

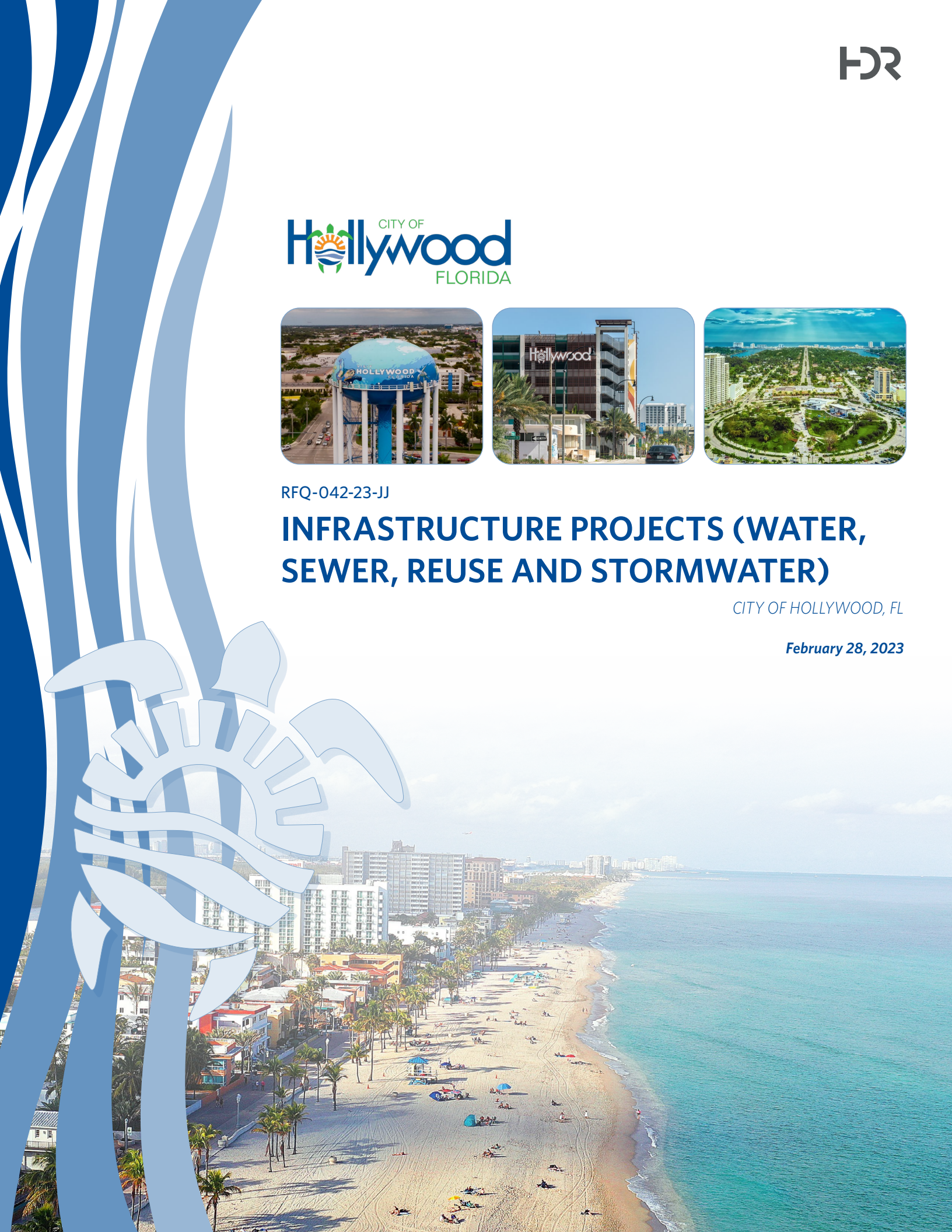


RFQ-042-23-JJ

INFRASTRUCTURE PROJECTS (WATER, SEWER, REUSE AND STORMWATER)

CITY OF HOLLYWOOD, FL

February 28, 2023





February 28, 2023

Jean Joinville
Senior Purchasing Agent
1621 N 14th Avenue,
Hollywood, FL 33020

RE: City of Hollywood RFQ-042-23-JJ Infrastructure Projects (Water, Sewer, Reuse and Stormwater)
General Engineering Contract

