>
<i>13. Signalization Analysis</i>	<i>21</i>
<i>14. Signalization Plans</i>	<i>22</i>
<i>15. Lighting Analysis</i>	<i>23</i>
<i>16. Lighting Plans</i>	<i>24</i>
<i>17. Landscape Architecture Analysis</i>	<i>25</i>
<i>18. Landscape Architecture Plans</i>	<i>26</i>
<i>19. Survey (Field & Office Support)</i>	<i>27</i>
<i>20. Photogrammetry</i>	<i>28</i>
<i>21. Mapping</i>	<i>29</i>
<i>22. Noise Barriers Impact Design Assessment (as needed)</i>	<i>32</i>
<i>23. Geotechnical</i>	<i>35</i>

The HBC Team spent a considerable amount of time over the past few months performing our due diligence and have developed an in-depth understanding of the corridor through extensive research, which includes:

Field Reviews: We performed several field trips to the project site to identify potential project challenges, and possible conflicts that may arise during the design process, and document existing roadway conditions.

Documentation and Data Review: We performed a review of existing water and sewer as-builts and atlases, utilities, right-of-way maps, adjacent projects and environmental documentations especially as they relate to archeological studies. We also thoroughly reviewed the construction plans and documentation available for the recently completed widening project north of Nova Drive.

Coordination with Permitting Agency Staff: To develop an appropriate design and obtain the required permits for this project in 18 months design schedule, a clear and concise understanding of the permitting boundaries and concerns must be developed early in the design process. For that purpose, we coordinated with Jace Selvy, Assistant District Manager for the Central Broward Water Control District who informed us that their preference for the project is to avoid any encroachment into the canal top of bank.

As with all roadway/highway design projects, numerous disciplines and services will be required. Our approach will outline the various relevant elements and tasks that must be considered for successful implementation of the proposed improvements.

Awareness of Project Issues and Approach

We understand that the most important elements of this project include the layout and impacts associated with proposed roadway typical section, canal impact, landscape impact, right-of-way, noise concerns for the residential communities on the west side, drainage and environmental permitting, coordination, archeological burial sites, FPL distribution lines, and schedule.

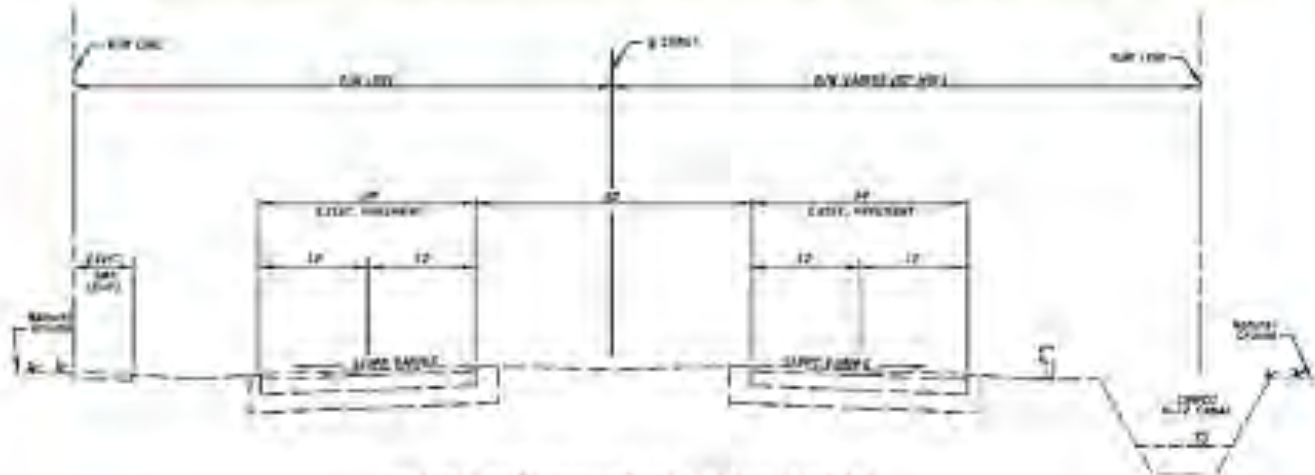
For the design of this project, we will adhere to the Florida Greenbook, Broward County Standards, FDOT Design Manual (FDM), FDOT Standards, MUTCD, ADA/PROWAG Guidelines, Broward County MPO Complete Street Design Guidelines.

The following sections present the HBC Team's approach while maintaining budget, schedule, and quality to deliver outstanding design solutions to address critical issues associated with the implementation of the scope.

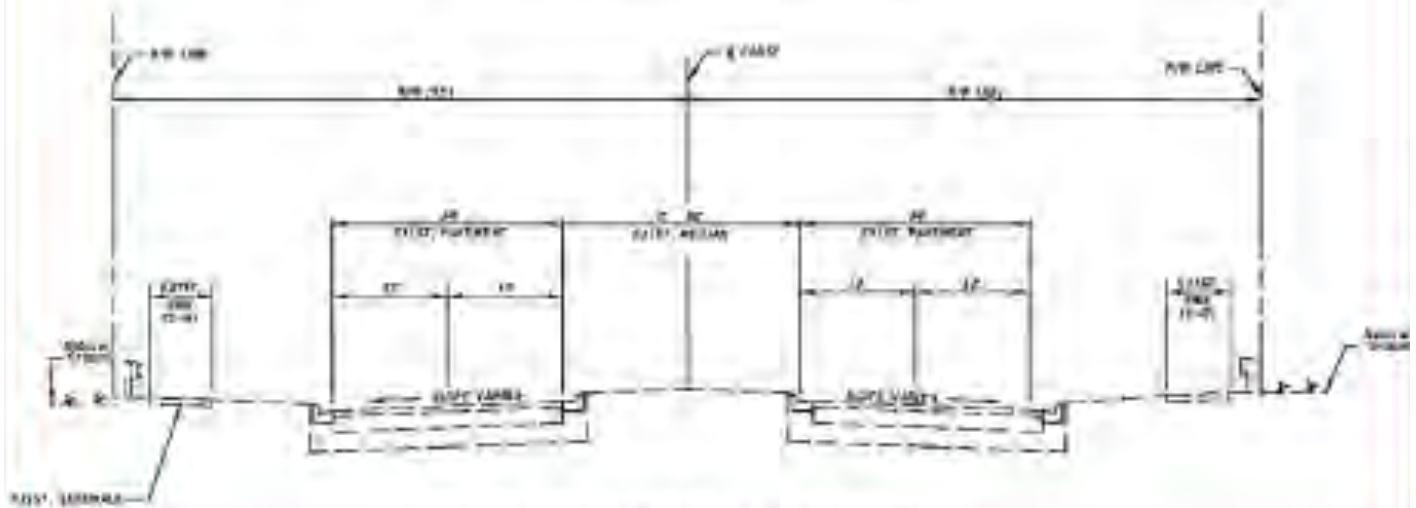
Typical Section

The portion of Pine Island road included in this project is approximately 1.87 miles from Griffin Road to Nova Drive. Pine Island road within these limits is generally a four-lane north-south divided minor arterial. The posted speed limit is 45 MPH within the project limits and right-of-way width varies 100 to 195 feet wide. The west side of the corridor is bordered by low density residential communities and golf course. The N-12 Canal runs parallel to Pine Island road on the east side from Nova drive to the entrance Bamford Sports Complex where it crosses over to the west side via a culvert under Pine Island road before connecting to the C-11 Canal (South New River) at Griffin road. FPL distribution lines run parallel along the west perimeter of the corridor from Griffin Road to Nova Drive. There are no transit routes within the project limits although there are existing pullout bus bays.

EXISTING ROADWAY TYPICAL SECTION



FROM SW 38TH CT TO NOVA DR.



FROM GRIFFIN RD TO SW 38TH CT

To develop our preliminary alternatives to accomplish the widening from 4 lanes to six lanes with 6 feet buffered bicycle lanes we considered the following important parameter/existing conditions along the corridor:

- Minimum right of way width is 110' from Griffin Road to Nova Drive which might not allow for existing trees in the median to remain when mitigating impacts to existing canal.
- From SW 38th CT to Nova Drive, there are existing large trees outside of the ROW, very close to the existing sidewalk (see photo), which might have to be removed to implement the desired improvements (including the sound barrier wall).
- Provided topographical survey show an easement line that needs to be investigated for use of noise barrier wall and sidewalk if canal agency does not allow for widening into the canal and proposed 6 lanes with bike lane remain as the preferred roadway section. (see next two photos).
- Some of the existing trees in the landscape medians may need to be relocated or donated to other parts of the city if those areas are affected by shifts in the median location to accommodate the proposed design typical. (see photo below).
- There are existing deceleration lanes (see photo below) to access residential communities along the road. These lanes will have to be eliminated to accommodate the additional travel lanes and bicycle lanes. This could be a safety issue depending of the demand for the driveway. Moreover, during our visits to the corridor we noticed how difficult it is to find enough gaps in traffic out of some of the driveway due to operating speed along Pine Island Road. Although the speed limit is 45 mph drivers were observed to be going much faster.
- Existing overhead powerlines along the west side of the road at the edge of the ROW that may need to be relocated to accommodate the proposed typical if encroachment into the can is not permitted.
- Design may include the dredging the existing drainage canal if sheet pile is introduced and existing culverts running from west side to the



Archaeological Existing Conditions and Approach

The HBC team will provide cultural resource management for this project, which will include consultation with FDOT to determine the Area of Potential Effect (APE) and a review of archival information to identify all previous archaeological sites within the project corridor. Field testing and assessments will be conducted as needed. Archaeological monitoring will be provided during ground disturbing activities as needed. A final report on cultural resources tasks and results will be provided to reviewing agencies. The HBC team will review anything within the ROW, staging areas, and other areas of proposed ground disturbing activities.

The archeologist in HBC's team has conducted our monitoring on Pine Island Road from SE 30th Street northward to Nova Drive.

An archaeological monitor will need to be on site whenever ground disturbing activities occur between the same locations as listed above. If the grade of Pine Island Road has to be lowered at the location opposite the entrance to Forest Ridge development (this is the location of prehistoric site 8DA1113) then that site areas - particularly within the northbound lane- will have to be hand excavated by archaeologists (below the fill). The current "bump" in the road was deliberate to avoid impacting any graves below.

If an archaeological site is encountered during construction then work at that location will cease (although construction can continue elsewhere within the project corridor). Discovery of an archaeological site will require notification to the County. The time required to document the archaeological site would vary based on its depth and extent. Anticipated several days to several weeks. If human remains are encountered then the State Historic Preservation office would be notified pursuant to Florida Statue 872.05. Work will have to cease at the location. Anticipate minimum of 10 days to 6 weeks of work stoppage at that location. There has been found a 2500-year old grave in the Pine Island during previous monitoring of the sewer line. It took the process from notification to recovery about two weeks.

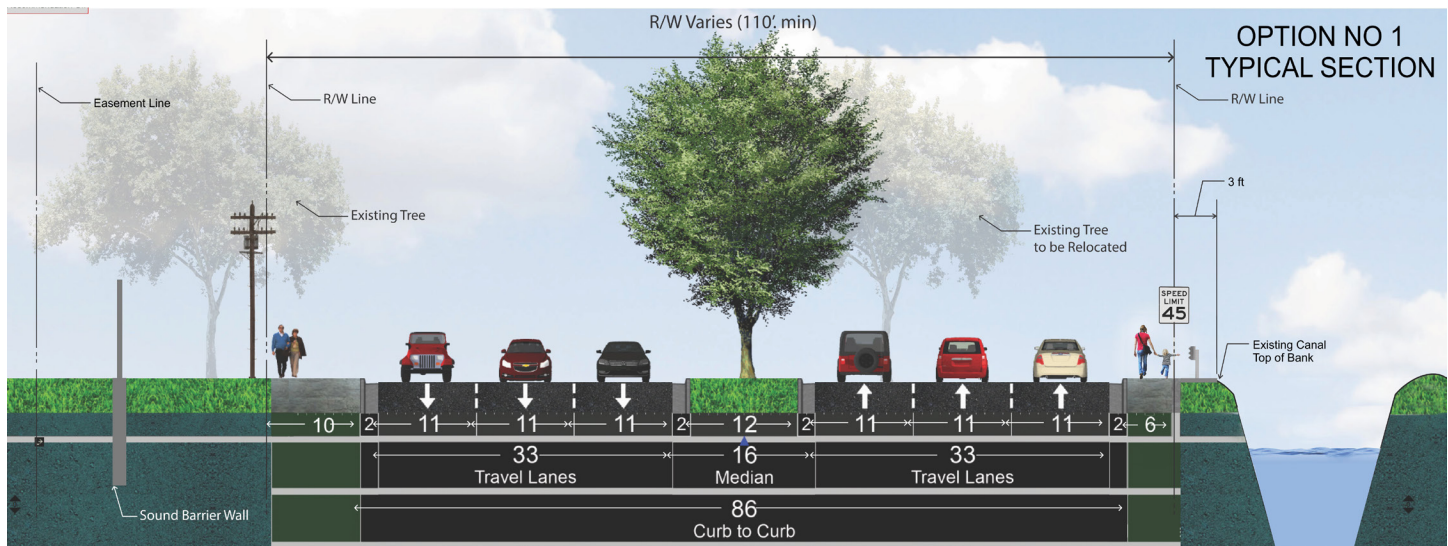
The HBC team includes an archaeologist who has worked on similar projects including Pine Island Road, and was the former Miami-Dade County archaeologist who is very familiar with the process.

Project Approach

We are very familiar with the project challenges and believe we have found significant ways to enhance the project corridor by providing alternatives that mitigate the major project challenges. Three typical section have been developed for the corridor. The typical section options are as follows:

Typical Section 1

This typical section consists of three 11' lanes in each direction with a 16' raised median, curb and gutter and sidewalk (6 feet on east side and 10 feet on the west side) on both sides.



PROS:

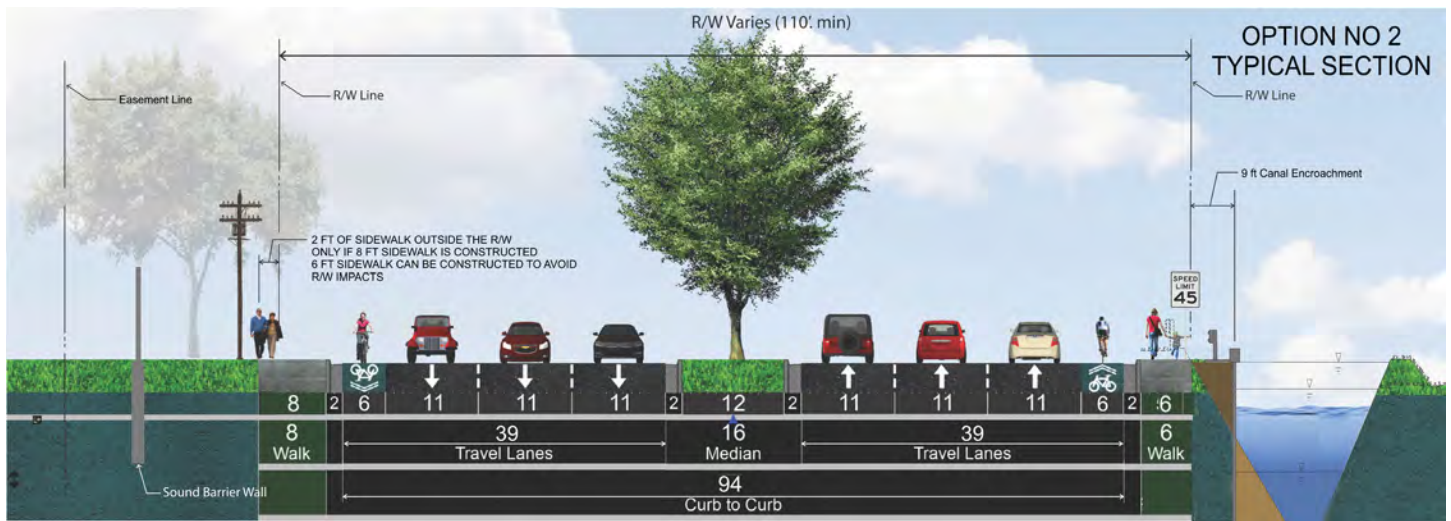
- Eliminates the bike lanes adjacent to the travel lanes and enhances safety for bicyclists and pedestrians.
- Provides 16' raised median with 4 feet traffic separator and 10' wide minimum left-turn lanes.
- Utilize existing drainage structures on west side for stormwater attenuation. Requires new structures to be constructed on the east side.
- Does not require extension of existing culverts.
- Avoid encroachment into the top of canal bank.
- Does not require adjustment of 2 utility crossings over the N-12 Canal.

CONS:

- This option does not provide bicycle lanes for both directions of travel. Instead, it provides a shared-use path on the west side and 6 feet wide sidewalk on the east side for pedestrian connectivity through the corridor.
- Shifting of the alignment to west means existing trees in the median must be relocated and new trees installed after construction.
- Requires full depth reconstruction of the roadway.
- Significant deflection through intersection at Nova Drive

Typical Section 2

This typical section consists of three 11' lanes in each direction with a 16' raised median, 6 feet buffered bicycle lanes, curb and gutter and sidewalk (6 feet on east side and 8 feet on the west side) on both sides.



PROS:

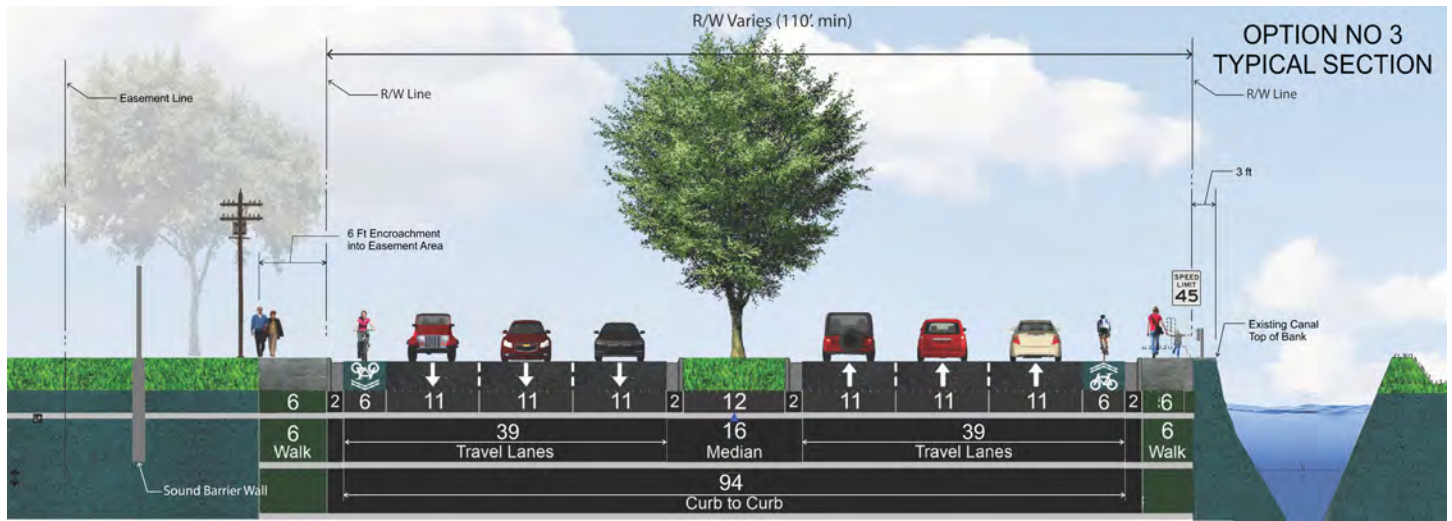
- Avoids impact to existing landscaping and enhances safety for bicyclists and pedestrians
- Provides 11 feet travel lanes, 10 feet turn lanes and 6 feet wide buffered bike lane
- Provides 16' raised median with 4 feet traffic separator and 10' wide minimum left-turn lanes.
- Maintains existing drainage system and require minor modifications to the existing drainage tops for inlets to fall under the new curb line.
- Seamless connect to existing roadway on the north and south sides of the corridor

CONS:

- This option encroaches 9 feet into the canal.
- Requires extension of culvert connections to the canal.
- Requires relocation of signal mast arms.
- Requires adjustment of FM utility crossings over the N-12 Canal.

Typical Section 3

Similar typical section to Typical Section 2 except it shifts the geometry to the west 6 ft to minimize canal impact. Consists of three 11' lanes in each direction with a 16' raised median, 6 feet buffered bicycle lanes, curb and gutter and sidewalk (6 feet).



PROS:

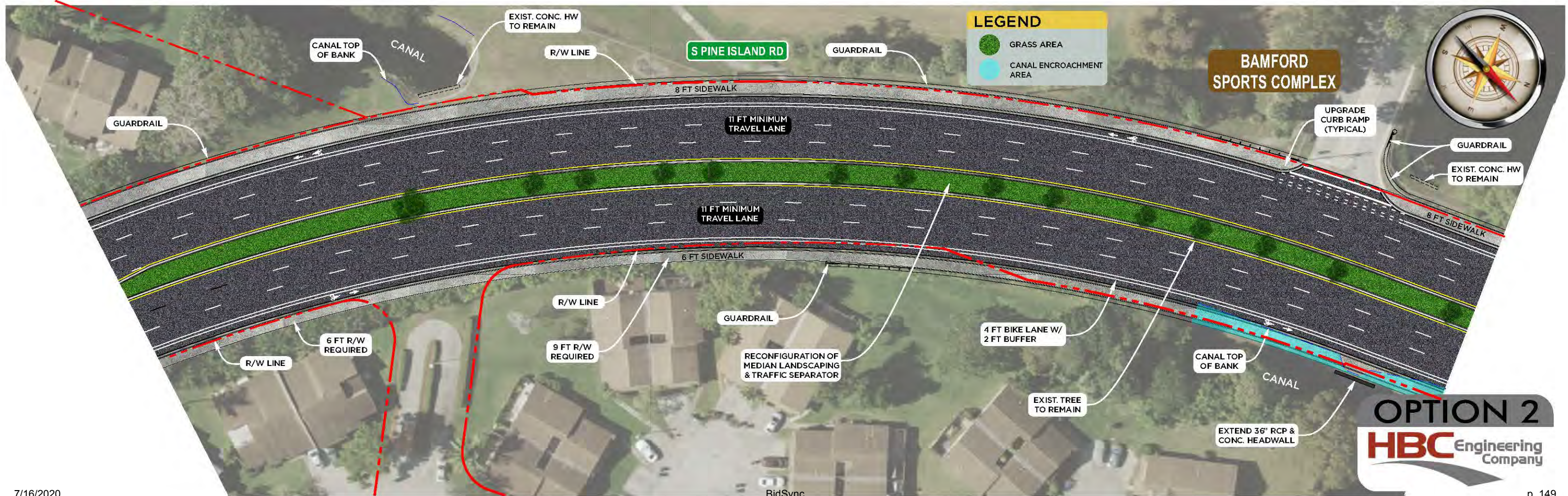
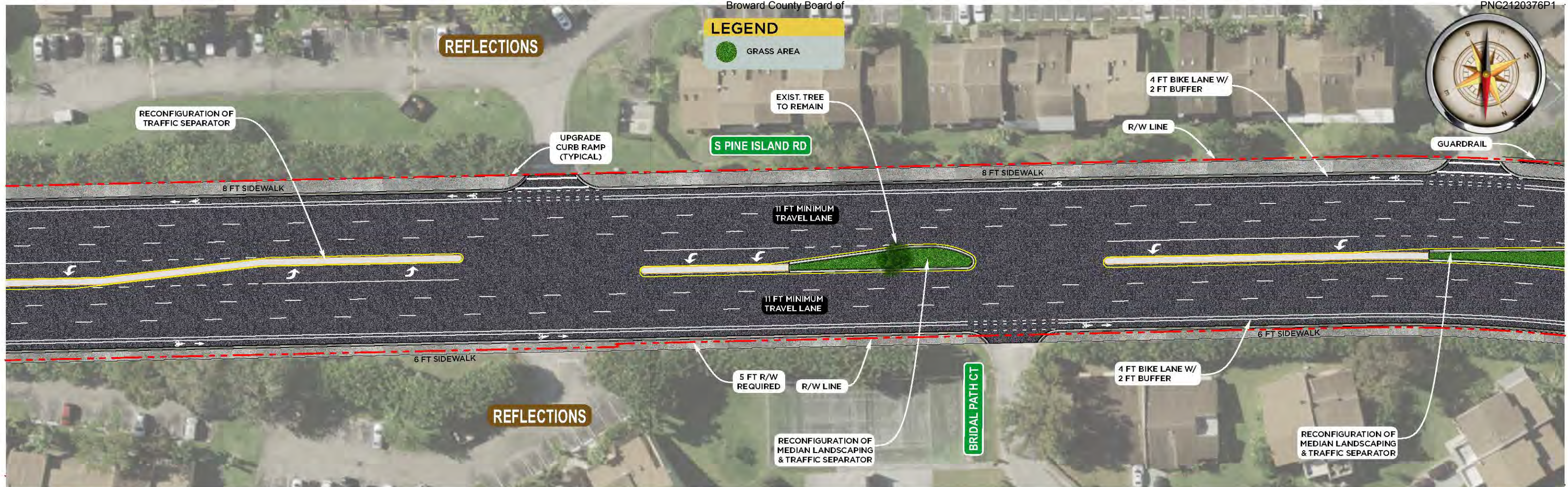
- Avoids impact to existing landscaping on west side and enhances safety for bicyclists and pedestrians
- Provides 11 feet travel lanes, 10 feet turn lanes and 6 feet wide buffered bike lanes
- Provides 16' raised median with 4 feet traffic separator and 10' wide minimum left-turn lanes.
- Maintains existing drainage system and require minor modifications to the existing drainage tops for inlets to fall under the new curb line.
- Seamless connect to existing roadway on the north and south sides of the corridor
- Avoids encroachment into the canal.
- Avoid need to extend culverts
- Does not require adjustment of 2 utility crossings over the N-12 Canal

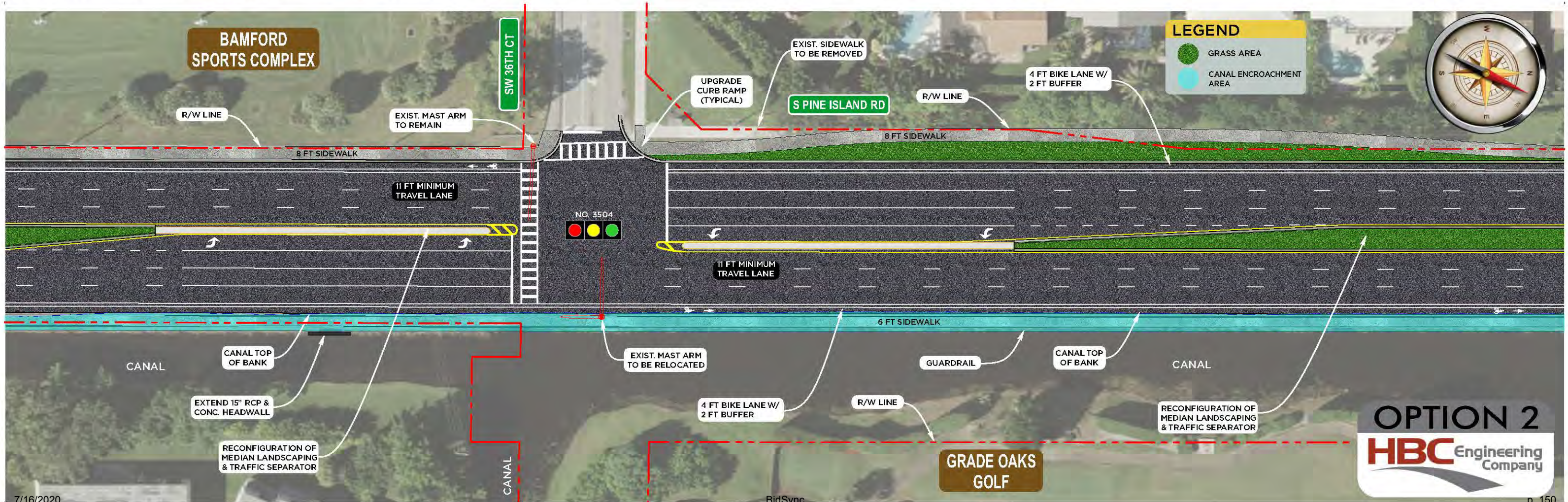
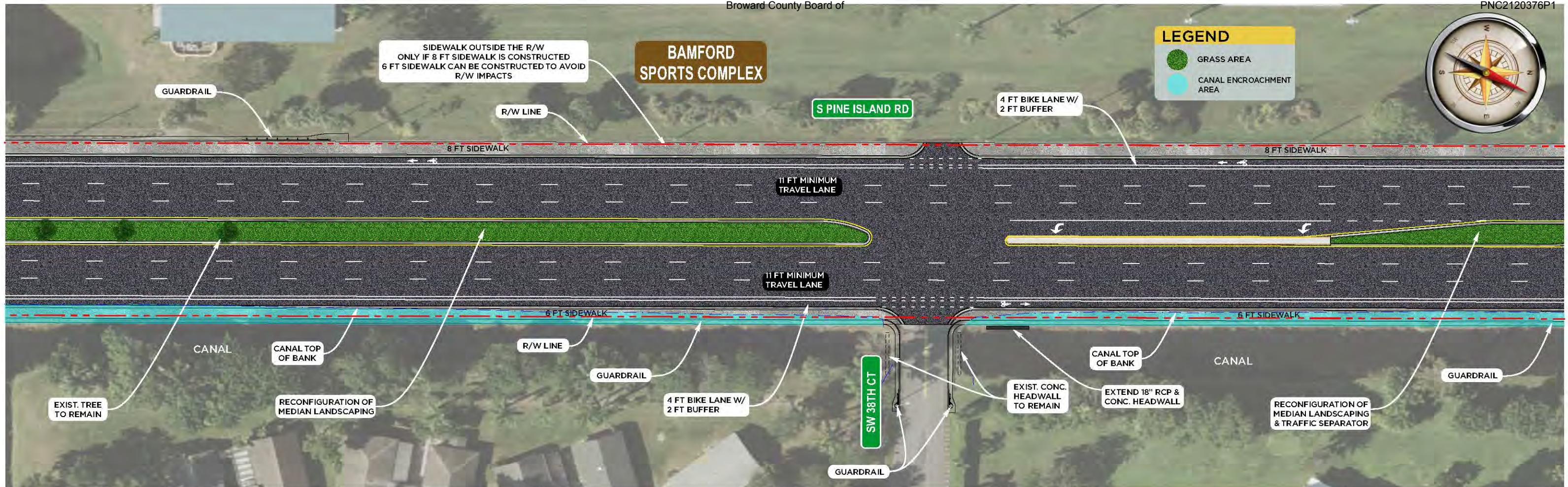
CONS:

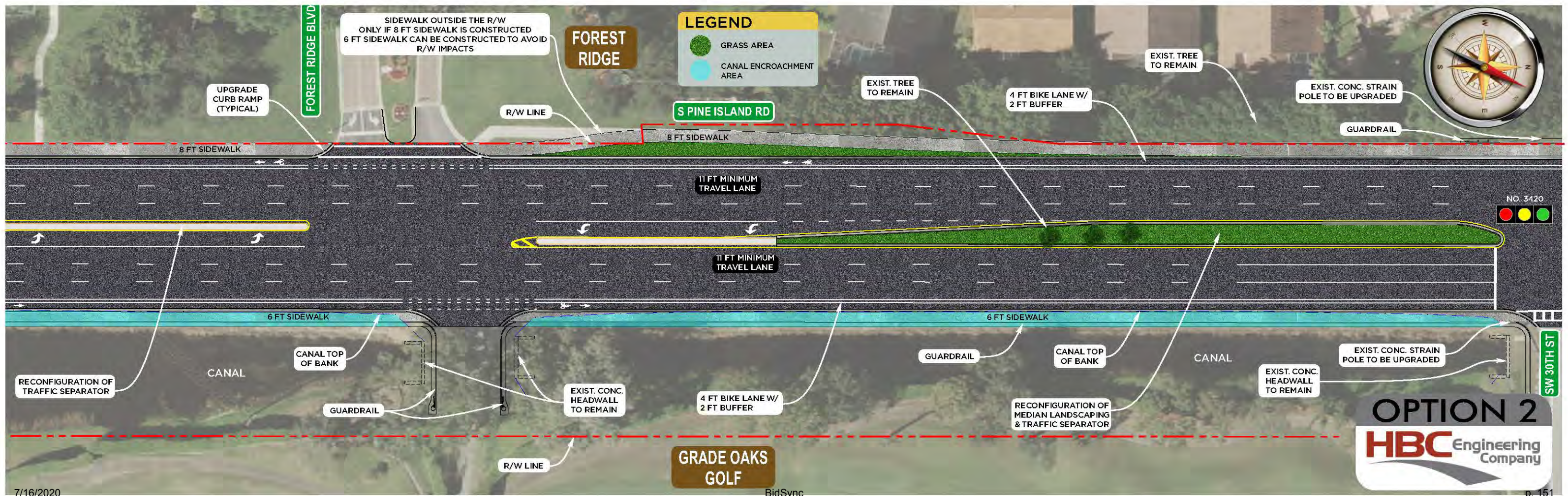
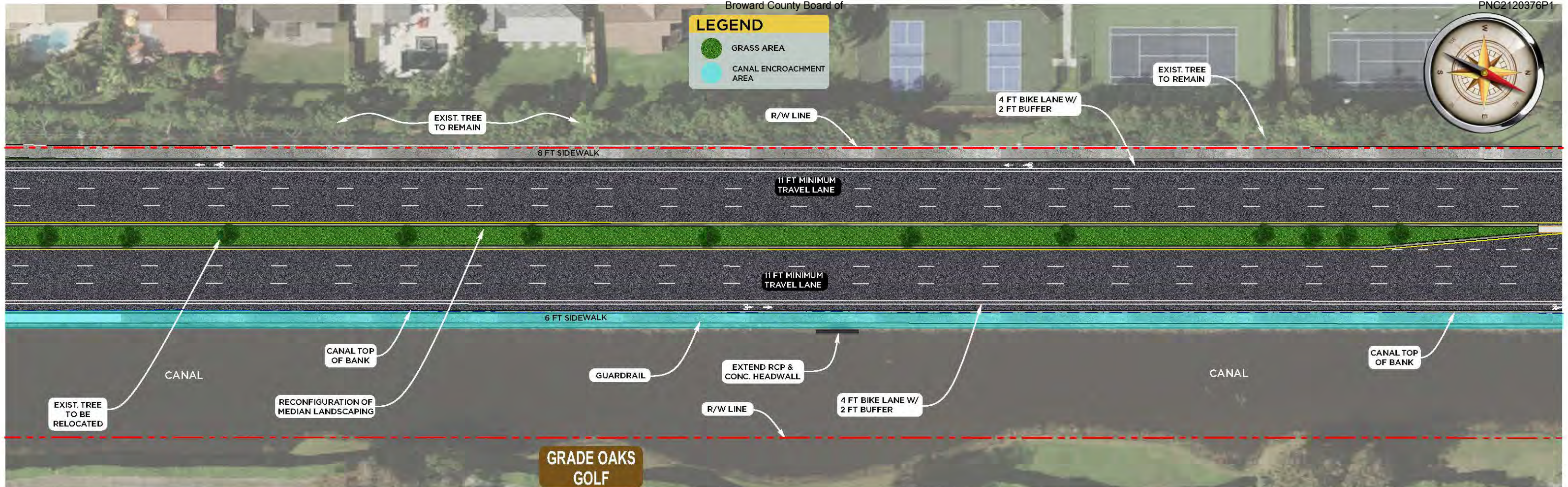
- Requires relocation of signal mast arms.
- Encroaches 6 feet into the easement area on west side.
- Shifting of the alignment to west means existing trees in the median must be relocated and new trees installed after construction.
- Requires relocation of FPL poles to the new back of sidewalk on the west side.
- This option encroaches 3 feet into the canal but maintains the existing top of bank.
- Requires relocation of existing trees in the median.

