KATHERINE LARSSON, MS
Scientist

COASTAL OAKS POND MITIGATION FEASIBILITY STUDY | FDOT DISTRICT FOUR, BROWARD COUNTY, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST | RES is conducting a mitigation feasibility study to evaluate the benefits of enhancing an existing stormwater retention pond to provide a more "naturalized" aesthetic. The goal of the study is to evaluate the scope, cost, and benefit of the pond enhancement. Ms. Larsson will assist with permit application preparation and submission to regulatory agencies.

NE 56TH STREET & ANDREWS AVENUE BRIDGE REPLACEMENT | BROWARD COUNTY, FLORIDA | DP DEVELOPMENT, LLC. | SCIENTIST | Ms. Larsson assisted with the benthic resource survey for the preparation of the associated report.

DISTRICTWIDE MITIGATION, WILDLIFE AND ENVIRONMENTAL SUPPORT SERVICES | FDOT DISTRICT FOUR, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST | Ms. Larsson assisted in conducting Florida Bonneted Bat (FBB) Limited Roost Surveys in general accordance with the FWS Florida Bonneted Bat Consultation Guidelines at multiple locations around Pompano Beach, taking GPS recordings of locations for potential FBB roosting structures.

BENTHIC SURVEYS | FDOT DISTRICT FOUR, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST | RES provided environmental services to conduct benthic resource surveys for bridge replacements and prepare memorandums for the associated survey. Ms. Larsson assisted in conducting benthic surveys at multiple bridges and in the preparation of associated reports.

MIAMI BEACH MOORING FIELD DESIGN AND PERMITTING | MIAMI-DADE COUNTY, FLORIDA | CITY OF MIAMI BEACH | SCIENTIST | The City of Miami Beach has endeavored to regulate an existing anchorage and create a mooring field that will allow for managing the number and density of vessels mooring in Biscayne Bay within the mooring field boundaries. The public mooring field will include 130 slips within 107.7 acres of Biscayne Bay between 5th Street and 18th Street. RES is providing environmental and engineering support for the City of Miami Beach to develop a mooring field. The scope of this project includes agency meetings, evaluating management options, and upland support facilities. Ms. Larsson assists with desktop reviews, city/agency coordination, and permitting applications.

WATER QUALITY AND BENTHIC VEGETATION MONITORING IN VILLAGE CANALS | ISLAMORADA, VILLAGE OF ISLANDS, MONROE COUNTY, FLORIDA | ISLAMORADA, VILLAGE OF ISLANDS | SCIENTIST | Islamorada engaged RES to conduct water quality and benthic surveys twice a year to evaluate surface water quality improvement projects in residential canals within Islamorada. Ms. Larsson is the lead scientist and oversees the coordination with the Village and laboratory for analysis while leading the water quality sampling, benthic resource surveys, and the preparation of the associated reports on a bi-annual basis.

I-95 EXPRESS LANES PHASE 3C | FDOT DISTRICT FOUR, BROWARD COUNTY, FLORIDA | BCC ENGINEERING | SCIENTIST | RES is providing BCC Engineering, Inc. and Archer Western – de Moya Joint Venture with environmental permitting support for the construction of the I-95 Express Lanes Phase 3C. Ms. Larsson assisted with multiple facets of the project including the South Florida Water Management District permit extension, Right-of-Way permit extensions and closeouts, and the modification of United States Army Corps of Engineers permits. This also includes wetland delineations, habitat assessments, and site inspections, and coordination with the regulatory agencies.

CR-510 FROM 58TH AVENUE TO EAST OF SR-5/US-1 | INDIAN RIVER COUNTY, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST | Ms. Larsson assisted with wetland delineations, habitat assessments, Florida scrub jay surveys, and the preparation of the associated report such as Natural Resource Evaluation (NRE). She has also assisted in conducting a site inspection with the regulatory agency SJRWMD, to confirm wetland boundaries as part of a Request for Additional Information.

MEGAN REISING, MS

RES Project Manager / Senior Scientist/ Coastal Lead

FIRM:
RES

AVAILABILITY:
50%

YEARS OF EXPERIENCE:
12

YEARS WITH OTHER FIRMS:
10

EDUCATION:
MS, Biology, Florida Atlantic University, 2013

BS, Zoology, The Ohio State University, 2011

REGISTRATIONS/ CERTIFICATIONS:
American Academy of Underwater Sciences (AAUS) Scientific Diver

PADI Advanced Open Water Scuba Diver, Nitrox

DAN Oxygen Provider Certification

CPR/AED/First Aid Provider

Ms. Reising is a Senior Scientist specializing in natural resource assessments, threatened and endangered species surveys, construction compliance, benthic resource surveys, and environmental permitting at the federal, state, and local levels. She provides numerous ecological services to clients, including the following: marine and estuarine habitat assessments; coastal habitat assessments and permitting; upland habitat assessments and permitting; GPS data collection and GIS mapping.

Ms. Reising is a scientific diver, with over 10 years of diving experience. Ms. Reising is trained in sampling and analytical techniques for field data collection, water quality sampling and assessment and species identification, including seagrass, coral, octocorals, fish and mangroves.

RELEVANT EXPERIENCE:

HOLLYWOOD MOORING FIELD SUPPORT | CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA | BROWARD COUNTY | SENIOR SCIENTIST | RES is providing environmental and engineering support for the City of Hollywood to develop a mooring field. The scope of this project includes agency meetings, evaluating management options, and upland support facilities. Ms. Reising assists with desktop reviews, city/agency coordination, permitting applications, and natural resource surveys.

DISTRICTWIDE MITIGATION, WILDLIFE AND ENVIRONMENTAL SERVICES CONTRACT | FDOT DISTRICT FOUR, FLORIDA | FDOT DISTRICT FOUR | SENIOR SCIENTIST | RES assessed impacts to federally- and state-listed species associated with the Natural Resource Re-evaluation Technical Memorandum. Work included reviewing previous listed species reports, data collection and analysis, and providing a Natural Resource Evaluation (NRE) report summarizing the findings. Ms. Reising reviewed previously listed species reports, collected data and prepared the NRE.

ONE ISLAND PARK PERMITTING SUPPORT AND CORAL RELOCATION | CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA | COASTAL GROUP MARINAS| SENIOR SCIENTIST | The project involves the redevelopment of One Island Park in the City of Maimi Beach. RES was engaged to conduct a marine resource assessment and provide permitting support for the proposed project, including conducting coral relocation required by the state. Ms. Reising has assisted with the marine resource assessment, report, and coordination of coral relocation.

MILLS POND PARK MITIGATION MONITORING | CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA | CITY OF FORT LAUDERDALE | SENIOR SCIENTIST | Establish time-zero and five-year mitigation monitoring plan to offset wetland impacts as a result of

project development. Conduct quarterly wetland and invasive/exotic vegetation monitoring. Prepare and submit quarterly monitoring reports to the City. Ms. Reising coordinates with the City for monitoring field efforts and reviews the monitoring reports.

ENVIRONMENTAL ENGINEERING CONTINUING SERVICES | CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA | CITY OF MIAMI BEACH | SENIOR SCIENTIST | RES maintains an ongoing contract to conduct miscellaneous environmental services. Tasks conducted include preparation of SPCC plans for 12 facilities including pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center and contamination assessment of the green waste facility. Ms. Reising provided support services as needed.

SEVEN MIAMI BEACH SEAWALL REHABILITATION PROJECTS | CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA | BCC ENGINEERING | SENIOR SCIENTIST | RES performed marine benthic and tree inventory surveys at seven seawall locations Miami Beach and acquired environmental permits from SFWMD, RER and USACE. Ms. Reising assisted with preparing the Natural Resources Assessment Report and the permit applications.

ARTIFICIAL REEF FEASIBILITY STUDY AND DESIGN | ST. LUCIE COUNTY, FLORIDA | ST. LUCIE COUNTY | SENIOR SCIENTIST | RES conducted a feasibility study for an artificial reef in Saint Lucie County. RES identified and reviewed suitable artificial reef locations, prepared a feasibility study report, and presented the feasibility study results to the county commission. Based on the study, the County moved forward with a proposed location and requested RES design and permit the artificial reef. Services are ongoing for artificial reef design and regulatory permitting. Ms. Reising provided regulatory permitting consultation and grant review.

BLACK CREEK TRAIL LIVING SHORELINE DESIGN AND PERMITTING | CITY OF HOMESTEAD, MIAMI-DADE COUNTY, FLORIDA | CAP ENGINEERING | SENIOR SCIENTIST | RES provides environmental and engineering support for the Black Creek Trail living shoreline project. The scope of this project includes engineering design and environmental permitting. Ms. Reising assists with desktop reviews, city/agency coordination, marine benthic surveys, environmental assessments, and permitting applications.

PARCO MARE MANGROVE MITIGATION MONITORING | BROWARD COUNTY, FLORIDA | RILEA GROUP | SENIOR SCIENTIST | Establish time-zero and five-year mitigation monitoring plan to offset mangrove impacts as a result of project development. Conduct quarterly mangrove measurements and monitoring. Prepare and submit quarterly monitoring reports to the County and annual monitoring reports to USACE. Ms. Reising established the initial five-year monitoring plan and assisted with mangrove monitoring and report submittal to regulatory agencies for compliance.

URBAN FORESTRY MASTER PLAN | CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA | CITY OF FORT LAUDERDALE | SENIOR SCIENTIST | The City of Fort Lauderdale's Urban Forestry Master Plan (UFMP). RES was awarded the contract to write the City's UFMP, a Master Plan that will identify pathways to resolving urban forestry issues and achieve urban forestry goals, such as creating incentives for tree preservation and increasing canopy cover. Additionally, the UFMP will tie into existing City Master Plan documents, creating a cohesive strategy to make Fort Lauderdale a modern and resilient urban center. Ms. Reising is the assistant project manager and coordinates data collection, public outreach, and the final plan submittal.

JOSE N. GÓMEZ, PE, D.GE, F.ASCE
Chief Geotechnical Engineer

JOSE N. GÓMEZ, PE, D.GE, F.ASCE

Chief Geotechnical Engineer

FIRM:
Professional Service Industries, Inc.

AVAILABILITY:
30%

YEARS OF EXPERIENCE:
45

YEARS WITH OTHER FIRMS:
38

EDUCATION:
M.S.C.E., Georgia Institute of Technology, 1983

B.S.C.E., Pontifical Xavierian University, Bogota, Colombia, 1979

REGISTRATIONS/ CERTIFICATIONS:
Professional Engineer: Florida No. 78289, 2014
Georgia No. 045437, 2020
Puerto Rico No. 28042, 2020
North Carolina No. 039299, 2012
Virginia No. 045683, 2009

Mr. Gómez is a geotechnical engineer and adjunct professor with over 40 years of varied and extensive experience in a wide range of geotechnical and civil engineering consulting services for studies, designs, project layouts and construction supervisions in over 500 projects since 1980. He has provided geotechnical recommendations, forensic engineering, value engineering and peer reviews for site preparation, earthwork, excavations, retaining structures, embankments, dams and levees, ports, slope stability and foundation design for numerous civil engineering projects across the Americas and the Caribbean. He has managed teams of engineers, geologists, specialists on other disciplines, and surveyors for the successful completion of many designs and/or construction of large civil projects and related works. These management tasks were performed both in the office during the design stage, and in the field for implementation during construction. Mr. Gómez, D.GE is a ***Diplomate in the Academy of Geo Professionals (AGP)***, an independent board certification organization that certifies the competence of geotechnical engineers in their area of specialization based on his experience and education.

RELEVANT EXPERIENCE:

CITY OF DORAL YEAR 4 CAPITAL STORMWATER IMPROVEMENT PROJECT DESIGN - SUB-BASIN F-5, SUB-BASIN NW 114 AVE, AND SUB-BASIN D-2-1 | DORAL, FL | BCC ENGINEERING | GEOTECHNICAL ENGINEER OF RECORD | PSI completed a geotechnical field exploration consisting of conducting percolation tests for the project sub-basins located in Doral, Florida. PSI performed 10 pavement cores and 10 percolation tests to depths of 15 feet below existing grades. The percolation tests were performed in general accordance with the South Florida Water Management District (SFWMD) procedures for the "Usual Condition Constant Head" Percolation Test. The hydraulic conductivity values (K) estimated from the percolation tests were presented in the final report.

PROPOSED SANITARY SEWER SYSTEM, NW 37TH AVENUE FROM SR 112 TO NW 82ND STREET | MIAMI DADE COUNTY, FL | MIAMI-DADE WATER & SEWER DEPARTMENT | GEOTECHNICAL ENGINEER OF RECORD | Proposed Sanitary Sewer System located in the area bounded by NW 37th Avenue to the west, SR 112 to the south, NW 82nd Street to the north and NW 32nd Avenue to the east. The scope of services included drilling soil borings, performing laboratory testing, and preparing a detailed geotechnical engineering report including necessary engineering properties of the in-situ soils and provide design (soil parameters, allowable bearing capacity, etc.) and construction and pipe trench recommendations for the proposed pipeline construction.

JOSE N. GÓMEZ, PE, D.GE, F.ASCE
Chief Geotechnical Engineer

PUMP STATION 62 REPLACEMENT | MIAMI-DADE COUNTY, FL | MIAMI-DADE WATER & SEWER DEPARTMENT | GEOTECHNICAL ENGINEER OF RECORD | PROPOSED Pump Station 62 (PS 62) Replacement to be installed at 7120 NE 2nd Avenue, as well as a new pipeline to be constructed along NE 2nd Avenue and NE 71st Street. The scope of services included drilling soil borings, performing laboratory testing, and preparing a detailed geotechnical engineering report. The purpose of this evaluation was to obtain the necessary engineering properties of the in-situ soils and provide design (soil parameters, allowable bearing capacity, anticipated settlements, etc.) and construction recommendations (fill materials and compaction requirements, dewatering, etc.) for the proposed pump station and pipeline construction.