Dear Selection Committee Members,

The City of Hollywood (City) is an important part of the economic engine that drives the local community forward and is a prominent partner to Broward County. As the host city of Port Everglades, with beautiful beaches and some of the most impressive event spaces available such as the Diplomat Beach Resort, the City is truly a world-class destination. To host the residents and numerous visitors, the City must continue to provide critical water, sewer, reuse and stormwater services. The City faces the challenges of sunny-day flooding and modernizing aging water and sewer infrastructure, continuing to provide a high level of service to its customers, complying with increasing environmental regulations, and improving the resiliency of its facilities. HDR Engineering, Inc. (HDR) provides our clients with a fresh, holistic utility management approach to identify and implement forward-thinking, economical solutions to these challenges.

Why Select HDR?

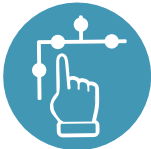
The HDR Team has been assembled to provide the City with the following key benefits:

The right expertise, locally.



We are a local team with expertise in water, wastewater, reuse, and stormwater management, who regularly collaborates on work orders for similar library contracts across Florida. **This team brings the experience necessary to deliver comprehensive solutions in partnership with the City.** We have committed the right resources and have a local, regional, and national network of professionals to utilize on projects as needed. HDR provides the full range of disciplines required for this contract, primarily staffed from our Florida offices. With more than 500 staff in Florida, and local offices in Fort Lauderdale and Doral, HDR will provide the City with timely service, and the HDR Team will provide responsive, seamless staffing for all assignments.

Practical and innovative perspectives, bringing optimized solutions.



As a leading consultant in the water and wastewater industry, HDR is practiced at addressing the challenges facing the City: maintaining aging infrastructure often inherited from developers, reducing infiltration and inflow (I/I), converting customers' septic to sewer, and protecting infrastructure from changing climate factors. **HDR can leverage this insight to save money in your Capital Improvement Plan by prioritizing, combining, or potentially eliminating projects for the best value.** Our Florida team provides an integrated approach to condition assessment, hydraulic modeling, master planning, rehabilitation/replacement design, and careful construction management for buried pipelines and treatment facilities while focusing on resiliency.

hdrinc.com

3250 West Commercial Blvd., Suite 100, Fort Lauderdale, FL 33309
T 954.535.1876 F 954.233.4953



Our focus on total life cycle costs and sustainability.

HDR's approach to planning and design focuses on working collaboratively with your administration, engineering, operations, and maintenance staff to **implement solutions that optimize your initial capital investment and consider your long-term operability and maintenance costs.** With most of our team located in Florida, we are skilled at addressing the unique combinations of climate, geology, and economics in coastal Florida communities.

HDR Contacts

We are eager to support the City as your Contract Manager and Project Principal for this contract. We have worked for utility clients across the state and, more importantly, in southeast Florida. We bring the right mix of local experience and a firm with deep expertise to partner with your staff. Having served the public as Utility Director in South Florida in both Palm Beach and Martin Counties, Mario understands how to oversee multiple concurrent work order assignments and manage a team as an extension of a client's staff.

Respectfully Submitted,

HDR Engineering, Inc.

Mario E. Loaiza, PE, F.ASCE
Water Business Group Manager/Contract Manager
Mario.Loaiza@hdrinc.com
(c) 561.319.4120

Katie E. Duty, PE
Vice President/Project Principal
Katie.Duty@hdrinc.com
(o) 813.282.2352 (c) 77.542.3692

Katie Duty, the signatory to this cover letter, is authorized to negotiate terms, render binding decisions, and commit HDR's resources to this project (See page 70). We are committed to perform the work in accordance with the terms of the enclosed response. Also, HDR will maintain in good standing all licenses, certifications, and permits required under federal, state, and local laws necessary to perform the services on this project.

