



KEY PERSONNEL

Experience Highlights

- Project Management Professional with Business Management background and a MBA
- Experience in Prolog, Procore, Primavera, etc.
- Fluent in Spanish with a good-neighbor attitude and a focus on diverse engagement.
- Participation on 7 programs totaling \$100B in constructed costs

EDUCATION:

MBA – Business Management;
BS – Business Management

LICENSING/REGISTRATION:

Project Management
Professional (PMP)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO THIS PROJECT:

100%

TOTAL YEARS EXPERIENCE:

25

YEARS WITH CDM SMITH:

3

YEARS WITH OTHER FIRMS:

22

Juan Mendoza, Jr., PMP

Onsite Project Manager

Roles and Responsibilities. Juan has successfully led a wide range of infrastructure programs, offering a proven track record in project and design management, project execution, and providing construction administration services. His ability to manage resources, timelines, and stakeholder expectations while maintaining a focus on achieving strategic objectives has consistently delivered high-quality results.

Owner's Representative and Project Technical Lead/Pre-Construction Manager, New Fortress Energy/Genera Master Services Agreement Program Management, New Fortress Energy/Genera, Puerto Rico

- Led a team of 23 professionals supporting the improvement of Puerto Rico's power infrastructure in this \$1.6B program with 14 projects launched in the aftermath of the extensive damage caused by hurricane Maria.
- Led all aspects of the program, including planning, scheduling, document controls, budgeting and cost control, environmental compliance, real estate, safety, quality assurance, and risk management.
- Streamlined the execution of the program by optimizing the procurement and contract packaging approach, coordinating equipment purchases, and improving sequencing; coordinated regularly with key stakeholders, including facility operations, senior management, funding agencies, and regulatory agencies.
- Oversaw the development and deployment of dashboards and the integration of multiple software systems and tools to improve the reliability and timeliness of communications and status reporting.

Program Manager, Sheldon Independent School District, Houston, TX

- Responsible for the development and management of the long-range program plan, program finances and budget, comprehensive scheduling, and procurement and management of professional and construction services for all phases of a \$285M school construction program.
- Provided innovative value engineering solutions that reduced construction cost, accelerated schedules, and provided greater operational flexibility for the school District, while with a previous firm.
- Regularly presented program status updates to the school board, the public, and other stakeholders
- The program included:
 - A new 3,500-student high school with an athletic complex that included a 10,000-seat football stadium on a greenfield site of a 185-acre campus
 - A new 700 student Performing and Visual Arts Elementary school
 - Converting a 3,000-student existing high school to a 1,500-student middle school

Construction Manager, Confidential Chemical Client Design-Build Capital Projects, Southern United States

- Portfolio of fast-tracked capital projects at a complex industrial facility, these multifaceted projects included demolition, civil works, electrical, and process improvements.
- Led a team responsible for overseeing the entire construction process, including managing contracts, quality assurance, safety, and coordination with facility operations, while with a previous employer.

Program Manager, Freudenberg Oil & Gas, Houston, TX

- Led the Project Management Office (PMO), while with a previous employer, which assured that the product/project standards, methodology, and best practices were consistently applied through all product/project phases for the manufacturing of topside and subsea flange connectors.
- Developed standard reports for each department and executive manager that included production rates, resource utilization, delivery timelines, and product quality.

Senior Consultant, Turner & Townsend, Houston, TX

- Responsible for establishing a consulting business for the commercial services group, which included the business development, project management, project controls, and estimating departments.
- Developed Business Unit strategies and goals for each department and to increase revenue and profit.
- Provided direction, leadership, and supervision to staff on programs and projects, including establishing a PMO for \$1B+ portfolio for Chevron, while with a previous firm.

Senior Consultant, Faithful + Gould, Houston, TX

- Led all aspects of the program from conception through design to execution which included planning, scheduling, document controls, budgeting and cost control, environmental compliance, real estate, safety, quality assurance, and risk management
- Coordinated regularly with key stakeholders, including facility operations, funding agencies, and regulatory agencies
- Managed, maintained, and assisted various clients through all phases of programs/project execution, while with a previous employer.
- Clients included GlaxoSmithKline, BP Information Technology and Service, Nokia Siemens Networks, and a private hospital and the projects were located in multiple South American countries and across the United States.

Project Manager, Construction Contractors, Various Clients, Various Locations

- Construction project manager on a wide variety of projects, including roadway, drainage, utilities, schools, and telecommunications, while with a previous firm.

Staff Sergeant, US Army, Various Locations

- Led a float bridge team of 36 soldiers to assist in constructing a floating bridge across the Sava River, which forms the border between Croatia and Bosnia
 - Led a team of over a 100 soldiers and various contractors to build camp fortification, sleeping, dining, support facilities and a Helipad for a medical support camp facility, near Camp Bedrock
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KEY PERSONNEL

Experience Highlights

- Extensively knowledgeable of Hollywood's SWMM model
- Includes 70+ pipeline projects totaling more than 600,000 LF and more than \$200M in constructed costs—all in Florida
- Career focused on outside-the-fence infrastructure projects in South Florida

EDUCATION:
ME, BS – Environmental Engineering

LICENSING/REGISTRATION:
PE: FL; Project Management Professional (PMP); Board Certified Environmental Engineer (BCEE)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO THIS PROJECT:
60%

TOTAL YEARS EXPERIENCE:
38

YEARS WITH CDM SMITH:
38

YEARS WITH OTHER FIRMS:
0

Jonathan Goldman, PE, PMP, BCEE

Project Engineer; Engineering and Technical Services – Task Leader

Roles and Responsibilities. Jon is a senior project manager for large, complex engineering projects throughout the state of Florida, he brings a strong history of providing quality work and responsive service to Hollywood on the Stormwater Master Plan. His civil and environmental engineering experience is concentrated in the areas of stormwater management, stormwater master planning and treatment system design, and stormwater utility evaluation, creation, and refinement; hydraulic modeling and analysis of large collection, pumping and transmission systems; and utility infrastructure asset risk prioritization, evaluation, and rehabilitation, sanitary sewer evaluation studies, construction management, and water resources.

Project Manager/Engineer of Record, Comprehensive Stormwater Master Plan, City of Hollywood, FL

- Multi-year, \$2.8M effort which includes the creation of an interactive stormwater geographic information system (GIS), comprehensive survey of topography, LiDAR, stormwater feature verification of location, elevation, and connectivity, development of basin boundaries, seawall heights, finished-floor elevations of critical infrastructure, and channel cross sections, and hydraulic modeling of the system using dynamic SWMM modeling.
- Cost benefit analysis using FEMA HAZUS methodology, a phased capital improvements program which considers sea-level rise and storm surge resiliency for two alternate levels of service across four major watersheds, water quality treatment for the Broward County receiving waterways, and a king tide emergency management standard operating procedure for low lying coastal areas.
- Coordination with City parks and golf courses for dual use conversion for stormwater management, a suite of immediate action interim stormwater relief capital improvement projects, a public awareness campaign and stakeholder workshops, funding options, and grant assistance.