FIRST STREET NEIGHBORHOOD IMPROVEMENT PROJECT - ALTON ROAD, WASHINGTON AVENUE, 1ST STREET AND SOUTH POINTE DRIVE | MIAMI BEACH, FLORIDA | JACOBS ENGINEERING | GEOTECHNICAL ENGINEER OF RECORD | The project consists of installation of a new stormwater pump station and stormwater treatment facility to serve the South of Fifth/South Pointe Neighborhoods. The proposed First Street Storm Water Pump Station (First Street PS) will include a new stormwater pump station, treatment system, stormwater gravity collection system, and stormwater outfall force main with an energy discharge dissipation structure. The purpose of our evaluation was to explore subsurface conditions at the site. The scope of our services included drilling soil borings, performing laboratory testing, and providing a data report to Jacobs Engineering.

MORNINGSIDE SEAWALLS PROJECT 40-B233811: NE 59TH TERR, NE 62ND ST, AND BISCAYNE BAY | MIAMI, FL | A.D.A. ENGINEERING, INC. | GEOTECHNICAL ENGINEER OF RECORD | PSI completed a field exploration and geotechnical evaluation for the project area located along three shoreline spots of Biscayne Bay in Miami, Florida. The existing seawalls located along the shoreline at NE 61st St and NE 62nd St are to be replaced; concrete post/panel system will be used for the new seawalls. The seawall located at NE 59th St at Biscayne Bay is also to be raised. PSI scope of our services included drilling soil borings, performing representative laboratory testing, and preparing a geotechnical engineering report.

PROPOSED FDOT CORRIDOR POTABLE WATER TRANSMISSION MAIN REPLACEMENT, OVERSEAS HIGHWAY – FDOT CORRIDOR MM 79 TO 83 | ISLAMORADA, FL | FLORIDA KEYS AQUEDUCT AUTHORITY (FKAA) | GEOTECHNICAL ENGINEER OF RECORD | The currently desired corridor would take the pipeline mostly through the shoulder and southbound lanes of US-1 in a length of approximately four miles. The potable water transmission main replacement project will consist of a trench excavation to install a 36-inch diameter steel watermain. The scope of services included drilling soil borings, performing laboratory testing, and providing a geotechnical engineering report to include detailed geotechnical evaluation and recommendations.

COURTLAND ALVIES, PE

Geotechnical Engineer | Project Engineer

FIRM:
Professional Service Industries, Inc. (PSI)

AVAILABILITY:
80%

YEARS OF EXPERIENCE:
9

YEARS WITH OTHER FIRMS:
N/A

EDUCATION:
MSCE, Geotechnical; Norwich University, 2020

BSCE, University of South Florida, 2018

REGISTRATIONS/ CERTIFICATIONS:
Professional Engineer Florida No. 93388, 2022
Georgia No. 048480, 2022
Alabama No. 53176, 2023
North Carolina No. 057717, 2024
South Carolina No. 42327, 2024

Mr. Alvies has been with PSI for the last 9 years and has worked on multiple geotechnical projects throughout the state of Florida. During his time at PSI, he has demonstrated tremendous leadership and technical capabilities that have made him excel in his job and resulted in recognition for him not just at the internal level, but on a nationwide level within the company and in the West Florida market. Mr. Alvies has experience in sinkhole explorations and remediation design, different drilling and sampling techniques, slope stability modeling, settlement analysis, shallow foundation design, deep foundation design, and pavement design. He has worked on several forensic ground subsidence or sinkhole related projects in the State and has experience in sinkhole observation, monitoring, and repair. In addition, he is experienced in several software applications related to geotechnical engineering analysis and design, including SPT97, FB-Deep, FB-MultiPier, Settle3D 4.0, and AutoCAD.

RELEVANT EXPERIENCE:

MCKAY BAY WASTE TRANSFER STATION | TAMPA, FL | KOKOLAKIS CONTRACTING | GEOTECHNICAL ENGINEER OF RECORD | PSI provided drilling services, geotechnical engineering, and laboratory testing services to support the design team in developing the cost-effective foundation system(s) for the planned project and mitigating the costs of the ground improvements due to the compressible and variable nature of landfill materials. Various techniques including surcharging, stone-columns, deep excavation/removal, and deep foundation considerations were considered with the primary objective of mitigating the impacts of unsuitable municipal solid waste soils present at the site to achieve improvement development goals. PSI worked in conjunction with specialty members of the project team to develop earthwork recommendations minimizing the amount of waste impacted by site preparation activities and to allow for the re-use of material generated during site preparation and construction activities.

LAND O' LAKES WATER TREATMENT FACILITY | LAND O'LAKES, FL | PASCO COUNTY UTILITIES DEPT | GEOTECHNICAL ENGINEER OF RECORD | Provided geotechnical subsurface explorations for the expansion of the existing Wastewater Treatment Facility. The project consists of the design and construction of a new secondary clarifier, headworks, biological tanks, and a series of miscellaneous structures all adjacent to the existing and operational WWTF in a region of the state notorious for sinkhole activity. Mr. Alvies devised geotechnical recommendations for ground improvement and earthwork to limit potential sinkhole risks while maintaining the feasibility of the project from a practical and financial perspective.

COURTLAND ALVIES, PE
Geotechnical Engineer | Project Engineer

EMBASSY HILLS WASTEWATER TREATMENT FACILITY IMPROVEMENTS | NEW PORT RICHY, FL | PASCO COUNTY UTILITIES DEPT | GEOTECHNICAL ENGINEER OF RECORD | PSI provided geotechnical exploration for the proposed Embassy Hills WWTF Improvements project located in New Port Richey, Florida. The geotechnical exploration services for this project consisted of subsurface explorations to support a filter foundation, electrical building foundation, and a generator pad and included engineering recommendations go guide structural foundation design, earthwork plans, and reduce sinkhole risk

EAST PASCO TRANSFER STATION EXPANSION | PASCO COUNTY, FL | PASCO COUNTY UTILITIES DEPT | GEOTECHNICAL ENGINEER OF RECORD | Project Manager in charge of overseeing geotechnical subsurface exploration services in the form of soil borings to support the expansion and refurbishment of the East Pasco Transfer Station in Pasco County, Florida. The purpose of this study was to obtain information on the subsurface soil and groundwater conditions at requested locations. In order to achieve this objective, Standard Penetration Test (SPT) borings were performed to an approximate depth of 40 feet below the existing ground surface. The report presented the results and evaluation of the encountered subsurface conditions.

I-95 AT COPANS ROAD INTERCHANGE IMPROVEMENT PROJECT | BROWARD COUNTY, FL | BCC ENGINEERING | GEOTECHNICAL PROJECT MANAGER | Key features of this project consist of widening the NB and SB bridges, widening the on- and off-Ramps from I-95 with adding lanes with maximum embankment fill placement to about 30 feet high, constructing retaining walls for proposed grade separation, adding noise walls, improvement of the intersections, constructing overhead sign structures and mast arms; and overall drainage improvement within the project vicinity. Mr. Alvies is a project manager and has provided engineering evaluation and recommendations in support of PSI's geotechnical EOR on the project.

TAMPA BAY NEXT | HILLSBOROUGH COUNTY, FL | HNTB CORPORATION | GEOTECHNICAL PROJECT MANAGER | PSI's objective for this program is to conduct preliminary geotechnical exploration to support the FDOT and their General Engineering Consultant (GEC) in the development of design-build concept plans and a request for proposal (RFP) for proposed improvement along all major highways in Tampa Bay area. The planned improvement within this section includes addition of lanes in each direction, adding new bridges, replacing and widening of the existing bridges, construction of new MSE walls to Accommodate the widening of the roadways, replacement of overhead sign structures, installation of noise barrier walls and construction of linear ponds and swales to maintain adequate drainage within the existing right-of-way. Mr. Alvies is the primary project manager for individual assignments from this contract. Specifically, this includes overseeing the planning, budgeting, and performance of all aspects of the wide-ranging work for review and approval by PSI's contract manager, Nayan Saha.

SELMON WEST EXTENSION FROM GANDY BRIDGE TO THE WESTERN TERMINUS OF THE LEE ROY SELMON EXPRESSWAY ROADWAY AND BRIDGE IMPROVEMENTS | HILLSBOROUGH COUNTY, FL | AECOM | GEOTECHNICAL PROJECT MANAGER & FIELD ENGINEER | The proposed improvements included the construction of elevated express lanes from east of Gandy Bridge to the western terminus of the Lee Roy Selmon Expressway as well as the addition of new on-ramps and off-ramps. Key features of this project include a new 40-span viaduct bridge, construction of 3 new 2 to 9 span bridges, widening an existing bridge, temporary erection towers, 9 MSE walls, culverts and miscellaneous structures. Mr. Alvies coordinated field activities for bridge, retaining wall and roadway soil borings. He also stratified soil and rock core samples, assisted in the development of a laboratory strength testing program of rock core samples to optimize drilled shaft foundation lengths, and developed a work continuity system coordinating traffic lane closures and public utility locates.

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Mariana Evora, PE

Lead MEP Engineer

Mrs. Evora has over 10 years of experience in the fields of water resources and environmental engineering, and has served as consultant, project manager, and design engineer in numerous multidisciplinary projects. Her technical expertise includes stormwater planning and project implementation, analysis and design of best management practices, design and construction of pump stations and pipelines, design criteria manuals and permitting, development of capital improvement plans, establishing stormwater utilities. Mrs. Evora's experience also includes planning and design of water transmission and distribution systems and sanitary sewer collection and transmission systems. Her relevant project experience includes the following:

RELEVANT EXPERIENCE

West Avenue Neighborhood Improvement Project, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 01/2017 – On-Going | $115,000,000 – The project included the design and construction of the complete public underground utilities of water distribution and transmission system, sanitary sewer collection system, and stormwater drainage system, including the verification and development of a stormwater model and a new 120,000 GPM stormwater pump station. Ms. Evora was responsible for the design of a complete and functional neighborhood improvement project, including a pedestrian friendly "Complete Street" redesign, the typical section, curb and gutter, harmonization with lower lying adjacent properties, utility relocation, compliance with City standards and specifications, and compliance with Miami-Dade DERM requirements.

First Street Neighborhood Improvement Project, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 11/2021 – On-Going | $134,000,000 – Mrs. Evora served as owners Project Manager for the design and of one of the City's marquee projects at the South of Fifth neighborhood, project includes design and permitting of new sanitary sewer, water distribution and stormwater system for major roads in the Miami Beach South of Fifth Neighborhood, and the installation of a new Stormwater Treatment System and pumping system that is to be located in a City owned parking lot on the SW corner of First Street and Washington Ave. This project also includes raising of First Street between Alton Rd and Washington Ave including the intersections, road elevations is meant to mitigate sea level rise in an area that is already prone to flooding during high tide events. The project included a new 200,000 gpm stormwater pump station.

Indian Creek Neighborhood Improvement Project, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 05/2019 – On-Going | $18,000,000 – The Indian Creek Neighborhood underwent several developments including roadway and stormwater drainage improvements along Indian Creek Drive from 26th street to 41st street and the associated side streets, including completing the 45,000 gpm stormwater pump station at 32nd Street, reconstruction of the roadway, singing and pavement marking improvements, curb and gutter redesign, harmonization (to adjacent private properties), and sidewalk on a portion of Collins Avenue. Ms. Evora was responsible for the design of a complete and functional neighborhood improvement project, the roadway design, the typical section, curb and gutter, harmonization with lower lying adjacent properties, utility relocation, compliance with City standards and specifications, and compliance with Miami-Dade DERM and FDOT requirements.

Venetian Causeway Water and Sewer Replacement, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 11/2022 – On-Going | $20,000,000 – Managed the design and permitting for the complete replacement of aerial and subaqueous pipe along the Venetian Causeway bridges including the subaqueous segment at the east bascule bridge. The project includes complete replacement of one of the City's major feeds from Miami Dade County Water and Sewer Department, a 36-inch water transmission main and the replacement of the force mains that convey sewerage from each of the Venetian Isles towards Miami Beach for further conveyance to Central District Wastewater treatment plant. A total of 7,100 LF of 16 and 36-inch water mains were designed and permitted for replacement via HDD and 5,000 LF of sewer mains ranging in sizes from 6 to 10-inches of sanitary sewer force main were designed for HDD replacement between the venetian isles. Due to multiple breaks in the sewer main at the bascule bridge crossing, the segment of the pipelines at this section was expedited for construction under an emergency basis. Challenges of the project included ensuring the design and construction could take into account the future bridge replacement and widening along the same corridor. Ms. Evora was responsible for the design and construction of a complete and functional water main and force main.

Firm:
Delta Consultants, LLC

Years of Experience:
10 years

Education:
BS in Civil Engineering, Florida International University, 2014

Registrations/ Certifications: Professional Engineer Florida No. 86167 Licensed in 2018

NASSCO PACP, MACP, & LACP Certified 2024

FDOT Advanced MOT

Areas of Expertise:

Stormwater Pump Stations

Sewage Pump Stations

Water Booster Stations

Drainage Systems

Stormwater Forcemains & Outfalls

Water Quality Treatment

Water Quality Wells

Water & Sewer Pipeline Design

Trenchless Construction

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Pump Station 28 Emergency Repairs, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 04/2020 – 10/2020 | $1,000,000 – The project entailed the complete replacement of the intake and discharge valves for sewer Pump Station No. 28. It included the replacement of three (3) 30-inch and two (2) 36-inch faulty sewer plug valves along the Pine Tree Dr. corridor. In order to successfully complete the replacement of the valves line stops had to be installed at key locations to by-pass the sewer flows. A detailed construction sequencing plan was required for the valve replacement and to ensure all construction activities were properly coordinated. The COVID 19 pandemic that coincided with the beginning of the work further complicated the construction activities due to material delivery delays, lack of personnel, and safety concerns due to mandatory social distance requirements of the time. The scope of work included the expedited design, emergency permitting, and administration and inspection of the construction contract for the scope of work. The project entailed work within municipal/urban roads and coordinating with other public agencies, utilities and affected property owners. It also included responses to RFIs, shop drawing review, change order review, inspection for conformance with contract documents, tracking schedule, progress and installed quantities, review and approval of pay requisitions, and review of as-built drawings, development of punch list, and project certification and close out. Long lead items in this project were purchased directly by the City through an owner direct purchase (ODP) to expedite the repairs to the critical sewer infrastructure.