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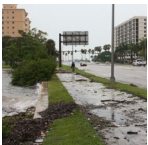
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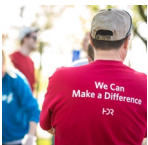
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Section was omitted by the City per Addendum #5



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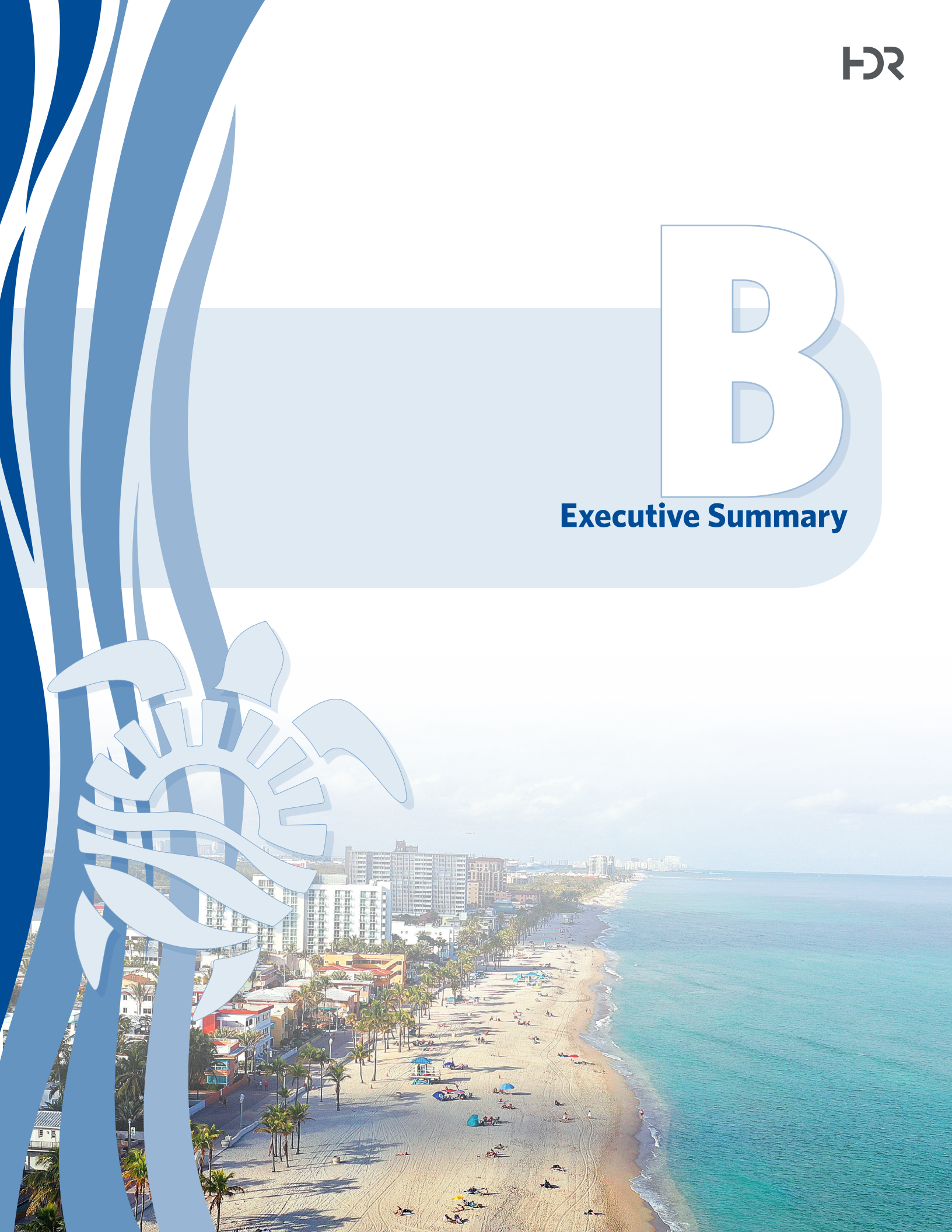


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Required Forms and Licenses.....62

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Executive Summary





EXECUTIVE SUMMARY

Key Elements of the Proposal

Per the cross-reference table below, HDR exceeds the requirements in the City's RFQ #042-23-JJ.