Project Manager/Engineer of Record, Comprehensive Stormwater Master Plan, City of Miami, FL

- Multi-year, \$5.3M effort which includes the creation of an interactive stormwater GIS from several decades of mixed media records and as-builts, comprehensive survey of topography, LiDAR, stormwater feature verification of location, elevation, and connectivity, development of basin boundaries, seawall heights, finished-floor elevations of critical infrastructure, and channel cross sections, and hydraulic modeling of the system using dynamic SWMM modeling.
- Cost benefit analysis using FEMA HAZUS methodology, a phased 10- and 20-year capital improvements program which considers sea-level rise and storm surge resiliency for multiple levels of service across seven major watersheds, water quality treatment for the protection of Biscayne Bay, an electronic stormwater design standards manual, a public awareness campaign and stakeholder workshops, funding options, and grant assistance.

Project Manager/Lead Design Engineer, Capital Improvement Plan Wastewater Program, City of Fort Lauderdale, FL

- \$250M, 10-year program included planning, design, and construction of stormwater and water main improvements and pump station, new transmission force mains, sanitary sewer systems, and wastewater treatment plant (WWTP) upgrades to meet the City's goal of sewerage the entire service area.

Project Manager, Miami International Airport GIS Stormwater Atlas, Miami Dade Aviation Department (MDAD), FL

- The Miami International Airport Stormwater Atlas is an updated Stormwater Atlas for Miami International Airport, created an accurate stormwater atlas for the airport based on as-built drawings, record drawings, and CAD files verified by survey and field inspection.

Project Manager and Engineer-of Record, Miami Opa Locka Executive Airport (OPF) Stormwater Master Plan, Miami-Dade County Aviation Department (MDAD), Miami-Dade County, FL

- Provide stormwater services by using Innovyze XP-SWMM to model current conditions for the update to the hydrologic and hydraulic model and delivered future scenarios and sea level rise simulations.
- Updated stormwater model uses revised digital elevation model (DEM), an updated primary stormwater management system (PSMS) based on the 2017 Stormwater Atlas previously developed by CDM Smith for MDAD, recent project design plans, and boundary conditions from Miami-Dade County XP-SWMM model.
- Stormwater management control measures were provided to meet the Federal Aviation Administration and South Florida Water Management District requirements.

Project Manager, Parcel Pervious/Impervious Analysis and Stormwater Utility Refinement, City of Delray Beach, FL

- Parcel impervious analysis and utility refinement for the City of Delray Beach which has a stormwater management program funded through a non-ad valorem (NAV) assessment of a stormwater utility fee.
- Both the fee and utility assessment structure were updated and refined to better meet the level of service desired by its citizens.
- The project provided a review and refinement of the current stormwater ordinance and rate and revenue analyses for different assessment options.
- Approximately 40,000 parcels of mixed types were evaluated for impervious area using GIS techniques from tax roll data obtained from the property appraiser. The project included stake holder workshops and the creation of the final TRIM and NAV files for the assessment.

Project Manager, Development and Implementation of the Stormwater Utility, City of Plantation, FL

- Phased creation and implementation of the stormwater utility, the first phase studied the development of a comprehensive stormwater management program for the City and associated funding mechanisms to support the program.
- Assessed the existing stormwater program, defined a potential future program, developed options for funding of the existing and future programs, and hosted facilitated stakeholder workshops to focus groups on stormwater management and the City council.

Project Manager/Engineer-of-Record, Stormwater Master Plan and Stormwater Consulting, MDAD, Miami-Dade County, FL

- Development and execution of several stormwater-related projects for the Miami International Airport, and the Miami Executive (Tamiami) and Miami Opa-Locka Executive General Aviation airports including the creation of GIS-based stormwater utility atlases for each site, manatee barrier analysis and design, wetlands assessments, electronic stormwater design standards manuals for bus by developers at the sites, technical reviews of proposed project conceptual and final design plans and reports for adherence with the adapted stormwater master plans and permits.
- Stormwater master plan updates for the airports which included Xp-SWMM modeling for regulatory design storms to FAA requirements, water quality treatment calculations, conceptual environmental resource permitting, and a phased capital improvements plan for the future airport land uses to meet FAA criteria for length, depth and duration of ponding on the airside, and to meet permitted runoff water quality and peak volumes at the outfalls.

Project Manager, Victoria Park Stormwater Plan and Neighborhood Improvement Project, City of Fort Lauderdale, FL

- Stormwater management investigations and analyses of the study area to identify potential solutions to mitigate flooding and provided the City with alternative solutions, corresponding cost and schedule estimates for each solution and assisted in the selection of the most appropriate and permissible solution to meet the City's needs and budget.
- Responsible for the schedule, quality, and budget of the project, managed CDM Smith staff for data collection, modeling, and alternatives analyses, developed the CIP, and presented the results to the City.

Project Manager, Stormwater Master Plan (SWMP), City of North Miami, FL

- Updated master plan supported the City to comply with City and Department of Environmental Resources Management (DERM) Level of Service (LOS) standards, National Pollutant Discharge Elimination System (NPDES) municipal separate storm sewer system (MS4) permit requirements, and Federal Emergency Management Agency (FEMA) requirements and audits.
- Provided the City with a defined and defensible document to support long-term stormwater management capital improvements and equitable development/redevelopment standards for the City.



Martin Lewis, PE, PMP, BCEE

Construction Manager

Roles and Responsibilities. Martin was a Florida-certified General Contractor prior to his engineering career, and he will be involved early in the planning and design phases of the project through project construction completion. His experience will assist us in identifying opportunities for construction efficiencies as the design progresses.

Experience Highlights

- Construction management and oversight of more than 120 projects, including 14+ miles of pipeline up to 79-in-diameter
- Provide constructability reviews for plans and specs throughout design
- Managing and directing CDM Smith team field activities throughout construction

EDUCATION:
ME, BS – Environmental Engineering

LICENSING/REGISTRATION:
PE: FL; PMP; BCEE

PERCENTAGE OF TIME ASSIGNED FULL TIME TO THIS PROJECT:
40%

TOTAL YEARS EXPERIENCE:
28

YEARS WITH CDM SMITH:
28

YEARS WITH OTHER FIRMS:
0

Resident Construction Engineer, South Florida Water Management District, Okeechobee, FL

- Pump station had three high flow stormwater pumps with a combined flow of 420 cubic meters per minute.
- Included pump station structure, SCADA system, and improvement of 150 meters of stormwater canals.
- Managed the construction contract administration, daily reports, shop drawings, requests for information, pay application reviews, and monthly progress meetings.