Pump Station No. 5, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 05/2021 – 10/2021 | Condition Assessment Only – Performed a complete assessment and developed the Remedial Action Plan (RAP) for the remediation of the moratorium condition at Pump Station No. 5. Conceived as a two-step process the remediation looks to reduce I/I perform and perform rehabilitative work to the station and system downstream from the pump station.

Pump Station No. 18 rehabilitation and regulatory compliance remediation, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 05/2021 – 10/2021 | Condition Assessment Only PS 18 was in moratorium due to surcharge condition evidenced in the manhole directly upstream from the pump station. Mariana was responsible for performing an evaluation and a condition assessment to the pump station. She then designed and permitted a new gravity sewer system leading to the sewer pump station and performed upgrades to the sewer that would remediate the moratorium condition. Project was successfully completed significantly under budget.

MDWASD Pump Station Improvement Program, Miami-Dade County | Miami-Dade Water and Sewer | Juan Curiel, PE, 3071 SW 38 Ave., Miami, FL 33146, juan.curiel@miamidade.gov, 786-552-8399 | 2015 - 2022 | $15,043,000 – Lead design engineer for the fast-track design, permitted and construction services to upgrade several force mains and sewer pump stations throughout Miami Dade County, work was completed as part of the overall County Pump Station Improvement Program (PSIP). Services included surveying, geotechnical, engineering analysis and reports, design (civil, hydraulic, structural, mechanical and electrical) contract documents preparation, cost estimating, scheduling, permitting and limited construction support services.

Project	Size	Description	Const. Cost	Design Completion	Construction Completion
PS 65	650 GPM	Duplex Wet Well/Valve Vault	$530,000	2015	2015
PS 500	730 GPM	Duplex Wet Well/Valve Vault	$723,000	2015	2015
PS 502	600 GPM	Duplex Wet Well/Valve Vault	$880,000	2015	2017
PS 67	500 GPM	Duplex Wet Well/Valve Vault	$552,000	2015	2018
PS 26	2,200 GPM	Triplex Wet Well/Valve Vault	$1,600,000	2017	2019
PS 109	2,400 GPM	Triplex /Above Ground Valves	$1,800,000	2017	2019
PS 836	300 GPM	Duplex Wet Well/Valve Vault	$536,000	2016	2018
PS 1201	600 GPM	Duplex Dry Well/Wet Well	$1,300,000	2018	2022
PS 1306	570 GPM	Duplex Wet Well/Valve Vault	$722,000	2017	2019
FM 65 Ph. I	3,000 LF	Open Cut 8, 12 and 16-inch DIP	$3,000,000	2015	2016
FM 65 Ph. II	1,250 LF	16 and 24-inch DIP	$1,500,000	2015	2016
FM 500	2,400 LF	10 and 12-inch PVC	$1,900,000	2015	2016
Aggregate Project Value:			**$15,043,000**		

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Eduardo A. Vega, PE, MSCM

Senior Program Manager / Design Build Engineer

Mr. Vega brings over 48 years of experience in the design, construction management, and program management of water and wastewater infrastructure projects. He spent 35 years of his career working for several Miami-Dade County Departments. During the last ten years, he supervised and directed all engineering, program management, utilities development, and construction activities to implement the Department's Capital Improvement Plan and to efficiently support the building permitting process. He is a 1985 graduate of Florida International University (FIU) with a Bachelor's Degree in Civil Engineering and also holds a Master of Science in Construction Management from FIU. During his professional career, he has received several awards such as the "2015 Distinguished Leadership Award in the Owner Category from the Design-Build Institute of America (DBIA)," the "2010 Outstanding Service to the Engineering Profession" from the Florida Engineering Society (FES)," and the "2008 Engineer of the Year" from the Cuban-American Association of Civil Engineers (CAACE)." Currently, he is Delta's Senior Program Manager and Design Build Engineer.

RELEVANT EXPERIENCE

SDWWTP HLD – Chlorine Contact Tanks No. 5 through 9, Miami, FL | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 2008 – 2011 | $18,000,000 – The project involved the construction of five new 38-foot by 48-foot cast-in-place chlorine contact basins. Each basin was equipped with a 72-inch by 72-inch sluice gate, a 60-inch by 60-inch actuated sluice gate, and a 48-inch by 48-inch sluice gate. Additional installations included two 48-inch by 72-inch slide gates and six butterfly valves ranging from 96 inches to 60 inches in diameter. The contract also installed approximately 2,035 linear feet of large-diameter prestressed concrete cylinder pipe (PCCP), including 120-inch, 108-inch, 96-inch, 84-inch, 72-inch, and 60-inch sizes, along with other extensive yard piping and a hot-tap connection to an existing 72-inch PCCP main. The scope further included extensive yard electrical demolition and new construction. All interior tank surfaces were finished with a 100% solids epoxy coating system, which was added to the project as a $1.2 million owner-directed change during construction. Due to the fast-track nature of the program and the presence of 14 other concurrent construction contracts on site, the project demanded exceptional coordination and scheduling.

SDWWTP HLD – Effluent Pump Station No. 2, Miami, FL | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 2008 – 2012 | $21,000,000 – The Effluent Pump Station No. 2 includes two 15,000-gallon steel surge tanks, a 720,000-gallon cast-in-place concrete effluent wetwell, and six stainless steel vertical turbine effluent pumps—each rated at 20.5 MGD capacity and 900 horsepower, and each equipped with a variable frequency drive (VFD). These systems are housed within a 12,000-square-foot, multi-level pump building containing electrical gear, controls, and operating and maintenance facilities. The structure incorporated complete foundation, structural, architectural, plumbing, and HVAC systems, along with an electrical room for the switchgear, VFDs, and instrumentation and controls. Site work included approximately 550 linear feet of large-diameter prestressed concrete cylinder pipe (PCCP) ranging from 90 inches to 42 inches, two 72-inch by 60-inch cut-in connections, one 72-inch by 24-inch hot tap connection, and extensive yard piping. Electrical improvements involved demolition of existing yard infrastructure and construction of new distribution systems.

Firm:
Delta Consultants, LLC

Years of Experience:
48+ years

Education:
MS in Construction Management, Florida International University

BS in Civil Engineering, Florida International University, 1985

Registrations/ Certifications: Professional Engineer Florida No. 42109 Licensed in 1989

2013 Design-Build Institute of America (DBIA), Intensive Training Certification.

2006 Harvard University, Driving Government Performance

2005 Florida International University, Academy for Strategic Management

Areas of Expertise:

Intimate Knowledge of WASD Standards

Engineering Management

Project & Construction Management

Alternative Delivery

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Government Cut & Norris Cut Utility Relocation Phase 1 & 2, Miami, FL | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 03/2009 – 08/2016 | $112,000,000 – This complex project addressed the replacement of critical sewer and water infrastructure under environmentally sensitive areas. Phase 1 involved a 54-inch force main and a 20-inch water main that were in direct conflict with a USACE Dredging Program. Additionally, Phase 2 focused on replacing an at-risk 60-inch pre-stressed concrete cylinder force main traversing sensitive ecological habitats of Norris Cut. Key technical activities included extensive geotechnical borings to (-) 250 feet, contamination screening, benthic, topographic, and bathymetric surveys of the corridor, along with detailed engineering analysis for numerous horizontal and vertical alternatives. The project utilized advanced trenchless technologies such as multi-bore/barrel HDD schemes, microtunneling, and tunnel boring with segmental liners to navigate challenging conditions and federally protected waters. Phase 1 involved the intricate installation of 1,200 linear feet of 72-inch force main microtunnel at a minimum elevation of (-) 85 ft with a 54-inch FRP carrier pipe. It also included 850 linear feet of 60-inch water main microtunnel at (-) 95 ft, with a 20-inch DIP water main, encased in concrete. Phase 2 saw the successful replacement of critical infrastructure through 5,300 linear feet of 11-foot tunnel boring with pre-cast concrete segmental liners and 2,700 linear feet of 60-inch pre-stressed concrete embedded cylinder via open cut methodology. Phase 2 also included approximately 1,000 LF of 10-inch force main via HDD. The project's complexity was further heightened by the various required interconnections, all separated by federally protected waters, requiring meticulous route analysis, right-of-way engineering, and the acquisition of all thirty regulatory and construction permits. The work included comprehensive environmental resource permitting, development of coral relocation and environmental mitigation plans, risk assessments, and the design of a cathodic protection system for an 80-year service life. Stakeholder coordination and public outreach efforts were instrumental in promoting project acceptance and seamless execution.

Water & Sewer Engineering & Capital Plan Management, Miami, FL | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 01/2006 – 11/2015 – Assistant director for the engineering and capital plan. Responsible for supervising and directing all engineering, program management, utility development, and construction management activities to implement the department's capital improvement plan. Eduardo established uniform policies, procedures and design standards. He also executively managed the design and construction of complex water and wastewater engineering projects such as the "Relocation of the 54-inch Force Main from the City of Miami Beach to Fisher Island", the "Relocation of the 54-inch Force Main from Fisher Island to Virginia Key via Utility Tunnel", and the "Brickell Sewer Interceptor Project." These three projects have received several industry awards for the work complexity and for being completed on schedule and within the budgeted amount. Eduardo directed the WASD's implementation of the design-build delivery method for high-profile projects, which resulted in the successful procurement of 14 design-build projects with a contract amount of over $400M. Eduardo successfully spearheaded the selection of 26 professional consultants for a contract value of $180M and represented the department against contractor's claims and any other legal claims related to construction contracts. Under Eduardo's supervision, the department implemented a Project Control Tracking System (PCTS) that created a database to electronically control project schedule and expenditures from inception to completion. During his tenure, WASD incremented their annual capital expenditures from FY 05-06 to FY 10-11 from $92M to $276M, a 300% increase. During FY 14-15, WASD achieved over $282M of capital expenditures, the largest ever for a county department.

Road & Drainage Restoration & Replacement Program, Miami, FL | Department of Environmental Resource Management | John Renfrow, PE, 1426 Mercado Ave., Coral Gables, FL 33146, jrenfrow@renfrowconsulting.com, 305-283-5616 | 02/2002 – 01/2006 | $480,000,000 – Responsible for managing and implementing the Federal Emergency Management Agency Public Assistance Program (FEMA-PA), Road Restoration/Drainage Replacement and Drain Cleaning Programs, and set the standard for these projects in accordance with FEMA-PA. Successfully completed $236 Million of drainage/roadway design and construction over a three-year period, managing 46 paving and drainage contracts, and zero contractor claims to the County. The $480 Million Program finished two years early and at half the projected cost. Managed contractors in the $17.5 Million Drain Cleaning Program, cleaning over 60,000 structures County-wide, and completing the project under budget and ahead of schedule. Effectively managed 150 engineering/surveying/testing professional firms in the design, survey, and soil testing of over 3,000 FEMA sites.

FLL GTL WWTP Redundant Effluent Force Main, Fort Lauderdale, FL | Ric-Man Construction Florida | Chris Mancini, 3100 SW 15 St. Deerfield Beach, FL 33442, christopherm@ric-manfl.com, 954-426-1221 | 11/2023 – On-Going | $46,000,000 – Provided technical expertise for the installation of approximately 4,200 LF of 60" force main to convey the effluent of the wastewater treatment plant to the deep injection wells for disposal. The project required extensive utility coordination as the corridor (Eisenhower Blvd.) for the large diameter pipeline was heavily congested with other utilities. Additionally, the industrial area in the vicinity of the project serves Port Everglades for fuel distribution and has many critical fuel lines in the project corridor. This required an in-depth utility coordination effort with fuel companies such as Marathon (MPLX) and Buckeye. Additionally, several conflicting utilities were relocated including crown castle, Port Everglades fiberoptics, Port Everglades CCTV, and Florida Power & Light (FPL).

delta

Luis Aguiar

Senior Engineer / Water Operations Subject Matter Expert

Firm:
Delta Consultants, LLC

Years of Experience:
40+ years

Education:
BS in Civil Engineering, Florida International University, 1978

Areas of Expertise:

Utility Operations & Maintenance

Utility Coordination

Project & Construction Management

Water & Sewer Pipeline Design

Trenchless Construction

Mr. Aguiar has over 48 years of experience. He successfully managed the Miami-Dade Water and Sewer Department - one of the largest water and sewer utilities in the Country – from an operational and capital perspective. Mr. Aguiar played critical roles negotiating and implementing multiple consent decrees. During his tenure he was responsible for the Department's Water Treatment, Water Distribution, Sewage Collection, Pump Station Maintenance, and Meter Divisions, with annual budgets of more than $100 million and over 800 employees. In addition to his operational experience, he managed several large programs for the utility, including: the Infiltration/Inflow Reduction program and the Pump Station Improvement Program. After his tenure at MDWASD, Mr. Aguiar worked at Hazen and Sawyer on several critical projects including the City of Miami Beach Water and Wastewater Program and the Miami-Dade Water and Sewer Capacity, Management, Operations, and Maintenance for Water Systems Program. He now serves as Delta Consultants' Senior Water and Sewer Engineer. His relevant project experience includes the following:

RELEVANT EXPERIENCE

Capacity, Management, Operations, and Maintenance (CMOM) for Water, Miami, FL | Miami-Dade Water and Sewer | Peter Jelonek, PE, 3071 SW 38 Ave., Miami, FL 33146, peter.jelonek@miamidade.gov, 786-552-8117 | 2014 – 2016 | $10,000,000 (fee) – Developed the CMOM for Water contract for WASD. The program included the development of O&M manuals, the procurement of Advanced Metering Infrastructure (AMI), automation of plants, process improvements and solids handling improvements, Lead and Copper Rule Revisions Compliance, asset maintenance optimization at Hialeah and Preston WTPs to improve current WASD maintenance processes, development of the Chlorine Risk Management Plans for the Alexander Orr Jr. and John E. Preston Water Treatment Plans in order to meet EPA required deadlines, and as needed consulting services to perform manned entry of PCCP pipelines to assess internal condition and provide technical solutions and recommendations during PCCP emergencies.