RFQ REQUIREMENT	HDR COMPLIANCE	SOQ PAGE
Firm Engineering License	State of Florida Board of Professional Engineers No. CA4213	62
Principal Offices Location	Fort Lauderdale (Broward County)	5, 6
Firm's No. of Years' Experience	HDR founded 1917; Fort Lauderdale office opened 1999	9
Experience with Local Governments in SE Florida	HDR's current clients include City of Fort Lauderdale, Broward County, Palm Beach County, Miami-Dade County, City of West Palm Beach, City of Miami and many others.	11
Experience with Similar Projects for Public Agencies	Minimum requirements exceeded	12-15
Contract Manager Comprehensive Summary	Mario Loaiza, PE is based in Ft. Lauderdale and has 25 years of experience managing and executing continuing services contracts for public agencies across South Florida.	17
Experience and Qualifications of Contract Managers	Minimum requirements exceeded	17, 19
Company Contact	Mario Loaiza, PE – Contract Manager Mario.Loaiza@hdrinc.com 3250 West Commercial Blvd., Suite 100, Fort Lauderdale, FL 33309 Phone 561.319.4120, Fax 954.233.4953	5
Relative Size of Firm	Over 11,000 employees in 215 offices internationally; 110 management, technical and support staff in 3 South Florida office.	5, 9
Registration with Florida Department of State, Division of Corporation	Document No. P06487	
Business Structure	Corporation	5
Firm Qualifications and Experience	Overall approach, similar project experience and project management	
Organizational Profile and Project Team Qualifications	Professional experience and qualifications of team members	16-32
Licenses	HDR and proposed qualifying agents have all required professional licenses.	62-63
Approach to Scope of Work	Understanding City's needs, goals and objectives, overview of proposed vision, ideas, and methodology, as it relates to meeting project budget and timeline for completion.	33-41
Past Performance - References	Three references provided from City of Fort Lauderdale, Miami-Dade Water and Sewer Department (MDWASD), and City of St. Petersburg. <i>(Submitted Online & Included on page)</i>	42-44
Value of Past Contract Awards by the City in the last 5-years	HDR does not have current contracts with the City of Hollywood, but we look forward to working with you.	6
Location of Respondent Office Managing Project	HDR project office location is 3250 West Commercial Blvd., Suite 100, Fort Lauderdale, FL 33309 and is located 16 miles from the City of Hollywood's City Hall.	6
Required Forms	<ul style="list-style-type: none"> • Vendor Questionnaire <i>(Submitted Online & Included on page)</i> • Vendor Reference Forms <i>(Submitted Online & Included on page)</i> • Statement of Qualification Certification • Sworn Statement Public Entity Crimes • W-9 	64-73

HDR provides a robust portfolio of similar contracts throughout Florida and nationwide.

For more than a century, HDR has partnered with clients to shape our communities. With more than 11,000 employees in more than 225 locations around the world— including Fort Lauderdale, Miami and West Palm Beach offices — HDR is well-positioned to deliver your On-Call projects.