Resident Construction Engineer, Seacoast Utility Authority, Palm Beach Gardens, FL

- Constructed a new nanofiltration and low pressure reverse osmosis water treatment plant capable of producing 30 million gallons per day (mgd) (113,500 cubic meters per day) of finish water.
- In charge of the construction contract management and was the certifying engineer upon completion of the project.
- This project was performed in parallel with a raw water booster pump station project that modifies three raw water pump stations with additional high service pumps and SCADA system to supply water for the water plant.
- The combined value of the two construction contracts exceeds \$65M, Marting managed all aspects of contract administration (document management, meetings, progress payments, schedules, change management) technical issues (interface with the design team for submittals and requests for information) and quality management (testing, inspection, and documentation).

Construction Manager, Mullins RO production Wells 5 & 6 Construction, City of Melbourne, FL

- Construction manager for drilling two upper floridan aquifer water production wells, the \$1.7M job was completed on time and \$67,000 under budget.

Project Manager, Osprey Biological Nutrient Removal WWTP, City of Titusville, FL

- \$10M Osprey Biological Nutrient Removal WWTP plant upgrade adds biological nutrient removal capacity in an effort to prevent nutrients from entering the Indian River Lagoon. The project is on schedule and on budget.

Project Manager, Salalah Emergency Marine Outfall, Salalah, Oman

- \$35M construction for a 4.8 km of 1.2m diameter pipeline into the Arabian Sea as an emergency outfall for the Master Pump Station.
- Master pump station provided all new pumps, new surge vessels, new generators, and new variable frequency drives and a new SCADA system.
- Responsible for compliance with program objective and liaison to the program manager and client.
- Instrumental in analyzing construction claims by the contractor.

Deputy Project Manager, National Water Company, Jeddah, Saudi Arabia

- Construction contract administration for \$197M largest water storage facility in world.
- Documentation, meetings, payments, change management, review, tech/material submittals, construction method reviews, commissioning, and testing.
- 11 circular concrete reservoirs with an aggregate capacity of over 2 million cubic meters (528Mgal) of water storage.

Project Manager, Phase II Expansion North County Water Treatment Plant, Indian River County, FL

- Phase II expansion added three new nanofiltration skids to the two existing skids, the project was modified at the request of the client to go to full build-out in this expansion, adding six new NF skids, increasing the plant's permeate capacity to 12 mgd.
- Expansion to the operation's building, process bay, electrical room, new high service pumps, two new generators and a new 3 million gallon ground storage tank.
- Managed all engineering services during the 18 month construction period.

Construction Manager, Indian River County Solid Waste Disposal District, Vero Beach, FL

- \$16M project constructed a new 10 acre landfill cell and closed approximately 20 acres of landfill.
- Roadway and utility improvements and a new force main and water main were installed.
- Responsible for processing pay applications, conducting monthly progress meetings, and managing construction claims and change orders.

Project Technical Leader, US-192 Scalehouse Design, Brevard County Solid Waste, FL

- Design a new scalehouse to weigh incoming waste to the facility new \$5M greenfield solid waste facility.

Project Manager, Water Main Extension Project, St. Lucie County Utilities, FL

- \$2.5M water main extension construction project was for general services during construction with general oversight and inspection services.
- Reviewed all applications for payments, permit certifications and contractor claims.

Project Technical Leader, Hallandale Lift Station No. 5 Replacement, City of Hallandale Utilities, FL

- \$2.8M upgrade and complete replacement of an existing lift station that was aging and could not efficiently serve the growing service area.

Project Manager, Indian River County Solid Waste Disposal District, Vero Beach, FL

- \$1.1M construction project added horizontal landfill gas collectors which enhanced landfill gas capture, upgraded the landfill collection system with additional leachate control and pumping out of the landfill gas wells.

South Hutchison Island Wastewater Collection and Reuse Water Distribution System, St. Lucie County, FL

- Northern expansion of the South Hutchison Island's wastewater collection and reuse water distribution system in St. Lucie County.
 - Performed the hydraulic modeling for the reuse water distribution system and sized the distribution and collection pipes.
 - Permitting of the pipeline extension and the design of the wastewater re-pump station.
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KEY PERSONNEL

Experience Highlights

- Responsible for hydraulic modeling of Hollywood's system using dynamic SWMM modeling, cost benefit analysis using FEMA HAZUS methodology for the Comprehensive Stormwater Master Plan
- System-wide stormwater hydraulic modeling experience
- Developed FEMA's Dynamic Floodway Utility (DFU), a tool used to perform floodway analysis for FEMA Flood Insurance Studies using SWMM

EDUCATION:

PhD – Applied Marine Physics;
BS – Civil Engineering;
BS – Geology

LICENSING/REGISTRATION:

PE (FL)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO
THIS PROJECT:

60%

TOTAL YEARS EXPERIENCE:

33

YEARS WITH CDM SMITH:

26

YEARS WITH OTHER FIRMS:

7

Thomas Nye, PhD, PE

Modeling and SWMM Analysis

Roles and Responsibilities. Tom's extensive professional experience includes leading and advising on the development of stormwater master plans, hydrologic and hydraulic modeling, and floodway analysis. He has worked with various versions of the US Environmental Protection Agency's Stormwater Management Model (SWMM), the US Army Corps of Engineers' Hydrologic Modeling System (HEC-HMS), and the US Geological Survey's MODFLOW. Tom will be responsible for updating and calibrating the model throughout the program.

Lead Stormwater Modeler, Comprehensive Stormwater and Coastal Resilience Master Plan, City of Hollywood, FL

- Multi-year, \$2.8M effort which includes the creation of an interactive stormwater geographic information system (GIS), comprehensive survey of topography, LiDAR, stormwater feature verification of location, elevation, and connectivity, development of basin boundaries, seawall heights, finished-floor elevations of critical infrastructure, and channel cross sections, and hydraulic modeling of the system using dynamic SWMM modeling.
- Cost benefit analysis using FEMA HAZUS methodology, a phased capital improvements program which considers sea-level rise and storm surge resiliency for two alternate levels of service across four major watersheds, water quality treatment for the Broward County receiving waterways, and a king tide emergency management standard operating procedure for low lying coastal areas.