Water Treatment and Distribution Operations, Miami, FL | Miami-Dade Water and Sewer | Lazaro Cabrera, 1001 NW 11 St., Miami, FL 33136, lazaro.cabrera@miamidade.gov, 786-268-5401 | 2010 – 2016 – Responsible for the operations and maintenance of the WASD water treatment and distribution system. Implemented key R&R and system maintenance projects to ensure adequate operations. Key projects included the implementation of a CMOM for Water contract to address asset management, as well as the PCCP monitoring program to mitigate the risk of critical failures in the PCCP water mains. Responsible for the entire water system, which included three (3) regional water treatment plants (WTP), with a combined capacity in excess of 439 MGD – Alexander Orr WTP, John E. Preston WTP, and the Hialeah WTP. The system also included the shared Hialeah Reverse Osmosis (RO) WTP, and five (5) small auxiliary treatment facilities that service the southernmost area of the County. The primary treatment regime for WASD takes source water from the Biscayne Aquifer, softens the water via lime softening, passes the water through media filtration and provides primary disinfection with gaseous chlorine. In addition to the primary treatment regime air stripping towers are utilized in the Hialeah and Preston WTP's to remove volatile organic compounds (VOC's) and provide trihalomethane (THM) control. The water supply source consisted of fourteen (14) wellfields comprised of a total of 95 production wells, ten (10) Floridian Aquifer wells and five (5) aquifer storage and recovery wells. Water distribution throughout a 400 square miles service area was performed via seven (7) remote finished water storage and pumping facilities and nearly 8,600 miles of water mains ranging in size from 2 inches to 72 inches in diameter.

Water Transmission and Distribution Operations, Miami, FL | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 1999 – 2010 – Lead the daily operations of the Water Transmission & Distribution Division, directing the operation and maintenance of a vast municipal water system comprising 6,000+ miles of mains, 2,300+ miles of services, 160,000+ valves, and nearly 45,000 hydrants. Ensured compliance with the Florida Administrative Code and other federal and local regulations.

Venetian Causeway Water and Sewer Replacement, Miami Beach, FL | City of Miami Beach | Omar Mendoza, PE, 1700 Convention Center Drive, Miami Beach FL 33139, omarmendoza@miamibeachfl.gov, 305-673-7080 | 11/2022 – On-Going | $20,000,000 – Performed utility coordination and served as the technical advisor for the replacement of aerial and subaqueous pipe along the Venetian Causeway bridges including the subaqueous segment at the east bascule bridge. The project includes complete replacement of one of the City's major feeds from Miami Dade County Water and Sewer Department, a 36-inch water transmission main and the replacement of the force mains that convey sewerage from each of the Venetian Isles towards Miami Beach for further conveyance to Central District Wastewater treatment plant. A total of 7,100 LF of 16 and 36-inch water mains were designed and permitted for replacement via HDD and 5,000 LF of sewer mains ranging in sizes from 6 to 10-inches of sanitary sewer force main were designed for HDD replacement between the venetian isles. Due to multiple breaks in the sewer main at the bascule bridge crossing, the segment of the pipelines at this section was expedited for construction under an emergency basis. Challenges of the project included ensuring the design and construction could take into account the future bridge replacement and widening along the same corridor. Phase I, the expedited portion, of this project consists of the replacement of the water main particularly between Rivo Alto and Belle Isle where the drawbridge is located, this portion was expedited as an emergency due to sustained ruptures on both the water and sewer mains along these segments. The project included a complete and functional force main, including material selection, compliance with City sewer standards and specifications, compliance with Florida Department of Transportation utility accommodations manual and Miami Dade County Public Works manual as well as compliance with Miami-Dade DERM requirements, and all appurtenant work for a successful design completion of both the sewer and water transmission lines that are of high importance to the liveliness of the islands population as well as the health of adjacent waterways.

Pipeline Construction Management, Miami-Dade County | Miami-Dade Water and Sewer | Miguel Pichardo 3071 SW 38 Ave., Miami, FL 33146, miguel.pichardo@miamidade.gov, 786-552-4352 | 1995 - 1997 | $25,000,000 – Several projects were constructed by WASD Department Forces under Mr. Aguiar's direction, including:

- Two miles of 24-inch water transmission main in downtown Miami
- Over 100,000 feet of force mains as required by Consent Order
- Over 30,000 feet of water mains at the Everglades Migrant Labor Camp
- Over 50,000 feet of water mains for the Village of Pinecrest

MDWASD Pump Station Improvement Program, Miami-Dade County | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 1992 - 2000 | $250,000,000 – Mr. Aguiar served as Project Manager for the Department, where over 350 sewer pump stations were identified and upgraded to meet a 10-hour per day nominal average pump operating time (NAPOT). Upgrades included I/I investigations, pump upgrades, structural upgrades, mechanical upgrades, electrical upgrades, and complete station replacements.

Emergency Repair Management, Hialeah, FL and Miami Beach, FL | Miami-Dade Water and Sewer | Miguel Pichardo 3071 SW 38 Ave., Miami, FL 33146, miguel.pichardo@miamidade.gov, 786-552-4352 | 2008 - 2008 | $15,000,000 – Mr. Aguiar managed large pipeline repairs for various emergency projects including:

- A 54-inch water main repair on Red Road in Hialeah, FL
- 5,000 feet of water main with services to 50 homes in Sunkist Estates within 5 calendar days
- Repair of a 54-inch sewer force main at Miami Beach, FL

Miami-Dade Water and Sewer Value Engineering Change Proposal (VECP) Horizontal Directional Drill (HDD) Alternative for the 18" Water Main along NW 37 Ave. from NW 36 St. to NW 79 St., Miami-Dade County, FL | JVA Engineering | Javier Romero, 6600 NW 32 Ave., Miami FL 33147, jr@jvaengineering.com, 305-696-7902 | 11/2023 – On-Going | $2,989,387 – Managed utility coordination and served as the technical advisor for the installation of an 18-inch water main along NW 37 Ave from NW 36 St. to NW 79 St. The scope of work included three separate railway crossings, requiring utility coordination and coordination with the ROW owners. Each crossing included a 30-inch HDPE IPS DR-11 carrier pipe and an 18-inch HDPE DIPS DR-11 force main (host pipe). Specific crossing details are listed below.

Crossing #.	Length (LF)	ROW / Railway Owner
1	575	CSX Corporation
2	875	SFRTA
3	657	FEC
Total Length	**2,107 LF**	

The project required in-depth engineering to ensure that all utilities were properly identified and did not conflict with the HDD alignment. Additionally, detailed engineering calculations were performed for the HDD including pulling force calculations and casing deflection calculations to account for E-80 Cooper Railroad Loading.

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Thalia Isla

Civil Engineer

Firm:
Delta Consultants, LLC

Years of Experience:
2 years

Education:
BS in Civil Engineering, Technological University of Havana Jose Antonio Echevarria, 2019

Areas of Expertise:

Hydraulic Engineering

Drainage Design

Water and Sewer Pipeline Design

Pump Station Design

Cost Estimating

Trenchless Construction

Mrs. Isla is a hydraulics engineer that has experience in the design, permitting and inspection of water, wastewater resources and environmental engineering. She has experience developing complex hydraulic calculations for water, wastewater, and stormwater projects. Mrs. Isla has substantial experience with AutoCAD and AutoCAD Civil 3D in the preparation of detailed site civil projects, complex mechanical systems, pumps station design and in the development of gravity and pressure pipe networks. She has a strong technical background and knowledge with a focus in hydraulics engineering that is put into practice in the design, permitting and estimating of water resources infrastructure. Leveraging this expertise, Mrs. Isla has developed the detailed design of several key resilience projects. Her relevant project experience includes:

RELEVANT EXPERIENCE

Miami-Dade Water and Sewer Value Engineering Change Proposal (VECP) Horizontal Directional Drill (HDD) Alternative for the 18" Water Main along NW 37 Ave. from NW 36 St. to NW 79 St., Miami-Dade County, FL | JVA Engineering | Javier Romero, 6600 NW 32 Ave., Miami FL 33147, jr@jvaengineering.com, 305-696-7902 | 11/2023 – On-Going | $2,989,387 – Served as the project engineer for the installation of an 18-inch water main along NW 37 Ave from NW 36 St. to NW 79 St. The scope of work included three separate railway crossings, requiring utility coordination and coordination with the ROW owners. Each crossing included a 30-inch HDPE IPS DR-11 carrier pipe and an 18-inch HDPE DIPS DR-11 force main (host pipe). Specific crossing details are listed below.

Crossing No.	Length (LF)	ROW / Railway Owner
1	575	CSX Corporation
2	875	SFRTA
3	657	Florida East Coast Railway (FEC)
Total Length	**2,107 LF**	

The project required in-depth engineering to ensure that all utilities were properly identified and did not conflict with the HDD alignment. Additionally, detailed engineering calculations were performed for the HDD including pulling force calculations and casing deflection calculations to account for E-80 Cooper Railroad Loading.

FLL GTL WWTP Redundant Effluent Force Main, Fort Lauderdale, FL | Ric-Man Construction Florida | Chris Mancini, 3100 SW 15 St. Deerfield Beach, FL 33442, christopherm@ric-manfl.com, 954-426-1221 | 11/2023 – On-Going | $46,000,000 – Project Engineer for the installation of approximately 4,200 LF of 60" force main to convey the effluent of the wastewater treatment plant to the deep injection wells for disposal. The project required extensive utility coordination as the corridor (Eisenhower Blvd.) for the large diameter pipeline was heavily congested with other utilities. Additionally, the industrial area in the vicinity of the project serves Port Everglades for fuel distribution and has many critical fuel lines in the project corridor. This required an in-depth utility coordination effort with fuel companies such as Marathon (MPLX) and Buckeye. Additionally, several conflicting utilities were relocated including crown castle, Port Everglades fiberoptics, Port Everglades CCTV, and Florida Power & Light (FPL).

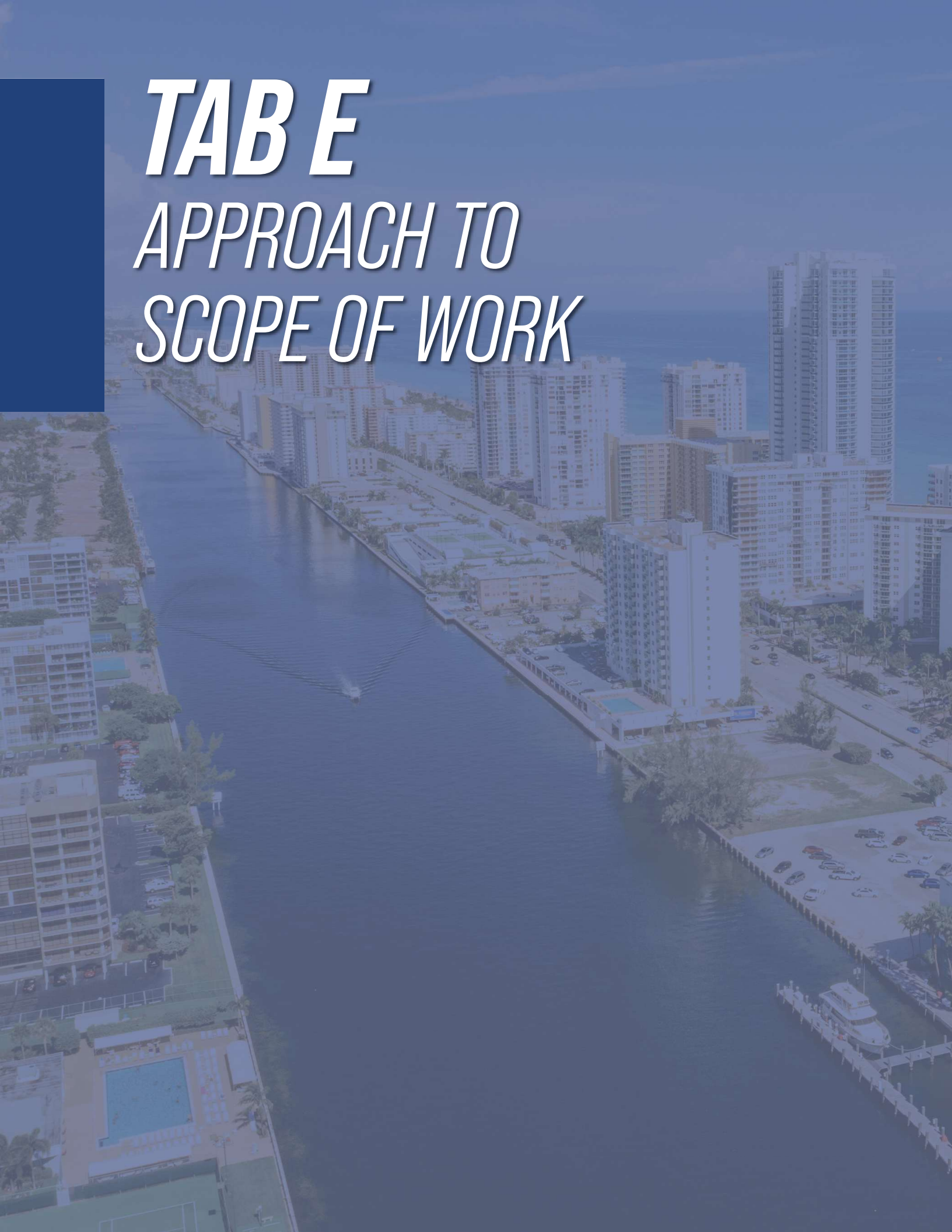
City of North Miami Septic to Sewer Improvements Phase II and Phase III, North Miami, FL | Tetra Tech | Christopher Zavatsky, PE, 6303 Waterford District Dr. #305, Miami FL 33126, christopher.zavatsky@tetratech.com, 305-908-1421 | 08/2023 – On-Going | $1,100,000 – Project Engineer for the septic to sewer conversion of 47 and 12 properties for Phase II and Phase III, respectively. The project required detailed site inspections to develop the private side lateral drawings and ensure invert elevations matched the required elevations for existing gravity sewer. Utility side laterals were designed to comply with Miami-Dade County Water Standards. Additionally, Phase III required the design of new gravity sewer to collect and convey flows from the 12 parcels. The project demanded fast track schedule and extensive coordination to ensure a functional sewer system. It helped the City improve its infrastructure resilience by providing the needed central sewer infrastructure to eliminate failing septic tanks and septic tanks that were vulnerable to sea level rise. The project included all engineering design and utility coordination required for a complete set of construction plans.