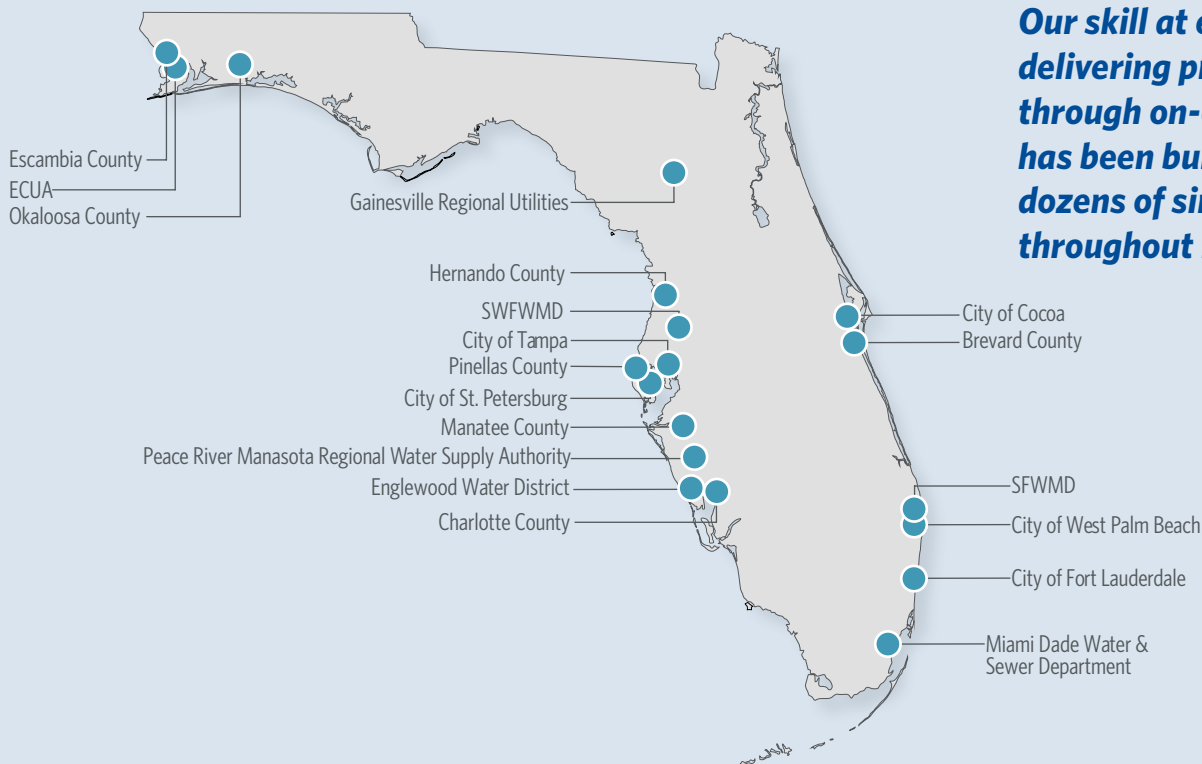
HDR COMPANY SNAPSHOT

Firm Name	HDR Engineering, Inc.
Headquarters	Omaha, Nebraska
Office to Perform Work	3250 West Commercial Blvd., Suite 100 Fort Lauderdale, FL 33309
Business Structure	Corporation
Point of Contact	Mario Loaiza, PE O: 954.233.4924 M: 561.319.4120 mario.loaiza@hdrinc.com

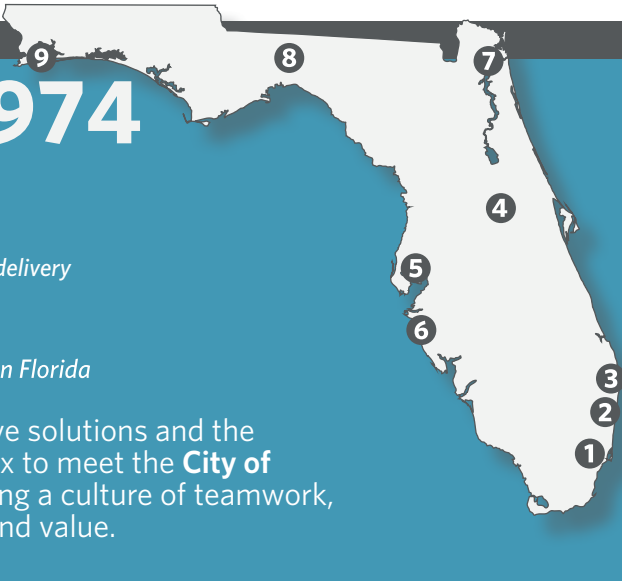
Experts in Delivering Multi-Disciplinary Projects

HDR has proven partnerships providing a full spectrum of planning, design, project management and construction administration for water, wastewater, reuse, stormwater, and environmental-related projects. Our team provides the City with experience, lessons learned from a variety of similar projects, and the ability to create innovative, cost-effective solutions to meet your goals and objectives. **We have helped our clients deliver billions of dollars of capital projects through on-call contracts similar to yours including, work for Miami-Dade Water and Sewer Department, City of St. Petersburg and City of Fort Lauderdale.**

HDR's Current On-Call Contracts



Our skill at efficiently delivering projects through on-call contracts has been built through dozens of similar contracts throughout Florida.



HDR Florida 1974
 Practice Opened In

9 Offices
 providing you with local expertise and delivery

500+
 Employee Owners in Florida

Our team offers creative solutions and the appropriate staffing mix to meet the **City of Hollywood's needs** using a culture of teamwork, collaboration, quality and value.