Modeling Task Leader/Lead Modeler, Stormwater Master Plan Update, City of Miami, FL

- Model the City to a resolution of approximately 10 acres which includes 2,500 subbasins in eight separate watersheds.
- Hydrologic and hydraulic models that will map the primary stormwater management system down to a level of 24-inch diameter pipe and greater, as well as canals, ditches, pumps, weirs, and other stormwater structures.
- Models will be calibrated to historical storms and run multiple South Florida Water Management District (SFWMD) design storms to determine existing levels of service (LOS).
- Determine the LOS of the existing seawalls and how high they would need to be to protect the City and provide alternative corrective measures will also be analyzed to improve LOS.

Lead Modeler, Stormwater Modeling, City of New Orleans, LA

- Conducted SWMM stormwater modeling for the City of New Orleans Drainage Improvement Plan, including model setup, calibration, and alternative evaluations.
- Directed a team of seven modelers in the development of 15 neighborhood-scale models of up to 3000 nodes each that encompass the entire city.

Project Technical Leader, South Cypress Creek Master Plan, City of Memphis, TN

- Development of a stormwater master plan for South Cypress Creek watershed.
- Use of InfoSWMM to evaluate necessary infrastructure improvements to resolve roadway and structural flooding complaints.
- Development of a stormwater infrastructure inventory in a GIS environment.



KEY PERSONNEL

Experience Highlights

- Guided and developed programs for more than 225 clients on more than 520 projects across 35 US states and nine countries on six continents
- Directed design and operations innovations that have saved over \$385M on more than \$1.6B of retrofit projects through design and construction innovation and operational synergies

EDUCATION:
BS – Environmental Engineering

LICENSING/REGISTRATION:
PE (FL); Board-Certified Environmental Engineer (BCEE); Board Certified Water Resource Engineer (BC.WRE)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO THIS PROJECT:
40%

TOTAL YEARS EXPERIENCE:
41

YEARS WITH CDM SMITH:
39

YEARS WITH OTHER FIRMS:
2

Michael Schmidt, PE, BCEE, BC.WRE

General Program Management – Task Leader

Roles and Responsibilities. Mike brings experience in sustainable and resilient stormwater, civil works, flood control, green infrastructure, coastal, water supply, ecosystem restoration, water resource, watershed master planning, modeling, permitting, operations, asset and data management, implementation, training, public information, and funding. He has peer reviewed, applied, and/or directed stormwater, flood control, green infrastructure, ecosystem restoration, minimum flow and levels, water quality, integrated surface and ground water, water resource, and decision support and operations model applications.

Lead Engineer, Comprehensive Stormwater and Coastal Resilience Master Plan, City of Hollywood, FL

- Responsible for technical direction and review for the stormwater management and coastal resilience program for Hollywood to plan, model, and evaluate various existing and future climate conditions for sea level rise, tidal surge, and extreme rainfall.
- Levels of service (LOS) for flood control, water quality treatment, and aquifer recharge within brackish and committed groundwater constraints were defined to develop alternative mitigative measure evaluations for swales, exfiltration systems recharge wells, park renovations, backflow prevention, seawalls, and pump stations for the City with coordination of multiple entities including FDOT for A1A and I-95, Central Broward Water Control District (CBWCD), South Broward Drainage District (SBDD), Broward County, Dania Beach, and Hallandale.
- The plan includes multi-benefit resilient and adaptable green and grey stormwater and coastal components, benefit-cost analysis using FEMA HAZUS for a 50-year planning horizon with conditions for future adaptation of resilient features.

Lead Engineer, Comprehensive Stormwater and Coastal Resilience Master Plan, City of Miami, FL

- Technical direction and review for the stormwater management and coastal resilience program to plan, model, and evaluate various existing and future climate conditions for sea level rise, tidal surge, and extreme rainfall.
- LOS for flood control, water quality treatment for Biscayne Bay, and aquifer recharge were defined to develop alternative mitigative measure evaluations, which included multi-benefit resilient and adaptable green and grey stormwater and coastal components, benefit-cost analysis using FEMA HAZUS for a 50-year planning horizon with conditions for resilient features through year 2100.

Technical Director, Stormwater Master Plans (SWMPs) Implementation and Updates, Miami-Dade Aviation Department (MDAD) , FL

- Overseeing the planning, permitting, and implementation of Stormwater Pollution Prevention Plans (SWMPs), design standards, USEPA NPDES and state environmental and surface water permitting, SWPPPs, and capital improvement programs (CIPs) for the redevelopment of Miami International Airport (MIA), Kendall-Tamiami Executive Airport (TMB), and Opa-Locka Executive (OPF) airports.
- Developed a BMP treatment train approach to retrofit stormwater treatment and attenuation, meeting passenger and aircraft safety goals while satisfying NPDES Industrial Stormwater Permit, SFWMD Environmental Resource Permit (ERP), and Total Maximum Daily Load (TMDL) requirements.
- BMP treatment train prevented the airport from constructing an industrial stormwater treatment plant, saving nearly \$50M.
- Development of airport-wide Stormwater Design Standards and Construction and Operations SWPPPs for the three airports.
- Modification and redevelopment of more than \$179M in stormwater infrastructure for runways, taxiways, terminals, fuel farms, and access roadways at MIA.



KEY PERSONNEL

Experience Highlights

- 32 years in the design/implementation of GIS, asset management (AM) programs, and technology solutions
- 100+ municipalities, utilities, and other agencies with implemented geospatial solutions and AM programs

EDUCATION:
BA – Geography

LICENSING/REGISTRATION:
GIS Certified Professional (GISP)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO THIS PROJECT:
50%

TOTAL YEARS EXPERIENCE:
32

YEARS WITH CDM SMITH:
32

YEARS WITH OTHER FIRMS:
0

Jayson Brennen, GISP

Asset Management and GIS/IM – Task Leader

Roles and Responsibilities. As one of CDM Smith's most senior GIS program managers, Jayson has been part of CDM Smith's Information Management group since 1993. Jayson brings Hollywood extensive expertise developing and implementing enterprise GIS solutions that leverage innovative business intelligence and tools, such as ArcGIS Enterprise (ArcGIS Server and ArcSDE), ArcGIS online, portal for ArcGIS, computerized maintenance management system (CMMS) and document management solutions, and innovative web, mobile, and dashboard applications to support utility management. Jayson will be responsible for setting up and maintaining this program's data management systems.

GIS Technical Advisor, Citywide Stormwater Program, City of Knoxville, TN

- This program involves mapping the City's stormwater infrastructure, developing Esri-based GIS databases, completing a condition assessment, and implementing a citywide GIS program.
- To support this effort, a series of web, mobile, and dashboard solutions have been implemented to perform the rapid and accurate collection of data.
- Information collected as part of this program will feed the City's GIS database and support more effective stormwater management, capital planning, and MS4 compliance.