Site Civil for EV Charging Stations, Miami, FL | Miami-Dade County Department of Solid Waste Management | Humberto Contreras, 1290 NW 20 St., Miami, FL 33142, humberto.contreras@miamidade.gov, 305-514-6673 | 05/2023 – On-Going | $250,000 – Project Engineer for the site civil design and permitting of two new surface parking lot for Electric Vehicle Charging Stations that would serve MDC Department of Solid Waste trucks. One of the two sites was located directly adjacent to the Miami Dade County Doral landfill requiring extensive coordination with regulatory agencies due to the presence of contaminants in the area. The project included site civil design, drainage design, paving and grading design as well as bidding assistance for construction. This project aligned with the County's goal of converting the existing fleet to a resilient fully electric fleet by 2035.

North Miami Beach Oleta River Crossing Water Main Replacement (WATR007A) - 14" HDD Alternative, North Miami-Beach, FL | City of North Miami Beach | Andrea Suarez Abastida, PMP, 17011 NE 19 Avenue, North Miami, FL 33162, andrea.suarez@citynmb.com, 305-948-2967 | 11/2023 – On-Going | $1,000,000 – Project Engineer for the installation of approximately 1,000 LF of 14-inch water main via horizontal directional drill. The project required in-depth engineering to ensure that all utilities were properly identified and did not conflict with the HDD alignment. Additionally, detailed engineering calculations were performed for the HDD including pulling force calculations. Permitting efforts for this project were extensive and required coordination and approvals from Miami-Dade County Parks & Recreation (MDPR), Miami-Dade County Transit & Public Works (MDTPW), Florida Department of Transportation (FDOT), Department of Regulatory and Economic Resources (DERM), South Florida Water Management District (SFWMD), US Army Corps of Engineers (ACOE), Florida Department of Transportation (FDOT), Florida Department of Environmental Protection (FDEP), and City of North Miami Beach (CNMB).

Model Cities C Repairs, Miami, FL | J.N. Montenegro Studio, LLC | Jilla Montenegro, RA, NCARB, 11190 SW 69 Court, Miami, FL 33156, jillam@att.net, 305-558-4355 | 05/2023 – On-Going | $300,000 – Project Engineer for the site civil of a parking reconfiguration for the Miami-Dade County Department of Public Housing and Community Development. The parking lot reconfiguration required the development of paving, grading, and drainage plans, utility coordination, signing and pavement marking plans, and a stormwater pollution prevention control plan (SWPPP).

TAB E
APPROACH TO SCOPE OF WORK



TAB E: APPROACH TO SCOPE OF WORK

PROJECT UNDERSTANDING

The Jackson-to-Jefferson Street corridor along SR A1A is one of the most hydraulically constrained, operationally vulnerable, and environmentally sensitive reaches of the City of Hollywood's coastal stormwater system. Positioned on a narrow barrier island and bound by low-lying topography, this corridor experiences a convergence of stressors that push the existing gravity drainage system beyond its functional limits. Recurrent tidal flooding, particularly during king tide periods, regularly elevates tailwater levels within the drainage outfalls, sharply reducing hydraulic capacity and prolonging the duration of roadway ponding. Compounding these effects, the area's naturally shallow groundwater conditions and limited elevation relief restrict the ability of the system to convey runoff by gravity even under moderate rainfall events. As a result, the corridor is increasingly susceptible to nuisance flooding, vehicular disruptions, and accelerated infrastructure degradation.

The challenges present in this area are characteristic of barrier island drainage systems throughout South Florida, where changing climate conditions intensify the hydraulic stress placed on traditional stormwater infrastructure. Increased rainfall intensity, higher frequency of extreme precipitation events, and continued sea-level rise are reshaping the hydrologic behavior of coastal communities. The existing stormwater system along SR A1A was not designed to operate under these modernized conditions, and its performance is frequently constrained by elevated ocean and Intracoastal Waterway stages, which inhibit free discharge from outfalls. These conditions are expected to worsen over time as groundwater levels rise in tandem with sea level, further diminishing the effective storage and conveyance capacity of the existing system.

Pump Station #16 represents a strategic intervention point within this environment. By capturing and conveying stormwater through a controlled, pump-driven system, the City will significantly increase hydraulic reliability, reduce recurrent flooding, and restore system function during both high-tide and high-intensity rainfall events. The pump station will serve as a backbone component of the City's broader coastal resilience strategy, providing critical flood protection to adjacent residential neighborhoods, local businesses, and key mobility corridors along SR A1A.

Our Team enters this project with a deep understanding of the challenges inherent to Hollywood's coastal basins. Through our work on the City's previous Basis of Design Report for Systems 1–3—representing drainage areas that share similar topographic, tidal, and groundwater conditions—we have gained considerable insight into the hydraulic behaviors that define the coastal environment. Those basins exhibit the same structural limitations that exist in the Jackson-to-Jefferson corridor: restricted outfalls influenced by tidal elevation, shallow groundwater near the ground surface, limited positive drainage gradients, and a high dependency on mechanical conveyance during critical events. While the prior BODR analyzed different drainage systems, the hydrologic and hydraulic principles derived from that work directly inform our understanding of how coastal pump stations must be optimized to ensure effective, reliable performance under constantly evolving climate conditions.

From our perspective, Pump Station #16 is more than a flood mitigation asset; it is an opportunity to install infrastructure that reflects the City's commitment to resilience, sustainability, and long-term adaptation. Our approach ensures that each phase of the project—from data collection to hydraulic modeling to engineering design—is grounded in precision, environmental awareness, and community benefit. By integrating lessons learned from the BODR with advanced modeling, field-verified data, and climate-informed design practices, we will deliver a pump station that is both immediately functional and future-ready.

PROJECT COORDINATION AND MANAGEMENT

We begin the project with a strong management framework that establishes clear communication pathways, decision-making processes, and quality controls. Our Team will develop a Project Execution Plan that outlines coordination protocols, submittal milestones, QA/QC procedures, and documentation standards. Regular progress meetings with the City and CRA staff will help maintain alignment, ensure transparency, and accelerate decision-making throughout the design process. We view coordination not as an administrative task, but as a critical component of delivering a cohesive design that integrates smoothly with the City's operational needs, adjacent initiatives, and regional resilience strategies.

TAB E: APPROACH TO SCOPE OF WORK

EXISTING CONDITION REVIEW AND DATA COLLECTION

A successful pump station design depends on a complete and validated understanding of existing system conditions. Our Team will conduct a detailed review of all available drainage records, prior analyses, model files, GIS layers, as-builts, topographic data, and historical flooding information. This initial review will identify data gaps, confirm assumptions, and establish a baseline understanding of system constraints and basin characteristics.

To supplement this analysis, we will perform comprehensive field investigations that include high-resolution topographic surveying, subsurface utility engineering to identify and confirm underground conflicts, geotechnical exploration to assess soil strength and groundwater conditions, and targeted observations of the existing drainage system to confirm connectivity and performance. Special attention will be given to the tide-influenced outfall conditions along SR A1A, as these have a significant impact on hydraulic behavior during both dry-weather and rainfall events.

Our approach is strengthened by experience gained through prior coastal basin studies in Hollywood and neighboring communities. For example, in the City's previous Basis of Design Report for Systems 1–3, our Team analyzed the drainage behavior of adjacent coastal basins that face similar conditions. That work provided valuable insights into tailwater controls, shallow groundwater interactions, and the hydraulic constraints inherent to coastal stormwater systems. While that BODR does not directly apply to Pump Station #16, it informs our understanding of coastal drainage behavior and enhances the rigor of our current approach.

ALTERNATIVE PUMP STATION LOCATION ANALYSIS

With validated data and field information in hand, our Team will evaluate multiple locations for the proposed pump station. Each potential site along the Jackson–Jefferson corridor will be examined for hydraulic effectiveness, constructability, operational access, environmental compatibility, community impacts, and long-term adaptability. The flood-reduction benefit of each alternative will be assessed through a comprehensive ICPR 1D/2D modeling analysis.

Our modeling framework will simulate rainfall-runoff responses, overland sheet flow dynamics, inlet capture behavior, tidal and groundwater interference, and the performance of proposed pump configurations under a range of storm events. GIS analysis will complement these simulations by delineating sub-basins, mapping overland flow paths, identifying elevation constraints, and evaluating susceptibility to sea-level rise, king tides, and future groundwater rise. This combination of modeling and GIS analytics provides a high-resolution, defensible representation of system performance that supports informed evaluation of each alternative.

Our experience in developing the prior BODR for the City reinforces our evaluation methods. That study demonstrated the benefits of evaluating alternatives through a structured, criteria-based framework that considers hydraulic performance, water-quality enhancement, constructability, permitting feasibility, and long-term system sustainability. The analytical techniques and lessons from that effort will be applied to the alternative analysis for Pump Station #16, enabling a thorough and disciplined comparison of location options.

BASIS OF DESIGN REPORT (BODR) DEVELOPMENT

Following the alternative analysis, our Team will prepare a comprehensive Basis of Design Report tailored specifically to Pump Station #16. This report will include a narrative of existing conditions, the modeling methodology used to evaluate flood behavior, the assumptions and parameters embedded within the ICPR model, and the analytical results supporting site and configuration selection. Conceptual design information—including pump sizing, wet-well configuration, discharge routing, and preliminary structural and electrical concepts—will also be documented.

While the BODR prepared for Systems 1–3 served a different drainage area, it provides useful precedents regarding hydraulic constraints, coastal system responses, and practical considerations in pump station development. Our Team will carry forward those lessons, applying the same level of rigor to Pump Station #16 while tailoring all inputs and conclusions to the specific conditions of the Jackson–Jefferson basin.

TAB E: APPROACH TO SCOPE OF WORK

ENVIRONMENTAL CONSIDERATIONS

Environmental awareness is essential in a coastal project of this nature. Our Team will conduct all required environmental assessments, including bathymetry, shoreline conditions, tidal influence evaluations, and analysis of potential impacts on surrounding water bodies. We will identify opportunities to enhance water quality and align with the City's environmental objectives, drawing from our experience in the Systems 1–3 BODR where water quality improvements were incorporated through the selection of advanced treatment systems.

Although the basins differ, the principles remain the same: improving downstream water quality, protecting sensitive coastal resources, and ensuring that the new infrastructure contributes positively to the environmental health of the community. The final design for Pump Station #16 will reflect these values through thoughtful engineering and environmentally responsible decision-making.

ENGINEERING DESIGN DEVELOPMENT

30% Schematic Design

Once the City selects the preferred pump station location, our Team will develop the 30 percent schematic design which establishes the framework for the final infrastructure layout. At this stage, we will prepare the conceptual site layout, draft grading and drainage elements, preliminary wet well and pump station geometry, initial mechanical and electrical layouts, and refined ICPR-derived hydraulic profiles. The 30 percent deliverable provides the City with a clear understanding of design intent and ensures alignment before advancing into full design development.

60% Schematic Design

During the 60 percent development stage, each component of the station will be detailed further. Civil design elements—including stormwater conveyance, site layout, access routes, and discharge structures—will be advanced to full engineering detail. Structural components such as the wet well, foundation elements, and electrical building will be engineered considering groundwater influence, coastal uplift forces, and long-term settlement potential.

Mechanical and electrical designs, including pump configurations, power distribution, and SCADA integration, will be further defined. Updated ICPR modeling results will confirm the performance of the progressing design and help refine key hydraulic decisions. Throughout this stage, all design elements will be reviewed for consistency with permitting requirements and long-term operational goals.

90% Schematic Design

At the 90 percent design milestone, all interdisciplinary elements will be fully coordinated, and design refinements will reflect feedback from the City and permitting agencies. Plans, profiles, details, and specifications will be near-final, and the hydraulic report will be updated to reflect any modifications made during the 60 percent review. A comprehensive internal quality-control review will be performed to ensure accuracy, clarity, and constructability.

Final Design and Bid Documents

Upon approval of the 90 percent submittal, we will prepare the final signed and sealed plans and specifications, including final cost estimates, construction phasing considerations, and bid-ready documentation. We will support the City through the bidding process by responding to contractor questions, attending pre-bid meetings, and providing interpretive support necessary for competitive and informed bidding.

PERMITTING COORDINATION

Permitting is a critical component of coastal pump station development, and our Team will manage this process with the same level of focus and rigor applied to design. We will coordinate with the Florida Department of Transportation for any work within or adjacent to the SR A1A corridor, ensuring all roadway, utility, and restoration requirements are met. The South Florida Water Management District will review stormwater and environmental resource considerations, including discharge conditions and basin performance.

Broward County's environmental agencies will be engaged to address water quality, coastal resources, and environmental protection concerns. If required by final design parameters, permitting coordination will also extend to the U.S. Army Corps of Engineers for work impacting jurisdictional waters.

TAB E: APPROACH TO SCOPE OF WORK

The City of Hollywood Building Division will review and approve all structural, mechanical, electrical, and civil components of the pump station. Through early engagement and proactive communication with each agency, we aim to maintain predictable review timelines, minimize redesign risk, and ensure a smooth transition into construction.

CONSTRUCTION ADMINISTRATION

Our involvement continues throughout construction, where we provide essential oversight and support to ensure the infrastructure is built consistent with the design intent. We will review contractor submittals, respond to requests for information, participate in construction progress meetings, and conduct targeted site observations. As the project nears completion, we will assist in developing punch lists, verifying system testing and start-up procedures, reviewing as-built documentation, and providing final certification.