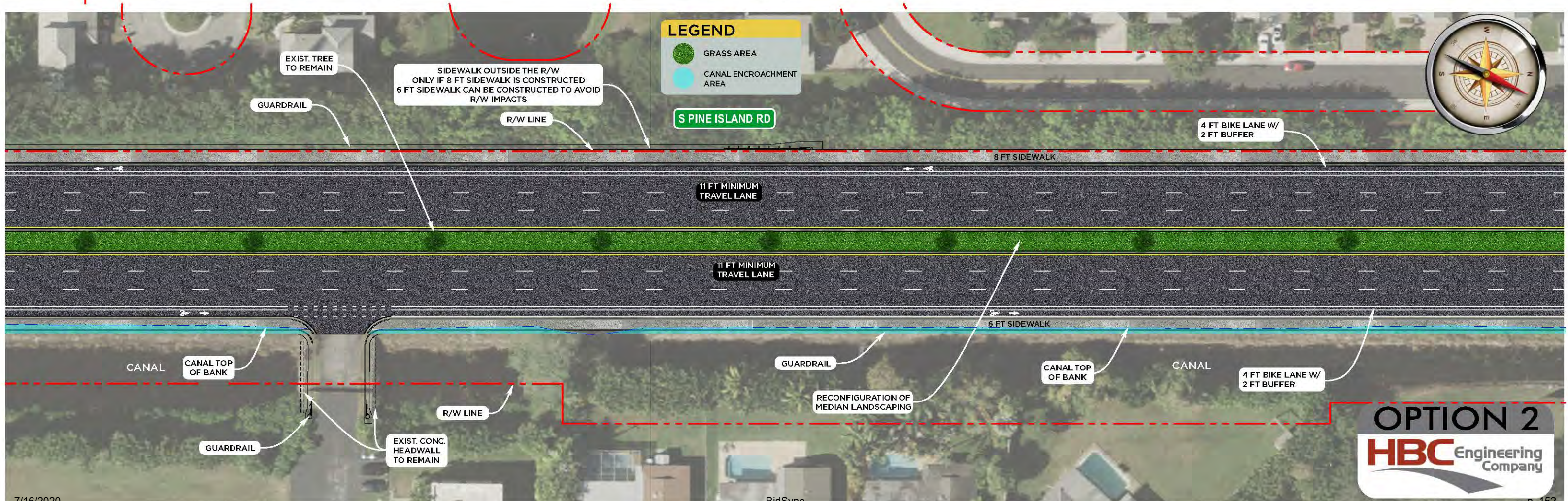
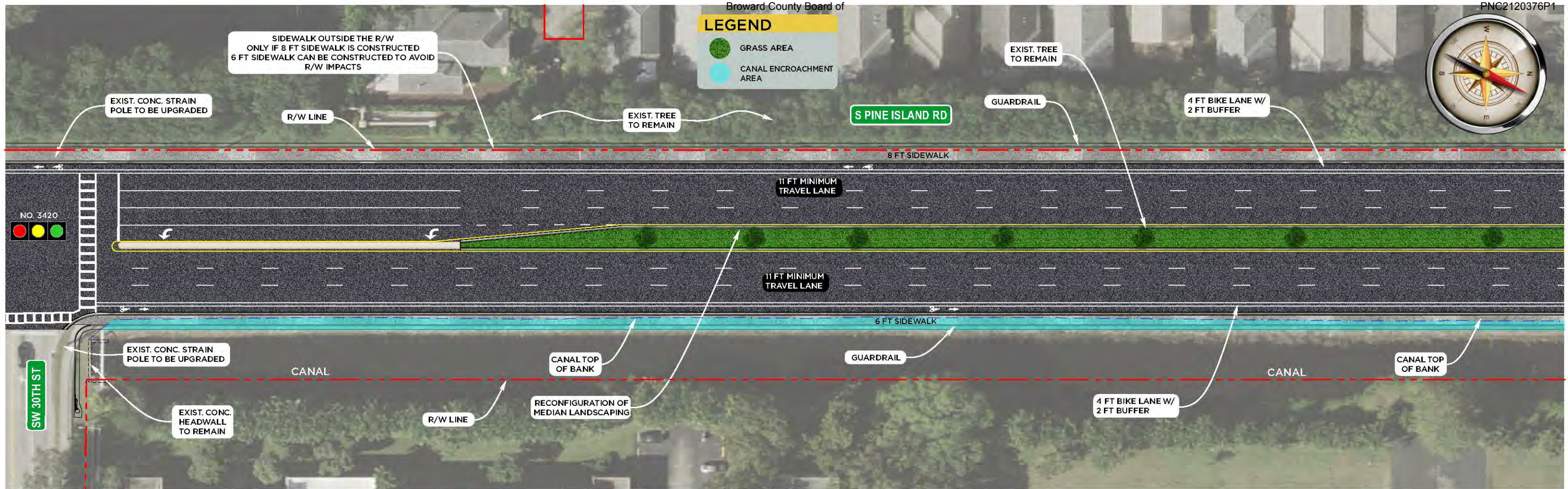
Master Plan and Roadway Alignment

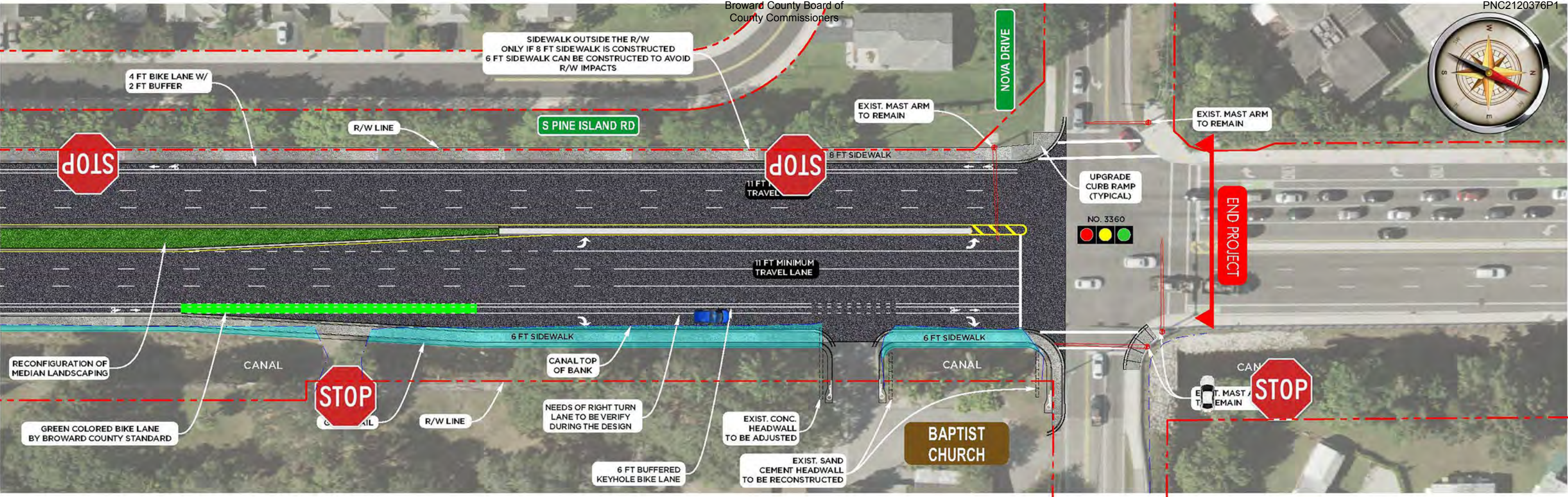
The objectives of this project are to improve operations, capacity, and safety. Our master planning approach will rely on coordination with Broward County, Central Broward Water Control District, and will engage the identified stakeholders and public to obtain necessary input to propose a design that incorporates the county's and community's preference for mobility through the corridor. **We have already commenced this task and present the following layouts of Option 2 and 3 that address most of the anticipated public and jurisdictional agency concerns for the project considering the projects purpose and need for capacity improvements and multi-modal connectivity.**

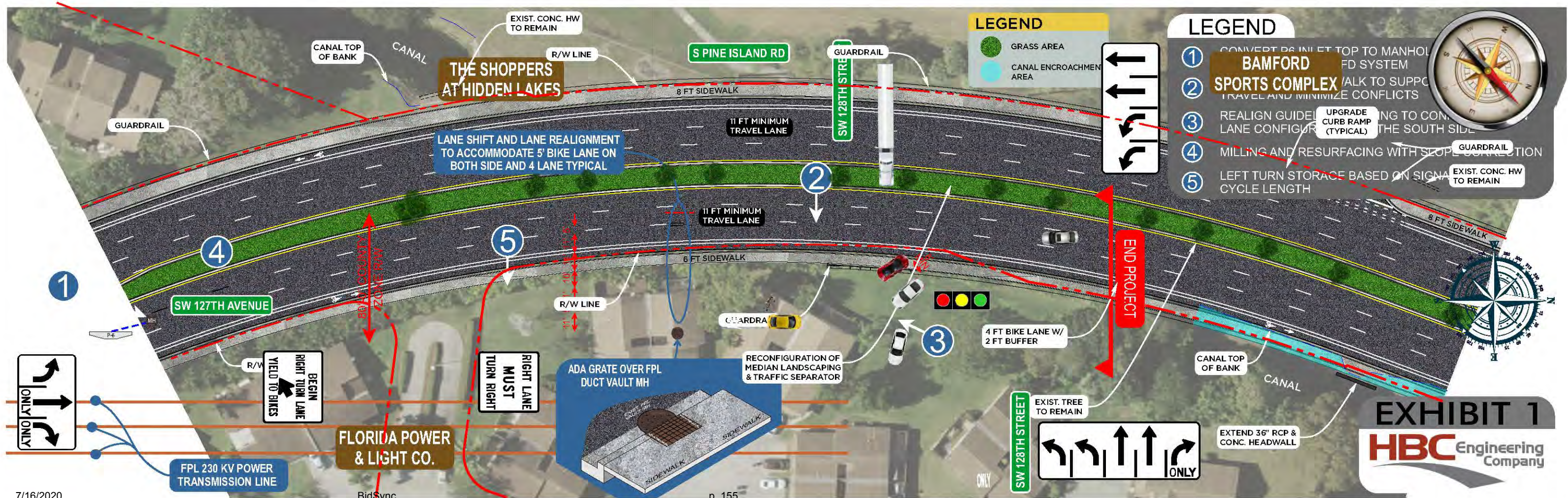
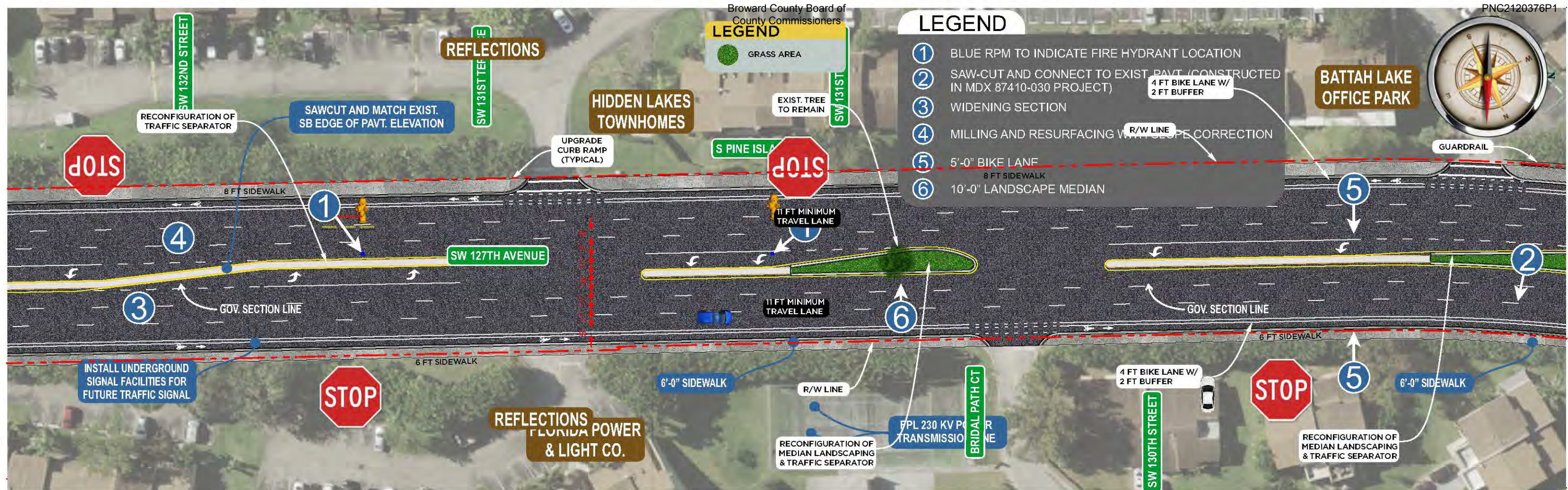




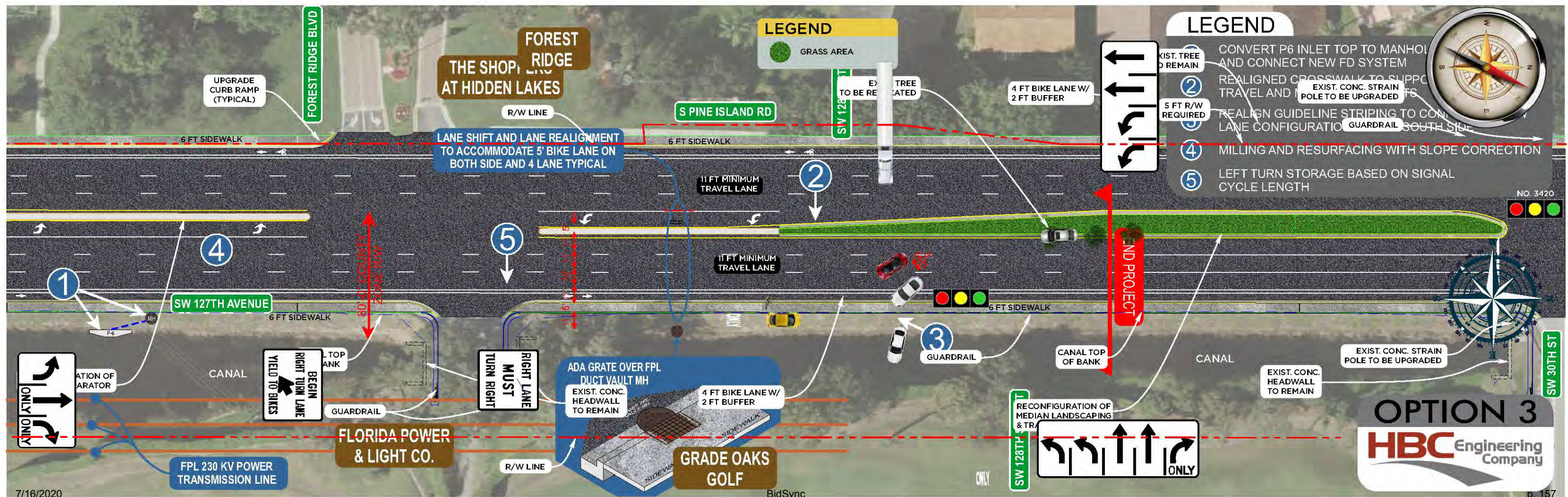
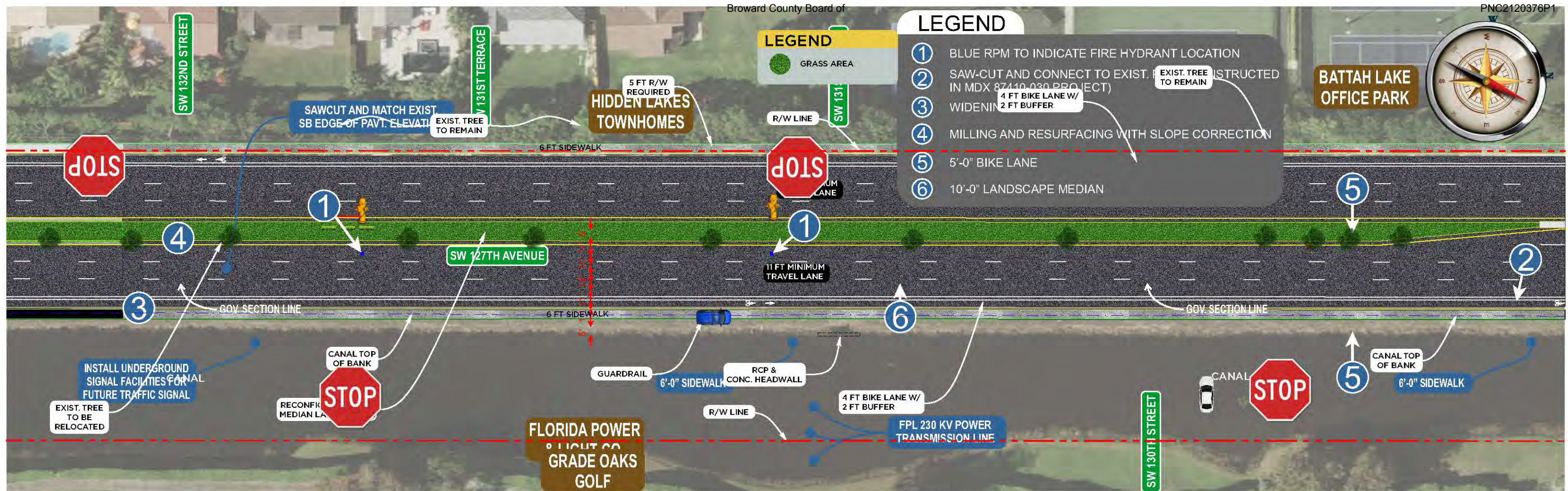


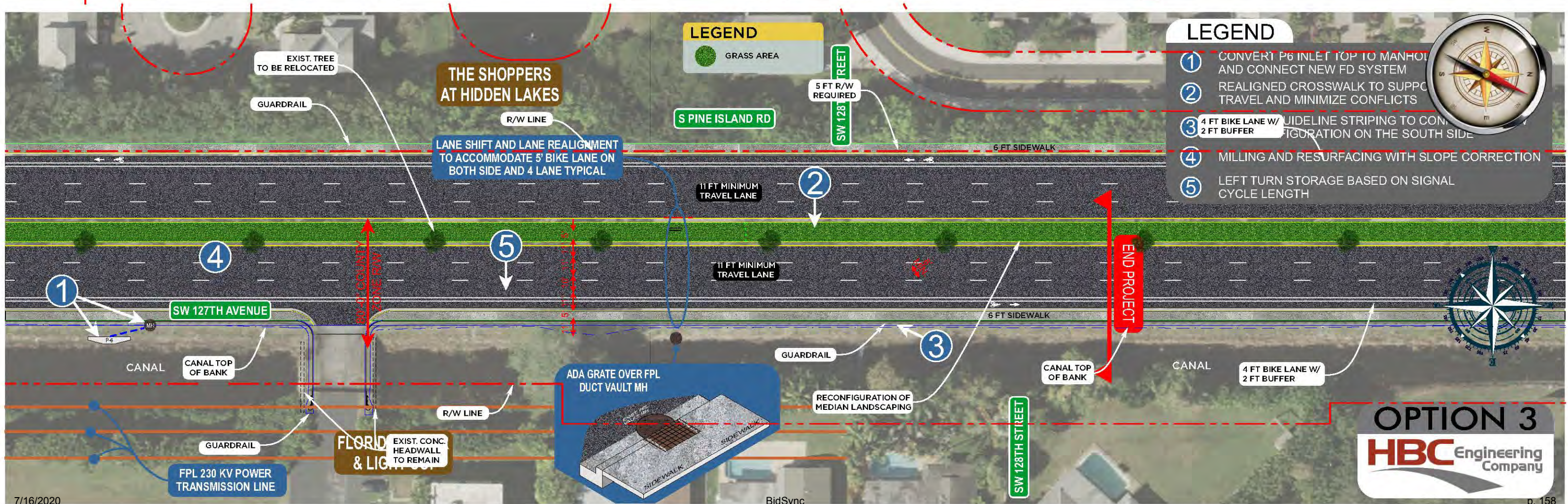
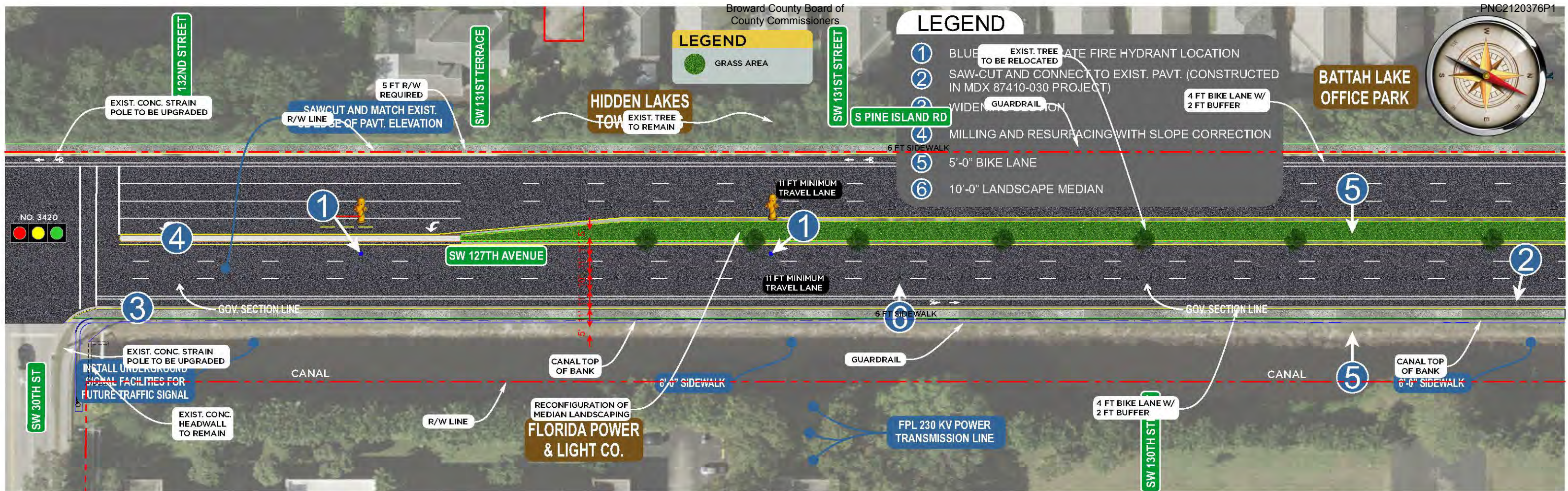


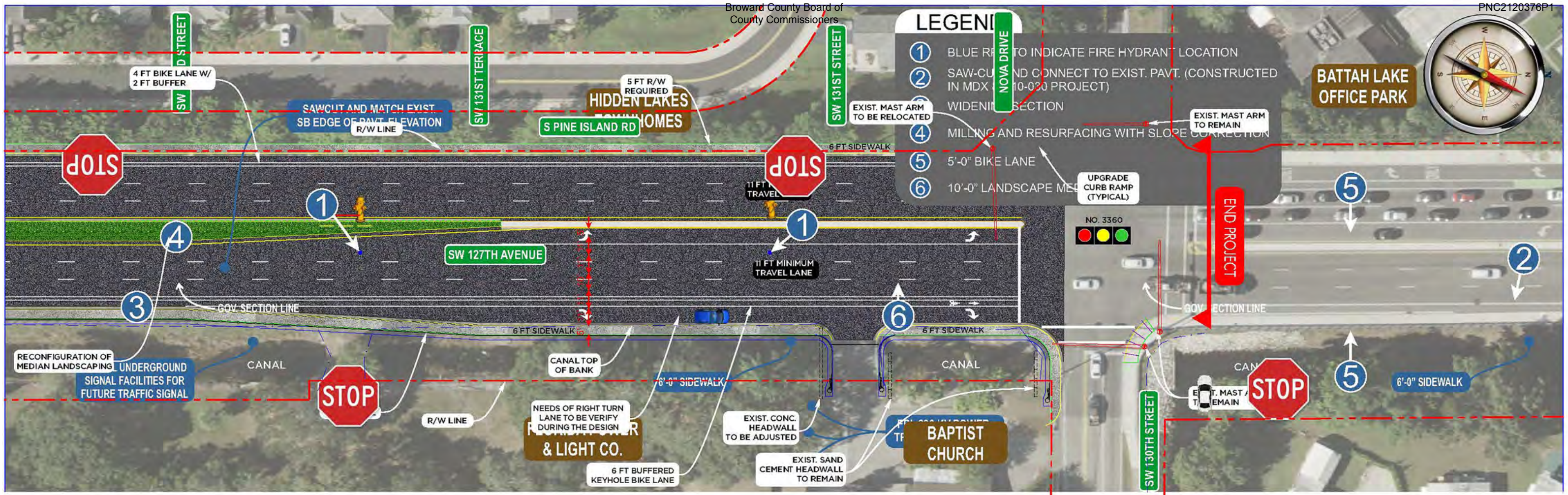












Roadway Design

After the completion of the master plan, our team will begin a focused approach to analyze and design the project corridor. Based on feedback received from Broward County, field reviews, as-built information, preliminary design analysis of the corridor, and previous experience on similar projects, our team has developed a comprehensive roadway design approach which reduces impacts and meets applicable criteria.

The horizontal alignment within the corridor is controlled by the right-of-way. The horizontal alignment consists of a straight alignment with a reversed horizontal curve on the south end of the corridor. The curves complying with current Design Standards requirements and will remain unchanged for all the typical section options.

The vertical alignment is controlled by the existing road, side streets, and back of sidewalk on the east and west side to minimize the need for harmonization into adjacent properties and canal banks. The roadway profile would be kept as close as possible to the existing grade and be slightly modified to ensure it complies with the current design standards for minimum slopes, minimum lengths between vertical points of intersection (VPI), and appropriate vertical curves lengths, where required.

Design Criteria

Our design will comply Florida Greenbook and the Broward County Standards and take into consideration all regulations and recommendations for streets in livable communities with proper coordination and provisions for pedestrians, transit, and bicycles. Any issue on using design criteria values will be discussed and clarified with Broward County prior to implementation in the design. All design work product will be generated using MicroStation V8i.

The table below summarizes the criteria to be considered during the design process:

DESIGN CRITERIA	PROPOSED	FLORIDA GREENBOOK (REFERENCE)	FLORIDA GREENBOOK (MIN./MAX.)	FLORIDA DESIGN MANUAL (FDM)
Design Speed	45 mph	Table 3-1: Design Speed (mph)	30 – 50 mph	30 – 45 mph
Lane Widths	11 feet	Table 3-10: Minimum Lane Widths	Minimum Lane Width: 11 feet	Minimum Lane Width: 11 feet
Median Widths	15.5 feet	Table 3-14: Median Width for Urban Streets	Minimum Width: 15.5 feet	Minimum Width: 22 feet 15.5 feet when $D_{SSD} \leq 40$ MPH
Cross Slope	0.02 - 0.03	Section C.7.b.2: Recommended traveled way cross slope	$0.015 \leq \text{Cross Slope} \leq 0.04$ ft/ft	Cross Slope ≤ 0.04 ft/ft
Vertical Alignment	$\leq 7\%$	Table 3-7: Recommended Maximum Grades in Percent	9%	7%
Vertical Curves	As Calculated	Table 3-8: Max Change in Grade Without Use Vertical Curve Table 3-9: Rounded K Values for Minimum Lengths Vertical Curves Figure 3-6: Length of Crest Vertical Curve (Stopping Sight Distance) Figure 3-7: Length of Crest Vertical Curve (Passing Sight Distance)	Max Change = 0.80 % K Values: 64 (sag); 44 (crest) Curve Length (crest SSD) $L = (AS^2)/1329$ Curve Length (crest PSD) $S < L, L = (AS^2)/2800$ $S > L, L = 2S - (2800/A)$	Max Change = 0.80 % Min. K Values: 64 (sag); 70 (crest) Min. Curve Length: 120' (sag/crest)
Horizontal Curvature	600 feet	Table 3-5: Horizontal Curvature	Max. Degree of Curvature: 11° 15' Min. Radius (feet) = 510'	Table 210.8.1 Desired Length = 600'
Sight Distance	SSD=305 feet PSD=600 feet	Table 3-3: Stopping Sight Distances Table 3-4: Passing Sight Distances	Stopping Sight Distance = 305' Passing Sight Distance = 600'	Stopping Sight Distance = 305' Passing Sight Distance = 1470'
Horizontal Clearance	4 feet	Table 3-15: Minimum Width of Clear Zone	Curbed = 4'	Curbed = 4'

Traffic Control Plan (TCP)

The proposed TCP will be mindful of the needs of the motorized public, emergency responders, pedestrian/bicycle traffic and allows construction to occur in safe manner. It will also address accessibility points for construction equipment and staging areas for construction activities and follow the requirements of The Manual of Uniform Traffic Control Devices (MUTCD), FDOT Standard Plans, The Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Florida Green Book), and Broward County Public Works Manual and Specifications.

Our teams' approach is to maintain traffic on the existing roadway while we build the new outside travel lanes and bike lanes. Once the outside lanes are completed, shift traffic onto the newly constructed pavement while reconstructing the existing roadway and median. Minimum 10' travel lanes will be provided at all times and pedestrian traffic will be maintained on the existing sidewalk along the west perimeter of the corridor. Access to all adjacent business and driveway will be maintained throughout the construction.

Drainage Design

For this proposal the HBC team performed a conceptual drainage analysis consisting of three component tasks: inventory and evaluation of the existing drainage system; evaluation of different design alternatives; and finally, development of the preliminary drainage design. Drainage design will be in accordance with The Green Book, FDOT Design Standards, FDOT Utility Accommodation Guide Manual, Broward County (BC) Code of Ordinances, Army Corps of Engineers, South Florida Water Management District (SFWMD), Central Broward Water Control District (CBWCD), and Town of Davie. All potential alternative drainage systems must accommodate the additional design runoff, satisfying the necessary regulatory criteria.

The project site is located within C-11 East Watershed inside the CBWCD boundaries. The existing topography of the project area is relatively flat with existing ground elevation vary between from 5.0 to 9.5 feet (NAVD 88) with higher elevations located in the vicinity of Forest Nova Drive, Ridge Blvd. and Griffin Road (SR-818). According with USDA Soil Survey, the soils in the project area consist mainly of Sanibel muck (33), very poorly drained, Hydrologic Group A/D, with hydraulic conductivity rate of 5.95 to 19.98 in/hr; Pompano fine sand (29), poorly drained, Hydrologic Group A/D, with hydraulic conductivity rate of 6.00 to 20.00 in/hr; Okeelanta muck (21), very poorly drained, Hydrologic Group A/D, with hydraulic conductivity rate of 5.95 to 19.98 in/hr; and Immokalee fine sand (15), poorly drained, Hydrologic Group B/D, with hydraulic conductivity rate of 0.57 to 1.98 in/hr. Per FEMA Flood Insurance Rate Map (FIRM) panel 12011C0535H, effective date 08/18/2014, the project area is partially located within FEMA Zone AE with base flood elevation (BFE) determined at 5.0 (NAVD 88). In addition, seasonal High-Water Table elevations are from 1.0 to 1.5 ft (NAVD 88), based on the Future Conditions Average Wet Season Groundwater elevations as required for new applications submitted after June 30, 2017.

Since the proposed roadway design adds impervious area, the proposed stormwater system will meet the SFWMD criteria including water quality, water quantity, and floodplain criteria. In general, the project improvements would maintain and/or improve the existing conditions while the existing drainage patterns in the system will be preserved.

The different drainage system alternatives considered for this project were: 1) Retention/Detention Ponds, deemed not practical due to the highly urbanized character of the project vicinity ; 2) Deep Wells, high maintenance cost to avoid clogging and higher construction cost than exfiltration trench made this option unattractive; and 3) Exfiltration Trenches, being this the preferred option due to the high hydraulic conductivity rates of the area based on the USDA Soil Survey information, good water conservation and pollution abatement, and cost effective solution for urbanized areas.

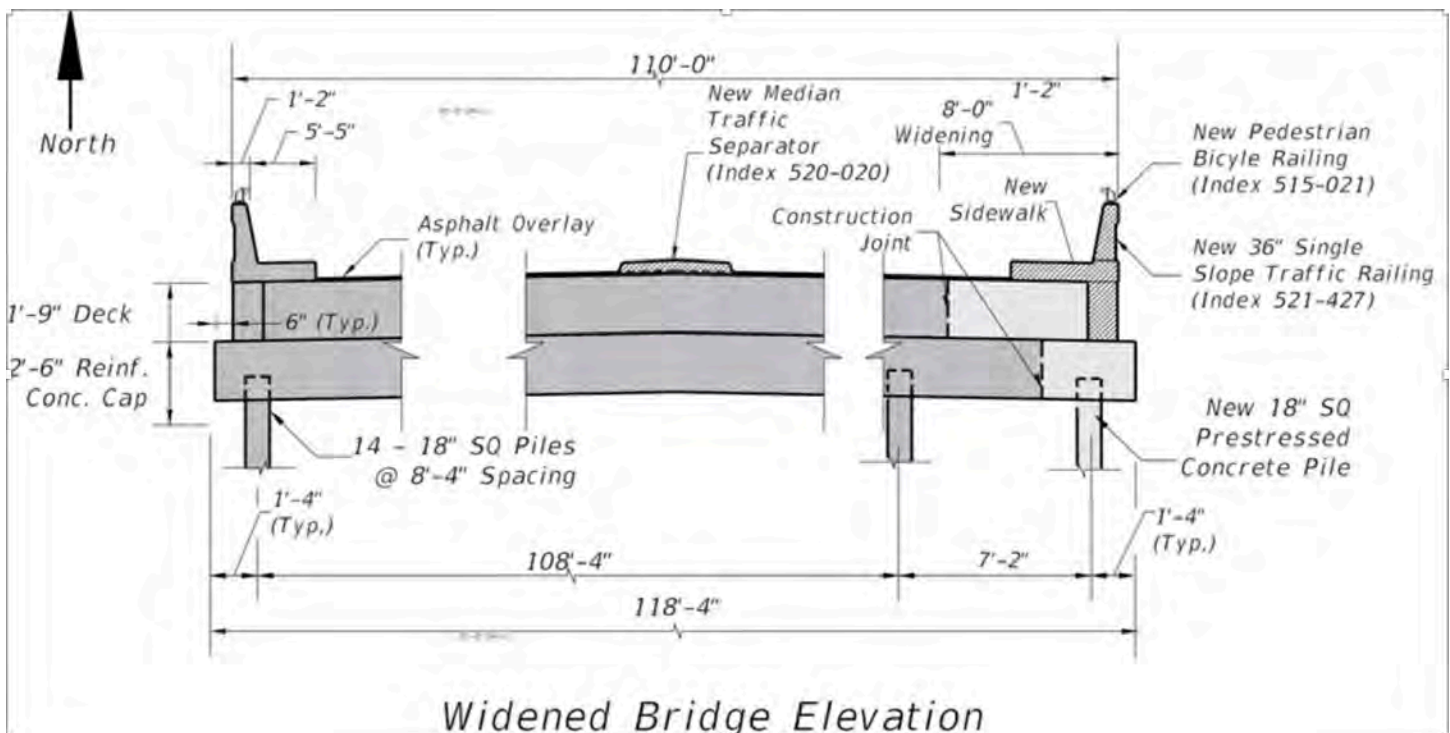
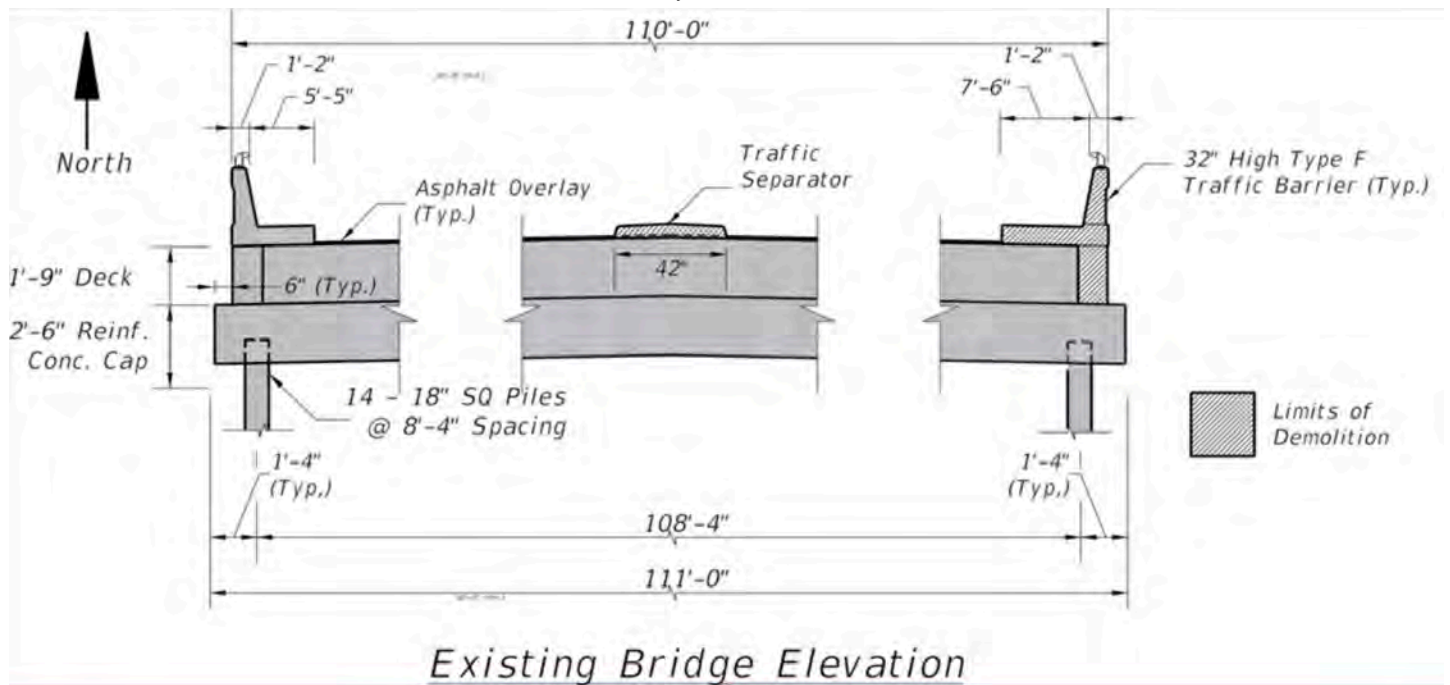
The proposed drainage system will consist of relocating existing structures to the proposed curb and gutter and relocating the outfall headwalls as required in the canal bank. Additionally, a series of catch basins with baffles or skimmers with a 24-inch exfiltration trench with a trunk line located beneath the median with lateral crossings along the project will be added to compensate for additional runoff created by the added impervious area. During our preliminary research, no contaminated sites were identified in the vicinity of the project. SFWMD and CBWCD have jurisdiction over the stormwater quality and quantity for this project and both criteria will be satisfied by our design. Adequacy of our design will be confirmed by using Inter-Connected Pond Routing (ICPR) to develop a 2D hydrologic and hydraulic (H&H) model of the proposed drainage system to evaluate its interaction with the groundwater. Drainage report will be generated and used for the SFWMD Environmental Resources Permit (ERP) and CBWCD Permit. Additionally, Broward County Environmental Resource License and Broward County Surface Water Management License will be obtained as required.