GIS Technical Advisor, Stormwater Master Plan, City of Miami, FL

- Development of a GIS of the City's primary stormwater system, creation of a stormwater model, and development of a long-range stormwater master plan that will address a changing climate and fiscal and operational challenges.
- Completed a LiDAR survey of the City's seawall system to obtain accurate mapping to support modeling of tidal surges and impacts to the system.

GIS Innovation, Stormwater Master Plan, City of Virginia Beach, VA

- Implementation of several GIS-based technologies that support program components, including mobile tools to support real-time GIS data collection, data development methods to enable more efficient data update, and the conceptualization of a WebGIS environment that allows City staff to visualize, analyze, and query the results of the master plan through an innovative GIS-based environment.
- WebGIS environment was very well received by the City as it provides them with an interactive stormwater master plan that supports more effective stormwater management.
- Conceptualized the implementation of a "Stormwater Compliance Dashboard", which will be designed to track progress against compliance measures and support reporting.

Project Manager, City-Wide Wastewater and Stormwater GIS and Utility Asset Management, City of Providence, RI

- Stormwater and sewer GIS development and asset inventory, included extensive plan research, GPS data collection, invert survey, GIS data development, and applications programming.
- Hundreds of miles of utilities were migrated to an Esri-based GIS environment; cloud GIS tools enabled the client to access the data as it is being developed, and iPad and web applications are being implemented to support enhanced system operations and asset management.



KEY PERSONNEL

Experience Highlights

- Experienced in programs with up to 10,000 individual task/activities and up to \$750M in individual value
- Three large programs utilizing e-Builder® and Primavera Unifier®

EDUCATION:

BS – Recreation Industry Management

LICENSING/REGISTRATION:

Planning and Scheduling Professional Certification (PSP)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO

THIS PROJECT:

70%

TOTAL YEARS EXPERIENCE:

24

YEARS WITH CDM SMITH:

16

YEARS WITH OTHER FIRMS:

8

Andreas Martinese, PSP

Program Controls – Task Leader

Roles and Responsibilities. Experience in the project controls and project management field. He has expertise in the analytical and technical areas using multiple software programs including P6 Primavera Enterprise, P3 Primavera Planning and Scheduling, P3 Primavera Resource and Cost Analysis, and earned value system.

Scheduler, Clean Water 2020, City of Columbia Water & Sewer Department, SC

- Updates dozens of project schedules on this 10-year, \$750M Clean Water 2020 program designed to meet the requirements of the Federal CD that Columbia has entered into with the US EPA.
- The information management system includes the integration of new data review and management applications with the City's existing Esri enterprise GIS, Cityworks work order management software, and financial and capital projects tracking.

Scheduler, Clean Water Nashville, Metro Water Services Department, TN

- \$1.5B CD program, review and provides comments for cost loaded project schedules part of the master program schedule that integrates Corrective Action Plan/Engineering Report (separate sewer system) projects with the LTCP (combined sewer system) projects into a single program plan.
- Implementation and administration of the PMIS is keeping this program on track.
- Program has included 80+ Projects (5.5k lateral connections renewed; 2.7K manholes rehabbed; and more than 100 miles of repaired and replaced sewer pipe).

Scheduler, Comprehensive Stormwater Master Plan, City of Miami, FL

- Multi-year, \$5.3M effort which includes the creation of an interactive stormwater GIS from several decades of mixed media records and as-builts, comprehensive survey of topography, LiDAR, stormwater feature verification of location, elevation, and connectivity, development of basin boundaries, seawall heights, finished-floor elevations of critical infrastructure, and channel cross sections, and hydraulic modeling of the system using dynamic SWMM modeling.
- Cost benefit analysis using FEMA HAZUS methodology, a phased 10- and 20-year capital improvements program which considers sea-level rise and storm surge resiliency for multiple levels of service across seven major watersheds, water quality treatment for the protection of Biscayne Bay, an electronic stormwater design standards manual, a public awareness campaign and stakeholder workshops, funding options, and grant assistance.

Scheduler, Davidson Branch PS Upgrades, Metro Water Services Department, TN

- Completion of a \$30M pump station and equalization facility upgrade project to reduce sanitary sewer overflows near the site.
- Design and construction of a new duty pump station, a wet weather pump station, 6 mgd of equalization, and associated piping in and around the site.
- Provided review and comments for the cost-loaded schedule.

Scheduler, Lead Free DC, District of Columbia Water and Sewer Authority, Washington DC

- \$1.8B program, provides schedule reviews, updates, analysis, accounting, budgeting, and forecasting for multiple projects within program.

Scheduler, Combined Sewer Overflow Facilities for Gowanus Canal, New York City Environmental Protection, Brooklyn, NY

- \$320M 4-year project, provides schedule reviews, analysis, what-if scenarios for cost-loaded schedule, hosting monthly team schedule progress meetings.



KEY PERSONNEL

Experience Highlights

- Technical water resources specialist for the firm, daughter of the late County Commissioner Anne Kolb (namesake for Hollywood's coastal mangrove wetland nature center), continues to bring her master planning and environmental engineering experience with strategic technical reviews, sustainability perspective, and a deep-rooted concern for the environmental resiliency of her home town

EDUCATION:

SM - Engineering (Environmental Systems); BE - Environmental and Water Resources Engineering

LICENSING/REGISTRATION:

PE (ME)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO THIS PROJECT:
40%

TOTAL YEARS EXPERIENCE:

44

YEARS WITH CDM SMITH:

44

YEARS WITH OTHER FIRMS:

0

Bernadette Kolb, PE

Program Advisor and Quality Review (Master Plan Strategist)

Roles and Responsibilities. Bernadette is technical water resources specialist for the firm, specializing in stormwater management and water quality. She will continue to bring her master planning and environmental engineering experience with strategic technical reviews, sustainability perspective. She has directed numerous projects related to Clean Water Act (CWA) NPDES permitting for stormwater quality, including developing and reviewing permit applications, preparing expert technical comments on draft permits, and leading meetings with regulatory agencies.

Technical Director, Sassaquin Pond Phase 1 Water Quality Improvements, New Bedford, MA

- Directed Phase 1 of this project to define short- and long-term projects to improve the water quality of Sassaquin Pond, which has been degraded by development in its watershed and rerouting of stormwater to the pond. Issues have manifested as trash, phragmites infestation, poor water quality, increased sedimentation, and cyanobacteria blooms.
- Recommendations include improved stormwater system maintenance, floatables control, an alum treatment, diverting stormwater from the pond, public education, a long-term monitoring program, phragmites removal, and possible dredging to restore a spring.