Local Presence

Our dynamic and integrated team lives here and works here. Over 95% of our proposed personnel on the organizational chart are based in Florida. We strive to add value to our local communities by solving tough challenges and inspiring positive change. **HDR maintains over 100 staff in our Doral, West Palm Beach and Fort Lauderdale offices**, with support from additional offices throughout Florida and the US. We emphasize communication and responsiveness on all of our projects and work in partnership with our clients to meet each community's needs.

Collaborating for Project Success

As reflected by our organizational chart, on [page 18](#), HDR provides the right mix of local staff resources coupled with world-class expertise to provide high-caliber, responsive service. Our professionals work together so that each project phase is successfully completed on time and cost-effectively.

Volume of Work

HDR does not have current contracts with the City of Hollywood. We look forward to working with you. We offer the full spectrum of engineering services needed to deliver your CIP projects. Consistently ranked among Engineering News-Record's Top 10 Design firms, we approach project work from an integrated perspective. Using natural and infrastructure components, we work smart to achieve your project's environmental, economic, and quality objectives. Our local experts are ready to partner with you to deliver practical, optimized solutions focusing on total life cycle costs and sustainability.



HDR's Ft. Lauderdale office is the home of our Contract Manager, Mario Loaliza, located about 16 miles from Hollywood's City Hall.

We're consistently ranked as an industry leader by ENR Top 500 Design Firms.
Here are our 2022 rankings:

#5
 Top 500 Design Firm

#5
 Top 20 in Water

#15
 Top 20 in Water Treatment

#5
 Top 50 in Water Supply

#7
 Top 25 in Sanitary & Storm Sewers

Our Team

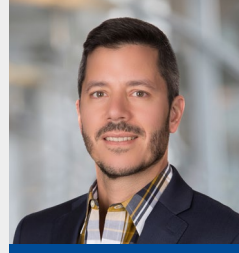
A team is only as strong as the people assigned to the work. We stand ready to hit the ground running with exceptional leadership, similar experience, innovative ideas, and valuable City knowledge through our subconsultants Louis Aurigemma, PE and Linda Warren, PE (Launch). We provide a full-service, committed team of professionals who recognize and understand the key priorities and offer a broad range of engineering and construction-related services necessary to achieve the City's goals. **We are 100% committed to delivering your projects on time and within budget.**



Mario Loaiza, PE
Contract Manager



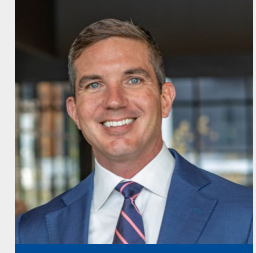
Katie Duty, PE
Project Principal



Jorge Camacho, PE
Task Project Manager



Dan Suarez, PE
Quality Assurance &
Stormwater Technical Lead



Chance Lauderdale, PhD, PE
Lead and Copper Rule
Technical Lead



Sharon Wright
Sustainability & Resilience
Technical Advisors/ QC



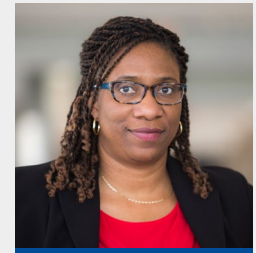
Marc Gambrell, PE
Funding | Grants
Technical Advisors/ QC