Widening of Bridge 860585, Pine Island Road over Canal C-11 (South New River Canal)

This bridge connects Griffin Road on the south end to Orange Drive on the north end. The bridge is a straight 3-span trestle type bridge with a total length of 105ft and a total width of 110ft. The superstructure consists of 21" deep concrete slab girders. The substructure consists of 14 equally spaced 18" square prestressed concrete pile bents at the abutments and intermediate supports. The canal slopes at the end bents are protected by articulated concrete block revetment.

The bridge is listed in "good" condition according to the FHWA-NBI standard, and it has a sufficiency rating of 97.3/100 and a health index of 94.98/100 according to the latest FDOT bridge inventory. Repairs to the bridge performed under this contract will thus be minor. Repairs should at least include replacement of expansion joint materials at the abutments, sealing of minor transverse cracks on the west side traffic barrier, some leveling of the slope revetment, grooving of existing portions of the deck, and cleaning and recoating of existing concrete surface.

In order to accommodate the proposed roadway typical section, the bridge needs to be widened 8ft on the east side, or 8ft parallel to the existing east coping. This will result in a new total bridge width of 118ft. The superstructure will be widened with new 21" deep solid or voided slab beams such that the load bearing capacity of the widened bridge matches or exceeds that of the existing bridge. The substructure will be widened with an additional 18" square prestressed concrete pile, 7'-2" from the existing exterior pile. The new portions of the deck and cap beams need to be properly connected to the old deck and cap beams by means of dowel bars and the existing rebar to ensure proper global structural behavior. This widening scheme is illustrated in the included elevation views.



Sheet Piling

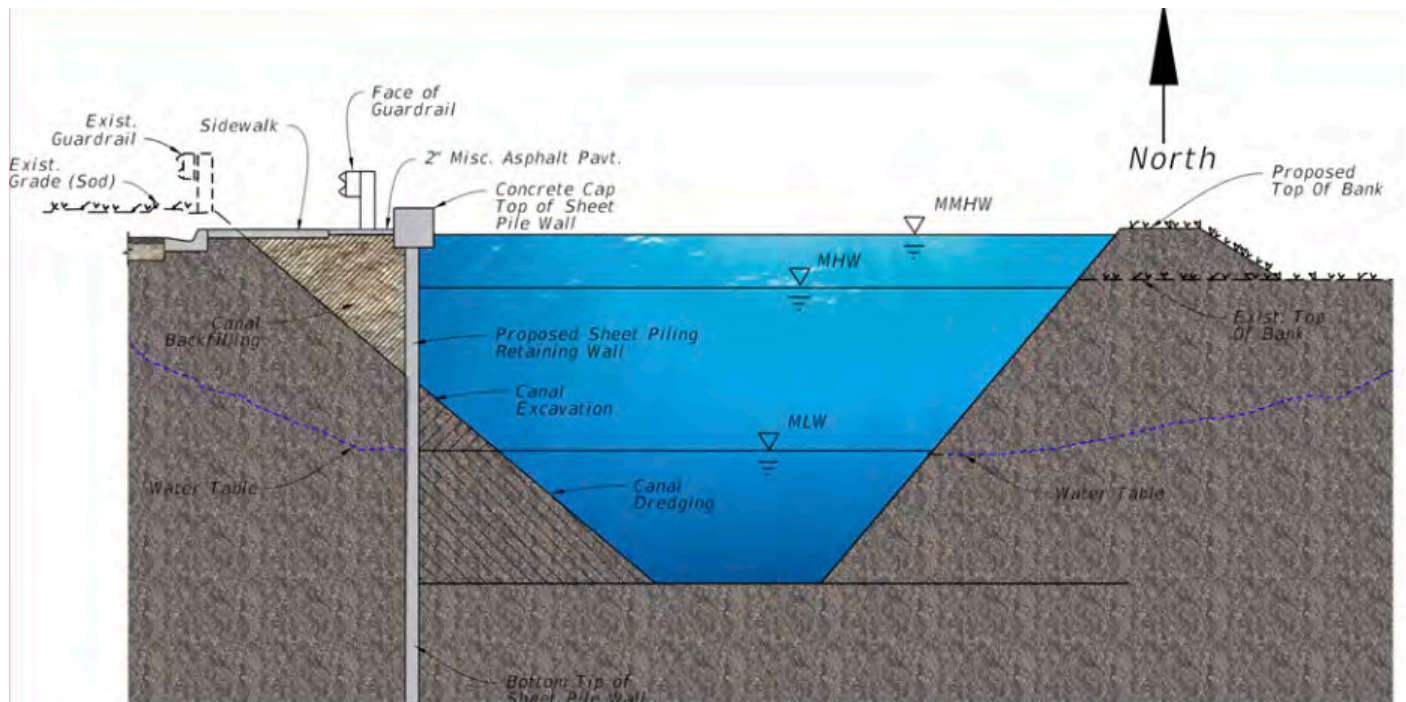
The proposed roadway widening encroaches into the canal running parallel to Pine Island Road on the east side. A sheet pile wall is needed to support the widened roadway and stabilize the canal bed as shown in the sketch. Excavation and dredging of the canal is needed and will require permit from Central Broward Water Control District. In order to restore the water flow capacity of the canal, the top of the eastern bank needs to be raised. Unless is not permitted by right of way constraints, the back of the eastern bank can then slope down gently away from the canal. Else, a short retaining structure would be required, such as a gravity wall.

A cantilever steel sheet piling wall is recommended. This eliminates the need to excavate the bottom of wall to facilitate driving and the excavation of the backfill to install anchorage. An anchored wall will only be needed if the height of wall required exceeds 15ft. This type of wall is also appropriate for slightly to moderately aggressive environment. The top exposed surface of the sheet pile wall can be lined by concrete to enhance aesthetics and reduce the cost of maintenance. A sacrificial thickness can also be added to the structurally required thickness to increase the service life of the wall.

The soil profile and properties as well as the type of wall need to be coordinated with the geotechnical engineer. The survey will provide elevations of the existing grade and canal mudline, as well as elevation and fluctuations of the water table. With this information, the structural engineer will be able to calculate and provide the required bottom tip elevation of the wall, the size and thickness of the wall or wall cross section, and any anchorage as needed.

Openings on the wall will be provided as needed to allow the crossing of 2 existing water mains and any other existing utility crossings. Additional utility conflicts will be addressed as information of location and ownership is obtained during the early stages of the project. Coordination with utility owners on design, location, and construction of the wall is critical for the safety and integrity of the utilities.

Design will consider articles 3.5, 3.12 and 3.13 of the FDOT Structures Design Guidelines. Plans will follow the requirements of article 19.5 of the Structures Detailing Manual and Chapter 262 of the FDOT Design Manual.



Proposed Canal Sheet Piling Retaining Wall

Adjustment of Culvert Headwalls

As a result of the widening on the east side of Pine Island, the headwalls of some of the culverts under the cross streets and driveways encroach into the proposed roadway, and thus need to be adjusted. None of the actual culverts are affected, only part of the south west or north west headwalls. The locations are as follows:

1. North headwall at SW 38 St
2. South and north headwalls, driveway at Sta 255+50
3. South and north headwalls at asphalt driveway at Sta 268+50
4. South headwall at Nova Drive

The adjustment at location 2 above consists of removing the portion of headwall in conflict and replacing it or tying to a new headwall that turns parallel to the roadway or perpendicular to the canal slope as shown in the sketch. Additional rip rap protection will be needed behind the new portion of head wall. Rip rap at the end of the headwall and in front of it will follow the slope of the canal down to the elevation of the invert or very close. The elevations at the top and bottom of the new portion of headwall should also match those of the existing remaining portion. The actual layout or design of the adjustment will be coordinated with the drainage engineer and Central Broward Water Control District. The adjustment of head walls at the other locations will be similar. Finally, the beginning of the sheet pile wall on both sides of the cross street or driveway will overlap the new headwall transition as shown. The east end of the 36" RCP culvert crossing Pine Island just north of the entrance to the Bamford Sports Complex needs to be extended approximately 2ft into the canal. An opening through the proposed steel sheet pile wall needs to be provided as shown in the sketch. The perimeter of the pipe at the opening must be sealed with an approved waterproof sealant.

Approach to Noise and Environmental Permitting

Consistent with the recently completed noise analysis, this design phase traffic noise analysis will be conducted in accordance with the most recent versions of 23 CFR Part 772: Procedures for Abatement of Highway Traffic Noise and Construction Noise and Chapter 18 Highway Traffic Noise found in Part 2 of the FDOT Project Development and Environment (PD&E) Manual. Coordination with the affected communities will be vital to determine their viewpoints regarding noise abatement. Also, coordination with the owners of the utilities will be necessary to determine the constructability of noise barriers along the project corridor.

No natural areas are present along the corridor. Surface water features including drainage canals, and ponds associated with development are present including the South Florida Water Management District (SFWMD) C-11 (South River Drive Canal) and the Central Broward Water Control District (CBWCD) N-12 canal which runs along the east side of the road. Wetland vegetation is present within some of these waterways. The US Army Corps of Engineers (USACE) may claim these wetlands as jurisdictional and require mitigation. A field review to delineate wetlands is recommended, as well as a pre-application meeting with USACE and SFWMD. The project falls within the USFWS consultation area for the Everglade snail kite and the USFWS urban development boundary consultation area for the Florida bonneted bat. Additionally, the project is within the Core Foraging Area (CFA) of four (4) active wood stork colonies. Other protected species with the potential to occur within or adjacent to the project corridor are the gopher tortoise, Eastern indigo snake, Florida burrowing owl. State listed wading bird species may also be present within the surface water habitats adjacent to the project. Coordination with US Fish and Wildlife Service (USFWS) and Florida Fish and Wildlife Conservation Service (FWC) is recommended.

Anticipated permits include:

- USACE for dredge/fill activities within surface waters,
- USACE Section 408 Authorization for fill within the C-11 Canal,
- SFWMD Environmental Resource Permit (ERP) for stormwater management, and fill within other surface waters,
- SFWMD Water use Permit for construction dewatering,
- SFWMD Right of way Occupancy Permit for crossing the C-11 canal, and
- CBWCD Permit for work within the boundary of the District including paving, grading, drainage and storm water management and discharge into the District's Waterway.

Permitting

HBC has successfully permitted numerous roadway projects widening projects in South Florida. Our team has been permitting civil engineering projects for more than 20 years in South Florida and have a track record of successful and professional relations with all regulatory agencies. As part of the permitting, a Drainage Memorandum and calculations will be submitted to demonstrate the proposed stormwater management systems meet the stormwater quantity and quality criteria.

Utility Coordination

Utility ticket created for this corridor through Sunshine 811 revealed the presence of 11 different Utility Agency Owners (UAO).

- Broward County Traffic Engineering
- Comcast Cable
- Cooper City Utilities
- FPL Broward
- MCI
- Crown Castle
- TECO Peoples Gas South Florida
- AT&T Distribution
- City of Sunrise Water & Wastewater
- City of Sunrise Gas
- Town of Davie Utilities Department

HBC will coordinate with all these UAO throughout the design of the project and prepare a utility conflict matrix to clearly identify any possible conflict and corresponding resolution to obtain final utility certification.

Geotechnical Engineering Services

The purposes of a Geotechnical Investigation are to investigate the soil and geologic conditions of a property and to provide recommendations and design criteria for construction. The scope of a Geotechnical Investigation includes review of available literature; conducting on-site exploration, mapping/ logging and sampling; and laboratory testing of samples obtained in the field. The HBC team will interact with Broward County staff to complete each task.

Project Approach for the Geotechnical Engineering Services: Geotechnical services typically involve five critical steps. First, preliminary field work must be done. A geotechnical engineer collaborates with a client representative to determine project objectives. The engineers will determine appropriate locations and depths for taking soil samples. Boring locations will include areas where structures, pump stations, levees, culverts and water control structures require geotechnical data.

In addition, engineers will develop preliminary concepts for drainage structures and pavements that may be needed to direct water away from structures.

The second step, exploration, begins with drilling and recovering soil and rock samples using such techniques as standard penetration testing, rock coring, cone penetrometer soundings and/or vibracore sampling. The HBC team drillers are versed in all these type of drilling techniques.

A geotechnical engineer will take a series of soil samples from each of the defined boring locations, paying special attention to recovered materials and penetrating resistance. If adjustments need to be made to the field sampling plan then the field engineer will make appropriate arrangements with the field crews after discussing this with the client.

Laboratory tests and sample review is the third stage (materials testing). All soil samples obtained by the HBC team in field investigations are thoroughly examined visually in our subcontractor's laboratory in accordance with ASTM D-2488 to obtain an accurate definition of the geomorphic conditions and properties of the soil. Engineers evaluate soil samples for strength, moisture, density and other characteristics and properties. Random laboratory tests are performed on soils within the foundation bearing depths to verify visual classifications. These tests may consist of gradation analysis and organic content testing on soil samples.

The HBC team then develops final detailed boring logs which depict the soils encountered. These boring logs illustrate the soils encountered in graphic detail and penetration resistance values logged during drilling and sampling activities.

A geotechnical report is the fourth step in the process. It provides a detailed analysis of subsurface conditions at the study location. How will existing subsurface soil and bedrock such as limestone or sandstone perform as bearing materials for the planned construction? What about soils that have been manipulated previously? What type of fill was used? Was it uncontrolled fill that has been dumped, but not compacted, or structural fill that has been compacted? Does the fill include buried debris? How can the contractor modify this material to ensure the loadbearing characteristics?

Our team will then make the appropriate evaluations in order to make recommendations with respect to foundation support of structures and slabs; soil bearing pressures; bearing elevations; and foundation design recommendations. As part of the analysis, and only if necessary, the HBC team will advise our client as to the need for improvements to the soils on the site.

The report's recommendations will guide the construction process. Recommendations cover issues in site preparation and drainage, as well as in footing, slab, seawall, bulkhead and pier design. The written report documents the alternatives proposed with supporting data and confirms the implementation plan accepted by management. Specific organization of the report is unique to each study.

Last, but equally important, geotechnical services include monitoring and consulting during site preparation and construction. Geotechnical and materials engineers and engineering geologists understand how the soil beneath a structure must perform, and they have the training, equipment and knowledge of soil and material characteristics to make engineering judgments about potential soil and materials problems.

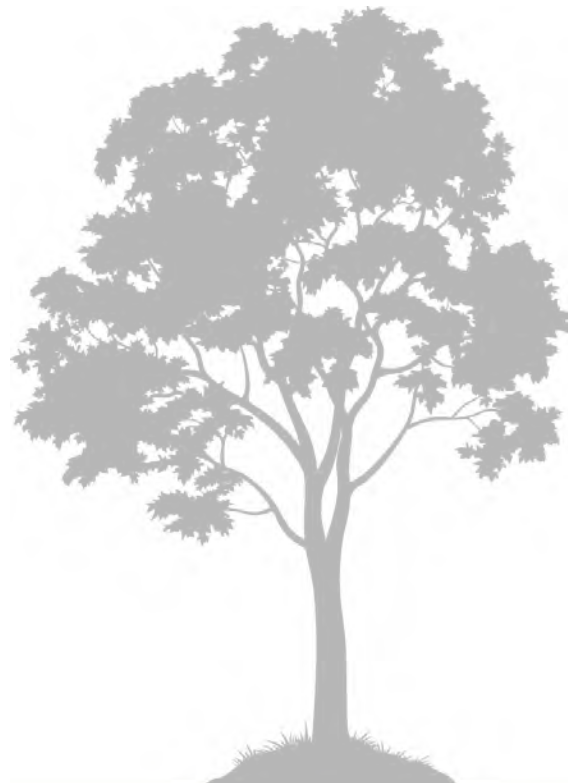
Specialized Skills: The HBC team will apply a number of specialized skills to the investigation that will save time and cost. Our subcontractor, GFA, owns and operates one of the largest and most diverse fleets of drilling equipment in the state. Their fleet includes track and truck mounted equipment and limited access rigs for tight spaces, low overhead conditions, and overwater work allowing us to access almost any drill site. In addition to direct push and conventional drilling, they also offer Roto-Sonic drilling services. Their Geoprobe® 8150LS Sonic Drill Rig can be used for many purposes including sampling difficult formations 2-3 times faster over conventional systems.

Landscape Project Approach

The HBC team applies a collaborative design methodology that reflects sensitivity to site context and character through an understanding of the program, schedule, scale, site opportunities and constraints, and local plants and materials. We achieve the success of our projects through the collaborative efforts of our qualified and experienced design team. We apply an interactive design process working closely with our clients to meet their goals and solve the design challenges. We have found that the most effective means to achieving a project's goals is through open communication between all consultants involved and ultimately with the community.

While each project is unique, and requires a degree of customization, the following phases comprise the typical design process we employ:

- Site Inventory and Analysis
- Conceptual Design
- Design Development
- Construction Documents
- Permitting
- Construction Observation



Site Inventory And Analysis

To initiate the design process, our team will compile all the base data provided by the Client including a survey of the property showing base information relative to boundaries, existing vegetation, existing buildings, and infrastructure, and begin the site analysis. We will conduct further field research to analyze site conditions and ratify the information provided. This information will be converted into a graphic format that will enable the entire Team to easily comprehend the project's overall characteristics and attributes, as well as provide a basis for the conceptual design.

It is important to note that prior to commencing work, we recommend obtaining a very detail survey of the existing vegetation (palms, trees, and large shrubs) to include the following information:

- Location of all trees and palms - All trees and palms to be numbered
- Botanical name and common name
- Clear trunk height of large palms
- Overall height of small palms (slender trunk)
- DBH of trees (measured a chest height)
- Conditions of trees and palms (percentage rating)
- Evaluation on trees and palms candidates to be relocated

As needed, we could recommend a professional tree surveyor and a certified arborist to prepare this information. The vegetation survey will serve as based information for us to verify, evaluate and prepare a tree/palm disposition plan for the project.

Public Involvement and Community Awareness Program

HBC Engineering Company its team partners will provide services to coordinate and manage the Community Awareness Program. A Community Awareness Program will be established in coordination with the Town of Davie (Town) Public Information Office (PIO) to guide the information dissemination process to the public. The goal of this program is to create and maintain a favorable public image for Broward County. Tasks will include:

I. Community Database

1. Create a complete database and tracking system of Homeowner/Civic Associations, residents, businesses, schools, public and private agencies along the project corridor affected by this project and that have jurisdiction regarding the corridor.
2. The database will contain property address, property owner's name or contact person, and contact phone number.
3. Database will track complaints and inquiries with follow up information and method of contact including date and time.

II. Public Information Coordination

1. Initiate interaction with the Client to inform and educate stakeholders on design and construction related issues.
2. Schedule public meetings.
3. Meet with stakeholders one-on-one to inform and/or coordinate work when necessary.
4. Collect data and prepare and conduct presentations on design and construction issues.

5. Develop flyers and information for community distribution by consultant or subconsultant.
6. Coordinate with media through the Town's PIO.
7. Distribute Traffic Impact Report (MOT) via e-mail to stakeholders.
8. Perform other related work as required.

III. Address Issues and Questions

1. Issue resolution – initiate response with stakeholder, channel issue information to appropriate party for resolution and follow-up. Track issues/questions to final resolution.
2. Compile and produce regularly scheduled reports indicating status of issues/questions resolution.
3. Compile weekly pending calls report and present items at weekly progress meetings to prompt issues/questions resolution by Consultant and/or Contractor.
4. Maintain daily call logs and provide to Consultant for response.
5. Coordinate delivery of outreach materials such as direct mail, door hangers or other collateral materials.
6. Provide program information to stakeholders requesting information.
7. Verify contractor's resolution status via Consultant's confirmation.

IV. Meetings

1. Attend design and construction progress meetings.
2. Schedule and attend filed meeting with Consultant and stakeholder.
3. Attend public meetings as determined and directed by the Consultant in conjunction with the approved Community Awareness Program and prepare minutes of meetings. It is anticipated that, minimally, public meetings will be conducted at the following stages:
 - a. Pre-construction Public Meeting
 - b. Pre-construction meeting
 - c. Weekly design and construction meetings
 - d. Business and commercial tenants and property owners along the corridor
 - e. Homeowner/Civic Association Meetings
 - f. County Commission staff meetings when requested

Americans with Disabilities Act

The pedestrian facilities will be designed in accordance with ADA requirements to accommodate the physically and visually challenged citizens whose mobility is dependent on wheelchairs and other devices. Our plans will ensure accommodations to provide continuous pedestrian routes during construction in coordination with Broward County standards.

Project Management Approach

Our project management approach is about making your life easy and entails 5 key aspects: The Project Execution Plan will be a living document and a resource for our staff as well as the County for the contract and will include a contact list, scope details/, budget, schedule/milestones, document control process, sub-consultant management process, key issues and stakeholders.

Our Proactive Communication Plan will keep the County, design team and stake holder well informed regarding the project. Our Monitoring Plan will include monitoring of design and construction budget, and our Quality Assurance Plan will ensure constructible and error free plans. The HBC team assembled for this contract represents the optimal balance of experience, creativity, and technical proficiency, thus ensuring more efficient and thorough coordination and successfully addressing the exacting demands of this contract.

The HBC team will be led by Adebayo (Bayo) Coker, P.E. and will be County's single point of contact. Fernando Craveiro will be the Principal-in-Charge, assuring the County receives the level of service you expect. We have a solid process to optimize team coordination which includes Bayo having weekly team meetings with the project team to review milestones and avoid misunderstandings. Bi-weekly updates will be provided to the County and the entire design team. Daily updates will be provided to County's Project Manager, Carolina Bustamante, P.E., as deadlines approach. We will perform team reviews of comments/responses to make sure the entire team is on the same page.

We understand that coordination activities are critical to successful project management and will be handled directly by our project manager, Adebayo Coker, P.E., and with the County's Project Manager, Carolina Bustamante, P.E. There will be no surprises when it comes to communication and the County project manager will get one-page weekly progress summary to keep her informed of upcoming activities and the ones that has already been accomplished including schedule status with 60-day look ahead, budget status and issues requiring County's involvement for resolution. We will proactively coordinate the meeting agendas with the County to keep meetings short and document the minutes within two business days.

Quality Assurance/Quality Control Approach

Our team understands that providing a quality deliverable reduces project delays and cost. HBC will provide Broward County with the utmost technical and professional services for this important project. Our approach to quality focuses on following the quality control plan, identifying review staff early and keeping them informed about the project, and following requirements for phase development and submittals check list. The benefit of this approach is the elimination of unnecessary plan comments and expedited review periods.

HBC will create a project-specific QA/QC plan and it will be managed at the highest level in the Company. Sonny Abia, P.E. will oversee and be an active participant in the QA/QC effort.

We will create a project specific file transfer website to facilitate the QA/QC process and simplify project deliverables between the project team and the County. As a quality control measure to ensure pay items are consistent with the quantity tables and the plans, Microsoft Excel is used to "link" quantity tables with the plans so changes are automatically reflected in multiple plan locations. Another quality control measure we use is the creation of a Microsoft Excel Project comments database. This will include comments received from the County and other agencies. This database serves as a tool for our QC team to track the implementation of comments during phase review submittals.

All teams, including our sub-consultants, will be required to follow the QC plan and our QA audit will confirm it. Jorge Rodriguez, P.E. (TX) will act as the Quality Control Team Manager under the leadership of Edgar Diaz. He will monitor the scope, overall project objectives, deliverables, and schedule to ensure that all are being met in a timely fashion. Working closely with other QA/QC reviewers, Sonny Abia, P.E., and Fernando Fernandez, P.C.M. will oversee all QC/QA efforts. The benefit of their combined experience is a unique understanding between the design, construction and maintenance. Quality control and constructability reviews will take place prior to each submittal phase of all deliverables.

Schedule

We've developed a project schedule that accomplishes the design in 18 months and abides by the key milestones identified in the County's RFP. Upon the Notice to Proceed, we will present the schedule to the Broward County Project Manager for confirmation of the critical milestone activities and schedule durations as provided below consistent with the requirements of the RFP:

- Phase I – Duration of 4 months from the NTP
- Phase II – Duration of 4 months from the NTP
- Phase III – Duration of 4 months from the NTP
- Phase IV – Duration of 4 months from the NTP
- Final Plans, Specifications, and Estimates – Duration of 2 months from the NTP

Schedule updates will be submitted monthly as necessary and include a 90-day look ahead to identify items that could influence the project schedule. Progress reports will also be provided to the project manager with a budget summary and risk management status, as applicable. Payout curves will be submitted to track the design budget with relation to the plan's progress, and cost estimates will be regularly updated to ensure consistency with the programmed construction budget. We extend our proactive approach to the post design phase by conducting a detailed Hand-Off Meeting where all design decisions are conveyed to the construction team for a seamless transition, in addition to being extremely responsive during construction, avoiding delays and potential claims

Construction Observation

The construction phase will commence with the award of the contract for construction. We be available for project review as it directly relates to the Construction Documents. These services shall be oriented toward reviewing the progress of site construction, specifically design and aesthetics of the site work, and preparing written documents advising the Ownership of the items which appear to need correction.

We will assist the Ownership and contractor in the interpretation of the requirements of the Construction Documents and shall render interpretations necessary for the proper execution of the work with reasonable promptness. The HBC team will also review and take appropriate action upon the contractor's submittals, such as RFIs, shop drawings, product data, and samples, but only for conformance with the design concept and with the information given in the Construction Documents. The quality control initiated in the design stages continues through to the construction stage.



TAB 4

Past Performance



Past Performance

HBC's Project Experience

We have been working in South Florida for more than 10 years, and are aware that prior to embarking on further design, it is imperative to present our projects through public involvement meetings and provide proper coordination with public officials to give the opportunity for all stakeholders to share their concerns so we can develop the optimum solutions. HBC has served the South Florida market in projects in which keeping stakeholder apprised of the developments was key and that is our intent on this project.

Examples of projects which demonstrate experience with similar projects, management experience, and familiarity with County regulations are:

- ROADWAY IMPROVEMENTS TO NE 2nd AVENUE FROM NE 69TH STREET TO NE 84TH STREET
- SW 147TH AVENUE RECONSTRUCTION FROM SW 17TH STREET TO SW 26TH STREET
- NORTHEAST TRANSIT HUB ENHANCEMENTS AT THE 163RD STREET MALL
- SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS GROUP/PRIORITY 1
- SR 858/HALLANDALE BEACH BOULEVARD FROM SR 7 TO LAKESHORE DRIVE
- HOLLYWOOD GARDENS SIDEWALK PROJECT, BROWARD COUNTY
- MIAMI CENTRAL HIGH SCHOOL – 1781 NW 95 ST.
- SR 845/POWERLINE RD.
- SW 30 AVE – FROM GRIFFIN RD. TO SW 45 ST., BROWARD COUNTY
- SR 5/US 1/OVERSEAS HWY FROM N. DOLPHIN AVE. TO KYLE AVE.
- I-95 NORTHBOUND & SOUTHBOUND RIGID PAVEMENT REHABILITATION INCLUDING RAMPS
- AUGER WELL REMEDIATION PHASE II – CITY OF MIAMI
- SR 80/SOUTHERN BLVD. SIGNALIZATION IMPROVEMENTS
- SR 821 (HEFT) WIDENING FROM NORTH OF SW 72 ST. TO NORTH OF SW 40 ST.
- SR 713 KINGS HIGHWAY LIGHTING/ST. LUCIE COUNTY
- DISTRICTWIDE PEDESTRIAN LIGHTING RETROFITS
- MIAMI CENTRAL HIGH SCHOOL – 1781 NW 95 ST.

The above list is a sample of the type of projects HBC has been doing since 2006. Over the years we have developed a close relationship with communities and stakeholders. These relationships and our familiarity with Broward County regulations, ordinances, policies, procedures, and permitting processes will be a valuable asset for this contract. Our partners,

- LYEI- Lakdas-Yohalem Engineering, Inc.
- GFA- GFA International, Inc.
- AHC- Archaeological and Historical Conservancy, Inc.
- AMLA- Andres Montero Landscape Architecture
- PDS- Premiere Design Services, Inc.
- DCS- Dickey Consulting Services, Inc
- CECOS- Cryiachs Environmental Consulting Services, Inc.

similarly possess considerable experience and relationships within the community in their areas of expertise to ensure the smooth delivery of this contract.

Moreover, in recognition that success to completing this contract requires a seasoned engineer with the ability to develop roadway concepts that meet county and community expectation, we selected Adebayo Coker, P.E. to serve as our Project Manager. Bayo's understanding of Broward County, and having worked for FDOT for a number of years, provided him with experience on multiple roadway design projects and that makes him the ideal leader for this project.

Acting as an extension of Broward County's staff, Bayo will protect Broward County's interests throughout the process from early collaboration between the county and the community to develop a master plan, scheduling, coordination and overseeing the design, attending meetings, and providing monthly reporting on the project's progress throughout the life of the contract

Knowledge and Past Experience on Similar Projects

Our success can be seen in our design projects as evidenced and detailed in the example projects this proposal. Our staff provided engineering services to prepare construction plans on many similar projects for the Florida Department of Transportation, Miami-Dade County, and other clients.

Past Experience on Similar Projects in Broward County

This list of past experience on similar projects in Broward County is just a sample of a large number of examples. These projects were selected because they cover all relevant aspects of design, studies, permitting, and reporting that are needed for this project. A more comprehensive list of projects is supplied below.



HBC's Projects with Similarities or Relevance to Pine Island Rd. Project

Project Name	Roadway Design	Drainage	Utilities	Bicycle Facilities	Lighting	Sidewalk	Signing and Pav. Marking	Traffic	MOT	Geotechnical Engineering	Landscape	Public Involvement	Key Personnel	Role	FDOT Relevant Technical Category
ROADWAY IMPROVEMENTS TO NE 2 AVE. FROM NE 69 ST. TO NE 84 ST. (SEGMENT D) SW 147 AVE.	★	★	★	★	★	★	★	★	★	★	★	★	Adebayo Coker, PE; Jose Lopez, PE; Orlando Penate, PE; Hernan Lugo, PE, Edgar	EOR, PM, Other	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
RECONSTRUCTION FROM SW 17 ST. TO SW 26 ST.	★	★	★	★	★	★	★	★	★	★	★	★	Adebayo Coker, PE, Edgar Diaz, MS, PE	EOR, Other	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
NORTHEAST TRANSIT HUB ENHANCEMENTS AT THE 163 ST. MALL	★	★	★	★	★	★	★	★	★	★	★	★	Adebayo Coker, PE, Edgar Diaz, MS, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS GROUP/PRIORITY 1	★	★	★	★	★	★	★	★	★	★	★	★	Adebayo Coker, PE; Jose Lopez, PE; Orlando Penate, PE; Hernan Lugo, PE, Edgar Diaz, MS, PE	EOR, Other	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
SR 858/HALLANDALE BEACH BOULEVARD FROM SR 7 TO LAKESHORE DRIVE	★	★	★	★	★	★	★	★	★	★	★	★	Adebayo Coker, PE, Edgar Diaz, MS, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
HOLLYWOOD GARDENS SIDEWALK PROJECT, BROWARD COUNTY		★	★	★		★	★	★	★	★	★		Adebayo Coker, PE	EOR, PM	4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
MIAMI CENTRAL HIGH SCHOOL – 1781 NW 95 ST.	★	★	★	★	★	★	★	★	★		★		Adebayo Coker, PE, Jose Lopez, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
SR 845/POWERLINE RD.	★	★	★		★	★	★	★	★	★		★	Adebayo Coker, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
SW 30 AVE - FROM GRIFFIN RD. TO SW 45 ST., BROWARD COUNTY	★	★	★		★	★	★	★	★	★	★	★	Adebayo Coker, PE, Edgar Diaz, MS, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.2; 7.3; 8.1; 9.1
SR 5/US 1/OVERSEAS HWY FROM N. DOLPHIN AVE. TO KYLE AVE.	★	★	★				★		★			★	Adebayo Coker, PE, Edgar Diaz, MS, PE	EOR, PM	3.2; 4.1.1; 7.1; 7.3; 8.1; 9.1
I-95 NORTHBOUND & SOUTHBOUND RIGID PAVEMENT REHABILITATION INCLUDING RAMPS	★		★				★		★				Adebayo Coker, PE; Edgar Diaz, MS, PE	EOR, PM	3.2;
AUGER WELL REMEDIATION PHASE II - CITY OF MIAMI	★	★	★						★				Adebayo Coker, PE	EOR, PM	3.2; 4.1.1; 8.1
SR 80/SOUTHERN BLVD. SIGNALIZATION IMPROVEMENTS	★		★				★	★	★				Jose Lopez, PE, Edgar Diaz, MS, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.3; 8.1; 9.1
SR 821 (HEFT) WIDENING FROM NORTH OF SW 72 ST. TO NORTH OF SW 40 ST.	★		★				★		★				Adebayo Coker, PE; Edgar Diaz, MS, PE	EOR, PM	3.2; 4.1.1; 6.1; 7.1; 7.3; 8.1; 9.1
SR 713 KINGS HIGHWAY LIGHTING/ST. LUCIE COUNTY			★		★								Orlando Penate, PE; Edgar Diaz, MS, PE	EOR, PM	4.1.1; 7.2;

Past Experience on Similar Projects in Broward County

This list of past experience on similar projects in Broward County is just a sample of a large number of examples. These projects were selected because they cover all relevant aspects of design, studies, permitting, and reporting that are needed for this project. A more comprehensive list of projects is supplied below.