CONCLUSION

Pump Station #16 represents a pivotal investment in the City of Hollywood's ongoing commitment to resilience, public safety, and long-term coastal sustainability. The Jackson–Jefferson corridor faces the combined challenges of limited elevation, tide-influenced outfalls, shallow groundwater, and increasingly intense rainfall—conditions that place persistent strain on the existing drainage system and threaten mobility, safety, and community well-being. Addressing these conditions requires more than a conventional drainage project; it demands an engineered solution that performs under today's constraints while anticipating the hydrologic and climatic realities of the future. Our Team approaches this project with the understanding that Pump Station #16 will serve as a defining component of the City's coastal stormwater network and a highly visible demonstration of Hollywood's resilience strategy in action.

By applying advanced coastal drainage modeling, comprehensive GIS-driven analysis, and technically rigorous pump station design, we ensure this infrastructure responds effectively to both routine and extreme events. Our prior work preparing the City's Basis of Design Report for Systems 1–3 gives us a unique advantage in understanding the behavior of stormwater systems affected by tidal stages, groundwater rise, and limited positive outfall conditions.

Although those systems differ from the Jackson–Jefferson basin, the methodologies developed, modeling refinements implemented, and lessons learned regarding coastal hydraulic limitations directly inform our approach to Pump Station #16. This continuity of technical knowledge strengthens our ability to deliver a design rooted in previous success while tailored specifically to the distinct conditions of this project area.

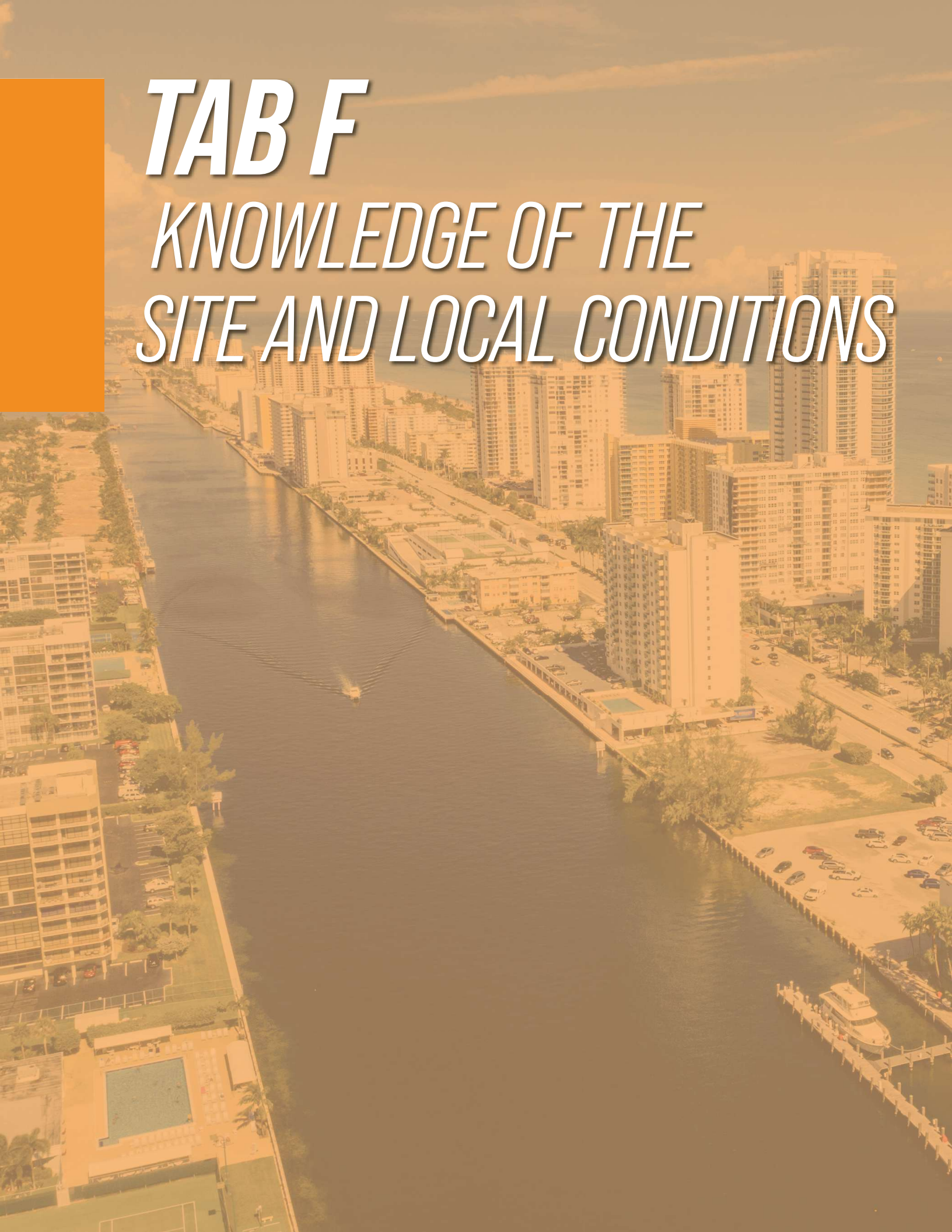
Our goal is to provide a pump station that meaningfully reduces flooding, stabilizes roadway operations, restores system reliability, and minimizes exposure to tidal influence. We place equal emphasis on improving downstream water quality, enhancing environmental performance, and aligning the system with long-term adaptation pathways. The integration of resilience planning into the core engineering process ensures that Pump Station #16 is not conceived as a static, single-purpose structure, but rather as a vital and adaptable asset capable of supporting the City's drainage needs well into the future.

Beyond the engineering, our approach reflects a broader commitment to the community and to Hollywood's identity as a coastal city. We design with a deep respect for the natural systems that surround the project, the residents who depend on reliable mobility along SR A1A, and the City's vision for a sustainable and prosperous coastline. Through thoughtful planning, disciplined execution, and continuous collaboration with City staff, we will deliver a facility that stands as a cornerstone of Hollywood's broader resilience framework.

Our Team is honored to support the City in this transformative effort. With a combination of technical expertise, strategic insight, and a long-standing understanding of Hollywood's coastal infrastructure, we are prepared to deliver Pump Station #16 as a resilient, high-performing, and future-ready investment that protects the community for generations to come.

TAB F

KNOWLEDGE OF THE SITE AND LOCAL CONDITIONS



TAB F: KNOWELEDGE OF THE SITE AND LOCAL CONDITIONS

KNOWLEDGE OF SITE

Our team brings unmatched familiarity with the project site, regulatory framework, and operational considerations, having already designed three of the four stormwater pump station systems within this same corridor under the leadership of Lazaro Ferrero, P.E. As illustrated in the figure below, BCC served as the design engineer for the Bougainvilla and Van Buren Systems (FDOT District IV, currently under construction), completed the Basis of Design Report (BODR) for Systems 1–2 & 3 (City of Hollywood), and are currently advancing System 4 for the City.

The BODR we prepared for Systems 1–2 & 3 is presently being used by the City as the technical foundation for implementation, providing us with direct insight into the hydraulic criteria, basin delineations, tailwater conditions, and system performance requirements governing this project.

This continuity provides an immediate advantage: our team has already analyzed the drainage patterns, established design control elevations, coordinated with agencies, and addressed site constraints specific to this coastal corridor. We possess working knowledge of the Florida Building Code, FDOT Drainage and Structures Manuals, South Florida Water Management District (SFWMD) permitting requirements, Broward County and City of Hollywood standards, FEMA floodplain criteria, and ASCE 7 wind load requirements applicable to hurricane-prone regions.

Local Conditions

The project area is characterized by low elevations, tidal influence, high groundwater, and exposure to hurricane-force winds. Our pump station designs in this corridor and throughout Broward and Miami-Dade Counties incorporate resilience measures such as elevated control systems, corrosion-resistant materials, surge protection, emergency power integration, and hydraulic redundancy to ensure reliable performance during extreme weather events.

Regulatory Requirements

Our team is highly experienced in navigating local permitting agencies, submittal procedures, ERP approvals, dewatering permits, and construction-phase testing and commissioning protocols. With two adjacent systems currently under construction, we remain actively engaged in shop drawing review, contractor coordination, pump performance testing, and startup sequencing within this same jurisdiction.

Additionally, we have successfully delivered stormwater pump station projects in similarly constrained environments in North Bay Village, the City of Miami, and the City of Key West—locations that present complex logistical challenges including occupied facilities, limited staging areas, active roadways, pedestrian traffic, and heightened public safety considerations. Our experience with maintenance of traffic, phased construction, utility conflicts, and construction within tight coastal corridors ensures that this project will be executed with minimal disruption and maximum efficiency.

With over 40 years of drainage and stormwater infrastructure experience, Mr. Ferrero's leadership, combined with our team's direct involvement in three of the four systems within this basin, uniquely positions us to seamlessly advance and complete the remaining improvements with technical precision, regulatory compliance, and full awareness of site-specific challenges.

TAB F: KNOWELEDGE OF THE SITE AND LOCAL CONDITIONS

Figure 1. City of Hollywood Stormwater Pump Station Systems

TAB G

REFERENCES

VENDOR REFERENCE FORM

TAB G: REFERENCES AND VENDOR REFERENCE FORM

CITY OF SUNRISE, FL
CONTINUOUS MISCELLANEOUS CIVIL ENGINEERING

Broward County, FL

BCC Engineering is providing professional services related to a continuing contract for civil engineering including schematic design, design development, and construction administration

VENDOR REFERENCE FORM

City of Hollywood Solicitation #:	RFQ-365-26-JJ		
Reference for:	BCC Engineering, LLC		
Organization/Firm Name providing reference:	City of Sunrise		
Organization/Firm Contact Name:	Luisa Fernanda Arbeláez, PE, PMP	**Title:**	Project Manager
Email:	larbelaez@sunrisefl.gov	**Phone:**	954.888.6009
Name of Referenced Project:	Miscellaneous Civil Engineering Services	**Contract No:**	17-03-01-MS
Date Services were provided:	2017 - Ongoing	**Project Amount:**	Contract 1: $1,129,731 Contract 2: $584, 566
Referenced Vendor's role in Project:	☑ Prime Vendor	☐	Subcontractor/ Subconsultant
Would you use the Vendor again?	☑ Yes	☐	No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
This Miscellaneous Civil Engineering Continuous Contract consists mostly of site development projects that include paving, drainage and utility distribution as well as work on roadways and drainage within the right-of-way.

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

Additional Comments (provide additional sheet if necessary):
The team assigned to 3 of our projects is led by Jean Rodriguez, providing design and construction administration services. The City of Sunrise benefited from his attention to detail, flexibility in accommodating staff requests, and thorough coordination of permitting and testing requirements. The team is quick to adapt to changes and prompt in offering alternatives and recommendations, making them a great team to work with.

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

TAB G: REFERENCES AND VENDOR REFERENCE FORM

CITY OF LAUDERHILL, FL
MISCELLANEOUS PROFESSIONAL CIVIL ENGINEERING SERVICES

Broward County, FL

This continuous engineering professional services contract consists of providing technical services, and prepare studies, conceptual renderings, preliminary and final designs, specifications and bidding documents, opinion of construction cost, assist during the bid process and award of contracts, perform evaluations, inspections, repairs, as well as services during construction of any improvement project.

VENDOR REFERENCE FORM

City of Hollywood Solicitation #:	RFQ-365-26-JJ		
Reference for:	BCC Engineering, LLC		
Organization/Firm Name providing reference:	City of Lauderhill		
Organization/Firm Contact Name:	Juan Martin Cala, PE	**Title:**	City Engineer / Director
Email:	jmcala@lauderhill-fl.gov	**Phone:**	954.730.3000
Name of Referenced Project:	Miscellaneous Professional Services	**Contract No:**	
Date Services were provided:	2020 - 2023	**Project Amount:**	$759K
Referenced Vendor's role in Project:	☑ Prime Vendor	☐	Subcontractor/ Subconsultant
Would you use the Vendor again?	☒ Yes	☐	No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
This continuous engineering professional services contract provides technical services including studies, conceptual renderings, preliminary and final designs, specifications and bidding documents, opinions of construction cost, bid and contract award assistance, evaluations, inspections, repairs, and construction-phase services for improvement projects.

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

Additional Comments (provide additional sheet if necessary):
BCC Engineering is currently a Miscellaneous Consultant for the 2023-2027 period.

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Verified by:	**Name:**				**Title:**	
	Department:				**Date:**	

TAB G: REFERENCES AND VENDOR REFERENCE FORM

NORTH BAY VILLAGE, FL
GENERAL PROFESSIONAL ENGINEERING AND ARCHITECTURAL SERVICES

Miami-Dade County, FL

The project is located in North Bay Village, FL in Miami-Dade County within Harbor Island and Treasure Island. The project involves several task work orders. The scope of services include, but are not limited to, providing general engineering and architectural services to provide planning, reviews, assessments, reports, studies, design, project permitting, renderings, schedules, cost estimates, construction specifications, project management, construction inspection and construction management for projects such as marine construction, roadway, transportation/traffic signalization, traffic calming, drainage, water, sanitary sewer, site plan, architectural planning and design (incl. structural, mechanical, electrical and plumbing), sustainability, environmental and landscaping

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ
Reference for: BCC Engineering, LLC

Organization/Firm Name providing reference: North Bay Village
Organization/Firm Contact Name: Frank Rollason **Title:** Village Manager
Email: VillageManager@nbvillage.com **Phone:** 305.756.7171 / 305-299-7300-CELL
Name of Referenced Project: Contract for General Professional Engineering and Architectural Services **Contract No:** 2019-005
Date Services were provided: 2019 - Ongoing **Project Amount:** $890K

Referenced Vendor's role in Project: ☑ Prime Vendor ☐ Subcontractor/ Subconsultant
Would you use the Vendor again? ☑ Yes ☐ No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
This is a task order/on-call contract with the Village under which BCC provides services as needed. Services include general engineering, planning, design, permitting, cost estimating, project and construction management, and inspections. Projects may involve marine, roadway, traffic, drainage, water and sewer, architectural, sustainability, environmental, and landscaping work.