Technical Advisor, NPDES Compliance Strategy Study, Marion, MA

- Provided guidance on compliance strategies for Marion MA to meet its new stringent draft NPDES permit.
- The feasibility of an ocean outfall is a promising option, and the work includes assessment of alignments, pipe material selection, hydraulics, and an initial permitting evaluation.

Technical Advisor, WET Testing Review and Toxicity Reduction Evaluation, Brunswick County, NC

- The Northwest water treatment plant has an existing NPDES discharge to a low flow stream that periodically fails its WET test. The use of chlorine dioxide in the treatment process was a suspected toxicant.

Technical Director, Water Quality Sampling and NPDES Permitting Support, Township of Parsippany-Troy Hills, NJ

- Reviewed the NPDES discharge permit for the Township of Parsippany-Troy Hills, NJ and oversaw the development of a regulatory-driven monitoring program for the Township to perform a reasonable potential analysis (RPA) for nitrate and copper.
- Directed development of a NJDEP-approved field sampling plan and Quality Assurance Project Plan (QAPP).
- Reviewed the data collected from the field programs and the RPA resulting from the field work and advised on strategy for negotiating with regulators to seek changes to the NPDES permit for nitrate and copper permit limits.

Project Manager, MWRA Water System Studies, Greater Boston, MA

- Analyzed three problems about potential toxic effects from chlorine: (1) whether there would be toxic effects to aquatic life in two distribution system reservoirs from initiation of chloramination upstream of these reservoirs (including whether a NPDES permit was needed – it was not), (2) assessment of which receiving waters in metro Boston could receive blowoff discharges from regular maintenance activities without dechlorination of the discharge, and (3) the need to dechlorinate system water if it was used to make up for water losses in standby distribution reservoirs.
- For one reservoir whose level floated with system pressure, thermistor arrays were installed to understand the mixing due to daily fill and draw at the reservoir's bottom.



KEY PERSONNEL

Experience Highlights

- \$7B in CIPs overseen/managed
- 100+ pipeline projects
- 8 large water/wastewater programs

EDUCATION:

MBA – Finance; MS – Civil and Environmental Engineering;
BS – Civil Engineering

LICENSING/REGISTRATION:

PE (DC, NJ, MA); Certified Construction Manager (CCM);
Certified Project Management Professional (PMP)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO
THIS PROJECT:
30%

TOTAL YEARS EXPERIENCE:
40

YEARS WITH CDM SMITH:
17

YEARS WITH OTHER FIRMS:
23

Brian McCarthy, PE, PMP, CCM

Program Advisor and Quality Review (Program Specialist)

Roles and Responsibilities. Brian is a proven manager of complex, multi-discipline programs, having managed/supported \$7B in CIPs that involve hundreds of projects and involvement of many subconsultants. He will be responsible for high-level programmatic oversight of schedule and budget and facilitating resourcing and delivery of services. Brian's experience includes the \$3.2B Clean Water Program in Hartford, CT is particularly notable, having overseen 100+ projects spanning 217+ miles of pipeline R&R over 20+ years.

Program Advisor, Clean Water 2020 Program, City of Columbia, SC

- Eleven-year, award-winning \$750M CIP and Consent Decree program, regularly collaborating with the Program Manager on the direction and prioritization of the Program.
- The City has established a goal to become a 'Smart Water' utility by significantly improving their approach to O&M and management practices.
- Works closely with our program team to monitor and evaluate progress toward achieving program goals, assure that quality procedures are adopted and executed, and that CDM Smith provides the right resources to meet the program's evolving needs.

Risk Manager, Lead Free DC Program, DC Water, Washington DC

- \$1.5B Lead Service Line Replacement (LSLR) Program program began with the goal of replacing 28,000 lead service lines (LSLs) by 2030.
- Following a robust inventory review and update, the program increased in scope to 42,000 LSLs.
- Risk Manager during the early stages of this Program, responsible for developing overall program and project-level risk management procedures for individual water main assessment/replacement projects.

Program Control Consultant, Capital Improvement Program, Clean Water Project, The Metropolitan District Commission (MDC), Hartford, CT

- \$3.2-billion wet weather CIP known as the Clean Water Project.
- 100+ projects spanning 20+ years, and involving regulatory oversight from the State of Connecticut and the US EPA.
- District must coordinate and collaborate with these agencies, the eight member towns within its jurisdiction, flood commissions, the US Army Corps of Engineers, the public who are directly impacted by project activities and its ratepayers.
- Held a central role in integrating the program's management activities to align strategy and execution for 15 years.

Program Advisor, Program Services, Lee County Utilities, FL

- \$80M of design and construction projects for repair and replacement of water mains, pump stations, and treatment plant components.
- Led development and delivery of project status tracking tool for the client, based in Microsoft Access, the tool demonstrates a "right-sized" approach to information management and status tracking and replaced a bulky and inefficient spreadsheet-based set of tools.
- Assignment included client interviews and requirements analysis, developing and deploying a beta version of the database, user training, and deployment of a final version of the tool; the tool includes tracking and reporting on project cost, schedule milestones, contracts, stakeholders, and permits.



KEY PERSONNEL

Experience Highlights

- National expert with experience that includes 30+ Pipeline, 25+ Trenchless, and 25+ Pump Station Projects
- Published and presented more than 100 papers at ASCE, AWWA, WEF, NASTT, and other professional organizations publications and conferences

EDUCATION:

PhD – Geotechnical Engineering;
MPhil – Geotechnical Engineering;
MS – Civil Engineering; BS – Civil Engineering

LICENSING/REGISTRATION:

PE (MD, VA, DC)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO

THIS PROJECT:

40%

TOTAL YEARS EXPERIENCE:

45

YEARS WITH CDM SMITH:

10

YEARS WITH OTHER FIRMS:

31

Ahmad Habibian, PhD, PE

Program Advisor and Quality Review (Utilities Infrastructure)

Roles and Responsibilities. Ahmad specializes in infrastructure management, pipeline assessment and rehabilitation, and trenchless technology. His experience covers planning, design, construction, evaluation, and rehabilitation of water and sewer systems. He is the recipient of the ASCE Stephen D. Bechtel Pipeline Engineering Award, CDM Smith Best Paper Award, AWWA DPOD Peak Performance Award, and ASCE Pipeline Division Award of Excellence.

Technical Specialist, Water Supply Agreement Metering Guidance Project, USACE Institute for Water Resources, CA

- Provided technical direction for the development of a metering guidance manual to assist the USACE to evaluate the applicability and appropriateness of various metering and data collection technologies.
- A data transmission example was also provided to support future pilot programs.