Client

Miami Dade Dept. of Transportation

Contact

Luis Baldo

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Duration

05/2016-12/2019

Scope

\$750,000.00

Project Description

HBC Engineering Company (HBC) was selected by the Miami-Dade County Department of Transportation & Public Works (DTPW), as part of a Design-Build Team for the roadway improvements to NE 2 Ave. from NE 69 St. to NE 84 St., a gross distance of 0.953 miles in the City of Miami, funded by The People's Transportation Plan. Mr. Coker, PE, served as the Project Manager/Design Team Manager for development of plans and coordinated the staff's technical approach and was responsible for final documents up to 90% which included design for roadway reconstruction, drainage, lighting, signalization, roadway reconstruction, landscaping, preparation of specifications as well as public involvement.



Drainage system design including ICPR Modeling of 2,162 LF of French Drain and more than 125 interconnected drainage structures. HBC was responsible for the drainage report and permitting. In applying for the Class II DERM Permit for the new NE 2nd Avenue drainage system between NE 79th and NE 84th Streets, DERM's Pollution Review Section (PRS) required identifying and evaluating contaminated sites within the project limits which had not been identified in the design-build scope. Four sites were identified:

- IW5-9500 – St. Jude Dry Cleaners, 8242 NE 2nd Ave.
- UT-1486 – Yves Repair Shop, 8280 NE 2nd Ave.
- UT-6795 – Lubins Development Corp., 7831 NE 2nd Ave.
- UT-1184 – Unico Service Station, 7553 NE 2nd Ave.

A thorough review and evaluation of the DERM PRS electronic records for the above 4 contamination sites indicated that the sources of contamination had been removed and remediated at the 3 sites prior to 1997 except for UT-6795 which was removed in 2008. Three of the businesses no longer exist: IW5-9500,

UT-1486, and UT-6795. However, DERM insisted that there was residual contamination. In lieu of further analysis or remediation, DERM then issued the permit that allowed installing straight drainage pipe and water main with Viton joints in the contaminated areas. Further, DERM required installing a manatee grate at the emergency outfall in Little River Canal.

Jose Lopez, PE, as Deputy Project Manager, was responsible for the widening and reconfiguration design of 5,016 feet of the four (4) lane roadway segment. Design improvements included the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, and sidewalk reconstruction. Design also involved new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, signing and pavement marking (SPM) and the preparation of Temporary Traffic Control Plans (TTCP). Coordination was also an important task between all design disciplines such as roadway, signalization, SPM, street lighting, landscaping, drainage, water main lines, utilities, and environmental, while maintaining the project on schedule. Project included extensive public involvement and utility coordination.



SW 147th Ave. Reconstruction from SW 17th St. to SW 26th St.

Miami-Dade County, Florida

Client

Miami-Dade Parks and Recreation

Contact

Lydia Salas

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Duration

06/2008-09/2012

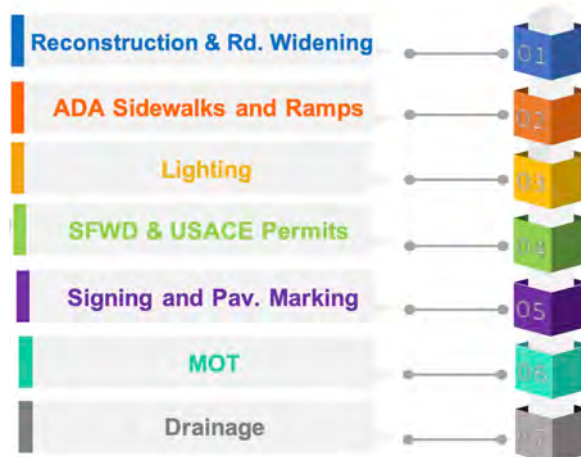
Scope

\$140,000.00

Project Description

HBC Engineering Company (HBC) was selected by Miami-Dade County Parks and Recreation Department as prime consultant for the preparation of the roadway design, construction documents, and specifications. Additionally, post-design and construction administration services were provided. Services performed included the preparation of horizontal and vertical geometry, milling and resurfacing, widening to accommodate the proposed template, roadway reconstruction, sub-soil excavation of unsuitable materials, ADA ramp upgrades, drainage design, sidewalk construction and repair, evaluation of the existing drainage system, preparation of design reports, maintenance of traffic, and signing and pavement marking.

The most critical achievement was the geometric realignment of the roadway to mitigate the impact by using a reduced roadway footprint through existing hardwood tree island from NW 23 St. to NW 17 St.

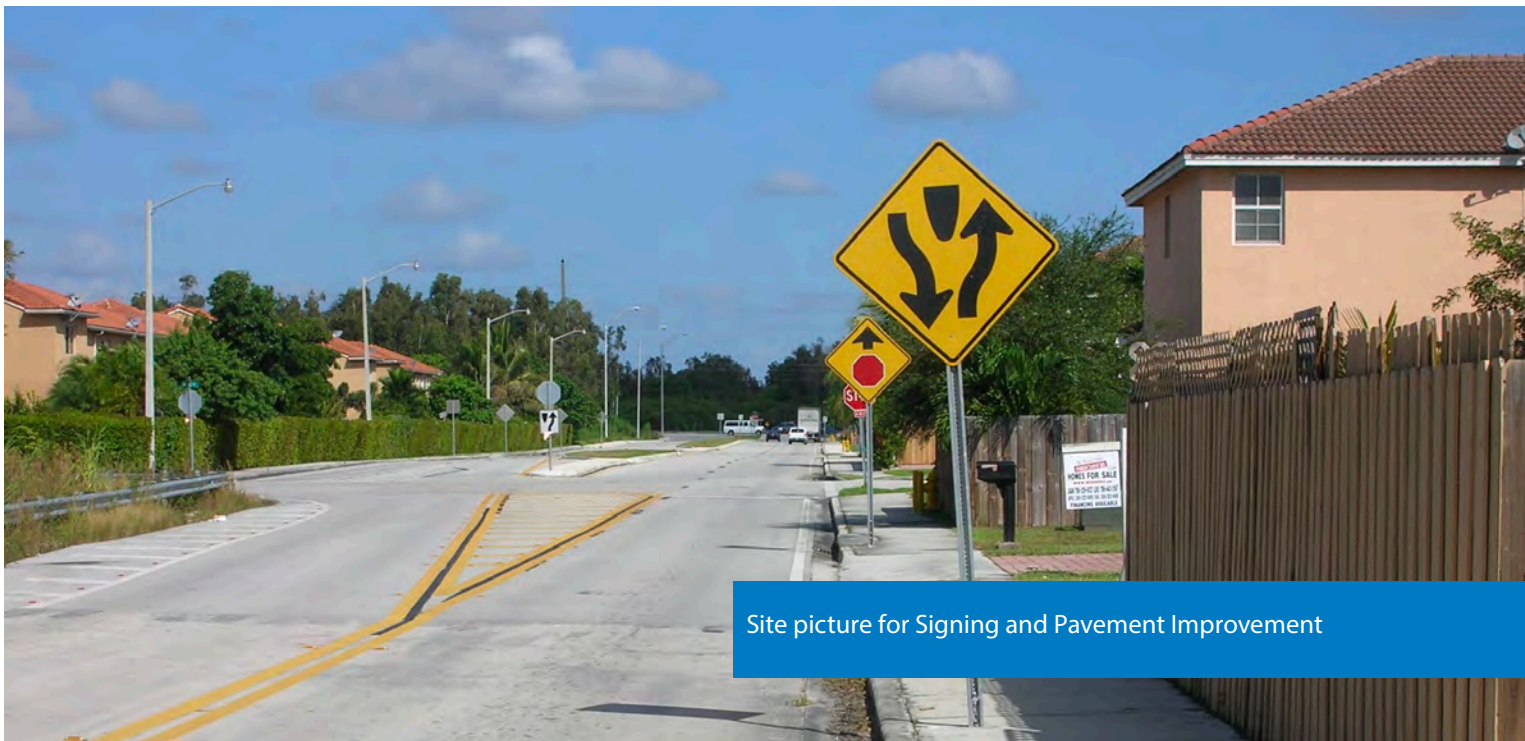
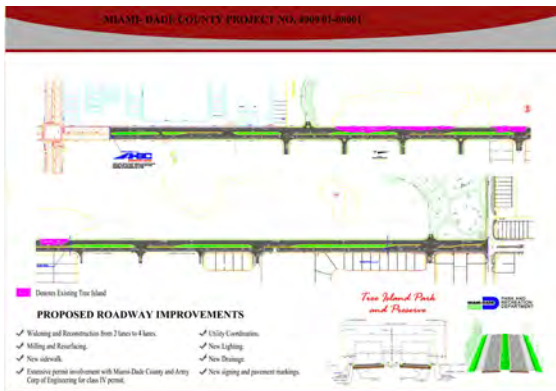


Scope encompassed reconstruction and widening of SW 147 Ave. from SW 17 St. to SW 26 St. in Miami-Dade County. The proposed project extended SW 147 Ave. from SW 23 St. north to 17 St. and widened the existing roadway from SW 26 St. to SW 23 St. from one lane to two lanes in each direction.

The project required extensive coordination for DERM for Class IV, SFWMD for ERP and The US Army Corps of Engineers' permits, ROW dedication in coordination with Miami-Dade Public Works, relocation of water main by WASD, Notice of Intent with Florida DEP for stormwater discharge, and petition to environmental quality control board (EQCB) for variances to code requirements for construction in the tree island.

The design was conducted in accordance with the Miami-Dade Public Works design, construction standards, and specifications; in compliance with the requirements of all federal, state and local regulatory agencies having jurisdiction during construction.

The design process was overseen by HBC Project Manager, Mr. Adebayo Coker, PE, who was responsible for the design and preparation of overall construction plans including signing and pavement marking, drainage design and structures sheets, cross sections, stormwater pollution prevention plan, pavement design, typical section sheet, lighting, and MOT. Mr. Coker reported to Ms. Lydia Salas, PE, of Miami-Dade Parks and Recreation and provided monthly updates of the project progress. He was also responsible for the coordination of the project with key stakeholders.



Site picture for Signing and Pavement Improvement

Northeast Transit Hub Enhancements at the 163rd St. Mall

Miami, Florida



Client

Miami-Dade Transit

Contact

Orlando Capote

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Duration

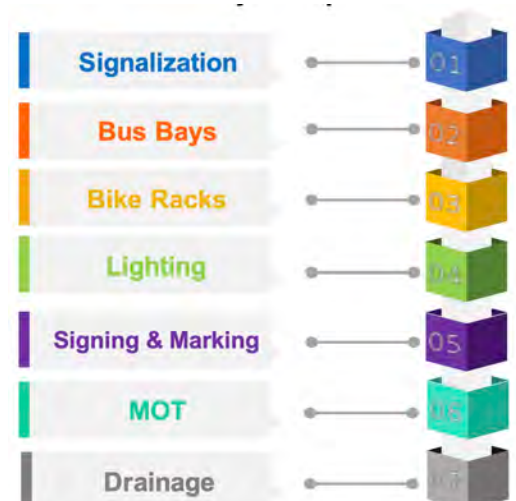
04/2011-11/2016

Scope

\$261,000.00

Project Description

HBC Engineering Company (HBC) was retained by Miami-Dade County Transit (MDT) to prepare construction documents for the Northeast Transit Hub Enhancements (NETHE) project along with providing construction administration and inspection services. The project consists of improvements to bus passenger facilities and roadways with the following design features: Full roadway reconstruction with new drainage, lighting, signing and marking, sidewalk, ADA ramps, bus shelters, six (6) Saw Tooth Bus Bays with 9" thick concrete bus pad, bike racks, trash receptacles, pedestrian lighting, bike lane and landscaping within the segment of NW 167 St. between NW 14 Ct. and NW 15 Ave. Also, widening, milling and resurfacing to facilitate construction of three longitudinal on street bus bays with standard MDT slim bus shelter, lighting, sidewalk, ADA ramp upgrade, landscaping, bike racks and trash receptacle within the segment of NW 15 Ave. between NW 167 St. and NW 165 St.



HBC's Project Manager, Mr. Coker, PE, was responsible for the final design, preparation of complete permittable, biddable, signed and sealed set of plans, calculations and specifications to provide to the permitting agencies and selected contractor, submit for Dry Run permitting and prepare an Engineer's Estimate of probable construction costs at each phase of the construction drawings in the format required by MDT.

HBC coordinated the construction easements and license agreements with jurisdictional agencies and organizations with interest in the project, such as Miami-Dade Transit (MDT), Miami-Dade Public Works and Waste Management (PWWM), Florida Department of Transportation (FDOT) which had oversight responsibilities for the project since it was federally funded, the City of North Miami Beach, The Mall at 163 St. and an adjacent Walmart.

The design was successfully completed on time and final bid was within the established budget and schedule. The design utilized Miami-Dade Public Works (MDPW) and FDOT standards for the Roadway and Maintenance of Traffic design along with Miami-Dade Transit requirements.



Drone photos of NETHE Construction site

SR 7/ US 441 Transit Corridor Improvements Group / Priority 1

Broward County, Florida

Client

FDOT District 4

Contact

Robert Lopes, P.E.

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Duration

10/2018-10/2021

Scope

\$1,670,000.00

Project Description

HBC Engineering Company (HBC) was selected by FDOT to provide design services for a Transit Corridor Improvements Group along SR 7/US 441. Design services were for two (2) of the eight (8) contracts approved by the Broward MPO in July 2016, summarized below, and were developed with the purpose of enhancing the corridor's transit passenger, bicycle and pedestrian experience through mobility, as well as, safety improvements along SR 7.

HBC's Project Manager, Mr. Coker, PE, provided team leadership and was responsible for the design and preparation of overall construction documents based on current design criteria, bulletins and field conditions. Elements included development of CAP, general roadway and drainage reviews, signing and pavement marking, utilities and permit coordination, pedestrian signal and lighting enhancements, sidewalk and bicycle lane and landscaping enhancements.



Design scope addressed improvements along SR 7/US 441 from Broward Miami-Dade County Line to North of Sample Road and SR 858/Hallandale Beach Blvd. from Edmund Road to SW 58 Ave. (FPID 429576-2-52-01) and consisted of the following:

1. Lighting retrofits at 14 intersections
2. Countdown pedestrian signals at 25 intersections
3. New mid-block crossing with pedestrian signal and lighting north of Broward Blvd. on SR 7/US 441
4. Sidewalk and bike lane improvements along SR 858/Hallandale Blvd. from west of Edmund Rd. to east of SW 58 Ave.

Design improvements along SR 7/US 441 between Oakes Rd. and the New River Greenway and SR 838/Sunrise Blvd. from SR 7/US 441 to NW 31st Ave. (FPID 429576-3-52-01) consisted of the following:

1. Shared use path along the east side of SR 7/US 441 between Oakes Rd. and New River Greenway
2. Sidewalk on east side of SR 7/ US 441 connecting Orange Dr. to Oakes Rd.
3. Shared use path along North Fork New River between SR 7/ US 441 and NW 31st Ave.



Hallandale, Florida



Client

FDOT District 4

Contact

Jim, Hughes

Project Engineer

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Duration

02/2012-10/2014

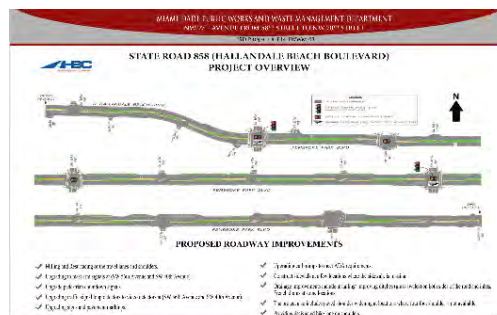
Scope

\$900,000.00

Project Description

HBC Engineering Company (HBC) was selected by the Florida Department of Transportation to provide design services for the milling and resurfacing project on Hallandale Beach Blvd. from east of SR 7 (MP 0.233) to west of Lakeshore Drive (MP 2.176). The length of the project is approximately 1.943 miles (10,259 feet).

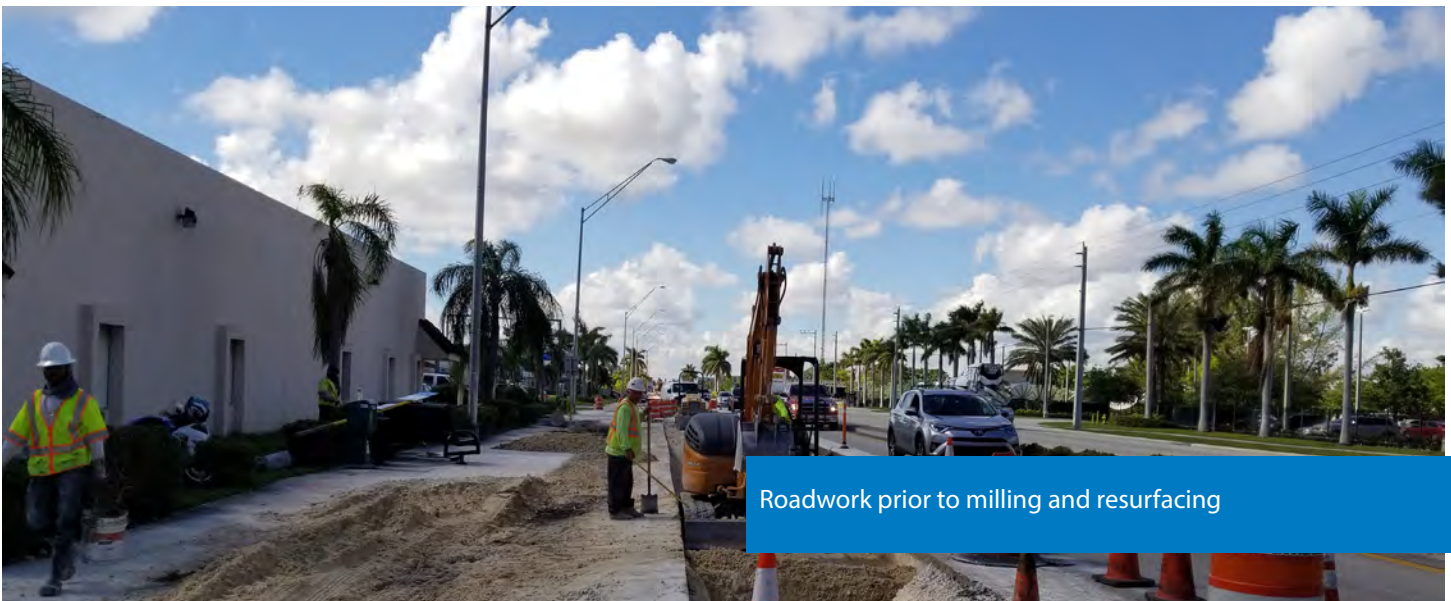
Within the project limits, Hallandale Beach Blvd. is a divided four-lane roadway with two 12' wide lanes in each direction, a raised inside median, and 6' shoulders (5' paved and 1' unpaved) and 5' sidewalk on both sides. HBC serving as prime consultants oversaw preparation of the master plan and design and construction documents for the RRR milling and resurfacing project including ADA ramp and sidewalk upgrade, widening of the existing shoulder as necessary to provide 5' paved (for bicycle lane) and 1' unpaved shoulder, restoration of grass swale where possible in sections that have been filled in with asphalt and reported to be ponding, drainage analysis and design to address existing flooding conditions throughout the corridor, new signing and pavement marking, and signalization replacement.



1. Field reviews and kickoff meeting with FDOT's Project Manager
2. And key staff to define and set the project Scope of Work.
3. Initial utility contact and utility coordination, (this was done early in the design phase to avoid delays).
4. Oversaw the survey and data collection.
5. Prepared and submitted a CAP;
6. Prepared and submitted pavement design, typical section and design exception/variation packages during initial engineering;
7. Performed drainage design and calculations using pond routing software (ICPR) and obtained drainage permit from County and SFWMD;
8. Generated drainage layout including inlets/pipes and drainage cross sections;
9. Generated construction plan for phase submittals at 60, 90, and 100%;
10. Coordinated ROW requirements (including easements, license agreements, etc.) and
11. Public involvement and conducted public information workshops



The design process was overseen by HBC's Project Manager, Mr. Adebayo Coker, PE. Mr. Coker was responsible for the overall project management and reported to the FDOT Project Manager, Mr. James Hughes on the progress and project issues, as necessary. He also maintained close communication with the key stakeholders and the local jurisdictional agencies. The project was successfully completed in 18 months.



Roadwork prior to milling and resurfacing

Hollywood Gardens Sidewalk Project

Broward County, Florida



Client

FDOT District 4

Contact

Kenzot Jasmine, P.E.

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state.fl.us

Duration

01/2015-12/2017

Scope

\$555,000.00

Project Description

HBC ENGINEERING COMPANY (HBC), was selected to provide design engineering services for FDOT's FPID 434679-1-32-01 for various locations in Hollywood Gardens, Broward County. This project is a Broward County MPO Complete Streets initiative project to design sidewalks to fill in gaps and/or replace existing damaged sidewalk on multiple streets within the Hollywood Gardens Beach area which is bounded by Hollywood Blvd. in the south, Johnson St. in the north, SR 7/US 441 in the west and 56th Ave. in the east.



Mr. Coker, PE, HBC's Project Manager was responsible for the design and oversaw the following services which included:

- Utility coordination
- Preparation of the drainage report for minor drainage improvements as required
- Design of sidewalk to harmonize and match with existing
- Landscape coordination issues
- New sidewalk design
- Design of bike lanes and shared lanes

The final plan set deliverable included typical section details, drainage structures, roadway plans, SWPPP and Temporary Traffic Control Plans.

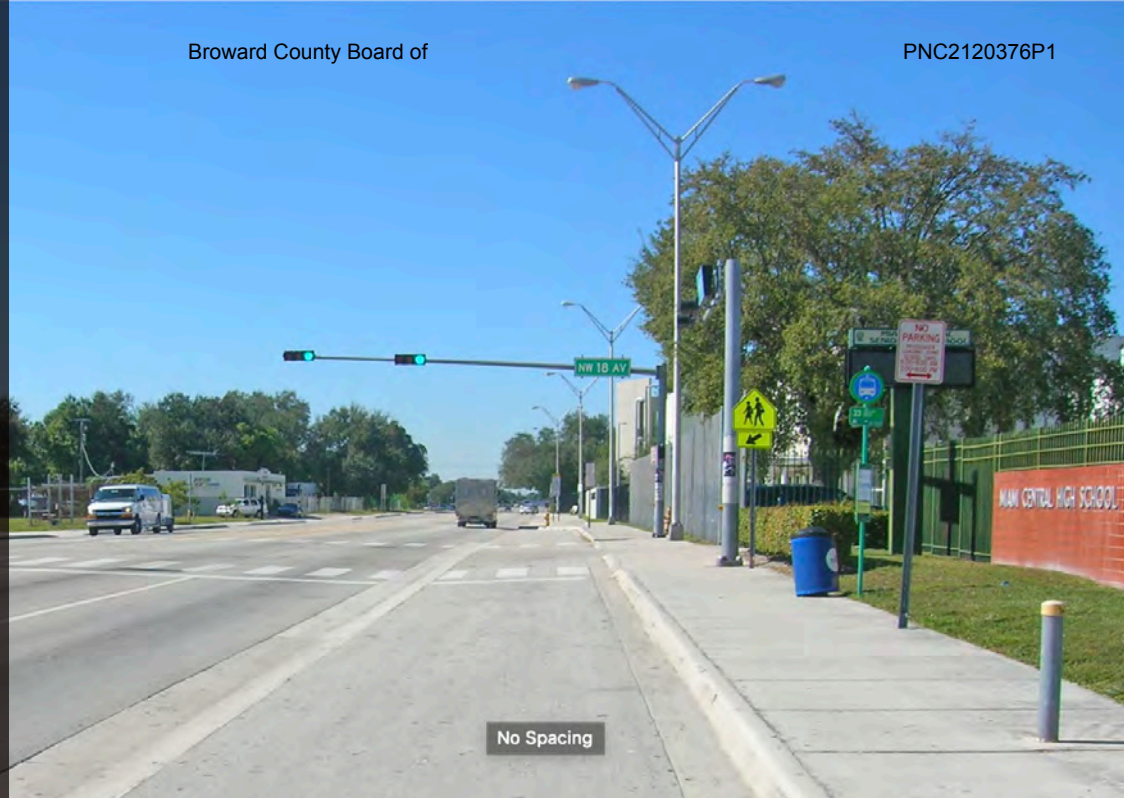
Challenges with the public and controversial issues that were considered and addressed in the design process of this project were:

1. Construction of sidewalk would go through driveways and in some cases affect landscaping generated by property owners
2. Construction will require adjustment of parking, fencing or other features encroaching in the ROW
3. Road side ditches, French Trench and Bioswale will be installed to compensate for the
4. new proposed sidewalk
5. Sidewalk connections to flush shoulders at crosswalks will be retrofitted with
6. truncated domes or designed to satisfy Index 304 where sidewalk is reconstructed to
7. align with road
8. All existing median openings are to remain
9. Restriping of some the shared shoulder is 4-feet
10. A list of utility elements conflicting with the proposed design will be provided to the
11. utility companies during the coordination



Miami Central Highschool – 1781 NW 95th St.

Miami, Florida



Client

Miami-Dade Public Schools

Contact

Don Bailey

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Duration

10/2010–5/2012

Scope

\$7,000.00

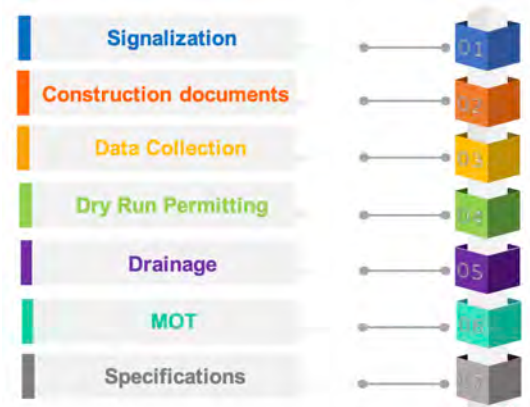
Project Description

HBC Engineering Company (HBC) provided the design and preparation of a complete set of construction contract documents and technical specifications for the installation of a traffic signal in the southwest quadrant of N.W. 95th St. and N.W. 18th Ave. to serve traffic exiting Miami Central Senior High School on the proposed bus drop-off lane. The civil site services associated with this project include the design, permitting, utility coordination, and construction assistance for this project.

Phase 1 – DATA COLLECTION

A. Project Kick-off – Project Kick-Off meeting with B.A. Carmona and Associates' (Architects) representatives to introduce the project team, establish the goals, and schedule for the project.

B. Existing Conditions Analysis – Conduct site visits to evaluate, verify and photographically document existing topographic conditions and surrounding influences.



C. Land Use, Planning, and Design Criteria – Review available Jurisdictions, Land Use, Zoning, and other Development classifications specified for the subject site and surrounding area.

D. Surface Water Management – Review required water management permits obtained Architects.

E. Geotechnical/Topographic Survey – Review Geotechnical/Topographic provided by others.

Phase 2 – CONSTRUCTION PLANS

Prepare plans set to include the following sheets necessary to convey the intent and scope of the project for the purposes of construction:

- General Notes/ Summary of Quantities
- Traffic Signal Plan Sheet
- Miscellaneous Detail Sheets (as applicable)
- Soil Survey Sheet (by Geotechnical Sub consultant)
- Traffic Control Plan Sheet (as applicable)

A.. Signal Design Report – Prepare a Signal Design Report and design the traffic signal to

meet all required design standards including Miami-Dade County Public Works – Traffic Division

B. Utilities – Perform initial utility contact to identify utility facilities to verify conflicts between utility facilities and the proposed signalization design.

Phase 3 – DRY RUN PERMIT

A. Preliminary Project Research – Identify and list all agencies with jurisdictional authority for the subject site and coordinate with them to assure that design efforts are properly directed toward permit requirements.

B. Plans Submittal to Building Department – Submit design plans to Miami-Dade County Building Department for dry run comments and provide revisions as necessary to facilitate permit approval.

Phase 4 – Bid and Award Service – Assist in reviewing bids for the construction of the signal, prepare appropriate response to questions, and provide clarification to the construction plans and documents.

Phase 5 – Post Design Services – Respond to Requests for Information (RFI), interpretation of construction plans and documents, and provide engineering solutions to changed conditions encountered in the field.



SR 845 / Powerline Rd. SR-845 from N of 19th St.

Ft. Lauderdale, Florida



Client

FDOT District 4

Contact

Thuc Le

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Duration

08/2015-6/2016

Scope

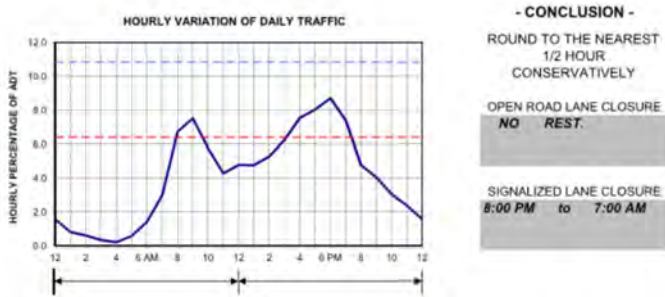
\$303,993.00

Project Description

HBC Engineering Company (HBC) was selected by the Florida Department of Transportation for the design and preparation of a set of construction contract plans and special provisions, for the milling, resurfacing, upgrades and safety improvements to SR 845 (Powerline Rd.) from +/- 1000 feet north of NW 19th Street intersection (M.P. 1.250) to NW 29th Street (M.P. 1.800). Powerline Rd. is classified as urban arterial with six-lane divided typical of approximately 0.55 mile in length, traverses within the Cities of Fort Lauderdale and Wilton Manors, between north of NW 19th Street to the intersection of NW 29th Street in Broward County. The existing travel lane is typically 11 ft. wide separated by a raised median with the posted speed limit at 45 MPH. Project consisted of two FPID Nos. 430604-1-52-01 & 428731-1-52-01.



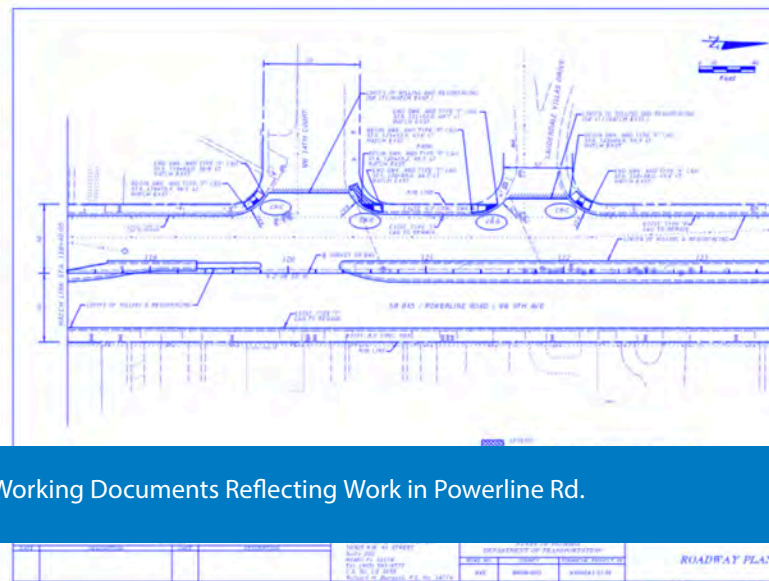
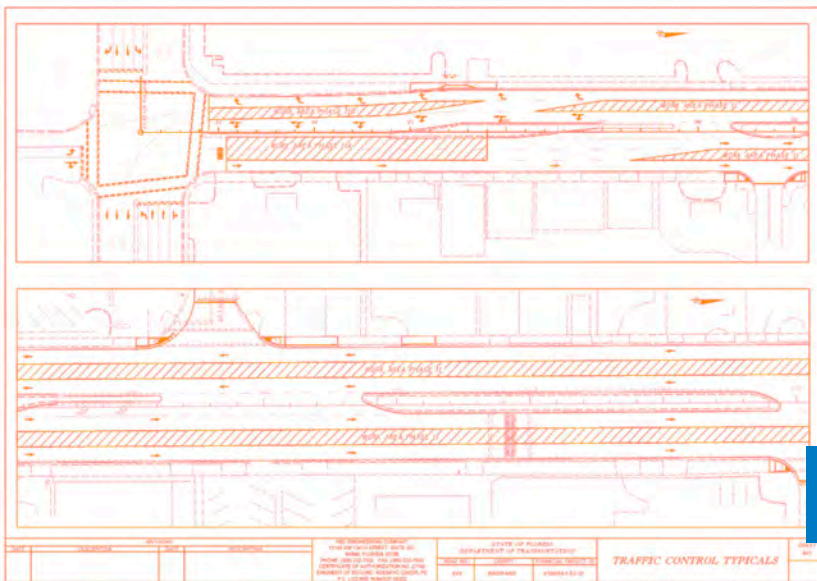
HBC's Project Manager, Mr. Lalanne, PE, was responsible for the design process and management of the design with oversight of construction plans including signing and pavement marking, drainage design, cross sections, stormwater pollution prevention plan, pavement design, typical section sheet, lighting, signalization and MOT. Mr. Lalanne reported to Mr. Thuc Le, PE, with FDOT District 4 and provided monthly updates of the project progress



Typical duties and responsibilities performed by HBC's Team to accomplish the scope of design services include but were not limited to:

1. Field reviews and kickoff meeting with FDOT's Project Manager and key staff to define and set the project Scope of Work.
2. Prepared and submitted a Community Awareness Plan (CAP).

3. Initial utility contact and utility coordination and updating plans to reflect utility mark-ups.
4. Roadway analysis and plans.
5. Coordinated geotechnical boring and pavement work.
6. Prepared and submitted pavement design, typical section and design exception/variation packages during initial engineering.
7. Coordination drainage design and calculations and drainage layout including inlets/pipes and drainage cross sections.
8. Prepared signing and pavement marking plans.
9. Coordinated signalization plans.
10. Generated construction plan for phase submittals at 60, 90, and 100%.
11. Coordinated ROW requirements (including easements, license agreements, etc.).



Working Documents Reflecting Work in Powerline Rd.

SW 30th Ave from Griffin Rd. to SW 45th St.

Broward County, Florida

Client

FDOT District 4

Contact

Brent Lee Shue Ling

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Duration

08/2013-7/2017

Scope

\$637,000.00

Project Description

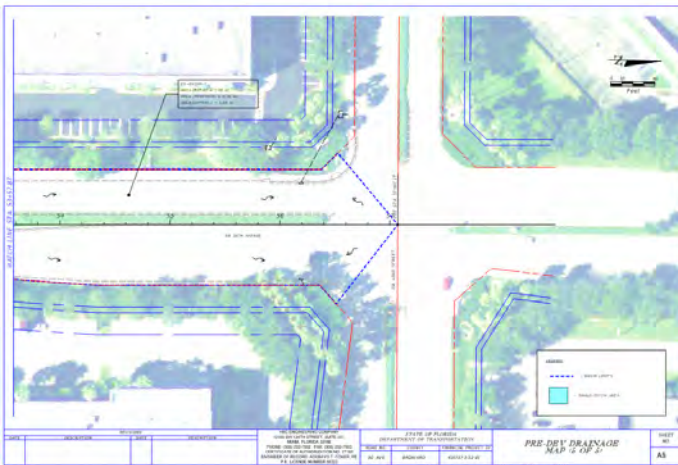
HBC Engineering Company (HBC) was selected by the Florida Department of Transportation to provide design services for widening SW 30th Ave., from two (2) lanes to four (4) lanes, from Griffin Road to SW 45th St., and new signing and pavement markings from SW 45th St. to 42nd St. SW 30th Ave., is a Broward County operated and maintained facility and will remain so after the completion of this project. The intent of this project was to extend service life, improve operating characteristics and conditions and enhance safety. Improvements included new bike lanes, filling in missing sidewalk gaps, addressing ADA deficiencies, upgrades to lighting, upgrade drainage systems, signalization retrofits, new signing and pavement markings and landscaping.