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

Additional Comments (provide additional sheet if necessary): ASIDE FROM SPECIFIC ASSIGNMENTS THEY HAVE STEPPED UP TO OVERSEE ADDITIONAL ENGINEER CONSULTANTS WORK PRODUCT TO KEEP ALL OUR PROJECTS ON TIME!

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Verified by:	Name:				Title:	
	Department:				Date:	

TAB G: REFERENCES AND VENDOR REFERENCE FORM

NORTH BAY VILLAGE, FL
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VENDOR REFERENCE FORM

City of Hollywood Solicitation #:	RFQ-365-26-JJ		
Reference for:	BCC Engineering, LLC		
Organization/Firm Name providing reference:	North Bay Village		
Organization/Firm Contact Name:	Frank Rollason	**Title:**	Village Manager
Email:	VillageManager@nbvillage.com	**Phone:**	305.756.7171 / 305-299-7300-CELL
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Date Services were provided:	2019 - Ongoing	**Project Amount:**	$890K
Referenced Vendor's role in Project:	☑ Prime Vendor	☐	Subcontractor/ Subconsultant
Would you use the Vendor again?	☑ Yes	☐	No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
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Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	☐	☐	☑	☐
b. Accuracy	☐	☐	☑	☐
c. Deliverables	☐	☑	☐	☐
Vendor's Organization:				
a. Staff expertise	☐	☐	☑	☐
b. Professionalism	☐	☐	☑	☐
c. Staff turnover	☐	☐	☐	☑
Timeliness/Cost Control of:				
a. Project	☐	☐	☑	☐
b. Deliverables	☐	☐	☑	☐

Additional Comments (provide additional sheet if necessary): ASIDE FROM SPECIFIC ASSIGNMENTS THEY HAVE STEPPED UP TO OVERSEE ADDITIONAL ENGINEER CONSULTANTS WORK PRODUCT TO KEEP ALL OUR PROJECTS ON TIME!

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Verified by:	**Name:**				**Title:**	
	Department:				**Date:**	

TAB H
SUB CONSULTANT INFORMATION

TAB H: SUB CONSULTANT INFORMATION

PARSONS

Overview:

Since 1944, Parsons Transportation Group Inc. (Parsons) has been involved with many of the foremost transit and capital work programs throughout the United States and the world, employing over 18,000 highly qualified personnel operating from 350 offices in 26 countries. Parsons develops comprehensive transit and intercity rail projects from concept through operation by implementing innovative project delivery mechanisms. The firm offers unrivaled experience leading PD&E studies that have been designed and constructed and are operating as their clients intend. Parsons has more than 60 years of experience for more than 400 clients on rail and transit systems around the world as owners' representatives, designers, and contractors, and for many different rail transit types, including LRT, APM, Metro, regional, commuter and freight rail.

Florida Stats:

500+ employees in Florida (Note – does not include BCC)

114 Florida Registered Professional Engineers

1950s – began Florida operations

Office locations: Ft. Lauderdale, Miami, Orlando, Tampa, Jacksonville

Karen, if you need other stats please let me know! We've delivered $billions in projects, we have ENR rankings, etc.

Service Offerings:

General infrastructure: https://www.parsons.com/global-infrastructure/

Transit: https://www.parsons.com/rail-transit/

Awards:

Project awards:

Awards Project: Project Name- Marketing	Award Description	Award Institution	Award Date	Award Type
US 41/Fruitville Road Intersection Project Development and Environment Study	2021 Planning Innovation of the Year Nominee	TransPlex	4/9/21	Innovation
South Dade TransitWay Corridor (South Corridor) Bus Rapid Transit	Envision Gold Award	Institute for Sustainable Infrastructure (ISI)	8/28/24	Sustainability

TAB H: SUB CONSULTANT INFORMATION

PARSONS

Corporate:

TAB H: SUB CONSULTANT INFORMATION

KEITH
Engineering Inspired Design.

KEITH Team Key Information:

Legal Name: Keith and Associates, Inc., dba KEITH

Local Office: 5805 Blue Lagoon Drive, Suite 218, Miami, FL 33126

FEIN: 65-0806421

Primary Contact:

Alex Lazowick, PE, PMP, ENV SP

CEO/President

ALazowick@KEITHteam.com

954.788.3400

Staff based in Miami-Dade County: 12

For more than 60 years, KEITH has served South Florida communities, operating from its Broward County headquarters since 1998 with additional offices in Miami-Dade, Palm Beach, St. Lucie, and Orange counties. As one of the region's most experienced Surveying, Mapping, and Subsurface Utility Engineering (SUE) firms, our team of more than 220 professionals delivers services that create, preserve, and enhance the communities we serve.

KEITH has maintained long-standing relationships with the City of Hollywood, providing both prime and subconsultant services on projects such as the Downtown Young Circle Project, Floodplain Management Plan Update, Stormwater Program Management, and the Hollywood Art & Culture Center. We also hold multiple continuing services contracts with the City and more than 50 active contracts across Broward County requiring geospatial expertise.

With decades of survey experience throughout Broward County, our familiarity with local agencies, utility providers, and community conditions gives us valuable insight into project needs. Surveying and Mapping has been a core service since our founding, and we continue to uphold the personal service and technical excellence established by our founder, Bill Keith, PSM. Our team has successfully delivered thousands of survey projects, navigating complex schedules, budgets, and program requirements.

Survey & SUE for Stormwater Design

We provide comprehensive Survey and SUE services to support stormwater planning and design, including high-accuracy surface modeling, drainage feature collection, and design-ready elevation data. Our SUE work follows ASCE 38-22 standards, combining records research, electromagnetic and GPR designating, and test holes to verify utility conditions. Together, these services produce accurate, conflict-free base maps that support efficient, cost-effective stormwater infrastructure design.

TAB H: SUB CONSULTANT INFORMATION

312 SE 17th Street, Suite 200
Fort Lauderdale, FL 33316

Corporate Headquarters
6575 West Loop South, Suite 300
Bellaire, TX 77401
Main: 713.520.5400

Company Profile

RES Florida Consulting, LLC, founded in 2000, was acquired by and is now a wholly-owned subsidiary of Resource Environmental Solutions, LLC (together with all of its subsidiaries and affiliates, "RES"). As part of RES, the nation's largest nature-based solutions company, RES Florida Consulting brings specialized expertise in Florida's environmental, ecological, and engineering services. The team has a long track record of successfully delivering projects across Florida and the Southeastern United States.

RES was founded in 2007 in Baton Rouge, Louisiana, RES quickly expanded along the Gulf Coast and grew organically into Texas, Pennsylvania, West Virginia, and Ohio. Over the years, knowing that local expertise is critical, RES has acquired several leading firms from across the country who share our vision of a resilient earth and sustainable development. Headquartered in Houston, Texas, RES employs over 900 dedicated employees in offices across the country.

RES supports the public and private sectors with durable, resilient infrastructure for communities through solutions for environmental mitigation, stormwater and water quality, and climate and flooding resilience. RES has a unique operating model for delivering ecological uplift, based on science-led design, full delivery, long-term stewardship, and guaranteed performance. From headwaters to coastal shores, RES designs, builds, and sustains sites that preserve the environmental balance, lifting impaired ecosystems into restored health and ultimately, self-sufficiency. These projects restore sensitive wetland, prairie, and species habitats as well as floodplains, streams, river valleys, and coastal and tidal systems. The result is nature-based systems that cleanse water, shelter wildlife, buffer storms, and sequester carbon from the atmosphere.

RES works closely and creatively with municipalities, developers, operators, landowners, and regulatory agencies to balance the needs of the client, community, and the resource. Our operating model is built around this approach. We employ teams covering the full project lifecycle, combining in-house analytics and technical expertise with implementational resources and capabilities. Specifically, RES can support our team in the following services

Ecological Consulting Services

Our ecological staff includes full-time senior environmental scientists with degrees in soil and water science, ecology, biology, earth science, urban forestry and marine biology. RES' primary ecological services include wetland delineation and evaluation; wildlife surveys and permitting; habitat assessments and conservation plans; marine and coastal ecology; wetland and habitat restoration; urban forestry and tree inventories; land management, and natural systems analysis. We have extensive experience permitting projects with the USACE, FWS, FDEP, Water Management Districts and local municipalities throughout Florida.

Environmental Consulting Services

RES provides a full range of environmental services to identify, remediate and resolve issues related to contamination of soil and groundwater. We have extensive experience investigating and remediating surface and subsurface environments for a variety of contaminants from petroleum, chlorinated solvents and other hazardous materials and are intimately familiar with geological and hydrogeological systems in Florida and the Southeastern United States. Our environmental staff includes registered professional engineers and geologists, and degreed scientists whose expertise provides a comprehensive combined set of skills that support our clients' goals through and even beyond the planning, design and construction phases of projects.

Engineering Consulting Services

Our engineering staff includes professionally licensed engineers with degrees in civil and environmental engineering. RES provides a broad scope of engineering services related to water quality management, stormwater management, transportation support, infrastructure management, hydrologic restoration and preservation, watershed planning and FEMA floodplain management and permitting, and permitting and compliance. We assist clients with major regulatory programs such as NPDES Phase I and Phase II permitting and compliance, Clean Water Act services, and numerous other specialty areas. RES professionals are skilled in facilities engineering, including transaction support services such as Property Condition Surveys and Development Feasibility Studies for industrial and commercial land uses.

res.us

TAB H: SUB CONSULTANT INFORMATION

Company Name: Delta Consultants, LLC
FEIN: 37-1999359
Office: 4841 NW 1 Ave. Miami, FL 33127
880 SW 145 Ave., Suite 106, Pembroke Pines FL 33027
Mailing Address: PO Box 403214, Miami Beach, FL 33140
Primary contact: Mariana Evora, PE (Principal)
e-mail: mariana@deltaconsultants.net
Phone Number: 305-240-9932
Small Business: SBE Certified

Company Overview

Delta Consultants, LLC (Delta) is a South Florida headquartered civil engineering firm that takes pride in being 100% minority and woman owned. Our professional staff are not only proficient project managers but are also technical subject matter experts that are experienced in the design, permitting, and construction of water, wastewater, stormwater, roadway, and site civil projects. Our team's primary focus is on the seamless execution and delivery of major public infrastructure projects, ensuring that we add value to our clients at every stage.

With a strong emphasis on innovation, collaboration, and technical excellence; Delta is committed to providing top-tier engineering solutions for today's complex infrastructure challenges. Our multidisciplinary approach allows us to address each project holistically; leveraging our expertise in various fields to deliver sustainable, cost-effective, and environmentally responsible results that contribute to the betterment of our communities.

Our background, managing infrastructure projects from beginning to end, and from the perspective of an owner, a consultant, and a contractor; provides an in-depth understanding of proper planning for viable project execution. We have considerable experience in successful major public infrastructure projects and pride ourselves in delivering projects that are fully constructed and operational. Leveraging our unique perspective, Delta ensures that projects align our client's objectives with stakeholder needs throughout the project lifecycle.

As part of Delta's pledge to its clients, the firm focuses on delivering professional services that meet the goals of a public entity while exceeding expectations. This means, not only providing practical and actionable civil infrastructure designs, permitting, and construction management solutions, but also minimizing changes as consultants.

Having been in your shoes, as municipal employees, we understand how important it is to have a true partner across all projects – one that is not myopically focused on the short term but is working to build a strong and lasting relationship. We look forward to partnering with the City of Hollywood.

TAB H: SUB CONSULTANT INFORMATION

Professional Service Industries, Inc. (PSI), *an Intertek Company*, (d/b/a Intertek-PSI), is a nationally recognized consulting engineering and testing firm providing integrated services in several disciplines, including geotechnical and environmental engineering, construction services, materials engineering & testing, roof & pavement consulting, asbestos management, and facilities consulting and engineering. We are a leader among the nation's independent testing organizations and rank among the country's largest consulting engineering firms. PSI was incorporated in Delaware, June 26, 1972. However, the name was not used in the marketplace until the 1980's. The Company was founded as A&H Materials Testing in 1961 in Champaign-Urbana, Illinois.

PSI maintains complete facilities and equipment for the inspection and testing of soils, foundations, concrete, structural elements, metals, pavement, roofing materials, asbestos, and specialty items. In addition to these basic services, we perform a full range of consulting engineering services, forensic evaluations, and quality assurance/quality control for construction projects. PSI's key team members have provided these services on hundreds of successfully completed projects, including roadways, utilities, and other facilities in both the private and public sectors. PSI consistently maintains certification by all pertinent regionally and nationally recognized testing laboratory certification bodies relative to the types of testing normally performed in our industry. All measurement equipment and instruments are routinely inventoried, marked and calibrated in accordance with the National Bureau of Standards. In addition to certification, the testing procedures are conducted under the guidelines of ASTM E329 where applicable, and in all cases, a state registered engineer oversees all inspection and materials testing procedures.

For over 40 years, PSI has provided our services on all types of projects throughout Florida and the Caribbean, including Puerto Rico, the Bahamas, and beyond. Our expertise has been utilized on a variety of projects including hotels & resorts, yacht basins/marinas, government facilities, roadways, airports, hospitals, high-rises, retail spaces, schools, and residential developments. Our breadth of technical offerings is the core of PSI's "One Company One Call" philosophy.

Our staff includes registered professional engineers with significant construction inspection and testing experience in Florida. Our technicians are ACI, AWS and NICET trained/certified in their respective disciplines and our laboratories are annually inspected/certified by CMEC and the FDOT. **We have over 300 employees located in our 10 Florida offices as well as a network of support with 1,800 staff members in 75 offices nationwide.** Our unique combination of local, independent offices paired with a nationwide presence allows PSI to provide the responsiveness and concern of a local firm with the collective skills and resources of a national company.

PSI's ability to meet your scheduling requirements is evidenced by our performance and successful completion of numerous similar projects and contracts. The nature of PSI's consulting business is the performance of many tasks of relatively short duration for multiple clients. Even our long-term contracts are of the indefinite quantity type, and thus, actual workload is dependent upon the release of individual task authorizations. As a result, no individual staff member is totally dedicated to a single project for long periods of time and we will always have ample field and laboratory capabilities to serve the needs of this contract rapidly and effectively. This operating environment promotes the discipline required to be flexible and sensitive to changing client needs—even during periods of peak demand.