Technical Specialist, Hydraulic Capacity Analysis of Deep Tunnel Interceptor, City of Reading, PA

- Performed a hydraulic analysis of flow monitoring results to project the required carrying capacity of a new deep tunnel which would allow the decommissioning of a major pumping station.
- The study included the analysis of existing flow monitoring data, population projection, and pipe capacity determination.

Technical Advisor, Business Case Evaluation for 72-inch PCCP Transmission Main and Main Zone Pump Station Redundancy, WSSC, MD

- Provided technical direction for evaluation of various alternatives for WSSC's Potomac Water Treatment Plant Main Zone Pump Station and a 72-inch PCCP Transmission Main.
- Alternatives considered included modifications of the Pump Station, leveraging the existing open bays in the High Zone Pump Station, various open cut and tunnel option alignments for the 72-inch PCCP, and modifications to system valving and interconnections.
- The short-listed alternatives were further evaluated using a Life Cycle Analysis Tool, and a Risk Reduction Tool; both tools utilize a TBL approach and incorporate financial, environmental, and societal costs.

Technical Reviewer, Clean Water 2020 Program, City of Columbia, SC

- Eleven-year, award-winning \$750M CIP and Consent Decree program, regularly collaborating with the Program Manager on the direction and prioritization of the Program.
- The City has established a goal to become a 'Smart Water' utility by significantly improving their approach to O&M and management practices.
- Works closely with our program team to monitor and evaluate progress toward achieving program goals, assure that quality procedures are adopted and executed, and that CDM Smith provides the right resources to meet the program's evolving needs.



KEY PERSONNEL

Experience Highlights

- Management of large capital improvement programs up to \$2.7B in single value
- Involved in the implementation of 10 program management information systems (PMIS) utilizing, among others, the e-Builder® and Primavera Unifier® platforms

EDUCATION:

MS – Project Management;
BS – Civil Engineering

LICENSING/REGISTRATION:

PE (OH); Program Management
Professional (PgMP)

PERCENTAGE OF TIME ASSIGNED FULL TIME TO

THIS PROJECT:

50%

TOTAL YEARS EXPERIENCE:

30

YEARS WITH CDM SMITH:

21

YEARS WITH OTHER FIRMS:

9

Michael Krabacher, PE, PgMP

Program Advisor and Quality Review (Project Controls)

Roles and Responsibilities. Michael has significant experience in project/program controls, design management, construction management, procurement, process improvement, and risk management. He leads a multi-disciplined team of CDM Smith staff in the implementation of controls and systems for program management, construction management, construction engineering and inspection, and disaster management projects within the US and internationally.

Program Controls & Deputy Program Manager, Program Management Services, Metro Water Services Department, TN

- PMIS developed and implemented, and currently managed, it has captured more than 220,000 documents, 6,500 construction submittals, 2,500 requests for information and documented approximately \$950M in expenditures on program projects.
- Led the planning and implementation of updates to the PMIS necessary to support oversight of the \$200M Central WWTP upgrade projects delivered using CMAR delivery.
- Changes to the PMIS included updates to the Submittals, RFI, Request for Change and Daily Report business processes as required by the CMAR contract, client feedback, and needs of the Owners Representative Team.

Program Controls Manager, Program Director Services, Allegheny County Sanitary Authority (ALCOSAN), PA

- Comprehensive, \$2B long-term program will reduce the volume of CSOs by 7 billion gallons per year Michael was responsible for evaluating, recommending, and leading implementation of a new ALCOSAN PMIS built on the e-Builder platform, performing reviews of system performance, advising the ALCOSAN e-Builder administrators, and coordinating user training for ALCOSAN staff, designers, and contractors.
- System utilizes the Cost, Document, Process, Forms, and Reports modules, has unlimited licensed users, 20+ processes and approximately seventy-five active Clean Water and other capital improvement projects.

Clean Water Project and Capital Improvement Program, Metropolitan District Commission (MDC), Hartford, CT

- Led the development of the construction section of MDC's Project Management Manual, the manual contains standard processes and procedures which all MDC staff follows in order to verify the consistency, quality, and timeliness of all actions taken by personnel toward implementing the program.
- The Project Management Manual is a three-part set of documents that describe the processes, activities, and procedures necessary to efficiently execute MDC's capital projects (i.e. Clean Water Project and Capital Improvement Program).

Program Controls Specialist, PMIS Software Assessment, Stormwater Quantity & Quality (MSQ2) Program, Memphis, TN

- Assessment of a software options for a PMIS for the management of the delivery (planning, design, bidding, construction and closeout) of the City of Memphis Stormwater Quantity & Quality (MSQ2) Program.
- Performed a review of existing documentation, City software systems and Program team requirements which resulted in a list of key challenges and needs.
- Developed a focused set of test scenario and conducted system demonstrations for multiple software platforms including Trimble e-Builder Enterprise, Kahua, and Microsoft SharePoint, the resulting software assessment report compared each option against the stated requirements and included recommendations, conceptual cost estimates, and implementation plan.

ENGINEERING AND TECHNICAL SERVICES

Our team includes a deep bench of local and national experts to leverage as needed. A benefit of working with a local full-service engineering firm means the City has access to CDM Smith's additional expertise in our nearby Boca Raton office. But we also tap into our national experts as needed.



JESSICA WATTS, PE, CFM, D.WRE, ENV SP | Project Planning Design and Implementation *(Neighborhood Improvements)*

- 20 years of experience in planning, modeling, and design of stormwater management, green infrastructure, and civil/site development
- Experience encompasses a wide range of other civil and water resources projects including roadway design, federal design including, USACE, Navy, and FEMA Hazard Mitigation Grant Program (HMGP), shoreline stabilization, and resiliency projects



VIRGINIA ROACH, PE, PMP, BCEE | Project Planning Design and Implementation *(Green Infrastructure)*

- 40 years of years of experience specializing in developing stormwater management strategies and resolving combined sewer overflow (CSO)
- Technical Advisor and Reviewer for the Strathern Park, Fernangeles Recreation Center and David M. Gonzales Stormwater Projects, to alleviate local flooding, increase water supplies through stormwater capture, improve water quality, and provide recreational, social, and economic benefits, particularly within historically disadvantaged communities

ANA VALENCA DEMELO, PE, PMP, DWRE | Project Planning Design and Implementation *(Green Infrastructure/Exfiltration)*

- 29 years of experience including municipal infrastructure, stormwater management, site development, hydrologic and hydraulic modeling, environmental resource permitting, feasibility studies, and construction management
- Project manager for SFWMD STA 1W Expansion 2 for construction management for a 2,100 acres stormwater treatment area, approximately 15 miles of earthen embankments and levees, 11 remotely operated hydraulic control structures, extensive seepage management systems, access road, and approximately 6 miles of concrete lined canal