HBC's Project Manager, Mr. Roger Lalanne, PE, was responsible for the design process and management of the design services contract with oversight of overall construction plans including signing and pavement marking, drainage design and structures sheets, cross sections, stormwater pollution prevention plan, pavement design, typical section sheet, lighting, signalization and MOT. Mr. Lalanne reported to Mr. Brent Lee-Shue-Ling, PE, with FDOT District 4 and provided monthly updates of the project progress. He was also responsible for the coordination of the project with key stakeholders.

Typical duties and responsibilities performed by HBC's Team to accomplish the scope of design services include but were not limited to:

1. Field reviews and kickoff meeting with FDOT's Project Manager. and key staff to define and set the project Scope of Work.
2. Prepared and submitted a Community Awareness Plan (CAP).
3. Initial utility contact and utility coordination and updating plans to reflect utility mark-ups.
4. Coordinating environmental permits.
5. Roadway analysis and plans.
6. Coordinated geotechnical boring and pavement work.
7. Prepared and submitted pavement design, typical section and design exception/variation packages during initial engineering.
8. Coordination drainage design and calculations and drainage layout including inlets/pipes and drainage cross sections.
9. Coordinated structural design.



Vicinity Map

SR 5/ US 1/ Overseas Highway from N. Dolphin Ave. to Kyle Ave.

Miami-Dade County, Florida



Client

FDOT District 6

Contact

Vilma Croft

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Duration

08/2011-10/2013

Scope

\$432,000.00

Project Description

HBC Engineering Company (HBC) was selected by FDOT as a prime consultant for this project and was tasked with the preparation of the roadway design, construction documents, and specifications.

This project encompassed the milling and resurfacing of SR 5/US 1 from N. Dolphin Ave. (MM 54.5) to Kyle Ave. (MM 57.4). Within these limits, SR 5/US 1 is a two (2) lane (one lane each direction) undivided roadway traveling in the NE/SW direction and serves as an important connector between the Florida Keys chain of islands and the Florida mainland. The primary objective of the project was to resurface and rehabilitate the existing pavement; enhance the operational characteristics, upgrade the performance and safety conditions, and construct 10 feet paved northbound evacuation shoulder lane in conformance with the Florida Keys Hurricane Evacuation Study.



The design process was overseen by HBC's Project Manager, Mr. Adebayo Coker, PE, who was responsible for the design and preparation of overall construction plans including signing and pavement marking, drainage design and structures sheets, cross sections, stormwater pollution prevention plan, pavement design, typical section sheet, and mot. Mr. Coker reported to the Ms. Vilma Croft, PE FDOT PM, FDOT's Project Manager. The following elements were also overseen by Mr. Coker.

1. Public involvement
2. Utility coordination and sub surface investigation
3. Repaving, resurfacing and cross slope correction using overbuild.
4. Widening of the NB and SB shoulders to 10' and 5' paved respectively.
5. Installation of rumble strips.
6. Re-grade of roadside slopes for stormwater treatment.
7. New signing and pavement marking and striping for bicycle facility.
8. Drainage design and drainage cross section
9. Environmental permitting and wetland mitigation.
10. Post design construction services.

Among critical elements of importance considered during design, were wetlands on both sides of the corridor, adjacent Curry Hammock State Park, existing shared use path on the west side, Florida Keys evacuation in event of an emergency, bicycle-pedestrian marking inside or within urban development boundary, and transition between the ongoing project (FM# 419854-1-52-01) on the southernmost limits of this project and recently completed project (FM# 405582-6-52-01) on the northernmost limits of this corridor. Impacts to wetlands and water quality were avoided/minimized to the greatest extent practicable.



Field Observations

SR 80 / Southern Blvd. Signalization Improvements

Miami, Florida

Client

FDOT District 4 / Stantec

Contact

James Hughes, P.E.

P: 954-777-4419

E: james.hughes@dot.state.fl

Duration

05/2012-06/2018

Scope

\$40,000.00

Project Description

HBC Engineering Company (HBC), was tasked to design and prepare the signalization plans for FDOT project (FPID No. 419345-2-32-01) for the widening and milling and resurfacing on SR 80/Southern Blvd. from west of Lion Country Safari Road to Forest Hill/Crestwood Blvd.

Mr. Lopez, PE, Project Manager, was responsible for the development and preparation of the final signalization plans. Coordination with all stakeholders was an integral function during the signalization design.



Plan elements included, signalization at seven (7) intersections with internally luminated sign panels, video detector and controller cabinet details, Summary of Pay Items, General Notes, Interconnect Plans, Guide Sign Worksheet, Special Service Point Details, Strain Pole Schedule.

Resulting from a review of crash data and information provided by FDOT, Palm Tran, and Palm Beach County, a full signal at the intersection of SR 80 and "D" Road that includes a pedestrian crosswalk was included as an optional service to the original design scope. HBC performed a Signalization Analysis and included the design in the final plans.



SR 821 (Heft) Widening from North of SW 72nd St. to North of SW 40th St.

Homestead, Florida



Client

FDOT District 6 / MCM /
Gannet

Contact

Stephanie Sharp, P.E.
P: 407-384-4412
E: stephanie.sharp@dot.state.fl.us

Duration

08/2014-12/2017

Scope

\$188,403.00

Project Description

HBC Engineering Company (HBC), provided signalization design services for the Florida's Turnpike Enterprise (FTE) widening and reconstruction of the 2.1-mile section of SR 821/Homestead Extension of Florida's Turnpike (HEFT) from SW 72nd St. (Sunset Dr.) to SW 40th St. (Bird Rd).

Mr. Coker, PE, served as the Design-Build Project Manager for signalization design and improvements for a total of ten (10) signalized intersections under the jurisdiction of Miami-Dade County. Design elements included new signalization loop detectors and assemblies, new and relocated signal heads, electrical power/service, pedestrian heads and detectors, sign panels with internally illuminated signs, video monitors, mast arms and traffic controller assemblies.



[illegible]

District Wide Pedestrian Lighting Retrofits

Miami-Dade County, Florida

Client

FDOT District 6

Contact

Patrick Merchant

P: 305-470-5299

E: patrick.merchant@dot.sate.fl.us

Duration

01/2017-

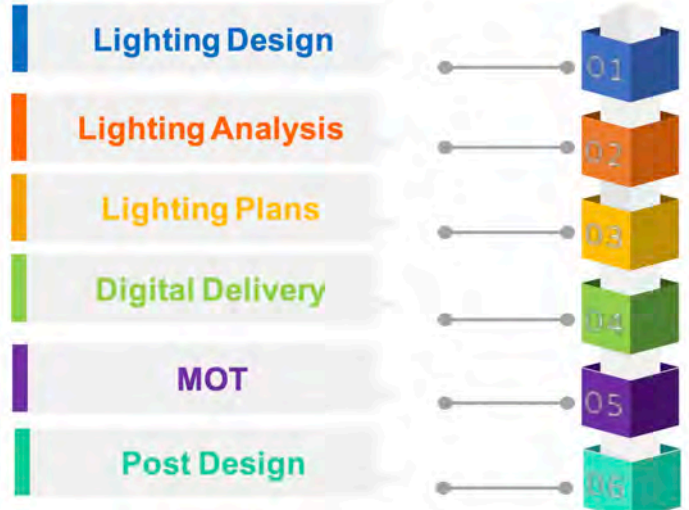
Scope

\$

Project Description

HBC ENGINEERING COMPANY (HBC), was tasked to provide design engineering services for FDOT to retro-fit LED lighting for pedestrian crossings to meet new minimum lighting levels on six (6) main Project (FPID 440170-1-52-01, et al.) locations throughout Miami-Dade County. These services included:

1. Preparing lighting analysis at the pedestrian crossing locations for the new required lighting levels.
2. Provide lighting plan sheets to provide the required lighting levels and
3. Perform digital delivery of the plans.

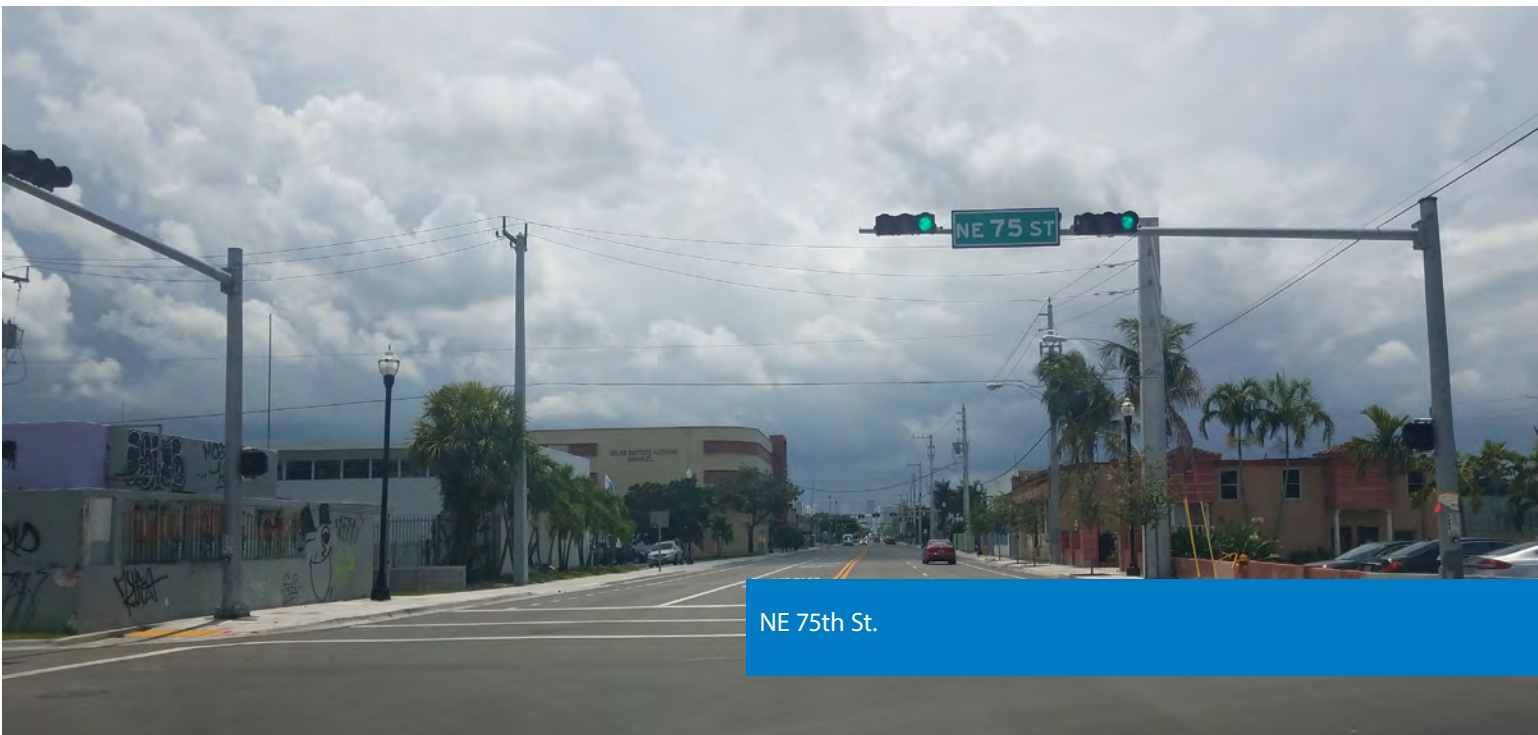


Mr. Penate, PE, HBC's Project Manager was responsible for the deliverables and oversaw the following services:

- Provide a lighting analysis report with photometric requirements showing required illumination levels, horizontal and vertical calculations at the signalized intersections.
- Provide plan sheets with the retrofit lighting required at the signalized intersections.
- Provide Pay Items, Plan Notes, and based on the new lighting design.
- Prepare the digital delivery.
- Provide post design services as needed.



As Project Manager and Engineer of Record, Mr. Penate's typical duties and responsibilities consisted of reviewing existing poles and replacing High Pressure Sodium (HPS) luminaires with Light Emitting Diode (LED) at each signalized intersection and adding new light poles with LED luminaires at specific locations to meet roadway and pedestrian lighting design criteria. Performed calculations through AGi32 simulation tool to run point-by-point photometric analysis. Review for adjustment to load centers, voltage calculations and utilities. Create and document a full inventory of the existing luminaires in order to efficiently identify each owner, manufacturer, and retrofit that would be used in the proposed improvements. Responsibility also consisted of preparing and providing submittals through digital delivery. Design sometimes required Temporary Traffic Control Plans (TTCP), roadway design, surveying services, interdisciplinary and governmental entity coordination. Design also considered environmental and seaward Coastal Construction Control Line (CCCL) along with resolving any landscaping conflict issues.



Our Past Performance means...

We know what it takes to perform: Delivery of this contract requires a well thought out project execution plan identifying all the critical project milestones, risks and requirements, proactive communication plan to capture the public's interest in the transportation decision-making process, monitoring plan to track planned and ongoing design activities, and a Quality assurance plan to ensure quality construction documents. Following this template, the HBC team has successfully completed many roadway reconstruction projects in Miami-Dade County and throughout Florida. We have worked with various departments in Miami-Dade County over the years and have consistently built relationships based on our performance by providing well planned and engineered project, timely responses to resolve issues or concerns, timely submittal of deliverables, and always meeting the project schedules. The best testament for the quality of our work is when our design project is constructed with no claims, zero errors and omissions and high construction grades which we consistently receive from our clients.

We have done our homework: Our team thoroughly understands Miami-Dade County's preferences and concerns for this contract to widen SW 127th Ave from two to four lane divided highway. We have developed a cost-effective design and construction approaches that meets the project commitments and requirements of the Notice to Professional Consultants (NTPC) while providing added value to DTPW and its customers.

We build strong relationships: HBC undertakes each project with a spirit of teamwork and cooperation, building strong interrelationships with both our clients and our subconsultants. HBC has been a member of the local engineering community for more than a decade. During that time, we have provided the planning, design, and construction of some of the area's most important transportation infrastructure projects.

We have a long history working with our subconsultants: In delivering roadway reconstruction projects for FDOT, other local municipalities, as well as clients in different South Florida counties, HBC has regularly teamed many of the subconsultants selected for this contract. This proven ability to work together will promote teamwork and productivity when delivering this project.

We will have responsiveness to County's Needs: As a member of South Florida's engineering community, HBC has demonstrated its responsiveness to our clients' needs on numerous projects.

Over our long history in South Florida, HBC has been part of the delivery of some of the area's most important transportation infrastructure projects including planning, design, and construction administration services for FDOT, DTPW, WASD, PortMiami, and the Miami-Dade Metropolitan Planning Organization (MPO). From this experience, we have developed a deep understanding of Broward County's operations, business practices, and project delivery requirements, and have strong working relationships with representatives at all levels of Broward County's government organization, promoting communications and teamwork. During our delivery of projects, HBC has demonstrated its ability to satisfy clients' requirements in the following ways:

- Fast, efficient mobilization using local resources
- Thorough, careful planning, providing the framework for cost-effective delivery
- Provision of quality work that establishes the standard for excellence and that meets budget and schedule
- Provision of industry experts in a broad array of services, as needed
- Ability to take on the most challenging programs and projects and to deliver them in world-class fashion



TAB 5

HBC's Workload



HBC's Workload for HBC's work history and other considerations regarding workload.

HBC manages its long and short-term workload through a policy of proactive management and resource/ personnel sharing. Our diverse staff wear many hats; we have committed to the time and energy required to meet the schedule requirements of similar contracts in the past and continue to be committed in providing unparalleled service to this contract.

Delays are contained and minimized through routine weekly department/ project meetings aimed at maximizing project scheduling effectiveness. Senior management oversight and weekly interaction guarantees our Teams have those discussions to deliver the projects successfully.

Given our current and projected workloads, HBC has the administrative know-how and the staff to manage large and small work authorizations, the management skills and the technical expertise to ensure top quality is always delivered to Broward County. Given our current and projected workloads, HBC and its subconsultant team can and will provide the personnel and resources required to service the Broward County for this contract.

Adebayo Coker, PE, as the Project Manager and President of HBC, will ensure that adequate office and field personnel are always available as needed for this contract. Since 2018, HBC has substantially increased its overall staff creating more capacity at all levels within the firm. HBC is constantly monitoring staff growth to ensure the proper staff is always available for Clients like Broward County at a moment's notice.



TAB 6

Location



LOCAL AND/OR LOCALLY BASED BUSINESS CERTIFICATION FORM

Subject to certain requirements, Section 1-74, et seq., Broward County Code of Ordinances, provides bidding preferences to Local Businesses and Locally Based Businesses.

To be eligible for the best and final offer ("BAFO") (Section 1-75(a)) or the BAFO tiebreaker (Section 1-75(c)), the Vendor **must** submit this fully completed form and its Broward County local business tax receipt at the same time it submits its bid or response to a procurement solicitation. Vendors who fail to comply with this submittal deadline will not be eligible for either the BAFO or the BAFO tiebreaker.

For all other location preferences, the Vendor **should** submit this fully completed form and all Required Supporting Documentation (as indicated below) at the time Vendor submits its response to the procurement solicitation, and the Vendor **must** submit such form and documentation within three (3) business days after a written request from the County. A Vendor who fails to comply with this deadline will not be eligible for these other bidding preferences.

In accordance with Section 1-74, et seq., Broward County Code of Ordinances, the undersigned Vendor hereby certifies that (check the box for only one option below):

☒ **Option 1:** The Vendor is a **Local Business**, but does not qualify as a **Locally Based Business**, as each is defined by Section 1-74, Broward County Code of Ordinances. The undersigned Vendor further certifies that it has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised), a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements), in an area zoned for the conduct of such business, that the Vendor owns or has the legal right to use, and from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location").

☐ **Option 2:** The Vendor is both a **Local Business** and a **Locally Based Business** as each term is defined by Section 1-74, Broward County Code of Ordinances. The undersigned Vendor further certifies that each of the following statements is true and correct:

- A. The Vendor has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised), a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements), in an area zoned for the conduct of such business, that the Vendor owns or has the legal right to use, and from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location");
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs and controls all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location; and
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date.

☐ **Option 3:** The Vendor is a joint venture composed of one or more Local Businesses or one or more Locally Based Businesses. The Vendor attests that the proportion of equity interests in the joint venture owned by **Local Businesses** (each Local Business must comply with all of the requirements stated in Option 1 above) is _____% of the total equity interests in the joint venture. The Vendor attests that the proportion of equity interests in the joint venture owned by **Locally Based Businesses** (each Locally Based Business must comply with all of the requirements stated in Option 2 above) is _____% of the total equity interests in the joint venture.

☐ **Option 4:** Vendor is not a Local Business or a Locally Based Business, as each is defined by Section 1-74, Broward County Code of Ordinances.

Required Supporting Documentation (in addition to this form):

Option 1 or 2 (Local Business or Locally Based Business):

1. Broward County local business tax receipt
2. If Vendor is a wholly-owned subsidiary of any other entity, documentation identifying the vertical corporate organization of Vendor name(s) of all parent entities.

Option 3 (Joint Venture composed of one or more Local Businesses or Locally Based Businesses):

1. Broward County local business tax receipt(s) for applicable Local Business(es) or Locally Based Business(es)
2. Executed joint venture agreement, if any
3. If any of the Local Businesses or Locally Based Businesses that comprise the Vendor is a wholly-owned subsidiary of any other entity, documentation identifying the vertical corporate organization of such businesses and name(s) of all parent entities.

If requested by County:

1. Written proof of the Vendor's ownership or right to use the real property, at the Local Business Location as attested (applicable to all options)
2. Additional documentation demonstrating the applicable percentage of equity interests in the joint venture, if not shown in the joint venture agreement (Option 3 only)
3. Additional documentation relating to the parent entities of any Local Business or Locally Based Business.
4. Any other documentation requested by County regarding the location from which the activities of the Vendor are directed, controlled, and coordinated.

Refer to Section 1-74 et seq., Broward County Code of Ordinances, for additional information regarding eligibility for local preference.

-

By submitting this form, the Vendor further attests as follows:

Vendor's Local Business Location Address (as defined in Section 1-74, Broward County Code of Ordinances):

If awarded a contract, it is the intent of the Vendor to remain at the address listed below (or another qualifying Local Business Location within Broward County) for the duration of the contract term, including any renewals or extensions. (If nonlocal Vendor, leave Local Business Location blank.)

5200 NW 33rd Avenue, Suite #211
Ft. Lauderdale, FL 33309

Local Business Location

True and Correct Attestations:

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by the Broward County Procurement Code, Section 21.119. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this form was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

Adebayo Coker 

**AUTHORIZED
SIGNATURE/NAME**

Principal

TITLE

HBC Engineering Company

COMPANY

06/20/2020

DATE

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, THROUGH SEPTEMBER 30,**DBA:**
Business Name:**Receipt #:**
Business Type:**Owner Name:**
Business Location:**Business Opened:**
State/County/Cert/Reg:
Exemption Code:**Business Phone:****Rooms****Seats****Employees****Machines****Professionals**

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS**THIS BECOMES A TAX RECEIPT****WHEN VALIDATED**

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

-

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, THROUGH SEPTEMBER 30,**DBA:**
Business Name:**Receipt #:**
Business Type:**Owner Name:**
Business Location:**Business Opened:**
State/County/Cert/Reg:
Exemption Code:**Business Phone:****Rooms****Seats****Employees****Machines****Professionals**

Signature		For Vending Business Only				
		Number of Machines:			Vending Type:	
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
8935 NW 35 LN STE 201						

MIAMI, FL 33172



TAB 7

Willingness to Meet Time and Buidget Requirements



Willingness to Meet Time and Budget Requirements

Statement

HBC and its team partners are committed to meeting time and budget requirements for this project. The anticipated schedule is 18 months and the estimated project budget is \$2.6 million, with overall budget including construction and CEI services of \$24.8 million. Again, HBC is committed to meeting time and budget requirements for this project.

HBC has been proactive in the management of its workload through implementation of specific policies and procedures and is always making sure there is sufficient staff available. HBC is a small firm and when we hire we ensure our staff is happy to wear many hats. This flexibility allows us to be nimble and agile, which are important traits for being cost-effective and always on time with the required quality.

HBC has an outstanding track record of meeting time and budget requirements for all our projects, including the projects used as examples in this proposal (see Tab 4 – Past Performance). HBC avoids project delays by using specific routines and procedures, such as weekly meetings with all staff to assess and balance staff allocation. Senior management oversight is paramount in our operations and is a constant in HBC.

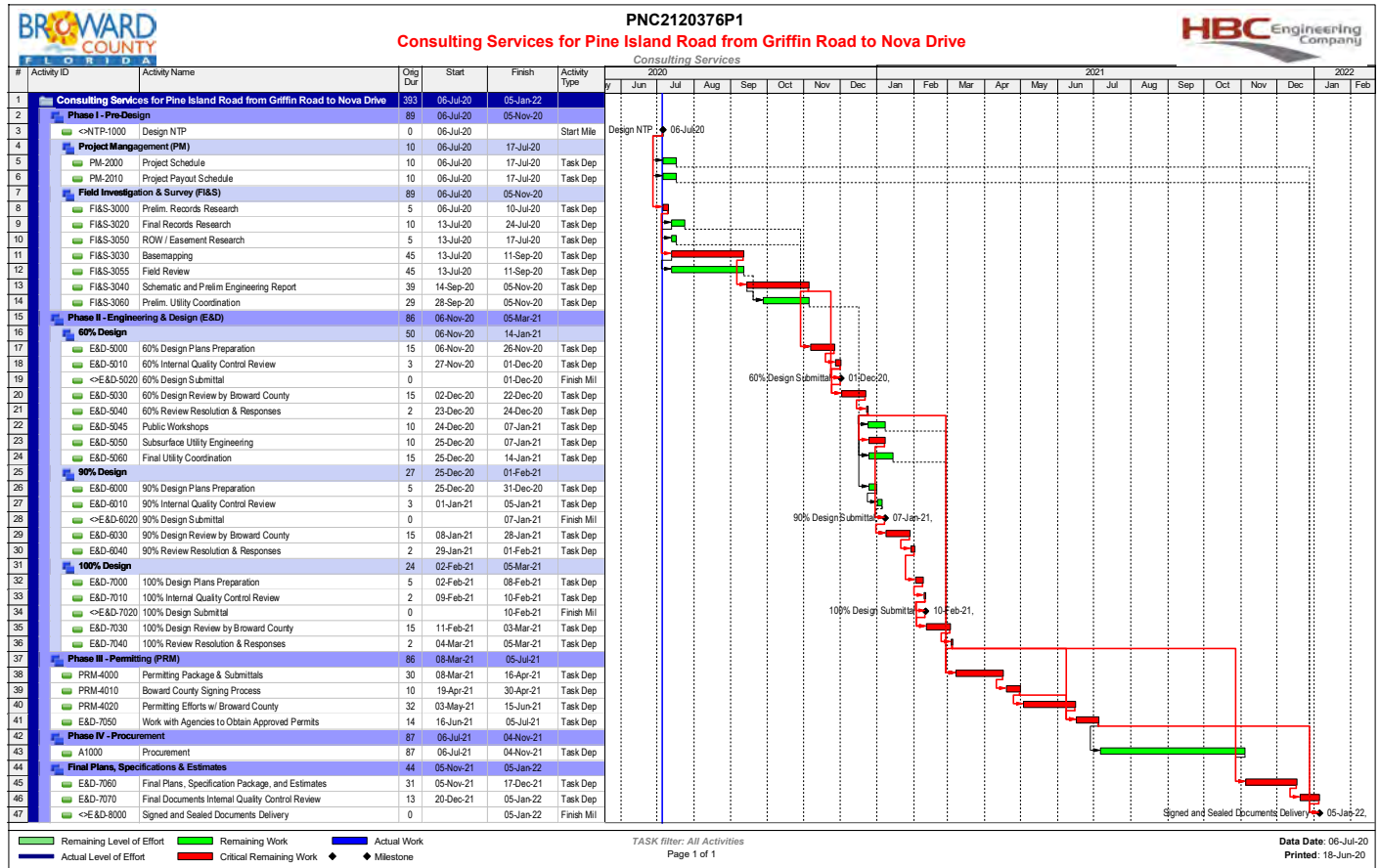
HBC has developed procedures to orient the staff on management decisions that facilitate meeting schedule and alerting for budget issues well in advance of problems, in a way that these issues can be addressed on a timely manner and get the project back on track.

Adebayo Coker, P.E., is the Project Manager for this contract and will be always available for this project. Bayo will count on several of the highest quality senior management with all the subconsultants team partners.

Schedule Approach

HBC has the experience and resources to meet the expected schedule for this project, maintaining high standards for design, attention to details, and exceeding Broward County's needs. The required design duration is 18 months. Based on our preliminary analysis of the corridor, we have identified the approval of the survey, masterplan, utility coordination, and permitting as critical path elements to completing this project on schedule and not development of the roadway plans.

In order to expedite the survey, we will work with the county to commence survey immediately upon notice to proceed and commence development masterplan using aerials at the same time the survey is being done by the county. We will begin early permit coordination after preliminary drainage design to establish expectation and confirm requirements as they pertain to the stormwater permit.



Preliminary Project Schedule

We anticipate a total of 89 days for the Field Investigation and Survey, which coincides with the Phase I – Pre-Design Phase with a total of 89 days from the Notice to Proceed. For the Phase II – Engineering and Design, we anticipate three stages: 60% Design, 90% Design, and 100% Design. Phase II should last a total of 86 days after Phase I. It will take us after Phase I complete, 50 days to reach 60% Design, 27 days to reach 90% Design, and another 24 days to review to reach 100% Design. Phase III – Permitting should last another 86 days after Phase II. We are assuming Phase IV - Procurement to last 87 days. We finally estimate Final Plans, Specifications and Estimates to last another 44 days, completing a total of 392 working days.

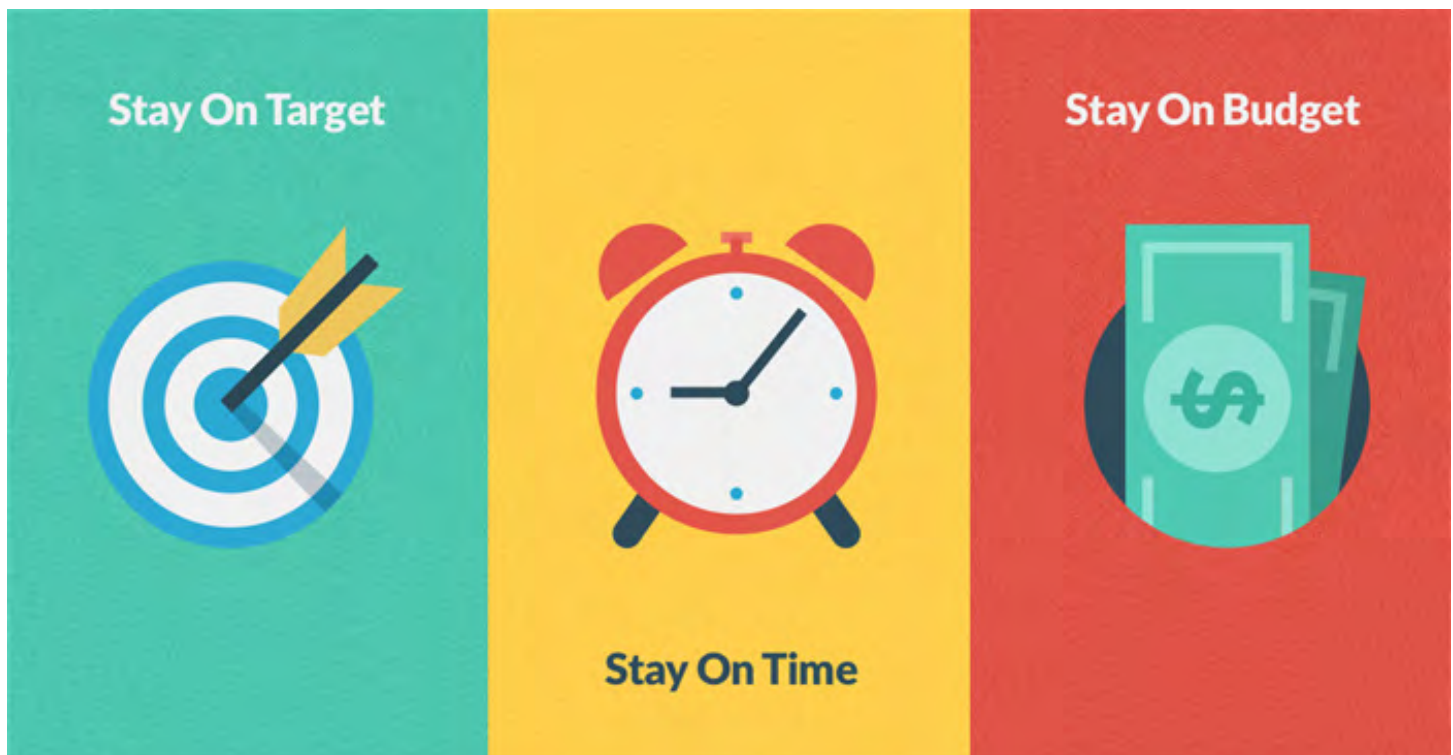
Our project manager, Adebayo Coker, P.E. will focus on these critical items that are controlling the project schedule by establishing adequate interim milestones to proactively identify and mitigate any potential variances. Below are some of the strategies he will use to manage this contracts project schedule:

- Begin early coordination with other departments or agencies to get their buy-in between master plan and 30% plans
- Meet with plan reviewers before every phase submittal to get their buy-in and minimize plan review comments
- Hold weekly in-house meetings with the design team to discuss the project schedule and critical issues
- Monthly Broward County meetings to discuss the project schedule and critical issues and to propose timesaving
- Present alternatives and options to configure the intersection and connect to adjacent projects.
- Accelerate plans completion

Control of Project Budget Approach

We recognize that budget and schedule control are critical to the success of the County's program. Meeting your schedule for deliverables is not just a goal to us—it is a mandate. Cost and schedule control are inherently tied to people. Their experiences, vision, management styles, and philosophies all affect significant components of a project approach and its execution. Identifying realistic goals, developing a focused action plan that addresses only those items necessary to accomplish the goals, anticipating the implications of decisions made in early phases to future phases, and preparing a mechanism for addressing unexpected challenges are important in establishing cost and schedule control. They build the framework for completing a successful project within budget and on schedule. A key to controlling project budget is to finalize a well-defined scope, identify risks in the scope and develop a mitigation plan, clearly define consultant's, subconsultant's and County's responsibilities. As a project budget control measure HBC has developed an in-house system which creates biweekly effort reports that assists our project manager to monitor labor and expense charges on the project. Additionally, we will be submitting monthly invoices along with detailed progress reports.

Paramount to the success of any project is a continued partnering throughout the project to adapt as necessary to unforeseen circumstances. We will include critical decision-making points in our work plans so that the project team and the County can agree upon the best course of action to keep the project on track. There always will be unexpected challenges unique to any given project; it is critical that an approach be developed that controls what can be controlled and builds in mechanisms for dealing with the unexpected.





TAB 8

Volume of Previous Works



VOLUME OF PREVIOUS WORK ATTESTATION FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to provide timely may affect the Vendor's evaluation.

This completed form **MUST** be included with the Vendor's submittal at the time of the opening deadline to be considered for a Tie Breaker criterion (if applicable).

Points assigned for Volume of Previous Work will be based on the amount paid-to-date by the County to a prime Vendor **MINUS** the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must list all received payments paid-to-date by contract as a prime vendor from Broward County Board of County Commissioners. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must also list all total confirmed payments paid-to-date by contract, to approved certified CBE firms utilized to obtain the contract's CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	Prime: Paid to Date	CBE: Paid to Date
1.	N/A	N/A	N/A	N/A	N/A	N/A
2.						
3.						
4.						
5.						
6.						
7.						

Grand Total

Has the Vendor been a member/partner of a Joint Venture firm that was awarded a contract by the County?

Yes ☐ No ☒

If Yes, Vendor must submit a **Joint Vendor Volume of Work Attestation Form**.

Vendor Name: HBC Engineering Company

Adebayo Coker
Authorized Signature/Name

Principal
Title

06/20/2020
Date

VOLUME OF PREVIOUS WORK ATTESTATION JOINT VENTURE FORM

If applicable, this form and additional required documentation should be submitted with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture. Points assigned for Volume of Previous Work will be based on the amount paid-to-date by contract to the Joint Venture firm **MINUS** all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	JV Equity Percent	Prime: Paid to Date	CBE: Paid to Date
1.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.							
3.							
4.							
5.							
6.							
7.							
8.							

Grand Total

Vendor is required to submit an executed Joint Venture agreement(s) and any amendments for each project listed above. Each agreement must be executed prior to the opening date of this solicitation.

Vendor Name:

Adebayo Coker 
Authorized Signature/Name

Principal
Title

06/20/2020
Date

VENDOR QUESTIONNAIRE AND STANDARD CERTIFICATIONS
Request for Proposals, Request for Qualifications, or Request for Letters of Interest

Vendor should complete questionnaire and complete and acknowledge the standard certifications and submit with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

If a response requires additional information, the Vendor should upload a written detailed response with submittal; each response should be numbered to match the question number. The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

1. Legal business name:
2. Doing Business As/ Fictitious Name (if applicable):
3. Federal Employer I.D. no. (FEIN):
4. Dun and Bradstreet No.:
5. Website address (if applicable):
6. Principal place of business address:
Doral, FL 33078
7. Office location responsible for this project:
Ft. Lauderdale, FL 33309
8. Telephone no.: Fax no.:
9. Type of business (check appropriate box):
 - ☒ Corporation (specify the state of incorporation):
 - ☐ Sole Proprietor
 - ☐ Limited Liability Company (LLC)
 - ☐ Limited Partnership
 - ☐ General Partnership (State and County Filed In)
 - ☐ Other - Specify
10. List Florida Department of State, Division of Corporations document number (or registration number if fictitious name):
11. List name and title of each principal, owner, officer, and major shareholder:
 - a)
 - b)
 - c)
 - d)
12. AUTHORIZED CONTACT(S) FOR YOUR FIRM:
Name:

Title: President
E-mail: acoker@hbcengineeringco.com
Telephone No.: 305-232-7932

Name:
Title:
E-mail:
Telephone No.:

13. Has your firm, its principals, officers or predecessor organization(s) been debarred or suspended by any government entity within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
14. Has your firm, its principals, officers or predecessor organization(s) ever been debarred or suspended by any government entity? If yes, specify details in an attached written response, including the reinstatement date, if granted. ☐ Yes ☒ No
15. Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
16. Is your firm or any of its principals or officers currently principals or officers of another organization? If yes, specify details in an attached written response. ☐ Yes ☒ No
17. Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
18. Has your firm's surety ever intervened to assist in the completion of a contract or have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached written response, including contact information for owner and surety. ☐ Yes ☒ No
19. Has your firm ever failed to complete any work awarded to you, services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
20. Has your firm ever been terminated from a contract within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
21. Living Wage solicitations only: In determining what, if any, fiscal impacts(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract.
Living Wage had an effect on the pricing. ☐ Yes ☒ No
☐ N/A
If yes, Living Wage increased the pricing by % or decreased the pricing by %.