PSI has developed a strong hands-on management approach and well-defined project management systems that help us meet your goals, provide maximum responsiveness, thereby completing projects on time, within budget, and to the highest quality standards. Our team's goal is to not only meet, but to exceed your needs and expectations regarding schedule, budget, and quality.

Professional Service Industries, Inc.
6500 NW 12th Ave., Suite 116, Fort Lauderdale, FL 33309
Courtland Alvies, MCE, PE (FL, GA, AL, NC, & SC) | Geotechnical Services Regional Manager
Direct: 813.580.5741 | Cell: 813.520.9266

TAB H: SUB CONSULTANT INFORMATION

intertek psi

FIRM GEOTECHNICAL EXPERIENCE

For over 40 years, PSI has been providing geotechnical solutions for a variety of city and county governments and private clients throughout Florida under challenging premises. PSI personnel have performed thousands of subsurface explorations in south Florida and our experience ranges from projects requiring a few soil borings to large projects requiring several hundred borings. We provide qualified recommendations and use the most updated field equipment to gather our information. PSI maintains a large variety of land and marine subsurface exploration equipment along with laboratory and office facilities. We have more than 100 fully equipped exploration crews with drill rigs mounted on all types of carriers to allow access to virtually any condition on land or water. The variety of sizes and types of equipment and our crews' broad experience allow flexibility in sampling and drilling techniques and in scheduling. PSI also has extensive experience in monitoring ground vibrations related to pile driving and other construction activities. We maintain in-house equipment and certified staff that are readily available to respond to these requests. PSI possesses the expertise necessary to address any issue that may arise, including unusual subsurface conditions, deep foundation design, vibration monitoring, evaluation of change in materials, and assessment of existing conditions with respect to planned construction. Our Geotechnical Services include:

Preliminary or General Studies
Muck survey
Site preparation specifications
Early site selection
Design of pond and landfill liners
Preliminary soil and foundation evaluation
Embankment settlement
Foundations for structures
Vibration studies
Slope stability and design

Environmental/Permitting
Environmental permits
Groundwater studies
Soil suitability analysis
Effluent disposal evaluation
Well and pollution source inventory
Design of pond and landfill liners
Water supply testing and permitting
Septic tank design and permitting
Drawdown effects on wetlands
Sanitary landfill permitting

Foundation/Specialty Analysis
Risk assessment
Foundations/construction over compressible soils
Subsoil modification
Analysis of high-rise foundations
Dewatering concepts
Soil mechanics research
Specialty foundations
Retaining walls
Cone penetration test data interpretation
Landfill foundation studies
Earthen dam analysis
Pile driving analyzer
Cross-hole Sonic Logging (CSL)

Groundwater Monitoring Plans
Design and implementation of groundwater monitoring plans
Installation of monitoring wells
Sampling of groundwater from monitoring wells

Effluent Disposal
Percolation pond design, Rapid Infiltration Basins (RIBs)
Wetland disposal assessment
Development of groundwater monitoring plans

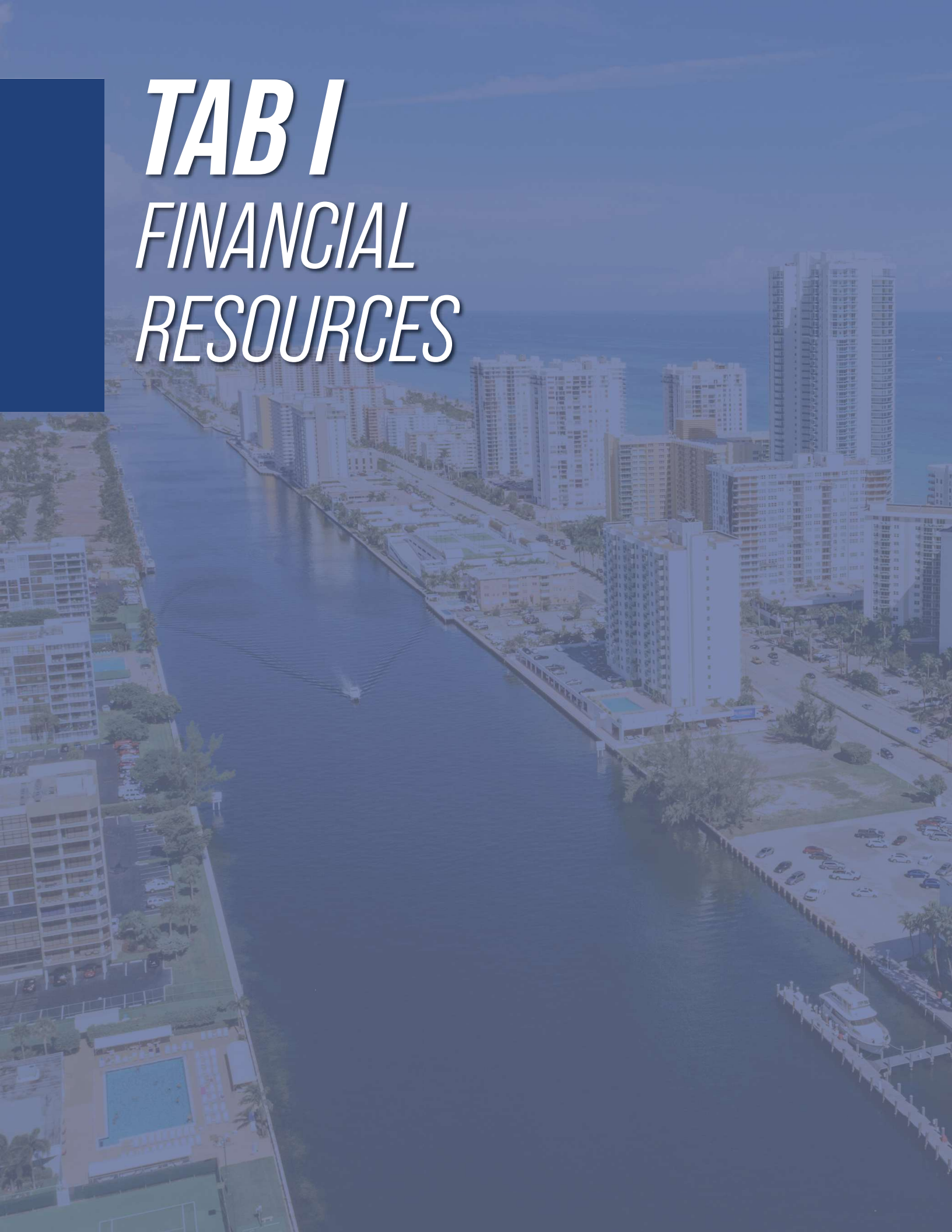
Roadway/Transportation Studies
Corridor study/fatal flaw analysis
Bridge foundations (shallow and deep)
Pavement design

Field and Drilling Services
Standard test borings
Auger borings
Rock coring
Monitoring well installation
Continuous sampling
Environmental sampling
Undisturbed thin-walled tubes
Groundwater sampling
Bulk disturbed samples
Mineral exploration

Laboratory Services
Soil classification
Strength parameters
Consolidation
Compaction
Permeability
CBR
Soil cement
Triaxial
Relative density

Additional Services
Hydrology
Earthquake geology and engineering
Environmental geology
Soil stabilization
Geophysical investigations
Soil/rock dynamics

TAB I
FINANCIAL RESOURCES



TAB I: FINANCIAL RESOURCES

bcc engineering
a PARSONS Company

February 5th, 2026

City of Hollywood
2600 Hollywood Boulevard
Hollywood FL 33020-4807

RFQ-365-26-JJ Engineering Services for Stormwater Pump Station #16 – Jackson to Jefferson Street Along SR A1A

To Whom It May Concern:

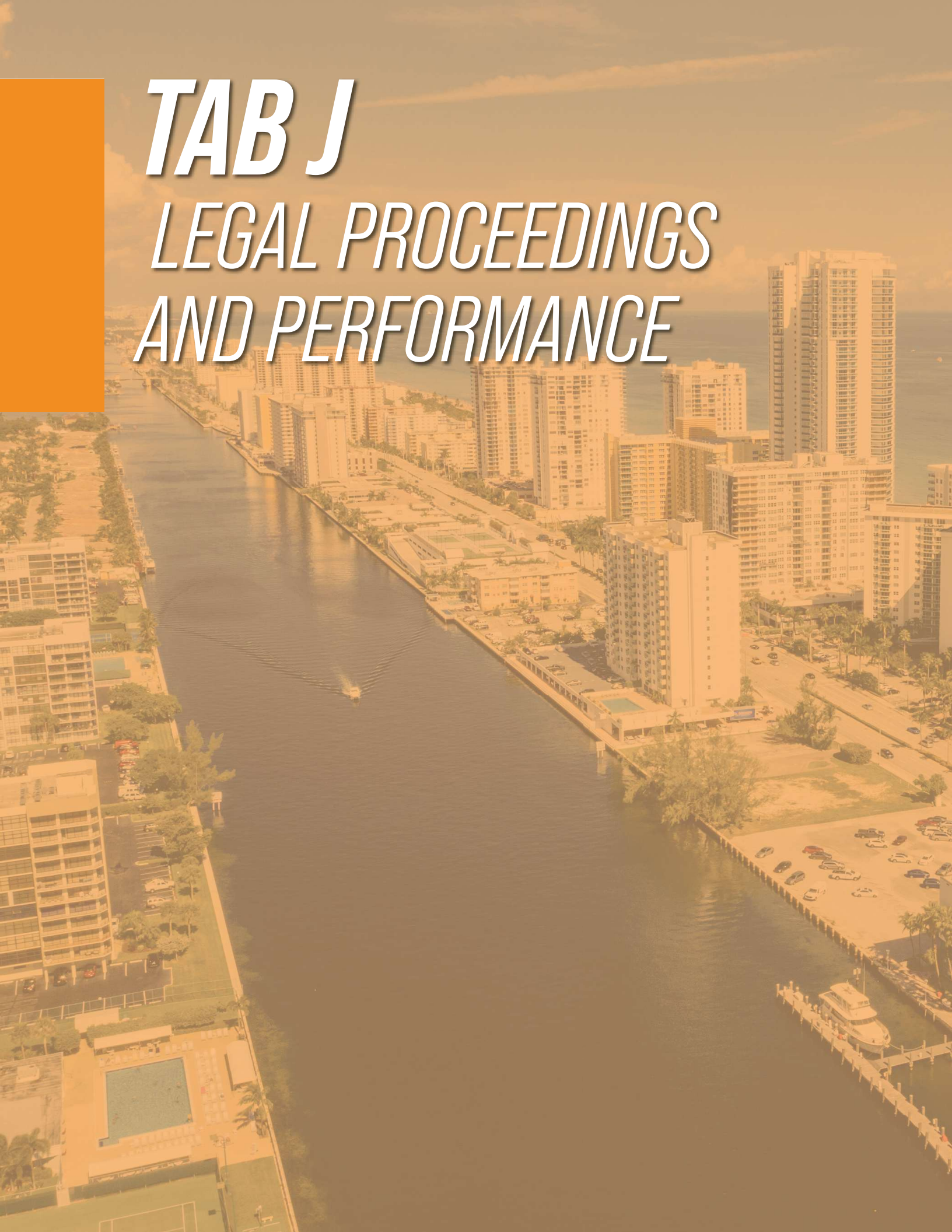
As requested, please accept this letter as our formal financial summary statement. BCC Engineering is in good and stable financial condition. BCC Engineering has no prior and no current bankruptcy proceedings.

If you need additional information regarding our financial condition, please feel free to contact me.

Sherri Creveling

Sherri Creveling
VP - Controller, Infrastructure NA, Parsons
Sherri.Creveling@parsons.com

6401 SW 87th Avenue | Suite 200 | Miami, FL 33173 | 305.670.2350 | @bcceng | www.bcceng.com



TAB J
LEGAL PROCEEDINGS AND PERFORMANCE

TAB J: LEGAL PROCEEDINGS AND PERFORMANCE

PARSONS

1422 S. Tryon St., Charlotte, Suite 800 NC 28203
Direct: +1 919 801 8562
satie.munn@parsons.com

February 5, 2026

City of Hollywood, Florida
Community Redevelopment Agency
2600 Hollywood Boulevard
Hollywood, Florida 33020-4807

Re: RFQ-365-26-JJ; Engineering Services for Stormwater Pump Station #16
Jackson to Jefferson Steet Along SR A1A

To Whom it May Concern,

I serve as corporate counsel for Parsons Corporation ("Parsons"). As you may be aware, Parsons recently acquired BCC Engineering, LLC ("BCC"). BCC's legal department integrated into Parsons' legal department, and I therefore represent both companies as an employee of Parsons.

In response to Tab J: Legal Proceedings and Performances, BCC responds as follows:

Liquidated Damages/Termination for Default
BCC has been in business for over 30 years, has performed thousands of projects, and has hundreds of ongoing projects at any given time, BCC. does not track or maintain a historical listing with respect to liquidated damages.

BCC has not been terminated from a contract for default.

Legal Proceedings
Regarding arbitrations, lawsuits, or any other proceedings (collectively, "legal proceedings"), as with any engineering and consulting organization, BCC may become involved in litigation from time to time. BCC carries insurance coverage in amounts sufficient to satisfy the requirements of its contractual obligations and to address claims that may be brought against BCC. BCC consistently works with its clients to address concerns related to any given project and, thus, attempts to avoid litigation whenever possible. Although BCC may be included in various legal proceedings from time to time, there are currently no proceedings pending against BCC that would be considered to have a material adverse effect upon the financial position and operations of BCC or which would affect its performance of Services for this project.

BCC has not been terminated from a contract by another party.

Neither BCC, its parent company, nor any subsidiaries have filed a bankruptcy petition.

If you need additional information, please do not hesitate to contact me.

Best Regards,

Satie Munn
Corporate Counsel

DELIVERING A BETTER WORLD