BEAU WOOD, PE | Project Planning Design and Implementation *(Pipe and Culvert Improvements)*

- 16 years of specializing in drainage design for roadway projects and design roadway conveyance and retention/ detention ponds for FDOT projects and reviewing roadway drainage design to verify the design meets FDOT design criteria
- Experience in reviewing both design and construction submittals for compliance with client design standards, construction specifications, and local and state requirements

STEWART MAGENHEIMER, PG, PMP | Project Planning Design and Implementation *(Recharge/Drainage Wells)*

- 45 years of experience focused on well design, hydrogeologic evaluations, and water resources planning including managed the design and implementation of programs involving geophysical surveying, mapping, deep injection and production well drilling and rehabilitation, hydraulic sampling and testing, and alternative water supply investigations
- 32 Surficial Aquifer System wells designed and installed in South Florida and 33 Floridan aquifer wells in Collier County

JASON MCCLAIR, PE, CFM, LEED AP | Interim Project Design

- 29 years of experience in utility infrastructure design, regulatory permitting, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems
- Reviewed the Hollywood's 2004 master plan, updated the existing stormwater model using new LIDAR data, revised hydrologic parameters, and accounted for recent drainage projects and developed budget-level cost estimates to support future infrastructure investments

LAUREN MILLER, CC-P | Sustainability/Resiliency

- 20 years of experience specializing in vulnerability assessments, climate resilience, and adaptation plans
- Leads the firm's climate resilience team and strategic initiatives and works to institutionalize climate resilience as a matter of practice

GENERAL PROGRAM MANAGEMENT

As one of the world's top program management firms, we provide innovative and creative solutions tailored to our clients' specific needs to help them achieve successful outcomes on their most important programs.



JENNIFER HARRISON, PE, PMP, CCM | Program Resource Allocation

- 18 years of experience managing the planning, design, and construction of municipal infrastructure projects
- Led the development of the Construction Management Innovation Strategy (CMIS) and the Enterprise Program Management Plan (EPgMP), which established the future vision, objectives, and goals to modernize and foster a culture of innovation within USACE for the or the Construction Management Innovation Program



STACY BARNA | Funding/Grants/Appropriations

- 30 years of experience overseeing financial assistance programs and 19 years of experience at state funding agencies
- More than \$1B in funding secured and managed, she will manage the full suite of federal and state funding support, from determining the best loan or grant programs available, to managing the funding and corresponding requirements to program completion



ERICA ECHEVERRI | Public Information Officer (PIO)

- 10 years of experience specializing in creating comprehensive communication strategies, managing public workshops, and developing content for print, social media, and digital platforms
- Led community workshops and assisted in creating materials that translated complex technical information into accessible community-focused language for the City of Hollywood Stormwater Master Plan

JOAN FERNANDEZ, PE | Permitting

- 19 years of experience including permitting and development of Capital Improvement Projects (CIP) for various local clients including the City of Delray Beach, City of Sunrise, City of Boynton Beach, City of Hollywood, and Miami-Dade Sewer and Water Department

MICHAEL MITCHELL, PE | Risk Management; Alternative Delivery/Procurement Assistance

- 36 years of experience managing projects from the conception through implementation while monitoring budgets and addressing critical path items to maintain schedules for design-build and engineering, procurement, and construction project delivery types
- Proven ability to identify, assess, and mitigate risks in complex projects overseeing the daily operations and maintenance of infrastructure systems, managing the logistics of large-scale projects, and ensuring compliance with safety and regulatory standards

ALEC BOGDANOFF, PHD | Public Communication

- 15 years of unparalleled insight into the world of resilient infrastructure and a passion for making a tangible difference
- Designed a strategic communications plan with print and digital materials to simplify complex technical data for residents for the City of Hollywood Stormwater Master Plan

YANICE MERCADO, PE, PMP | Public Communication; Project Manager Support

- 24 years of experience with 20 years on similar infrastructure improvement projects with a focus on public outreach including PRASA, West Palm Beach, and the City of New Orleans
- Proven track record in managing complex stormwater project including infrastructure improvements, Including West Palm Beach's Washington Road Utility and Stormwater Outfall Improvements project, which involved significant drainage infrastructure enhancements

ASSET MANAGEMENT CONSULTING

CDM Smith has planned, developed, and implemented asset management programs across the country for utilities of all sizes, from small communities to some of the largest utilities in the world with a customer base ranging from 10,000 to over 5 million. The hallmark of our approach is to tailor a program that addresses the unique business and operating requirements of each client.



DAVID MASON, PE, PMP, D.WRE | Financial Aspects/Feasibility Studies

- 25 years of experience in stormwater regulatory permitting, watershed management, stormwater master planning, stormwater infrastructure design, GIS analysis, and stormwater utility development with 330+ water resources projects
- Task leader for cost of service analysis, developed a 20-year spending plan, and a rate model to support the funding need for the City of Hollywood for the \$900M in long-range capital projects



TRAVIS WAGNER | Digital Engineering

- 22 years of experience in digital strategy and transformation, data collection, integration, management, advanced analytics, and software
- Has helped utility leaders successfully navigate the complex landscape of asset integrity and management, operations, planning, data science, software/solutions development, hardware/technology expertise, and design



JAMES CAROLAN | System Architecture, Predictive Risk Model

- 31 years of experience using GIS technology to create complex data development and quality control procedures for use in building large-scale, municipal information systems
- Has implementing and integrating GIS data and software with a wide range of other software packages, including work order management systems, capital planning software and databases

ZACH MCCAFFREY | Data Analytics and Dashboard

- 7 years of GIS experience in ArcDesktop, ArcGIS Pro, ArcGIS Online, and Quick Terrain Modeler

MEREDITH MCELMURRY | Asset Management Specialist

- 27 years of extensive experience in asset management, business process re-engineering, and strategic development, including conducting asset maturity assessments, developing strategic asset management plans, and evaluating capital planning and prioritization processes

BRENDAN SUSINO | GIS System Mapping

- 10 years of GIS experience including spatial data analysis, geostatistical data analysis, 3D data analysis, model builder tool development, database management, and database design
- Developed the Stormwater Network geodatabase design and updated the primary stormwater management system (PSMS) to be used for SWMM model development for the City of Hollywood Stormwater Master Plan

ADAM SIMONSEN | Financial Aspects/ Feasibility Studies

- 25 years of experience solving challenges for water/wastewater utilities, and municipalities
- Has developed financial models, capital plans, and regulatory strategies for major acquisitions