Cone of Silence Requirement Certification:

The Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances prohibits certain communications among Vendors, Commissioners, County staff, and Selection or Evaluation Committee members. Identify on a separate sheet any violations of this Ordinance by any members of the responding firm or its joint ventures. After the application of the Cone of Silence, inquiries regarding this solicitation should be directed to the Director of Purchasing or designee. The Cone of Silence terminates when the County Commission or other awarding authority takes action which ends the solicitation.

The Vendor hereby certifies that: (check each box)

- ☒ The Vendor has read Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances; and
- ☒ The Vendor understands that the Cone of Silence for this competitive solicitation shall be in effect beginning upon the appointment of the Selection or Evaluation Committee, for communication regarding this solicitation with the County Administrator, Deputy County Administrator, Assistant County Administrators, and Assistants to the County Administrator and their respective support staff or any person, including Evaluation or Selection Committee members, appointed to evaluate or recommend selection in this RFP/RLI process. For

Communication with County Commissioners and Commission staff, the Cone of Silence allows communication until the initial Evaluation or Selection Committee Meeting.

- ☒ The vendor understands that they may communicate with a representative of the Office of Economic and Small Business Development ("OESBD") at any time regarding a solicitation or regarding participation of Small Business Enterprises or County Business Enterprises in a solicitation. OESBD may be contacted at (954) 357-6400. The Cone of Silence also permits communication with certain other County employees (refer to the Cone of Silence Ordinance).
- ☒ The Vendor agrees to comply with the requirements of the Cone of Silence Ordinance.

Drug-Free Workplace Requirements Certification:

Section 21.31.a. of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board award be made only to firms certifying the establishment of a drug free workplace program. The program must consist of:

1. Publishing a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the offeror's workplace, and specifying the actions that will be taken against employees for violations of such prohibition;
2. Establishing a continuing drug-free awareness program to inform its employees about:
 - a. The dangers of drug abuse in the workplace;
 - b. The offeror's policy of maintaining a drug-free workplace;
 - c. Any available drug counseling, rehabilitation, and employee assistance programs; and
 - d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
3. Giving all employees engaged in performance of the contract a copy of the statement required by subparagraph 1;
4. Notifying all employees, in writing, of the statement required by subparagraph 1, that as a condition of employment on a covered contract, the employee shall:
 - a. Abide by the terms of the statement; and
 - b. Notify the employer in writing of the employee's conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or of any state, for a violation occurring in the workplace NO later than five days after such conviction.
5. Notifying Broward County government in writing within 10 calendar days after receiving notice under subdivision 4.b above, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
6. Within 30 calendar days after receiving notice under subparagraph 4 of a conviction, taking one of the following actions with respect to an employee who is convicted of a drug abuse violation occurring in the workplace:
 - a. Taking appropriate personnel action against such employee, up to and including termination; or
 - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency; and
7. Making a good faith effort to maintain a drug-free workplace program through implementation of subparagraphs 1 through 6.

The Vendor hereby certifies that: (check box)

- ☒ The Vendor certifies that it has established a drug free workplace program in accordance with the above requirements.

Non-Collusion Certification:

Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

The Vendor hereby certifies that: (select one)

- ☒ The Vendor certifies that this offer is made independently and free from collusion; or
- ☒ The Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

Public Entities Crimes Certification:

In accordance with Public Entity Crimes, Section 287.133, Florida Statutes, a person or affiliate placed on the convicted vendor list following a conviction for a public entity crime may not submit on a contract: to provide any goods or services; for construction or repair of a public building or public work; for leases of real property to a public entity; and may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for Category Two for a period of 36 months following the date of being placed on the convicted vendor list.

The Vendor hereby certifies that: (check box)

- ☒ The Vendor certifies that no person or affiliates of the Vendor are currently on the convicted vendor list and/or has not been found to commit a public entity crime, as described in the statutes.

Scrutinized Companies List Certification:

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor hereby certifies that: (check each box)

- ☒ The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4275, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

I hereby certify the information provided in the Vendor Questionnaire and Standard Certifications:

Adebayo Coker 	Principal	06/20/2020
*AUTHORIZED SIGNATURE/NAME	TITLE	DATE

Vendor Name:

* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).

DOMESTIC PARTNERSHIP ACT CERTIFICATION FORM (REQUIREMENT AND TIEBREAKER)

Refer to Special Instructions to identify if Domestic Partnership Act is a requirement of the solicitation or acts only as a tiebreaker. If Domestic Partnership is a requirement of the solicitation, the completed and signed form should be returned with the Vendor's submittal. If the form is not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes. To qualify for the Domestic Partnership tiebreaker criterion, the Vendor must currently offer the Domestic Partnership benefit and the completed and signed form must be returned at time of solicitation submittal.

The Domestic Partnership Act, Section 16 ½ -157, Broward County Code of Ordinances, requires all Vendors contracting with the County, in an amount over \$100,000 provide benefits to Domestic Partners of its employees, on the same basis as it provides benefits to employees' spouses, with certain exceptions as provided by the Ordinance.

For all submittals over \$100,000.00, the Vendor, by virtue of the signature below, certifies that it is aware of the requirements of Broward County's Domestic Partnership Act, Section 16-½ -157, Broward County Code of Ordinances; and certifies the following: (check only one below).

- ☒ 1. The Vendor currently complies with the requirements of the County's Domestic Partnership Act and provides benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses
- ☐ 2. The Vendor will comply with the requirements of the County's Domestic Partnership Act at time of contract award and provide benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses.
- ☐ 3. The Vendor will not comply with the requirements of the County's Domestic Partnership Act at time of award.
- ☐ 4. The Vendor does not need to comply with the requirements of the County's Domestic Partnership Act at time of award because the following exception(s) applies: **(check only one below)**.
- ☐ The Vendor is a governmental entity, not-for-profit corporation, or charitable organization.
- ☐ The Vendor is a religious organization, association, society, or non-profit charitable or educational institution.
- ☐ The Vendor provides an employee the cash equivalent of benefits. (Attach an affidavit in compliance with the Act stating the efforts taken to provide such benefits and the amount of the cash equivalent).
- ☐ The Vendor cannot comply with the provisions of the Domestic Partnership Act because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. Indicate the law, statute or regulation (State the law, statute or regulation and attach explanation of its applicability).

Adebayo Coker 
Authorized Signature/Name

Principal
Title

HBC Engineering Company
Vendor Name

6/20/2020
Date

LOBBYIST REGISTRATION REQUIREMENT CERTIFICATION FORM

The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Vendor certifies that it understands if it has retained a lobbyist(s) to lobby in connection with a competitive solicitation, it shall be deemed non-responsive unless the firm, in responding to the competitive solicitation, certifies that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances; and it understands that if, after awarding a contract in connection with the solicitation, the County learns that the certification was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis, exercise any contractual right to terminate the contract for convenience.

The Vendor hereby certifies that: (select one)

- ☒ It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if retained after the solicitation, the County will be notified.
- ☐ It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances.

It is a requirement of this solicitation that the names of any and all lobbyists retained to lobby in connection with this solicitation be listed below:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Authorized Signature/Name: Date:

Title:

Vendor Name:

LITIGATION HISTORY FORM

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated time frames.

- ☐ There are no material cases for this Vendor; or
- ☐ Material Case(s) are disclosed below:

Is this for a: (check type) <input type="checkbox"/> Parent, <input type="checkbox"/> Subsidiary, or <input type="checkbox"/> Predecessor Firm?	If Yes, name of Parent/Subsidiary/Predecessor: <input type="text"/> Or No <input type="checkbox"/>
Party	
Case Number, Name, and Date Filed	<input type="text"/>
Name of Court or other tribunal	<input type="text"/>
Type of Case	Bankruptcy <input type="checkbox"/> Civil <input type="checkbox"/> Criminal <input type="checkbox"/> Administrative/Regulatory <input type="checkbox"/>
Claim or Cause of Action and Brief description of each Count	<input type="text"/>
Brief description of the Subject Matter and Project Involved	<input type="text"/>
Disposition of Case (Attach copy of any applicable Judgment, Settlement Agreement and Satisfaction of Judgment.)	Pending <input type="checkbox"/> Settled <input type="checkbox"/> Dismissed <input type="checkbox"/> Judgment Vendor's Favor <input type="checkbox"/> Judgment Against Vendor <input type="checkbox"/> If Judgment Against, is Judgment Satisfied? <input type="checkbox"/> Yes <input type="checkbox"/> No
Opposing Counsel	Name: <input type="text"/> Email: <input type="text"/> Telephone Number: <input type="text"/>

Vendor Name:

AGREEMENT EXCEPTION FORM

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, it shall be deemed an affirmation by the Vendor that it accepts the terms and conditions of the County's Agreement as disclosed in the solicitation.

The Vendor must either provide specific proposed alternative language on the form below. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.

- ☒ There are no exceptions to the terms and conditions of the County Agreement as referenced in the solicitation; or
- ☐ The following exceptions are disclosed below: (use additional forms as needed; separate each Article/ Section number)

Term or Condition Article / Section	Insert version of exception or specific proposed alternative language	Provide brief justification for change
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Vendor Name:

VOLUME OF PREVIOUS WORK ATTESTATION FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to provide timely may affect the Vendor's evaluation.

This completed form **MUST** be included with the Vendor's submittal at the time of the opening deadline to be considered for a Tie Breaker criterion (if applicable).

Points assigned for Volume of Previous Work will be based on the amount paid-to-date by the County to a prime Vendor **MINUS** the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must list all received payments paid-to-date by contract as a prime vendor from Broward County Board of County Commissioners. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must also list all total confirmed payments paid-to-date by contract, to approved certified CBE firms utilized to obtain the contract's CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	Prime: Paid to Date	CBE: Paid to Date
1.	N/A	N/A	N/A	N/A	N/A	N/A
2.						
3.						
4.						
5.						
6.						
7.						

Grand Total

Has the Vendor been a member/partner of a Joint Venture firm that was awarded a contract by the County?

Yes ☐ No ☒

If Yes, Vendor must submit a **Joint Vendor Volume of Work Attestation Form**.

Vendor Name: HBC Engineering Company

Adebayo Coker
Authorized Signature/Name

Principal
Title

06/20/2020
Date

VOLUME OF PREVIOUS WORK ATTESTATION JOINT VENTURE FORM

If applicable, this form and additional required documentation should be submitted with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture. Points assigned for Volume of Previous Work will be based on the amount paid-to-date by contract to the Joint Venture firm **MINUS** all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	JV Equity Percent	Prime: Paid to Date	CBE: Paid to Date
1.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.							
3.							
4.							
5.							
6.							
7.							
8.							

Grand Total

Vendor is required to submit an executed Joint Venture agreement(s) and any amendments for each project listed above. Each agreement must be executed prior to the opening date of this solicitation.

Vendor Name:

Adebayo Coker 
Authorized Signature/Name

Principal
Title

06/20/2020
Date


SCRUTINIZED COMPANIES LIST REQUIREMENT CERTIFICATION FORM

The completed and signed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor, by virtue of the signature below, certifies that:

- a. The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4725 Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- b. The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- c. If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

Adebayo Coker 
**Authorized
Signature/Name**

Principal
Title

HBC Engineering Company
Vendor Name

7/15/2020
Date

SUBCONTRACTORS/SUBCONSULTANTS/SUPPLIERS REQUIREMENT FORM

Request for Proposals, Request for Qualifications, or Request for Letters of Interest

The following forms and supporting information (if applicable) should be returned with Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

- A. The Vendor shall submit a listing of all subcontractors, subconsultants and major material suppliers (firms), if any, and the portion of the contract they will perform. A major material supplier is considered any firm that provides construction material for construction contracts, or commodities for service contracts in excess of \$50,000, to the Vendor.
- B. If participation goals apply to the contract, only non-certified firms shall be identified on the form. A non-certified firm is a firm that is not listed as a firm for attainment of participation goals (ex. County Business Enterprise or Disadvantaged Business Enterprise), if applicable to the solicitation.
- C. This list shall be kept up-to-date for the duration of the contract. If subcontractors, subconsultants or suppliers are stated, this does not relieve the Vendor from the prime responsibility of full and complete satisfactory performance under any awarded contract.
- D. After completion of the contract/final payment, the Vendor shall certify the final list of non-certified subcontractors, subconsultants, and suppliers that performed or provided services to the County for the referenced contract.
- E. The Vendor has confirmed that none of the recommended subcontractors, subconsultants, or suppliers' principal(s), officer(s), affiliate(s) or any other related companies have been debarred from doing business with Broward County or any other governmental agency.

If none, state "none" on this form. Use additional sheets as needed. Vendor should scan and upload any additional form(s) in BidSync.

 bold line separating sections

1. Subcontracted Firm's Name:

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position:

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided:

 bold line separating sections

2. Subcontracted Firm's Name:

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position:

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided: Environmental

3. Subcontracted Firm's Name: Dickey Consulting, Inc

Subcontracted Firm's Address: 1033 NW 6th Street, Suite 206, Ft Lauderdale, FL 33311

Subcontracted Firm's Telephone Number: 954-467-6822

Contact Person's Name and Position: Sheryl Dickey, President

Contact Person's E-Mail Address: sdickey@dickeyinc.com

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided: Public Outreach

 bold

4. Subcontracted Firm's Name: GFA International, Inc

line
seperating
sections

Subcontracted Firm's Address: 1215 Wallace Drive, Delray Beach, FL 33444

Subcontracted Firm's Telephone Number: 561-347-0070

Contact Person's Name and Position: Fred Kaub, President

Contact Person's E-Mail Address: fkaub@teamgfa.com

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided: Geotechnical Engineering

5. Subcontracted Firm's Name: Lakdas/Yohalem Engineering, Inc

Subcontracted Firm's Address: 2211 NE 54th Street, Fort Lauderdale, FL 33308

Subcontracted Firm's Telephone Number: 954-771-0630

Contact Person's Name and Position: Lakdas Nanayakkara, President

Contact Person's E-Mail Address: lye@lyengineering.com

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided: Structures

6. Subcontracted Firm's Name: Premiere Design Services, Inc

seperating
sections

Subcontracted Firm's Address: 12781 Miramar Pkwy Ste 205, Miramar, FL 33027

Subcontracted Firm's Telephone Number: 954-237-7850

Contact Person's Name and Position: Gustavo Eckardt, Project Manager

Contact Person's E-Mail Address: geckardt@pds-eng.com

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided: Survey Services

7. Subcontracted Firm's Name: Archaeological & Historical Conservancy, Inc

Subcontracted Firm's Address: 4800 SW 64th Ave, Suite 107, Davie, FL 33314

Subcontracted Firm's Telephone Number: 954-792-9776

Contact Person's Name and Position: Robert Carr, Executive Director

Contact Person's E-Mail Address: archlgcl@bellsouth.net

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided: Archeological Services

8. Subcontracted Firm's Name:

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position:

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided:

I certify that the information submitted in this report is in fact true and correct to the best of my knowledge.

Adebayo Coker



Principal

HBC Engineering Company

6/20/2020

Authorized Signature/Name

Title

Vendor Name

Date

LOCATION TIE BREAKER FORM

Sections 21.31.c and 21.31.d of the Broward County Procurement Code provide certain tie breaker criteria, the first of which is based upon vendor location.

To be eligible for the location tiebreaker in Broward County Procurement Code Sections 21.31.c or 21.31.d, the Vendor **must** submit this fully completed form and its Broward County local business tax receipt at the same time it submits its bid or response to a procurement solicitation. Vendors who fail to comply with this submittal deadline will not be eligible for the location tiebreaker.

Tie Breaker: In accordance with Broward County Procurement Code, Sections 21.31.c and 21.31.d, the undersigned Vendor hereby certifies that (check the box for only one option below):

- ☒ The Vendor has been in existence for at least the six (6) month period immediately preceding the solicitation opening date, at a physical business address located within the limits of Broward County), in an area zoned for the conduct of such business, from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation.
- ☐ The Vendor does not meet the location tie breaker requirements stated above.

True and Correct Attestations:

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by the Broward County Procurement Code, Section 21.119. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this form was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

Adebayo Coker 
**AUTHORIZED
SIGNATURE/NAME**

Principal
TITLE

HBC Engineering Company
COMPANY

06/20/2020
DATE

AFFILIATED ENTITIES OF THE PRINCIPAL(S) CERTIFICATION FORM

The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Program, including CBE, DBE and SBE goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

The Vendor hereby certifies that: (select one)

- ☒ No principal of the proposing Vendor has prior affiliations that meet the criteria defined as "Affiliated entities"
- ☐ Principal(s) listed below have prior affiliations that meet the criteria defined as "Affiliated entities"

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Authorized Signature Name: 

Title:

Vendor Name:

Date:



Vendor Reference Verification Form

Broward County Solicitation No. and Title:

PNC2120376P1 Pine Island Road from Griffin Road to Nova Drive

Reference for: Rehab of Rdwy, Bus Stop, Drainage, Signing & Pavement Marking, Lighting, Signals

Organization/Firm Name providing reference:

Miami-Dade Transit

Contact Name: Orlando Capote, P.E

Title: Project Manager

Reference date: 2015

Contact Email: Orlando.Capote@miamidade.gov

Contact Phone: 786-469-5248

Name of Referenced Project: Northeast Transit Hub Enhancements at the 163 St. Mall

Contract No.

Date Services Provided:

Project Amount:

1/2015 to 11/2016

\$1,000,000.00

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

Would you use this vendor again? ☒ Yes ☐ No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

Please rate your experience with the referenced Vendor:

	Needs Improvement	Satisfactory	Excellent	Not Applicable
1. Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Timeliness of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project completed within budget	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Cooperation with:				
a. Your Firm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Subcontractor(s)/Subconsultant(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Regulatory Agency(ies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments: (provide on additional sheet if needed)

THIS SECTION FOR COUNTY USE ONLY

Verified via: ☐ EMAIL ☐ VERBAL Verified by: _____ Division: _____ Date: _____

All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code.

Broward County Board of
County Commissioners

Bid PNC2120376P1



Vendor Reference Verification Form

Broward County Solicitation No. and Title:

PNC2120376P1 Pine Island Road from Griffin Road to Nova Drive

Reference for: Roadway resurfacing, restoration, rehabilitation and drainage improvements

Organization/Firm Name providing reference:

Florida Department of Transportation, District 4

Contact Name: James Hughes, P.E.

Title: Project Manager

Reference date: 2015

Contact Email: james.hughes@dot.state.fl.us

Contact Phone: 954-777-4479

Name of Referenced Project: SR 858/ Hallandale Beach Boulevard

Contract No.

Date Services Provided:

Project Amount:

2012 to 2015

\$900,000

Vendor's role in Project: ☒ Prime Vendor ☐ Subconsultant/SubcontractorWould you use this vendor again? ☒ Yes ☐ No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

Design Consultant developed the Construction Plans.

Please rate your experience with the
referenced Vendor:Needs
Improvement

Satisfactory

Excellent

Not
Applicable

1. Vendor's Quality of Service

- a. Responsive
- b. Accuracy
- c. Deliverables

☐
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☐
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2. Vendor's Organization:

- a. Staff expertise
- b. Professionalism
- c. Turnover

☐
☐
☐
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☐
☒
☒
☐
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☐
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3. Timeliness of:

- a. Project
- b. Deliverables

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4. Project completed within budget

☐
☐
☒
☐

5. Cooperation with:

- a. Your Firm
- b. Subcontractor(s)/Subconsultant(s)
- c. Regulatory Agency(ies)

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Additional Comments: (provide on additional sheet if needed)

THIS SECTION FOR COUNTY USE ONLY

Verified via: ☐ EMAIL ☐ VERBAL Verified by: _____ Division: _____ Date: _____

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Vendor Reference Verification Form

Broward County Solicitation No. and Title:

PNC2120376P1 Pine Island Road from Griffin Road to Nova Drive

Reference for: Roadway, Signing and Pavement Markings, Signalization and Lighting

Organization/Firm Name providing reference:

Florida Department of Transportation, District 4

Contact Name: Robert Lopes

Title: Project Manager

Reference date: 2020

Contact Email: Robert.Lopes@dot.state.fl.us

Contact Phone: 954-777-4425

Name of Referenced Project: SR 7- Transit Corridor Improvement

Contract No.

Date Services Provided:

Project Amount:

429576-2 & 429576-3

07/2018 to ongoing

\$1.5 million

Vendor's role in Project: ☒ Prime Vendor ☐ Subconsultant/SubcontractorWould you use this vendor again? ☒ Yes ☐ No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

Provided project management, design, and plan preparation of Phase I SR-7 Transit Corridor improvements (projects 429576-2 and 420576-3).

Please rate your experience with the
referenced Vendor:Needs
Improvement

Satisfactory

Excellent

Not
Applicable

1. Vendor's Quality of Service

a. Responsive

b. Accuracy

c. Deliverables

2. Vendor's Organization:

a. Staff expertise

b. Professionalism

c. Turnover

3. Timeliness of:

a. Project

b. Deliverables

4. Project completed within budget

5. Cooperation with:

a. Your Firm

b. Subcontractor(s)/Subconsultant(s)

c. Regulatory Agency(ies)

Additional Comments: (provide on additional sheet if needed)

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Verified via: ☐ EMAIL ☐ VERBAL Verified by: _____ Division: _____ Date: _____

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HBCENGI-01

NGONZALEZ

CERTIFICATE OF LIABILITY INSURANCE

 DATE (MM/DD/YYYY)
 2/21/2020

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

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

PRODUCER Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102		CONTACT NAME: PHONE (A/C, No, Ext): (703) 827-2277 FAX (A/C, No): (703) 827-2279 E-MAIL ADDRESS: admin@amesgough.com	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A : Valley Forge Insurance Company A(XV)	NAIC # 20508
		INSURER B : National Fire Insurance Company of Hartford A(XV)	20478
		INSURER C : Continental Casualty Company (CNA) A, XV	20443
		INSURER D : Transportation Insurance Company A(XV)	20494
		INSURER E : Argonaut Insurance Co. A(XIV)	19801
		INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			6045366972	2/21/2020	2/21/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			6024713271	2/21/2020	2/21/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB OCCUR CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0			6057619145	2/21/2020	2/21/2021	EACH OCCURRENCE \$ 3,000,000 AGGREGATE \$ 3,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	6076299547	2/21/2020	2/21/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Professional Liab.			121 AE 0167371-00	2/21/2020	2/21/2021	Per Claim/Aggregate 2,000,000

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

CERTIFICATE HOLDER

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

Evaluation Criteria Response Form		
Consulting Services for Pine Island Road from Griffin Road to Nova Drive		
1.	Ability of Key Personnel: (20 Points)	Vendor Response
	<p>a) Describe the qualifications and relevant experience of the proposed Project Manager and all key staff to be assigned to this contract. Provide resumes and include qualifications and relevant experience of all proposed staff and subconsultants' key staff to be assigned to this Project.</p> <p>(15 Points)</p>	<p>Adebayo (Bayo) Coker, P.E., will serve as the Project Manager and primary point of contact for this contract. HBC Engineering Company (HBC) commits Bayo for the entire duration of the assignment. Bayo is responsible for coordinating and managing all subconsultant partners, as well as HBC staff assigned to this project. He will ensure that all tasks are completed in a timely and effective manner, that proper communication and coordination are maintained, and that all project activities are accurately documented. He will be involved in every aspect of the project - from design start up through project closeout - to ensure the highest quality project in the most responsive and timely manner.</p> <p>Bayo has over 27 years of experience in roadway design, providing the highest quality solutions to the County, FDOT, transportation agencies, and other local governments. He is experienced in sidewalk design, multimodal improvements, roadway design, intersection development, cross-sections, pedestrian/bike paths, cost estimation, stormwater control plans preparation, drainage and utility design, NPDES permitting and SWPPP preparation and implementation. In addition, he is familiar with the surveying aspect of civil engineering and has experience working with sustainable designs. Typical scopes of work he has been responsible for include complete street/multimodal improvements on City, County, and State roadways, roadway resurfacing and rehabilitation projects, and public engagement activities.</p> <p>HBC, along with carefully selected subconsultant partners will provide the capacity and expertise to complete all tasks for this critical project. The dedicated individuals listed below bring their relationships and familiarity with staff and agencies having jurisdiction combined with their knowledge and expertise with similar projects will provide the most effective team.</p> <p><u>Prime Consultant: HBC Engineering Company</u></p> <p>Adebayo (Bayo) Coker, P.E. – Project Manager Fernando A. Craveiro de Sa, PhD – Principal-in-Charge David Chang, P.E. – Constructibility Review Lead</p>

		<p>Jorge Rodriguez, P.E. (TX) - Constructibility Review and Quality Control Review Lead</p> <p>Sonny Abia, PhD, P.E. - Quality Control Review</p> <p>Jose Lopez, P.E. – Highway Design (3.2) Lead and Signing & Pavement Marking & Channelization (7.1)</p> <p>Jason Ferra, E.I. - Highway Design (3.2) and Utility Coordination & Adjustment</p> <p>Derrek Okosun, - Highway Design (3.2)</p> <p>Paola Armada - Highway Design (3.2), Signing & Pavement Marking & Channelization (7.1), and Signalization (7.3)</p> <p>Roberto Rubio, P.E. – Misc. Structures (4.1.1)</p> <p>Gregory Prytyka, PTOE, P.E. – Traffic Engineering (6.1) Lead</p> <p>Allison Glunt, E.I. – Traffic Engineering (6.1)</p> <p>Moatz Saad, PhD – Traffic Engineering (6.1)</p> <p>David Coker, E.I. – Traffic Engineering (6.1)</p> <p>Jeremy Braithwaite – Traffic Engineering (6.1)</p> <p>Gonzalo Barrera, E.I. - Signing & Pavement Marking & Channelization (7.1), Signalization (7.3), and Drainage</p> <p>Orlando Penate, P.E. – Lighting (7.2) Lead</p> <p>Angel Galvez Moya - Lighting (7.2)</p> <p>Claudia Bustamante, P.E., MSc. – Signalization (7.3) Lead</p> <p>Hernan Lugo, P.E. – Drainage Lead and Permitting</p> <p>Emanuel De Jesus Negrón – Drainage</p> <p>Edgar Diaz, P.E. – Utility Coordination & Adjustment</p> <p>Susana Bernal – Permitting Lead</p> <p><u>Sub Consultants:</u></p> <p>Lakdas Nanayakkara, P.E. - Misc. Structures (4.1.1) Lead (PDS)</p> <p>Fernando Fernandez, P.S.M. – Control Surveying (8.1) Lead (PDS)</p> <p>Gustavo Eckardt, P.E. – Control Surveying (8.1) (PDS)</p> <p>Luis Jurado, P.E. – Control Surveying (8.1) (PDS)</p> <p>Jason McKoy – Control Surveying (8.1) (PDS)</p> <p>Carlos Mercado, M.S., P.E. – Soil Exploration (9.1) Lead (GFA)</p> <p>Estella G. Leon Aguillar, M.S. – Soil Exploration (9.1) (GFA)</p> <p>Fredrick G. Kaub, P.E., L.A.C. – Soil Exploration (9.1) (GFA)</p> <p>Wendy Cyriacks – Environmental (CECOS)</p> <p>Timothy W. A. Ogle, M.S. – Environmental (CECOS)</p> <p>Robert Carr – Archeology Lead (AHC)</p> <p>Sheryl A. Dickey - Public Information Lead (DCS)</p> <p>Andres Montero, PLS, ASLA – Landscaping Lead (AMLA)</p> <p>Geiry M. Pallotta – Landscaping (AMLA)</p>
	b) Provide an Organizational Chart of	HBC will be providing a full team of professional experts organized with the necessary disciplines to execute the

	<p>the Firm's and Team's key personnel showing roles or position titles, staff names and licenses, if any, area of expertise for the Project, years of experience, and lines of authority.</p> <p>(5 Points)</p>	<p>proposed project for Broward County in an efficient and timely manner.</p> <p>Please, refer to Organizational Chart in TAB 1 – Ability of Key Personnel.</p>
2.	Project Approach: (40 Points)	Vendor Response
	<p>a) Describe the prime Vendor's approach to the Project, understanding of Project Scope, and how your firm intends to meet key milestones. Include how the prime Vendor will use subconsultants in the project.</p> <p>(20 Points)</p>	<p>Please, important to refer to Tab 3 – Project Approach. HBC and team partners have done most of the conceptual design for this project. We present in this proposal a well advanced design in three alternatives. We are ready to hit the road running!</p> <p>HBC believes in a context-based approach that considers multiple facets of the design process resulting in solutions that are curated for each specific project. In addition to the traditional design approach, we believe careful consideration should be given to economic, ecological, and social factors. This cohesive approach to each project is engineered to enhance the opportunity for a resilient solution. This triple bottom line approach to the design process is also combined with the need to create a sense of place through enhanced aesthetics and resilient design, especially important to public health and safety.</p> <p>Our approach is categorized into the following three general phases:</p> <ul style="list-style-type: none"> • Exploration Phase – The process of becoming familiar with an area through extensive analysis. • Inspiration Phase – The process of developing ideas emanating from the exploration process. • Implementation Phase – The process of activating a decision or plan. <p>Each phase builds on the previous and seeks to combine a triple bottom line perspective, with an emphasis on Social, Ecology and Economic influences. This context-based design</p>

	<p>approach considers multiple facets of the development process to result in a resilient solution that is cultivated for each project and task.</p> <p>PROJECT MANAGEMENT</p> <p>The HBC team will implement a rigorous communication protocol among all project participants as part of our Project Management Plan. The basis of our management plan will focus on Managing communication between our team and Broward County, as follows: Provide Single Point of Contact – We will have a single point of contact for the County to work as an extension of the County. In this contract, we have assigned Adebayo (Bayo) Coker, PE, as the Project Manager. He will serve Broward County in this capacity for the life of the contract to assure continuity and reliability to County staff. Establish the involved group of stakeholders and provide clear lines of communication to all. Understand the objectives of the project and assure that all project stakeholders have the same level of commitment and expectation in understanding the scope of work. Schedule regular progress meetings. Maintain strong, ongoing relationships with County staff and all stakeholders.</p> <p>Our approach to this management plan is one that has proven successful with many projects. We will schedule all meetings in coordination with Broward County staff, conduct the meetings, provide agendas and meeting materials, record and submit minutes for review/ approval and then distribute those minutes to the appropriate parties. We will develop the project schedule to sequence key activities associated with and required for the successful design of the project. By carefully scheduling and sequencing activities, key elements of the design may be performed in a sequential manner to expedite delivery while ensuring all issues and concerns are properly addressed. Upon development of the schedule, tasks will be assigned to each person responsible for that item through our in-house scheduling tool. This will allow Bayo, as the Project Manager, to readily check in on the “moving parts” of the design and provide updates to the County, ultimately keeping the design on schedule.</p> <p>In addition to excellent project management, HBC will also bring all service sectors to this project including, Highway Design, Signing & Pavement Marking, Lighting, Signalization, Control Surveying, Soil Exploration, Drainage Design, Right-of-Way Construction Surveying, Quality Control, Utility Coordination, Environmental, Permitting, Archaeology,</p>
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	<p>Landscaping and Community Involvement. HBC will be involved in every task and will ensure the proper QC is completed through the life of the project. We believe that our overall corporate ideology, coupled with our expertise and commitment to Broward County, will be the keys to the successful execution of this contract.</p> <p>The following additional information specifically identifies our subconsultants' roles in the project by discipline, expertise, and work element to be provided throughout the project phases and our core belief that we are the best fit Team for Broward County and for this Project.</p> <p>USE OF SUBCONSULTANTS</p> <p>Lakdas-Yohalem Engineering, Inc. (LYEI) – (CBE) is a medium sized professional structural and civil engineering firm that has been in operation in Broward County since 1970. They provide Structural and Civil Engineering, Design and Inspection Services on several high-profile projects in the tri-counties, which includes mast arms, signage structures, light poles, bridges, drainage structures, marinas, and a whole range of other structural projects. They also offer threshold and site inspections, feasibility studies, design and condition survey of structures, restoration damage assessments, value engineering and constructability review.</p> <p>GFA International, Inc. (GFA) – is a well-known geotechnical and construction materials testing engineering firm in South Florida. GFA owns and operates one of the largest and most diverse fleets of drilling equipment in the state. GFA's geotechnical engineers and geologists are skilled in defining and executing field exploration programs to provide cost-effective solutions to geotechnical challenges. GFA has extensive experience and a solid background providing Construction Materials Testing (CMT) Services to a large variety of clients, both public and private, including successful continuing service contracts with School Districts, Cities and Counties; as well as work with FDOT, SFWMD and the USACE. Their state-of-the-art laboratories boast new and innovative test equipment and are Construction Materials Engineering Council (CMEC) Certified, US Army Corps of Engineers (USACE) Validated and Florida Department of Transportation (FDOT) Qualified.</p> <p>Archaeological and Historical Conservancy, Inc. (AHC) - is a Florida not-for-profit organization dedicated to the investigation and preservation of archaeological and historical</p>
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	<p>sites across Florida and the Bahamas. In 1985, AHC began its first project with excavations at the Cutler Fossil site in Miami-Dade County, and subsequently has documented over 1000 sites throughout Florida. Projects have included investigations at the Miami Circle, Ten Thousand Islands, the Ortona Canals, Fort Pierce, Okeechobee Battlefield and Fort Van Swearingen. They are experts on prehistoric Florida and Seminole War sites. The Archaeological and Historical Conservancy conducts archaeological and historical assessments, surveys, investigations, excavations, and monitoring. These services are provided for public agencies, developers, businesses, and museums.</p> <p>Andres Montero Landscape Architecture, LLC (AMLA) – (CBE & SBE) is a Broward based Landscape Architecture firm located in Fort Lauderdale. Their team of talented professionals has over twenty-three years of experience in planning and landscape architecture at the highest levels of conceptual thinking and professional performance for urban design projects of various scales, residential communities, hotels, resorts, as well as private residences. They are used to collaborate with professionals from different fields to best integrate design into the sites and their surroundings. AMLA is Broward CBE certified and SBE certified with FDOT.</p> <p>Premiere Design Services, Inc. (PDS) - (CBE & DBE) is a Broward County locally based minority firm, established in 2007. The PDS professional staff brings over 100 years of combined experience. Their services include an in-house topographic surveying team, with the knowledge and capability to perform soft digs, engineering designers, and construction managers. PDS provides a wide range of engineering services, cost engineering and construction phase services in civil and transportation engineering. They can plan, design, and oversee construction of facilities to meet client’s needs. Most important, they work closely with each client to make sure that their innovative and cost-saving solutions are tailored to their client’s individual needs.</p> <p>Dickey Consulting Services, Inc (DCS) - (CBE, DBE, ACDBE & W&MBE) is a public/government relations consulting firm. DCS provides services to public and private enterprises by coordinating, implementing, and promoting projects related to transportation studies and construction, water and sewer infrastructure, airport expansion and noise mitigation, economic and community development, as well as other related initiatives. DCS provides guidance on development of effective partnerships and achieving collective objectives,</p>
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	<p>working closely with administrators and elected officials to create, implement and promote projects. DCS performs liaison services on behalf of government officials by creating partnerships with the community, businesses and policymakers, before implementing proposed initiatives.</p> <p>Cyriacks Environmental Consulting Services, Inc. (CECOS) – (CBE & DBE) was formed in 2003 to provide high quality professional environmental and ecological consulting services. Wendy Cyriacks, with over 30 years of environmental experience in Florida, is president of CECOS and will be directly involved in this contract. CECOS provides a wide range of environmental and ecological consulting services including environmental permitting, environmental monitoring and permit compliance, NEPA documentation, sea-level rise analysis, and resilience studies. They are specialists in providing services for the Broward County Highway and Construction Engineering, Aviation, Port Everglades, FDOT and many others. CECOS is 100% Woman Owned Company and is certified with Broward County as a CBE.</p> <p>PROJECT UNDERSTANDING AND VISION</p> <p>HBC understands the County will select one consultant firm to provide consulting services for Consulting Services for Pine Island Road from Griffin Road to Nova Drive, Solicitation PNC2120376P1. The project is located within an urbanized area, primarily developed with single family homes. Community features identified along the corridor include Grand Oaks Golf Club, Bamford Sports Complex and Pine Island Park, and Linear Park Trail which runs parallel to Orange Drive and the C-11 (South River Drive Canal). A NRHP eligible archaeologic site, East Midden site - BD 1113, is present in the vicinity of Pine Island Road and Forest Ridge Boulevard. This site has documented human remains. An archaeological study was undertaken in 2015 by Archaeological and Historical Conservancy, Inc and a recommendation of this study was for future roadway improvements to widen the roadway to the west to avoid impacting intact cultural deposits and likely human remains present under the eastern lanes. HBC and team members are ready and available to provide design services to widen this segment of Pine Island Rd from Griffin Road to Nova Drive from four (4) lanes road to six (6) lanes road with bicycle lanes and sidewalks in each direction.</p>
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		<p>HBC will provide Broward County with complete signed and sealed plans, specifications, reports, studies, and any other applicable documentation as set forth in or required by Chapter 61G15, Florida Administrative Code & Florida Administrative Register, Department of Business and Professional Regulation, Board of Professional Engineers. Any and all plans, specifications, reports, studies, and documentation, must be produced to Florida Department of Transportation and Broward County Standards, using the current editions of the FDOT Standard Plans for Road and Bridge Construction, Florida Design Manual and Standard Specifications for Road and Bridge Construction where applicable, Florida Greenbook, and any other applicable FDOT manual, guideline, or standard. HBC will obtain all regulatory permits necessary for the construction of the Project. HBC will provide Broward County with copies of signed acceptances obtained from any maintaining agency, state, city, or county. The HBC team will be responsible for coordinating, preparing, and holding all project public involvement meetings as required. All design services including required permits from all applicable agencies should be completed within, 18 months from the Notice to Proceed.</p> <p>PROJECT ADMINISTRATION</p> <p>Prior to the initiation of the project an outline for project administration and public consensus will be developed and agreed upon. These items will relate to internal and external communications and seek to keep all project goals, expectations, schedule, and outcomes aligned. As part of this initial task, a detailed schedule will be refined and communicated in order to ensure the project is completed in the allotted time period. We recognize the management of the project and schedule is key to the success for this project. All HBC team members will be included in the development of the schedule to ensure the schedule is realistic and attainable. The HBC team will provide Project Manager Adebayo Coker, PE and staff to administer the professional services described in this Scope of Services for the duration of the project. Bayo personally commits to each and every project in his charge. He will monitor the schedule and budget biweekly throughout the life of the contract. The HBC team shall be available for progress meetings with County Staff, Boards and Elected Officials throughout the duration of the project.</p>
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		<p>PUBLIC INVOLVEMENT</p> <p>The HBC team will develop presentations and host public outreach meetings in an effort to communicate the intent of the project to the public. This may also include the facilitation of workshops with various stakeholders at key points through the design process. Our team is very familiar with the stakeholders and community having worked in this community for so many years. We have led several projects through various forms of community involvement. Depending on the project need, location, and complexity, our team can provide meeting notifications, website development, signage/advertisement, presentations, and more.</p> <p>The key components to the process are:</p> <ul style="list-style-type: none">• Preparation and Clear Communication – The preparation for any public or community input is key to achieving results.• Method of Delivery – The delivery method needs to match the target audience, including modern techniques.• Document the Response – A clear summary of the information acquired during the process is paramount.• Analyze and Distill Data – The art of public input is to separate the “signals” from the “noise”. <p>WE KNOW THE LOCAL COMMUNITY</p> <p>The HBC team will utilize Dickey Consulting Services (DCS) to lead the team’s public involvement and community outreach. DCS is a part of the community it serves, and so when it comes to public involvement services, DCS is considered to be a neighbor and friend – not just a consultant. We understand that the public is a valuable partner in a project’s success. DCS provides public involvement and community outreach as part of a comprehensive suite of professional consulting services. They develop a personalized focus by carefully examining the affected community and taking great care in selecting key services, based upon project and client goals, at the onset of every assignment. DCS determines the critical elements of an effective public involvement program and adopt a proactive approach to truly engage the community. It is our Team’s goal to maximize the project’s positive outcome and minimize the adverse impact. Each community is unique.</p> <p>Our team has gained a level of understanding as to what is important to the citizens and to determine how they will be impacted. The public and key stakeholders are involved from</p>
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	<p>the earliest possible point in the project’s evolution – from the conceptual and study phases, through design and construction. We will partner with local governments, businesses, neighborhood associations, and other appropriate organizations to facilitate community-wide communication. Through carefully planned involvement activities such as open houses, opinions are gathered, and findings are presented.</p> <p>Our Team will share appropriate and timely project information with those in the community, and conversely, alert project owners as to its perspectives and concerns. This leads to public and stakeholder trust and confidence in the project.</p> <p>Our Public Outreach approach includes:</p> <ul style="list-style-type: none">• Preparation of a database of homeowners, residents and businesses• Preparation of project collateral brochures, flyer’s, fact sheets, notification letters, news articles, e-newsletters, website maintenance and public notices• Notifying the businesses in advance of the project start date via door to door visit• Preparation and distribution of information• Coordination and attendance at public meetings with established neighborhood associations or community groups, schools, and business owners during design and construction as determined and directed by the County• Hold public meetings as early and often as the County sees fit• During construction of the project, respond to the businesses, property owners and resident inquiries daily basis and keep a log of inquiries/complaints with responses verifying resolutions <p>In addition to the above, the HBC team understands that “new media” isn’t that new anymore— and is here to stay. Social media platforms are just another set of communication tools, and you need to customize them to fit your audiences and be consistent and sustained with your outreach. We keep in mind that audiences and interested parties change as a project progresses through planning, design and construction phases. Including an experienced public affairs firm like DCS as part of the HBC team will ensure communication goals are accomplished in the most efficient and effective ways possible.</p>
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		<p>COMMITMENT TO SUCCESS</p> <p>Every member of our design team has a proven history of successfully completing projects of this size and nature, and this contract has our full attention and commitment. Each member of our team is wholly committed to the success of work authorizations to be issued under this contract. At HBC, we carefully monitor, measure and push to fruition each and every activity on the work authorization. We measure its progress to ensure we remain on track and on schedule. This is true through planning, design, permitting, bidding, administration of the construction contract and project close-out. Bayo, as the Project Manager, has no current roadway design contracts with Broward County and is fully committed to the success of this project. Understanding the proposed scope and schedule of the County is fundamental to the success of each project and the HBC team knows what it takes to meet the expected goals and objectives of the County and all the associated stakeholders.</p> <p>TECHNOLOGIES</p> <p>The HBC team possesses a number of technologies that allow us to communicate and deliver on our ideas in a more effective manner. Our team utilizes these technologies both in the field and in the office to improve our efficiencies and quality of our deliverables. This upfront due diligence allows our team to ensure the base plans and data that is used to create future implementation plans is accurate and coordinated. In the design process, our team utilizes a number of visualization tools to create photo realistic renderings and video animations that are often key to presenting ideas to the Public and Elected Officials who are not often accustomed to reading detailed plans. Often, we utilize drone images or footage as a part of this visualization to show before and after scenarios. As we progress to detailed design, our team has the capability of producing drawings in Revit / Civil 3D to allow for coordination of BIM (Building Information Modeling) and CIM (Civil Information Modeling) to allow optimum coordination and performance review of the projects systems. Our team utilizes multiple software platforms as well for both design and project management including but not limited to: AutoCAD, CivilCAD, MicroStation, Adobe Creative Suite (Photoshop, Illustrator, InDesign, Premiere, etc.), Microsoft Suite (Word, Excel, Power Point, Project Scheduler, etc.), Skype, Microsoft Teams Meeting, Zoom and we also have full plotting and scanning capacity in office making production as efficient and cost</p>
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		effective as possible. Please refer to the attached proposal for detailed approach.
	<p>b) Identify potential issues or challenges related to the project. Describe how your project approach will resolve these issues.</p> <p>(20 Points)</p>	<p>Please, refer to Tab 3 – Project Approach for details on issues or challenges related to this project. In this section we describe our approach to the project and in specific to these issues or challenges and present three alternatives.</p> <p>The initial project goals are clearly stated, however prior to finalizing any approach or vision for the project, our team believes it will be key to allow a proper process and collaborative approach to the design. Our visioning process starts with the exploration of the stated project goals/elements and builds with the overlay of context to create an authentic narrative and place for people to enjoy and connect. Our team believes in making every project unique to its location and that there should be no preconceived design approach when it comes to the public realm. The result of this process should be one that achieves excellence in design and aesthetic appearance, but more importantly, serves the needs of the community and improves the social and ecological experience of the place, while keeping the economic influence and outcomes in perspective. A particular challenge associated with a project of this geographic nature will be data collection and design schedules. As outlined above, we will utilize our large battery of local survey crews, as well as the technology available, to collect the data in a timely fashion. We will also utilize the full team of designers will redundant design staff to “divide and conquer” the large geographic area.</p>
3.	Past Performance (25 Points)	
	<p>Describe prime Vendor’s experience on projects of similar nature, scope and duration, along with evidence of satisfactory completion, both on time and within budget, for the past five years. Identify any projects that incorporated both</p>	<p>Please, refer to the body of text in Tab 4 – Past Performance for actual Vendor Reference Verification Forms and for further details on past performance experience.</p> <p>The HBC team has a distinguished history of successfully completing projects. Our success is due to a combination of effective project management, strong technical expertise and steadfast adherence to our quality control program. The HBC team has collectively worked on numerous projects of similar nature in South Florida and the State of Florida. Our success can be seen in our design projects as evidenced and detailed in the example projects this proposal. Our staff provided engineering services to prepare construction plans on many similar projects for the Florida Department of Transportation,</p>

	<p>Roadway and Bridge Design Services.</p> <p>Vendor should provide references for similar work performed to show evidence of qualifications and previous experience. Refer to Vendor Reference Verification Form and submit as instructed. Only provide references for non-Broward County Board of County Commissioners contracts. For Broward County contracts, the County will review performance evaluations in its database for vendors with previous or current contracts with the County. The County considers references and performance evaluations in the evaluation of Vendor's past performance.</p>	<p>Miami-Dade County, and other clients. The following is a sampling of similar projects performed by the HBC team.</p> <p>Projects include:</p> <ul style="list-style-type: none"> ▪ ROADWAY IMPROVEMENTS TO NE 2nd AVENUE FROM NE 69TH STREET TO NE 84TH STREET ▪ SW 147TH AVENUE RECONSTRUCTION FROM SW 17TH STREET TO SW 26TH STREET ▪ NORTHEAST TRANSIT HUB ENHANCEMENTS AT THE 163RD STREET MALL ▪ SR 7/US 441 TRANSIT CORRIDOR IMPROVEMENTS GROUP/PRIORITY 1 ▪ SR 858/HALLANDALE BEACH BOULEVARD FROM SR 7 TO LAKESHORE DRIVE ▪ HOLLYWOOD GARDENS SIDEWALK PROJECT, BROWARD COUNTY ▪ MIAMI CENTRAL HIGH SCHOOL – 1781 NW 95 ST. ▪ SR 845/POWERLINE RD. ▪ SW 30 AVE – FROM GRIFFIN RD. TO SW 45 ST., BROWARD COUNTY ▪ SR 5/US 1/OVERSEAS HWY FROM N. DOLPHIN AVE. TO KYLE AVE. ▪ I-95 NORTHBOUND & SOUTHBOUND RIGID PAVEMENT REHABILITATION INCLUDING RAMPS ▪ AUGER WELL REMEDIATION PHASE II – CITY OF MIAMI ▪ SR 80/SOUTHERN BLVD. SIGNALIZATION IMPROVEMENTS ▪ SR 821 (HEFT) WIDENING FROM NORTH OF SW 72 ST. TO NORTH OF SW 40 ST. ▪ SR 713 KINGS HIGHWAY LIGHTING/ST. LUCIE COUNTY ▪ DISTRICTWIDE PEDESTRIAN LIGHTING RETROFITS ▪ MIAMI CENTRAL HIGH SCHOOL – 1781 NW 95 ST. <p>This list of past experience on similar projects in Broward County is just a sample of a large number of examples. These projects were selected because they cover all relevant aspects of design, studies, permitting, and reporting that are needed for this project.</p>
4.	<p>Workload of the Firm (5 Points)</p>	
	<p>For the Prime Vendor only, list all completed and active projects that Vendor has</p>	<p>Please, refer to the body of text in Tab 5 – HBC's Workload for HBC's work history and other considerations regarding workload.</p>

	<p>managed within the past five years. In addition, list all projected projects that Vendor will be working on in the near future. Projected projects will be defined as a project(s) that Vendor is awarded a contract but the Notice to Proceed has not been issued. Identify any projects that Vendor worked on concurrently. Describe Vendor's approach to managing these projects. Were there or will there be any challenges for any of these listed projects? If so, describe how Vendor dealt or will deal with projects' challenges.</p>	<p>HBC manages its long and short-term workload through a policy of proactive management and resource/ personnel sharing. Our diverse staff wear many hats; we have committed to the time and energy required to meet the schedule requirements of similar contracts in the past and continue to be committed in providing unparalleled service to this contract. Delays are contained and minimized through routine weekly department/ project meetings aimed at maximizing project scheduling effectiveness. Senior management oversight and weekly interaction guarantees our Teams have those discussions to deliver the projects successfully.</p> <p>Given our current and projected workloads, HBC has the administrative know-how and the staff to manage large and small work authorizations, the management skills and the technical expertise to ensure top quality is always delivered to Broward County. Given our current and projected workloads, HBC and its subconsultant team can and will provide the personnel and resources required to service the Broward County for this contract.</p> <p>Adebayo Coker, PE, as the Project Manager and President of HBC, will ensure that adequate office and field personnel are always available as needed for this contract. Since 2018, HBC has substantially increased its overall staff creating more capacity at all levels within the firm. HBC is constantly monitoring staff growth to ensure the proper staff is always available for Clients like Broward County at a moment's notice.</p>
5.	Location (5 Points)	
	<p>Refer to Local and/or Locally Based Business Preference Certification and Location Tie Breaker Form and submit as instructed. The maximum points shall be assigned to each Locally Based Business and to each joint venture that is composed solely of</p>	<p>Twelve of HBC's staff currently reside in Broward County but some of them commute to other Counties because we need to win work in Broward to allow them to stay closer to their community.</p> <p>HBC has had a Broward office for a few years and is registered as a CBE and DBE in Broward. More recently, HBC's principal place of business in Broward County is located at: 5200 NW 33rd Avenue, Suite 211, Fort Lauderdale, FL 33309. We have completed and "accepted" via BidSync the Location Attestation Form.</p>

	Locally Based Businesses.	
6.	Willingness to Meet Time and Budget Requirements (2 Points)	
	<p>State the Vendor's willingness to meet the project's completion date requirement and willingness to keep project total costs below the project budget.</p> <p>Completion Date Requirement: Design duration is 18 months. Estimated Project Budget: \$2,625,000 for various pre-design, design consulting services, and post design services; \$24,875,000 for construction and CEI services.</p> <p>YES – 2 Points NO = 0 Points</p>	<p>Yes. HBC is committed to meet the project's completion date and willingness to keep project costs below project budget. HBC has historically completed projects ahead of schedule and within budget parameters. Our hands-on project approach and dedicated team, as described in previous sections, has proven their ability to control the design process, expedite the permitting process and move quickly into construction. Our budgets are based on historical costs for similar projects and estimated levels of effort anticipated for each individual project.</p> <p>Combining our local knowledge and input from key subconsultant partners, on the elements needed to plan and execute the project, we are confident the project can be completed within the time and budget allotted.</p> <p>The HBC team is willing and confident we can meet anticipated project completion dates for the entire duration of this contract and is willing and able to provide design and construction inspection services to keep total project cost below the project budget ceilings.</p> <p>We will work with Broward County staff to assure individual work order schedules and budgets are properly identified and expectations are understood to deliver on-time projects while being good stewards of the County's funds.</p>
7.	Volume of Previous Work (3 Points)	
	<p>Refer to Volume of Previous Work Attestation Form and the Volume of Previous Work Attestation Joint Venture Form and submit as instructed.</p> <p>The calculation for Volume of Previous</p>	<p>HBC has not worked as a prime consultant with Broward County yet.</p>

	<p>Work is all amounts paid to the prime Vendor by Broward County Board of County Commissioners at the time of the solicitation opening date within a five-year timeframe. Points assigned for Volume of Previous Work will be based on the amount paid-to-date by the County to a prime Vendor MINUS the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/ subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. The calculation of Volume of Previous Work for a prime Vendor previously awarded a contract as a member of a Joint Venture firm is based on the actual equity ownership of the Joint Venture firm.</p> <p>Three points will be allocated to Vendors paid \$0 - \$3,000,000); 2 Points will be</p>	
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	<p>allocated to Vendors paid \$3,000,001 - \$7,500,000; 1 Point will be allocated to Vendors paid \$7,500,001 - \$10,000,000; 0 Points will be allocated to Vendors paid over \$10,000,000). Payments for prime Vendor will be verified by the Purchasing Division.</p>	
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Supplier: HBC Engineering Company

Standard Instructions to Vendors Request for Proposals, Request for Qualifications, or Request for Letters of Interest

Vendors are instructed to read and follow the instructions carefully, as any misinterpretation or failure to comply with instructions may lead to a Vendor's submittal being rejected.

Vendor MUST submit its solicitation response electronically and MUST confirm its submittal in order for the County to receive a valid response through BidSync. Refer to the Purchasing Division website or contact BidSync for submittal instructions.

A. Responsiveness Criteria:

In accordance with Broward County Procurement Code Section 21.8.b.65, a Responsive Bidder [Vendor] means a person who has submitted a proposal which conforms in all material respects to a solicitation. The solicitation submittal of a responsive Vendor must be submitted on the required forms, which contain all required information, signatures, notarizations, insurance, bonding, security, or other mandated requirements required by the solicitation documents to be submitted at the time of proposal opening.

Failure to provide the information required below at the time of submittal opening may result in a recommendation Vendor is non-responsive by the Director of Purchasing. The Selection or Evaluation Committee will determine whether the firm is responsive to the requirements specified herein. The County reserves the right to waive minor technicalities or irregularities as is in the best interest of the County in accordance with Section 21.30.f.1(c) of the Broward County Procurement Code.

Below are standard responsiveness criteria; refer to **Special Instructions to Vendors**, for Additional Responsiveness Criteria requirement(s).

1. Lobbyist Registration Requirement Certification

Refer to **Lobbyist Registration Requirement Certification**. The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

2. Addenda

The County reserves the right to amend this solicitation prior to the due date. Any change(s) to this solicitation will be conveyed through the written addenda process. Only written addenda will be binding. If a "must" addendum is issued, Vendor must follow instructions and submit required information, forms, or acknowledge addendum, as instructed therein. It is the responsibility of all potential Vendors to monitor the solicitation for any changing information, prior to submitting their response.

B. Responsibility Criteria:

Definition of a Responsible Vendor: In accordance with Section 21.8.b.64 of the Broward County Procurement Code, a Responsible Vendor means a Vendor who has the capability in all respects to perform the contract requirements, and the integrity and reliability which will assure good faith performance.

The Selection or Evaluation Committee will recommend to the awarding authority a determination of a Vendor's responsibility. At any time prior to award, the awarding authority may find that a Vendor is not responsible to receive a particular award.

Failure to provide any of this required information and in the manner required may result in a recommendation by the Director of Purchasing that the Vendor is non-responsive.

Below are standard responsibility criteria; refer to **Special Instructions to Vendors**, for Additional Responsibility Criteria requirement(s).

1. Litigation History

- a. All Vendors are required to disclose to the County all “material” cases filed, pending, or resolved during the last three (3) years prior to the solicitation response due date, whether such cases were brought by or against the Vendor, any parent or subsidiary of the Vendor, or any predecessor organization. Additionally, all Vendors are required to disclose to the County all “material” cases filed, pending, or resolved against any principal of Vendor, regardless of whether the principal was associated with Vendor at the time of the “material” cases against the principal, during the last three (3) years prior to the solicitation response. A case is considered to be “material” if it relates, in whole or in part, to any of the following:
 - i. A similar type of work that the vendor is seeking to perform for the County under the current solicitation;
 - ii. An allegation of fraud, negligence, error or omissions, or malpractice against the vendor or any of its principals or agents who would be performing work under the current solicitation;
 - iii. A vendor’s default, termination, suspension, failure to perform, or improper performance in connection with any contract;
 - iv. The financial condition of the vendor, including any bankruptcy petition (voluntary and involuntary) or receivership; or
 - v. A criminal proceeding or hearing concerning business-related offenses in which the vendor or its principals (including officers) were/are defendants.
- b. For each material case, the Vendor is required to provide all information identified in the **Litigation History Form**. Additionally, the Vendor shall provide a copy of any judgment or settlement of any material case during the last three (3) years prior to the solicitation response. Redactions of any confidential portions of the settlement agreement are only permitted upon a certification by Vendor that all redactions are required under the express terms of a pre-existing confidentiality agreement or provision.
- c. The County will consider a Vendor’s litigation history information in its review and determination of responsibility.
- d. If the Vendor is a joint venture, the information provided should encompass the joint venture and each of the entities forming the joint venture.
- e. A vendor is required to disclose to the County any and all cases(s) that exist between the County and any of the Vendor’s subcontractors/subconsultants proposed to work on this project during the last five (5) years prior to the solicitation response.
- f. Failure to disclose any material case, including all requested information in connection with each such case, as well as failure to disclose the Vendor’s subcontractors/subconsultants litigation history against the County, may result in the Vendor being deemed non-responsive.

2. Financial Information

- a. All Vendors are required to provide the Vendor's financial statements at the time of submittal in order to demonstrate the Vendor's financial capabilities.
- b. Each Vendor shall submit its most recent two years of financial statements for review. The financial statements are not required to be audited financial statements. The annual financial statements will be in the form of:
 - i. Balance sheets, income statements and annual reports; or
 - ii. Tax returns; or
 - iii. SEC filings.

If tax returns are submitted, ensure it does not include any personal information (as defined under Florida Statutes Section 501.171, Florida Statutes), such as social security numbers, bank account or credit card numbers, or any personal pin numbers. If any personal information data is part of financial statements, redact information prior to submitting a response the County.

- c. If a Vendor has been in business for less than the number of years of required financial statements, then the Vendor must disclose all years that the Vendor has been in business, including any partial year-to-date financial statements.
- d. The County may consider the unavailability of the most recent year's financial statements and whether the Vendor acted in good faith in disclosing the financial documents in its evaluation.
- e. Any claim of confidentiality on financial statements should be asserted at the time of submittal. Refer to **Standard Instructions to Vendors**, Confidential Material/ Public Records and Exemptions for instructions on submitting confidential financial statements. The Vendor's failure to provide the information as instructed may lead to the information becoming public.
- f. Although the review of a Vendor's financial information is an issue of responsibility, the failure to either provide the financial documentation or correctly assert a confidentiality claim pursuant the Florida Public Records Law and the solicitation requirements (Confidential Material/ Public Records and Exemptions section) may result in a recommendation of non-responsiveness by the Director of Purchasing.

3. Authority to Conduct Business in Florida

- a. A Vendor must have the authority to transact business in the State of Florida and be in good standing with the Florida Secretary of State. For further information, contact the Florida Department of State, Division of Corporations.
- b. The County will review the Vendor's business status based on the information provided in response to this solicitation.
- c. It is the Vendor's responsibility to comply with all state and local business requirements.
- d. Vendor should list its active Florida Department of State Division of Corporations Document Number (or Registration No. for fictitious names) in the **Vendor Questionnaire**, Question No. 10.
- e. If a Vendor is an out-of-state or foreign corporation or partnership, the Vendor must obtain the authority to transact business in the State of Florida or show evidence of application for the authority to transact business in the State of Florida, upon request of the County.
- f. A Vendor that is not in good standing with the Florida Secretary of State at the time of a submission to this solicitation may be deemed non-responsible.
- g. If successful in obtaining a contract award under this solicitation, the Vendor must remain in good standing throughout the contractual period of performance.

4. Affiliated Entities of the Principal(s)

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County. The Vendor is required to provide all information required on the **Affiliated Entities of the Principal(s) Certification Form**.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Program, including CBE, DBE and SBE goal attainment requirements. "Affiliated entities" of the principal(s) are those entities

related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.

- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

5. Insurance Requirements

The **Insurance Requirement Form** reflects the insurance requirements deemed necessary for this project. It is not necessary to have this level of insurance in effect at the time of submittal, but it is necessary to submit certificates indicating that the Vendor currently carries the insurance or to submit a letter from the carrier indicating it can provide insurance coverages.

C. Additional Information and Certifications

The following forms and supporting information (if applicable) should be returned with Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

1. Vendor Questionnaire

Vendor is required to submit detailed information on their firm. Refer to the **Vendor Questionnaire** and submit as instructed.

2. Standard Certifications

Vendor is required to certify to the below requirements. Refer to the **Standard Certifications** and submit as instructed.

- a. **Cone of Silence Requirement Certification**
- b. **Drug-Free Workplace Certification**
- c. **Non-Collusion Certification**
- d. **Public Entities Crimes Certification**
- e. **Scrutinized Companies List Certification**

3. Subcontractors/Subconsultants/Suppliers Requirement

The Vendor shall submit a listing of all subcontractors, subconsultants, and major material suppliers, if any, and the portion of the contract they will perform. Vendors must follow the instructions included on the **Subcontractors/Subconsultants/Suppliers Information Form** and submit as instructed.

D. Standard Agreement Language Requirements

1. The acceptance of or any exceptions taken to the terms and conditions of the County's Agreement shall be considered a part of a Vendor's submittal and will be considered by the Selection or Evaluation Committee.
2. The applicable Agreement terms and conditions for this solicitation are indicated in the **Special Instructions to Vendors**.
3. Vendors are required to review the applicable terms and conditions and submit the **Agreement Exception Form**. If the **Agreement Exception Form** is not provided with the submittal, it shall be deemed an affirmation by the Vendor that it accepts the Agreement terms and conditions as disclosed in the solicitation.
4. If exceptions are taken, the Vendor must specifically identify each term and condition with which it is taking an exception. Any exception not specifically listed is deemed waived. Simply identifying a section or article number is not sufficient to state an exception. Provide either a redlined version of the specific change(s) or specific proposed alternative language. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.
5. Submission of any exceptions to the Agreement does not denote acceptance by the County. Furthermore, taking exceptions to the County's terms and conditions may be viewed unfavorably by

the Selection or Evaluation Committee and ultimately may impact the overall evaluation of a Vendor's submittal.

E. Evaluation Criteria

1. The Selection or Evaluation Committee will evaluate Vendors as per the **Evaluation Criteria**. The County reserves the right to obtain additional information from a Vendor.
2. Vendor has a continuing obligation to inform the County in writing of any material changes to the information it has previously submitted. The County reserves the right to request additional information from Vendor at any time.
3. For Request for Proposals, the following shall apply:
 - a. The Director of Purchasing may recommend to the Evaluation Committee to short list the most qualified firms prior to the Final Evaluation.
 - b. The Evaluation Criteria identifies points available; a total of 100 points is available.
 - c. If the Evaluation Criteria includes a request for pricing, the total points awarded for price is determined by applying the following formula:

$$\frac{(\text{Lowest Proposed Price}/\text{Vendor's Price}) \times (\text{Maximum Number of Points for Price})}{\text{Price Score}} =$$
 - d. After completion of scoring, the County may negotiate pricing as in its best interest.
4. For Requests for Letters of Interest or Request for Qualifications, the following shall apply:
 - a. The Selection or Evaluation Committee will create a short list of the most qualified firms.
 - b. The Selection or Evaluation Committee will either:
 - i. Rank shortlisted firms; or
 - ii. If the solicitation is part of a two-step procurement, shortlisted firms will be requested to submit a response to the Step Two procurement.

F. Demonstrations

If applicable, as indicated in Special Instructions to Vendors, Vendors will be required to demonstrate the nature of their offered solution. After receipt of submittals, all Vendors will receive a description of, and arrangements for, the desired demonstration. In accordance with Section 286.0113 of the Florida Statutes and pursuant to the direction of the Broward County Board of Commissioners, demonstrations are closed to only the vendor team and County staff.

G. Presentations

Vendors that are found to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) will have an opportunity to make an oral presentation to the Selection or Evaluation Committee on the Vendor's approach to this project and the Vendor's ability to perform. The committee may provide a list of subject matter for the discussion. All Vendor's will have equal time to present but the question-and-answer time may vary. In accordance with Section 286.0113 of the Florida Statutes and the direction of the Broward County Board of Commissioners, presentations during Selection or Evaluation Committee Meetings are closed. Only the Selection or Evaluation Committee members, County staff and the vendor and their team scheduled for that presentation will be present in the Meeting Room during the presentation and subsequent question and answer period.

H. Public Art and Design Program

If indicated in **Special Instructions to Vendors**, Public Art and Design Program, Section 1-88, Broward County Code of Ordinances, applies to this project. It is the intent of the County to functionally integrate art, when applicable, into capital projects and integrate artists' design concepts into this improvement project. The Vendor may be required to collaborate with the artist(s) on design development within the scope of this request. Artist(s) shall be selected by Broward County through an independent process. For additional information, contact the Broward County Cultural Division.

I. Committee Appointment

The Cone of Silence shall be in effect for County staff at the time of the Selection or Evaluation Committee appointment and for County Commissioners and Commission staff at the time of the Shortlist Meeting of the Selection Committee or the Initial Evaluation Meeting of the Evaluation Committee. The committee members appointed for this solicitation are available on the Purchasing Division's website under Committee Appointment.

J. Committee Questions, Request for Clarifications, Additional Information

At any committee meeting, the Selection or Evaluation Committee members may ask questions, request clarification, or require additional information of any Vendor's submittal or proposal. It is highly recommended Vendors attend to answer any committee questions (if requested), including a Vendor representative that has the authority to bind.

Vendor's answers may impact evaluation (and scoring, if applicable). Upon written request to the Purchasing Agent prior to the meeting, a conference call number will be made available for Vendor participation via teleconference. Only Vendors that are found to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) are requested to participate in a final (or presentation) Selection or Evaluation committee meeting.

K. Vendor Questions

The County provides a specified time for Vendors to ask questions and seek clarification regarding solicitation requirements. All questions or clarification inquiries must be submitted through BidSync by the date and time referenced in the solicitation document (including any addenda). The County will respond to questions via Bid Sync.

L. Confidential Material/ Public Records and Exemptions

1. Broward County is a public agency subject to Chapter 119, Florida Statutes. Upon receipt, all submittals become "public records" and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes. Submittals may be posted on the County's public website or included in a public records request response, unless there is a declaration of "confidentiality" pursuant to the public records law and in accordance with the procedures in this section.
2. Any confidential material(s) the Vendor asserts is exempt from public disclosure under Florida Statutes must be labeled as "Confidential", and marked with the specific statute and subsection asserting exemption from Public Records.
3. To submit confidential material, three hardcopies must be submitted in a sealed envelope, labeled with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division
115 South Andrews Avenue, Room 212
Fort Lauderdale, FL 33301

4. Material will not be treated as confidential if the Vendor does not cite the applicable Florida Statute(s) allowing the document to be treated as confidential.

5. Any materials that the Vendor claims to be confidential and exempt from public records must be marked and separated from the submittal. If the Vendor does not comply with these instructions, the Vendor's claim for confidentiality will be deemed as waived.
6. Submitting confidential material may impact full discussion of your submittal by the Selection or Evaluation Committee because the Committee will be unable to discuss the details contained in the documents cloaked as confidential at the publicly noticed Committee meeting.

M. Copyrighted Materials

Copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Submission of copyrighted material in response to any solicitation will constitute a license and permission for the County to make copies (including electronic copies) as reasonably necessary for the use by County staff and agents, as well as to make the materials available for inspection or production pursuant to Public Records Law, Chapter 119, Florida Statutes.

N. State and Local Preferences

If the solicitation involves a federally funded project where the fund requirements prohibit the use of state and/or local preferences, such preferences contained in the Local Preference Ordinance and Broward County Procurement Code will not be applied in the procurement process.

O. Local Preference

The following local preference provisions shall apply except where otherwise prohibited by federal or state law or other funding source restrictions.

For all competitive solicitations in which objective factors used to evaluate the responses from vendors are assigned points totals, five percent (5%) of the available evaluation criteria points (for example, five points of a total 100 points), shall be assigned to Locally Based Businesses as follows:

- a. The maximum points shall be awarded to each Locally Based Business and to each joint venture that is composed solely of Locally Based Businesses; and
- b. For any other joint venture, points shall be awarded based upon the proportion of Locally Based Businesses' equity interests in the joint venture.

If, upon the completion of final rankings (technical and price combined, if applicable) by the evaluation committee, a nonlocal vendor is the highest ranked vendor and one or more Local Businesses (as defined by Section 1-74 of the Broward County Code of Ordinances) are within five percent (5%) of the total points obtained by the nonlocal vendor, the highest ranked Local Business shall be deemed to be the highest ranked vendor overall, and the County shall proceed to negotiations with that vendor. If impasse is reached, the County shall next proceed to negotiations with the next highest ranked Local Business that was within five percent (5%) of the total points obtained by the nonlocal vendor, if any.

Refer to Section 1-75 of the Broward County Local Preference Ordinance and the **Local and/or Locally Based Business Certification Form** for further information.

P. Tiebreaker Criteria

In accordance with Section 21.31.d of the Broward County Procurement Code, the tiebreaker criteria shall be applied based upon the information provided in the Vendor's response to the solicitation. In order to receive credit for any tiebreaker criterion, complete and accurate information must be contained in the Vendor's submittal.

1. **Location Tiebreaker Form**
2. **Domestic Partnership Act Certification (Requirement and Tiebreaker);**
3. **Tiebreaker Criteria Form: Volume of Work Over Five Years**

Q. Posting of Solicitation Results and Recommendations

The Broward County Purchasing Division's website is the location for the County's posting of all solicitations and contract award results. It is the obligation of each Vendor to monitor the website in order to obtain complete and timely information.

R. Review and Evaluation of Responses

A Selection or Evaluation Committee is responsible for recommending the most qualified Vendor(s). The process for this procurement may proceed in the following manner:

1. The Purchasing Division delivers the solicitation submittals to agency staff for summarization for the committee members. Agency staff prepares a report, including a matrix of responses submitted by the Vendors. This may include a technical review, if applicable.
2. Staff identifies any incomplete responses. The Director of Purchasing reviews the information and makes a recommendation to the Selection or Evaluation Committee as to each Vendor's responsiveness to the requirements of the solicitation. The final determination of responsiveness rests solely on the decision of the committee.
3. At any time prior to award, the awarding authority may find that a Vendor is not responsible to receive a particular award. The awarding authority may consider the following factors, without limitation: debarment or removal from the authorized Vendors list or a final decree, declaration or order by a court or administrative hearing officer or tribunal of competent jurisdiction that the Vendor has breached or failed to perform a contract, claims history of the Vendor, performance history on a County contract(s), an unresolved concern, or any other cause under this code and Florida law for evaluating the responsibility of a Vendor.

S. Vendor Protest

Sections 21.118 and 21.120 of the Broward County Procurement Code set forth procedural requirements that apply if a Vendor intends to protest a solicitation or proposed award of a contract and state in part the following:

1. Any protest concerning the solicitation or other solicitation specifications or requirements must be made and received by the County within seven business days from the posting of the solicitation or addendum on the Purchasing Division's website. Such protest must be made in writing to the Director of Purchasing. Failure to timely protest solicitation specifications or requirements is a waiver of the ability to protest the specifications or requirements.
2. Any protest concerning a solicitation or proposed award above the award authority of the Director of Purchasing, after the RLI or RFP opening, shall be submitted in writing and received by the Director of Purchasing within five business days from the posting of the recommendation of award for Invitation to Bids or the final recommendation of ranking for Request for Letters of Interest and Request for Proposals on the Purchasing Division's website.
3. Any actual or prospective Vendor who has a substantial interest in and is aggrieved in connection with the proposed award of a contract that does not exceed the amount of the award authority of the Director of Purchasing, may protest to the Director of Purchasing. The protest shall be submitted in writing and received within three (3) business days from the posting of the recommendation of award for Invitation to Bids or the final recommendation of ranking for Request for Letters of Interest and Request for Proposals on the Purchasing Division's website.
4. For purposes of this section, a business day is defined as Monday through Friday between 8:30 a.m. and 5:00 p.m. Failure to timely file a protest within the time prescribed for a proposed contract award shall be a waiver of the Vendor's right to protest.

5. As a condition of initiating any protest, the protestor shall present the Director of Purchasing a nonrefundable filing fee in accordance with the table below.

<u>Estimated Contract Amount</u>	<u>Filing Fee</u>
\$30,000 - \$250,000	\$ 500
\$250,001 - \$500,000	\$1,000
\$500,001 - \$5 million	\$3,000
Over \$5 million	5,000

If no contract proposal amount was submitted, the estimated contract amount shall be the County's estimated contract price for the project. The County may accept cash, money order, certified check, or cashier's check, payable to Broward County Board of Commissioners.

T. Right of Appeal

Pursuant to Section 21.83.d of the Broward County Procurement Code, any Vendor that has a substantial interest in the matter and is dissatisfied or aggrieved in connection with the Selection or Evaluation Committee's determination of responsiveness may appeal the determination pursuant to Section 21.120 of the Broward County Procurement Code.

1. The appeal must be in writing and sent to the Director of Purchasing within ten (10) calendar days of the determination by the Selection or Evaluation Committee to be deemed timely.
2. As required by Section 21.120, the appeal must be accompanied by an appeal bond by a Vendor having standing to protest and must comply with all other requirements of this section.
3. The institution and filing of an appeal is an administrative remedy to be employed prior to the institution and filing of any civil action against the County concerning the subject matter of the appeal.

U. Rejection of Responses

The Selection or Evaluation Committee may recommend rejecting all submittals as in the best interests of the County. The rejection shall be made by the Director of Purchasing, except when a solicitation was approved by the Board, in which case the rejection shall be made by the Board.

V. Negotiations

The County intends to conduct the first negotiation meeting no later than two weeks after approval of the final ranking as recommended by the Selection or Evaluation Committee. At least one of the representatives for the Vendor participating in negotiations with the County must be authorized to bind the Vendor. In the event that the negotiations are not successful within a reasonable timeframe (notification will be provided to the Vendor) an impasse will be declared and negotiations with the first-ranked Vendor will cease. Negotiations will begin with the next ranked Vendor, etc. until such time that all requirements of Broward County Procurement Code have been met. In accordance with Section 286.0113 of the Florida Statutes and the direction of the Broward County Board of Commissioners, negotiations resulting from Selection or Evaluation Committee Meetings are closed. Only County staff and the selected vendor and their team will be present during negotiations.

W. Submittal Instructions:

1. Broward County does not require any personal information (as defined under Section 501.171, Florida Statutes), such as social security numbers, driver license numbers, passport, military ID, bank account or credit card numbers, or any personal pin numbers, in order to submit a response for ANY Broward County solicitation. DO NOT INCLUDE any personal information data in any document submitted to the County. If any personal information data is part of a submittal, this information must be redacted prior to submitting a response to the County.
2. **Vendor MUST submit its solicitation response electronically and MUST confirm its submittal in order for the County to receive a valid response through BidSync.** It is the Vendor's sole

responsibility to assure its response is submitted and received through BidSync by the date and time specified in the solicitation.

3. The County will not consider solicitation responses received by other means. Vendors are encouraged to submit their responses in advance of the due date and time specified in the solicitation document. In the event that the Vendor is having difficulty submitting the solicitation document through Bid Sync, immediately notify the Purchasing Agent and then contact BidSync for technical assistance.
4. Vendor must view, submit, and/or accept each of the documents in BidSync. Web-fillable forms can be filled out and submitted through BidSync.
5. After all documents are viewed, submitted, and/or accepted in BidSync, the Vendor must upload additional information requested by the solicitation (i.e. Evaluation Criteria and Financials Statements) in the Item Response Form in BidSync, under line one (regardless if pricing requested).
6. Vendor should upload responses to Evaluation Criteria in Microsoft Word or Excel format.
7. If the Vendor is declaring any material confidential and exempt from Public Records, refer to Confidential Material/ Public Records and Exemptions for instructions on submitting confidential material.
8. After all files are uploaded, Vendor must submit and **CONFIRM** its offer (by entering password) for offer to be received through BidSync.
9. If a solicitation requires an original Proposal Bond (per Special Instructions to Vendors), Vendor must submit in a sealed envelope, labeled with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division
115 South Andrews Avenue, Room 212
Fort Lauderdale, FL 33301

A copy of the Proposal Bond should also be uploaded into Bid Sync; this does not replace the requirement to have an original proposal bond. Vendors must submit the original Proposal Bond, by the solicitation due date and time.

Supplier: HBC Engineering Company

FDOT Prequalification Form

PNC2120376P1 Consulting Services for Pine Island Road from Griffin Road to Nova Drive

FDOT Pre-Qualification	Name of Firm	Identify Prime and/or Sub-Consultant
3.2 "Major Highway Design".		
4.1.1 Miscellaneous Structure		
6.1 Traffic Engineering Studies		
7.1 Signing, Pavement Marking and Channelization		
7.2 Lighting		
7. 3 Signalizations		
8.1 Control Surveying		
9.1 Soil Exploration		

Supplier: HBC Engineering Company

Office of Economic and Small Business Requirements: CBE Goal Participation

- A. In accordance with the Broward County Business Opportunity Act of 2012, Section 1-81, Code of Ordinances, as amended (the "Business Opportunity Act"), the County Business Enterprise (CBE) Program is applicable to this contract. All Vendors responding to this solicitation are required to utilize CBE firms to perform the assigned participation goal for this contract.
- B. The CBE participation goal will be established based on the expected expenditure amount for the proposed scope of services for the project. The Office of Economic and Small Business Development (OESBD) will not include alternate items, optional services or allowances when establishing the CBE participation goal. If the County subsequently chooses to award any alternate items, optional services or allowances as determined by OESBD and the Contract Administrator to be related to the scope of services, OESBD may apply the established CBE participation goal. In such an instance, the County will issue a written notice to the successful Vendor that the CBE participation goal will also apply to the alternate items, optional services or allowances. Vendor shall submit all required forms pertaining to its compliance with the CBE participation goal, as applicable. Failure by Vendor to submit the required forms may result in the rejection of Vendor's solicitation submittal prior to the award or failure to comply with the contract requirements may have an impact on the vendor performance evaluation post award, as applicable.
- C. CBE Program Requirements: Compliance with CBE participation goal requirements is a matter of responsibility; Vendor should submit all required forms and information with its solicitation submittal. If the required forms and information are not provided with the Vendor's solicitation submittal, then Vendor must supply the required forms and information no later than three (3) business days after request by OESBD. Vendor may be deemed non-responsible for failure to fully comply with CBE Program Requirements within these stated timeframes.
1. Vendor should include in its solicitation submittal a **Letter Of Intent Between Bidder/Offeror and County Business Enterprise (CBE) Subcontractor/Supplier** for each CBE firm the Vendor intends to use to achieve the assigned CBE participation goal. The form is available at the following link: <http://www.broward.org/EconDev/Documents/CBELetterOfIntent.pdf>
 2. If Vendor is unable to attain the CBE participation goal, Vendor should include in its solicitation submittal an **Application for Evaluation of Good Faith Efforts** and all of the required supporting information. The form is available at the following link: <http://www.broward.org/EconDev/WhatWeDo/Documents/GoodFaithEffortEval.pdf>
- D. OESBD maintains an online directory of CBE firms. The online directory is available for use by Vendors at <https://webapps4.broward.org/smallbusiness/sbdirectory.aspx>.
- E. For detailed information regarding the CBE Program contact the OESBD at (954) 357-6400 or visit the website at: <http://www.broward.org/EconDev/SmallBusiness/>
- F. If awarded the contract, Vendor agrees to and shall comply with all applicable requirements of the Business Opportunity Act and the CBE Program in the award and administration of the contract.
1. No party to this contract may discriminate on the basis of race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this contract.
 2. All entities that seek to conduct business with the County, including Vendor or any Prime Contractors, Subcontractors, and Bidders, shall conduct such business activities in a fair and

reasonable manner, free from fraud, coercion, collusion, intimidation, or bad faith. Failure to do so may result in the cancellation of this solicitation, cessation of contract negotiations, revocation of CBE certification, and suspension or debarment from future contracts.

3. If Vendor fails to meet or make Good Faith Efforts (as defined in the Business Opportunity Act) to meet the CBE participation commitment (the "Commitment"), then Vendor shall pay the County liquidated damages in an amount equal to fifty percent (50%) of the actual dollar amount by which Vendor failed to achieve the Commitment, up to a maximum amount of ten percent (10%) of the total contract amount, excluding costs and reimbursable expenses. An example of this calculation is stated in Section 1-81.7, Broward County Code of Ordinances.
4. Vendor shall comply with all applicable requirements of the Business Opportunity Act in the award of this contract. Failure by Vendor to carry out any of these requirements shall constitute a material breach of the contract, which shall permit the County to terminate this contract or to exercise any other remedy provided under this contract, the Broward County Code of Ordinances, the Broward County Administrative Code, or other applicable laws, with all such remedies being cumulative.
5. Vendor shall pay its CBE subcontractors and suppliers, within fifteen (15) days following receipt of payment from the County, for all completed subcontracted work and supplies. If Vendor withholds an amount from CBE subcontractors or suppliers as retainage, such retainage shall be released and paid within fifteen (15) days following receipt of payment of retained amounts from the County.
6. Vendor understands that the County will monitor Vendor's compliance with the CBE Program requirements. Vendor must provide OESBD with a Monthly Utilization Report (MUR) to confirm its compliance with the Commitment agreed to in the contract; timely submission of the MUR every month throughout the term of the contract, including amendment and extension terms, is a condition precedent to the County's payment of Vendor under the contract.

Supplier: HBC Engineering Company

VENDOR QUESTIONNAIRE AND STANDARD CERTIFICATIONS
Request for Proposals, Request for Qualifications, or Request for Letters of Interest

Vendor should complete questionnaire and complete and acknowledge the standard certifications and submit with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

If a response requires additional information, the Vendor should upload a written detailed response with submittal; each response should be numbered to match the question number. The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

1. Legal business name: **HBC Engineering Company**
2. Doing Business As/ Fictitious Name (if applicable):
3. Federal Employer I.D. no. (FEIN): **22-3936061**
4. Dun and Bradstreet No.: **801830535**
5. Website address (if applicable): **hbcengineeringco.com**
6. Principal place of business address: **8935 NW 35TH LANE, SUITE 201
DORAL, FL 33172**
7. Office location responsible for this project: **5200 NW 33RD AVE, SUITE 311
FT. LAUDERDALE, FL 33309**
8. Telephone no.: **305.232.7932** Fax no.: **305.232.7933**
9. Type of business (check appropriate box):
 - ☒ Corporation (specify the state of incorporation): **FLORIDA**
 - ☐ Sole Proprietor
 - ☐ Limited Liability Company (LLC)
 - ☐ Limited Partnership
 - ☐ General Partnership (State and County Filed In)
 - ☐ Other - Specify
10. List Florida Department of State, Division of Corporations document number (or registration number if fictitious name): **P06000082280**
11. List name and title of each principal, owner, officer, and major shareholder:
 - a) **Adebayo Coker**
 - b) **Edgar Diaz**
 - c) **Happiness Coker**
 - d)
12. AUTHORIZED CONTACT(S) FOR YOUR FIRM:

Name: **Adebayo Coker**
Title: **President**
E-mail: **acoker@hbcengineeringco.com**

Telephone No.: **305.232.7932**

Name:

Title:

E-mail:

Telephone No.:

13. Has your firm, its principals, officers or predecessor organization(s) been debarred or suspended by any government entity within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
14. Has your firm, its principals, officers or predecessor organization(s) ever been debarred or suspended by any government entity? If yes, specify details in an attached written response, including the reinstatement date, if granted. ☐ Yes ☒ No
15. Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
16. Is your firm or any of its principals or officers currently principals or officers of another organization? If yes, specify details in an attached written response. ☐ Yes ☒ No
17. Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
18. Has your firm's surety ever intervened to assist in the completion of a contract or have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached written response, including contact information for owner and surety. ☐ Yes ☒ No
19. Has your firm ever failed to complete any work awarded to you, services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
20. Has your firm ever been terminated from a contract within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
21. Living Wage solicitations only: In determining what, if any, fiscal impacts(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract.
Living Wage had an effect on the pricing. ☐ Yes ☒ No
☐ N/A
If yes, Living Wage increased the pricing by% or decreased the pricing by%.

Cone of Silence Requirement Certification:

The Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances prohibits certain communications among Vendors, Commissioners, County staff, and Selection or Evaluation Committee members. Identify on a separate sheet any violations of this Ordinance by any members of the responding firm or its joint ventures. After the application of the Cone of Silence, inquiries regarding this solicitation should be directed to the Director of Purchasing or designee. The Cone of Silence terminates when the County Commission or other awarding authority takes action which ends the solicitation.

The Vendor hereby certifies that: (check each box)

- ☒ The Vendor has read Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances; and
- ☒ The Vendor understands that the Cone of Silence for this competitive solicitation shall be in effect beginning upon the appointment of the Selection or Evaluation Committee, for communication regarding this solicitation with the County Administrator, Deputy County Administrator, Assistant County Administrators, and Assistants to the County Administrator and their respective support staff or any person, including Evaluation or Selection Committee members, appointed to evaluate or recommend selection in this RFP/RLI process. For Communication with County Commissioners and Commission staff, the Cone of Silence allows communication until the initial Evaluation or Selection Committee Meeting.
- ☒ The vendor understands that they may communicate with a representative of the Office of Economic and Small Business Development ("OESBD") at any time regarding a solicitation or regarding participation of Small

Business Enterprises or County Business Enterprises in a solicitation. OESBD may be contacted at (954) 357-6400. The Cone of Silence also permits communication with certain other County employees (refer to the Cone of Silence Ordinance).

- ☒ The Vendor agrees to comply with the requirements of the Cone of Silence Ordinance.

Drug-Free Workplace Requirements Certification:

Section 21.31.a. of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board award be made only to firms certifying the establishment of a drug free workplace program. The program must consist of:

1. Publishing a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the offeror's workplace, and specifying the actions that will be taken against employees for violations of such prohibition;
2. Establishing a continuing drug-free awareness program to inform its employees about:
 - a. The dangers of drug abuse in the workplace;
 - b. The offeror's policy of maintaining a drug-free workplace;
 - c. Any available drug counseling, rehabilitation, and employee assistance programs; and
 - d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
3. Giving all employees engaged in performance of the contract a copy of the statement required by subparagraph 1;
4. Notifying all employees, in writing, of the statement required by subparagraph 1, that as a condition of employment on a covered contract, the employee shall:
 - a. Abide by the terms of the statement; and
 - b. Notify the employer in writing of the employee's conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or of any state, for a violation occurring in the workplace NO later than five days after such conviction.
5. Notifying Broward County government in writing within 10 calendar days after receiving notice under subdivision 4.b above, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
6. Within 30 calendar days after receiving notice under subparagraph 4 of a conviction, taking one of the following actions with respect to an employee who is convicted of a drug abuse violation occurring in the workplace:
 - a. Taking appropriate personnel action against such employee, up to and including termination; or
 - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency; and
7. Making a good faith effort to maintain a drug-free workplace program through implementation of subparagraphs 1 through 6.

The Vendor hereby certifies that: (check box)

- ☒ The Vendor certifies that it has established a drug free workplace program in accordance with the above requirements.

Non-Collusion Certification:

Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

The Vendor hereby certifies that: (select one)

- ☒ The Vendor certifies that this offer is made independently and free from collusion; or
- ☐ The Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

Public Entities Crimes Certification:

In accordance with Public Entity Crimes, Section 287.133, Florida Statutes, a person or affiliate placed on the convicted vendor list following a conviction for a public entity crime may not submit on a contract: to provide any goods or services; for construction or repair of a public building or public work; for leases of real property to a public entity; and may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for Category Two for a period of 36 months following the date of being placed on the convicted vendor list.

The Vendor hereby certifies that: (check box)

- ☒ The Vendor certifies that no person or affiliates of the Vendor are currently on the convicted vendor list and/or has not been found to commit a public entity crime, as described in the statutes.

Scrutinized Companies List Certification:

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor hereby certifies that: (check each box)

- ☒ The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4275, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

I hereby certify the information provided in the Vendor Questionnaire and Standard Certifications:

Adebayo COker	President	02/20/2020
*AUTHORIZED SIGNATURE/NAME	TITLE	DATE

Vendor Name: **HBC Engineering Company**

* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).

Supplier: HBC Engineering Company**DOMESTIC PARTNERSHIP ACT CERTIFICATION FORM (REQUIREMENT AND TIEBREAKER)**

Refer to Special Instructions to identify if Domestic Partnership Act is a requirement of the solicitation or acts only as a tiebreaker. If Domestic Partnership is a requirement of the solicitation, the completed and signed form should be returned with the Vendor's submittal. If the form is not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes. To qualify for the Domestic Partnership tiebreaker criterion, the Vendor must currently offer the Domestic Partnership benefit and the completed and signed form must be returned at time of solicitation submittal.

The Domestic Partnership Act, Section 16 ½ -157, Broward County Code of Ordinances, requires all Vendors contracting with the County, in an amount over \$100,000 provide benefits to Domestic Partners of its employees, on the same basis as it provides benefits to employees' spouses, with certain exceptions as provided by the Ordinance.

For all submittals over \$100,000.00, the Vendor, by virtue of the signature below, certifies that it is aware of the requirements of Broward County's Domestic Partnership Act, Section 16-½ -157, Broward County Code of Ordinances; and certifies the following: (check only one below).

- ☒ 1. The Vendor currently complies with the requirements of the County's Domestic Partnership Act and provides benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses
- ☐ 2. The Vendor will comply with the requirements of the County's Domestic Partnership Act at time of contract award and provide benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses.
- ☐ 3. The Vendor will not comply with the requirements of the County's Domestic Partnership Act at time of award.
- ☐ 4. The Vendor does not need to comply with the requirements of the County's Domestic Partnership Act at time of award because the following exception(s) applies: **(check only one below)**.
- ☐ The Vendor is a governmental entity, not-for-profit corporation, or charitable organization.
- ☐ The Vendor is a religious organization, association, society, or non-profit charitable or educational institution.
- ☐ The Vendor provides an employee the cash equivalent of benefits. (Attach an affidavit in compliance with the Act stating the efforts taken to provide such benefits and the amount of the cash equivalent).
- ☐ The Vendor cannot comply with the provisions of the Domestic Partnership Act because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. Indicate the law, statute or regulation (State the law, statute or regulation and attach explanation of its applicability).

Adebayo Coker	President	HBC Engineering Company	2/20/2020
Authorized Signature/Name	Title	Vendor Name	Date

Supplier: HBC Engineering Company

LOBBYIST REGISTRATION REQUIREMENT CERTIFICATION FORM

The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Vendor certifies that it understands if it has retained a lobbyist(s) to lobby in connection with a competitive solicitation, it shall be deemed non-responsive unless the firm, in responding to the competitive solicitation, certifies that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances; and it understands that if, after awarding a contract in connection with the solicitation, the County learns that the certification was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis, exercise any contractual right to terminate the contract for convenience.

The Vendor hereby certifies that: (select one)

- ☒ It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if retained after the solicitation, the County will be notified.
- ☐ It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances.

It is a requirement of this solicitation that the names of any and all lobbyists retained to lobby in connection with this solicitation be listed below:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Authorized Signature/Name: Adebayo Coker Date: 02/20/2020

Title: President

Vendor Name: HBC Engineering Company

Supplier: HBC Engineering Company**LITIGATION HISTORY FORM**

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

- ☒ There are no material cases for this Vendor; or
☐ Material Case(s) are disclosed below:

Is this for a: (check type) <input type="checkbox"/> Parent, <input type="checkbox"/> Subsidiary, or <input type="checkbox"/> Predecessor Firm?	If Yes, name of Parent/Subsidiary/Predecessor: Or No <input type="checkbox"/>
Party	
Case Number, Name, and Date Filed	
Name of Court or other tribunal	
Type of Case	Bankruptcy <input type="checkbox"/> Civil <input type="checkbox"/> Criminal <input type="checkbox"/> Administrative/Regulatory <input type="checkbox"/>
Claim or Cause of Action and Brief description of each Count	
Brief description of the Subject Matter and Project Involved	
Disposition of Case (Attach copy of any applicable Judgment, Settlement Agreement and Satisfaction of Judgment.)	Pending <input type="checkbox"/> Settled <input type="checkbox"/> Dismissed <input type="checkbox"/> Judgment Vendor's Favor <input type="checkbox"/> Judgment Against Vendor <input type="checkbox"/> If Judgment Against, is Judgment Satisfied? <input type="checkbox"/> Yes <input type="checkbox"/> No
Opposing Counsel	Name: Email: Telephone Number:

Vendor Name: HBC Engineering Company

Supplier: HBC Engineering Company

AGREEMENT EXCEPTION FORM

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, it shall be deemed an affirmation by the Vendor that it accepts the terms and conditions of the County's Agreement as disclosed in the solicitation.

The Vendor must either provide specific proposed alternative language on the form below. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.

- ☒ There are no exceptions to the terms and conditions of the County Agreement as referenced in the solicitation; or
- ☐ The following exceptions are disclosed below: (use additional forms as needed; separate each Article/ Section number)

Term or Condition Article / Section	Insert version of exception or specific proposed alternative language	Provide brief justification for change

Vendor Name: HBC Engineering Company

Supplier: HBC Engineering Company**VOLUME OF PREVIOUS WORK ATTESTATION FORM**

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to provide timely may affect the Vendor's evaluation.

This completed form MUST be included with the Vendor's submittal at the time of the opening deadline to be considered for a Tie Breaker criterion (if applicable).

Points assigned for Volume of Previous Work will be based on the amount paid-to-date by the County to a prime Vendor **MINUS** the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must list all received payments paid-to-date by contract as a prime vendor from Broward County Board of County Commissioners. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must also list all total confirmed payments paid-to-date by contract, to approved certified CBE firms utilized to obtain the contract's CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	Prime: Paid to Date	CBE: Paid to Date
1.	N/A	N/A	N/A	N/A	N/A	N/A
2.						
3.						
4.						
5.						
6.						
7.						

Grand Total

Has the Vendor been a member/partner of a Joint Venture firm that was awarded a contract by the County?

Yes ☐ No ☒

If Yes, Vendor must submit a **Joint Vendor Volume of Work Attestation Form**.

Vendor Name: HBC Engineering Company

Adebayo Coker
Authorized Signature/Name

President
Title

02/21/2020
Date

VOLUME OF PREVIOUS WORK ATTESTATION JOINT VENTURE FORM

If applicable, this form and additional required documentation should be submitted with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture. Points assigned for Volume of Previous Work will be based on the amount paid-to-date by contract to the Joint Venture firm **MINUS** all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	JV Equity Percent	Prime: Paid to Date	CBE: Paid to Date
1.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.							
3.							
4.							
5.							
6.							
7.							
8.							

Grand Total

Vendor is required to submit an executed Joint Venture agreement(s) and any amendments for each project listed above. Each agreement must be executed prior to the opening date of this solicitation.

Vendor Name: HBC Engineering Company

Adebayo Coker
Authorized Signature/Name

President
Title

02/21/2020
Date

Supplier: HBC Engineering Company

SCRUTINIZED COMPANIES LIST REQUIREMENT CERTIFICATION FORM

The completed and signed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor, by virtue of the signature below, certifies that:

- a. The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4725 Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- b. The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- c. If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

Adebayo Coker	President	HBC Engineering Company	02/20/2020
Authorized Signature/Name	Title	Vendor Name	Date


Supplier: HBC Engineering Company

SUBCONTRACTORS/SUBCONSULTANTS/SUPPLIERS REQUIREMENT FORM
Request for Proposals, Request for Qualifications, or Request for Letters of Interest

The following forms and supporting information (if applicable) should be returned with Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

- A. The Vendor shall submit a listing of all subcontractors, subconsultants and major material suppliers (firms), if any, and the portion of the contract they will perform. A major material supplier is considered any firm that provides construction material for construction contracts, or commodities for service contracts in excess of \$50,000, to the Vendor.
- B. If participation goals apply to the contract, only non-certified firms shall be identified on the form. A non-certified firm is a firm that is not listed as a firm for attainment of participation goals (ex. County Business Enterprise or Disadvantaged Business Enterprise), if applicable to the solicitation.
- C. This list shall be kept up-to-date for the duration of the contract. If subcontractors, subconsultants or suppliers are stated, this does not relieve the Vendor from the prime responsibility of full and complete satisfactory performance under any awarded contract.
- D. After completion of the contract/final payment, the Vendor shall certify the final list of non-certified subcontractors, subconsultants, and suppliers that performed or provided services to the County for the referenced contract.
- E. The Vendor has confirmed that none of the recommended subcontractors, subconsultants, or suppliers' principal(s), officer(s), affiliate(s) or any other related companies have been debarred from doing business with Broward County or any other governmental agency.

If none, state "none" on this form. Use additional sheets as needed. Vendor should scan and upload any additional form(s) in BidSync.

 bold line separating sections

1. Subcontracted Firm's Name:

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position:

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided:

 bold line separating sections

2. Subcontracted Firm's Name:

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position: **Oracio Riccobono**

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided:

3. Subcontracted Firm's Name:

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position:

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided:



bold

4. Subcontracted Firm's Name:

separating

sections

Subcontracted Firm's Address:

Subcontracted Firm's Telephone Number:

Contact Person's Name and Position:

Contact Person's E-Mail Address:

Estimated Subcontract/Supplies Contract Amount:

Type of Work/Supplies Provided:

I certify that the information submitted in this report is in fact true and correct to the best of my knowledge.

Adebayo Coker **President** **HBC Engineering Company** **7/15/2020**
Authorized Signature/Name **Title** **Vendor Name** **Date**

Supplier: **HBC Engineering Company**

LOCAL AND/OR LOCALLY BASED BUSINESS CERTIFICATION FORM

Subject to certain requirements, Section 1-74, et seq., Broward County Code of Ordinances, provides bidding preferences to Local Businesses and Locally Based Businesses.

To be eligible for the best and final offer ("BAFO") (Section 1-75(a)) or the BAFO tiebreaker (Section 1-75(c)), the Vendor **must** submit this fully completed form and its Broward County local business tax receipt at the same time it submits its bid or response to a procurement solicitation. Vendors who fail to comply with this submittal deadline will not be eligible for either the BAFO or the BAFO tiebreaker.

For all other location preferences, the Vendor **should** submit this fully completed form and all Required Supporting Documentation (as indicated below) at the time Vendor submits its response to the procurement solicitation, and the Vendor **must** submit such form and documentation within three (3) business days after a written request from the County. A Vendor who fails to comply with this deadline will not be eligible for these other bidding preferences.

In accordance with Section 1-74, et seq., Broward County Code of Ordinances, the undersigned Vendor hereby certifies that (check the box for only one option below):

☐ **Option 1:** The Vendor is a **Local Business**, but does not qualify as a **Locally Based Business**, as each is defined by Section 1-74, Broward County Code of Ordinances. The undersigned Vendor further certifies that it has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised), a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements), in an area zoned for the conduct of such business, that the Vendor owns or has the legal right to use, and from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location").

☒ **Option 2:** The Vendor is both a **Local Business** and a **Locally Based Business** as each term is defined by Section 1-74, Broward County Code of Ordinances. The undersigned Vendor further certifies that each of the following statements is true and correct:

- A. The Vendor has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised), a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements), in an area zoned for the conduct of such business, that the Vendor owns or has the legal right to use, and from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location");
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;

- C. The Vendor's management directs and controls all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location; and
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date.

☐ **Option 3:** The Vendor is a joint venture composed of one or more Local Businesses or one or more Locally Based Businesses. The Vendor attests that the proportion of equity interests in the joint venture owned by **Local Businesses** (each Local Business must comply with all of the requirements stated in Option 1 above) is _____% of the total equity interests in the joint venture. The Vendor attests that the proportion of equity interests in the joint venture owned by **Locally Based Businesses** (each Locally Based Business must comply with all of the requirements stated in Option 2 above) is _____% of the total equity interests in the joint venture.

☐ **Option 4:** Vendor is not a Local Business or a Locally Based Business, as each is defined by Section 1-74, Broward County Code of Ordinances.

Required Supporting Documentation (in addition to this form):

Option 1 or 2 (Local Business or Locally Based Business):

1. Broward County local business tax receipt
2. If Vendor is a wholly-owned subsidiary of any other entity, documentation identifying the vertical corporate organization of Vendor name(s) of all parent entities.

Option 3 (Joint Venture composed of one or more Local Businesses or Locally Based Businesses):

1. Broward County local business tax receipt(s) for applicable Local Business(es) or Locally Based Business(es)
2. Executed joint venture agreement, if any
3. If any of the Local Businesses or Locally Based Businesses that comprise the Vendor is a wholly-owned subsidiary of any other entity, documentation identifying the vertical corporate organization of such businesses and name(s) of all parent entities.

If requested by County:

1. Written proof of the Vendor's ownership or right to use the real property, at the Local Business Location as attested (applicable to all options)
2. Additional documentation demonstrating the applicable percentage of equity interests in the joint venture, if not shown in the joint venture agreement (Option 3 only)
3. Additional documentation relating to the parent entities of any Local Business or Locally Based Business.
4. Any other documentation requested by County regarding the location from which the activities of the Vendor are directed, controlled, and coordinated.

Refer to Section 1-74 et seq., Broward County Code of Ordinances, for additional information regarding eligibility for local preference.

By submitting this form, the Vendor further attests as follows:

Vendor's Local Business Location Address (as defined in Section 1-74, Broward County Code of Ordinances):

If awarded a contract, it is the intent of the Vendor to remain at the address listed below (or another qualifying Local Business Location within Broward County) for the duration of the contract term, including any renewals or extensions. (If nonlocal Vendor, leave Local Business Location blank.)

**5200 NW 33rd Avenue, #211
Ft. Lauderdale, FL 33309**

Local Business Location

True and Correct Attestations:

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by the Broward County Procurement Code, Section 21.119. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this form was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

ADEBAYO COKER

PRINCIPAL

HBC ENGINEERING

7/15/202

**AUTHORIZED
SIGNATURE/NAME**

TITLE

**COMPANY
COMPANY**

DATE

Supplier: HBC Engineering Company**LOCATION TIE BREAKER FORM**

Sections 21.31.c and 21.31.d of the Broward County Procurement Code provide certain tie breaker criteria, the first of which is based upon vendor location.

To be eligible for the location tiebreaker in Broward County Procurement Code Sections 21.31.c or 21.31.d, the Vendor **must** submit this fully completed form and its Broward County local business tax receipt at the same time it submits its bid or response to a procurement solicitation. Vendors who fail to comply with this submittal deadline will not be eligible for the location tiebreaker.

Tie Breaker: In accordance with Broward County Procurement Code, Sections 21.31.c and 21.31.d, the undersigned Vendor hereby certifies that (check the box for only one option below):

☐ The Vendor has been in existence for at least the six (6) month period immediately preceding the solicitation opening date, at a physical business address located within the limits of Broward County), in an area zoned for the conduct of such business, from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation.

☐ The Vendor does not meet the location tie breaker requirements stated above.

True and Correct Attestations:

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by the Broward County Procurement Code, Section 21.119. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this form was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

ADEBAYO COKER**PRINCIPAL****HBC ENGINEERING
COMPANY
COMPANY****7/15/2020****AUTHORIZED
SIGNATURE/NAME****TITLE****DATE**

Supplier: HBC Engineering Company

AFFILIATED ENTITIES OF THE PRINCIPAL(S) CERTIFICATION FORM

The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Program, including CBE, DBE and SBE goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

The Vendor hereby certifies that: (select one)

- ☒ No principal of the proposing Vendor has prior affiliations that meet the criteria defined as "Affiliated entities"
- ☐ Principal(s) listed below have prior affiliations that meet the criteria defined as "Affiliated entities"

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Authorized Signature Name: **Adebayo Coker**

Title: **President**

Vendor Name: **HBC Engineering Company**

Date: **2/20/2020**

Supplier: HBC Engineering Company



Finance and Administrative Services Department

PURCHASING DIVISION

115 S. Andrews Avenue, Room 212 • Fort Lauderdale, Florida 33301 • 954-357-6066 • FAX 954-357-8535

Summary of Vendor Rights Regarding Broward County Competitive Solicitations

The purpose of this document is to provide vendors with a summary of their rights to object to or protest a proposed award or recommended ranking of vendors in connection with Broward County competitive solicitations. These rights are fully set forth in the Broward County Procurement Code, which is available here: <https://www.broward.org/purchasing>.

1. Right to Object

The right to object is available for solicitations conducted through Requests for Proposals ("RFPs") or Requests for Letters of Interest ("RLIs"). In such solicitations, vendors may object in writing to a proposed recommendation of ranking made by a Selection or Evaluation Committee. Objections must be filed within three (3) business days after the proposed recommendation is posted on the Purchasing Division's website. The contents of an objection must comply with the requirements set forth in Section 21.84 of the Procurement Code. Failure to timely and fully meet any requirement will result in a loss of the right to object.

2. Right to Protest

The right to protest is available for RFPs and RLIs and in solicitations conducted through Invitations to Bid ("ITBs"). In RFPs and RLIs, vendors may protest a final recommendation of ranking made by a Selection or Evaluation Committee. In ITBs, vendors may protest a final recommendation for award made by the Broward County Purchasing Division.

In all cases, protests must be filed in writing within three (3) or five (5) business days after a recommended ranking or recommendation for award is posted on Purchasing Division's website. The timeframe for filing (*i.e.*, 3 or 5 business days) depends on the monetary value of the procurement. Additional requirements for a protest are set forth in Section 21.118 of the Procurement Code. Failure to timely and fully meet any requirement will result in a loss of protest rights.

Vendors may appeal the denial of a protest. Appeals may require payment of an appeal bond. Additional requirements for an appeal are set forth in Section 21.120 of the Procurement Code. Failure to timely and fully meet any requirement will result in a loss of appeal rights.

3. Cone of Silence; Right to Contact OESBD

Please be aware that a Cone of Silence remains in effect for competitive solicitations until a solicitation is completed or a contract is awarded. During that time period, vendors may not contact certain County officials and employees regarding a solicitation. Substantial penalties may result from even an unintentional violation. For further information, please contact the Purchasing Division at 954-357-6066 or refer to the Cone of Silence Ordinance which is available here: <https://www.broward.org/Purchasing/Documents/ConeOfSilence.pdf>.

However, vendors may communicate with a representative of the Office of Economic and Small Business Development ("OESBD") at any time regarding a solicitation or regarding participation of Small Business Enterprises or County Business Enterprises in a solicitation. OESBD may be contacted at (954) 357-6400. The Cone of Silence also permits communication with certain other County employees (please see the Cone of Silence Ordinance at the above link for further details).

Broward County Board of County Commissioners

Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine

www.broward.org

No Bids

KCI Technologies, Inc. Time constraints -other deadlines due the same day.