Heath Hardy, PE
Water & Wastewater Pipeline
Technical Lead



Justin Midget, PE
Collection Systems
Technical Lead



Samantha La Hee, PE
Pump Stations
Technical Lead



Ryan Messer, PE, ENV SP
Reuse/Asset Management
Technical Lead

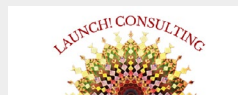


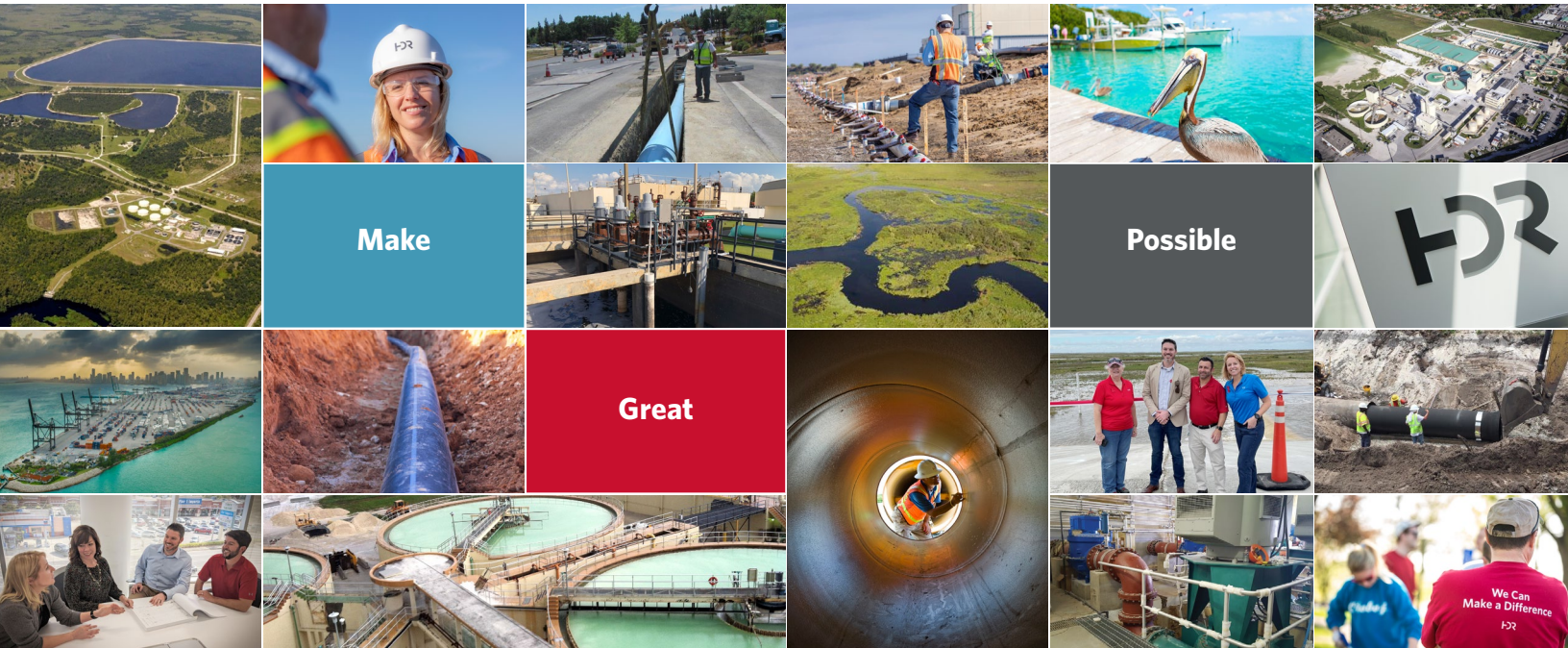
Louis Aurigemma, PE
Utility Management
Technical Advisors



Linda Warren, PE
Resilience Specialist
Launch! Consulting

Subconsultants





BUSINESS STRUCTURE

HDR Engineering, Inc. is a Nebraska Corporation founded in 1917 and licensed to do business in Florida. HDR employs more than 500 professionals throughout the state of Florida and has three local South Florida offices located in Fort Lauderdale, Miami, and West Palm Beach. As a multi-disciplinary firm, HDR has professional capabilities to provide complete socioeconomic, infrastructure, environmental, and community involvement services. HDR is an employee-owned company. No manager or employee owns more than 1% stock in the company.

Senior Vice President*

- Thomas A. Donnelly
- Stephen J. Ferrell
- Jennifer E. Hunt
- Chance V. Lauderdale
- Andre E. Lauzier
- Harold E. Lewis
- Kent L. McWaters
- Jay C. Nagle
- Will Suero
- Brenda Van Ravenswaay
- Larry D. Low

Vice President*

- Brian A. Blanchard
- Nelson E. Canjura
- Samuel D. Cobb
- Stephen W. Dortch
- Katie E. Duty
- Melanie E. Fowler
- John M. Hansen
- Lew R. Herrington
- Donald R. Holcomb
- John B. Hyre
- Carlos C. Lopez-Paniagua
- George W. McGregor
- Kristina M. Price

- Thomas A. Quinn
- Marlin A. Register II
- Mark G. Roberts
- Santanu Roy
- Steven J. Schnell
- Erki Suarez
- John E. Wimberly

Associate Vice President*

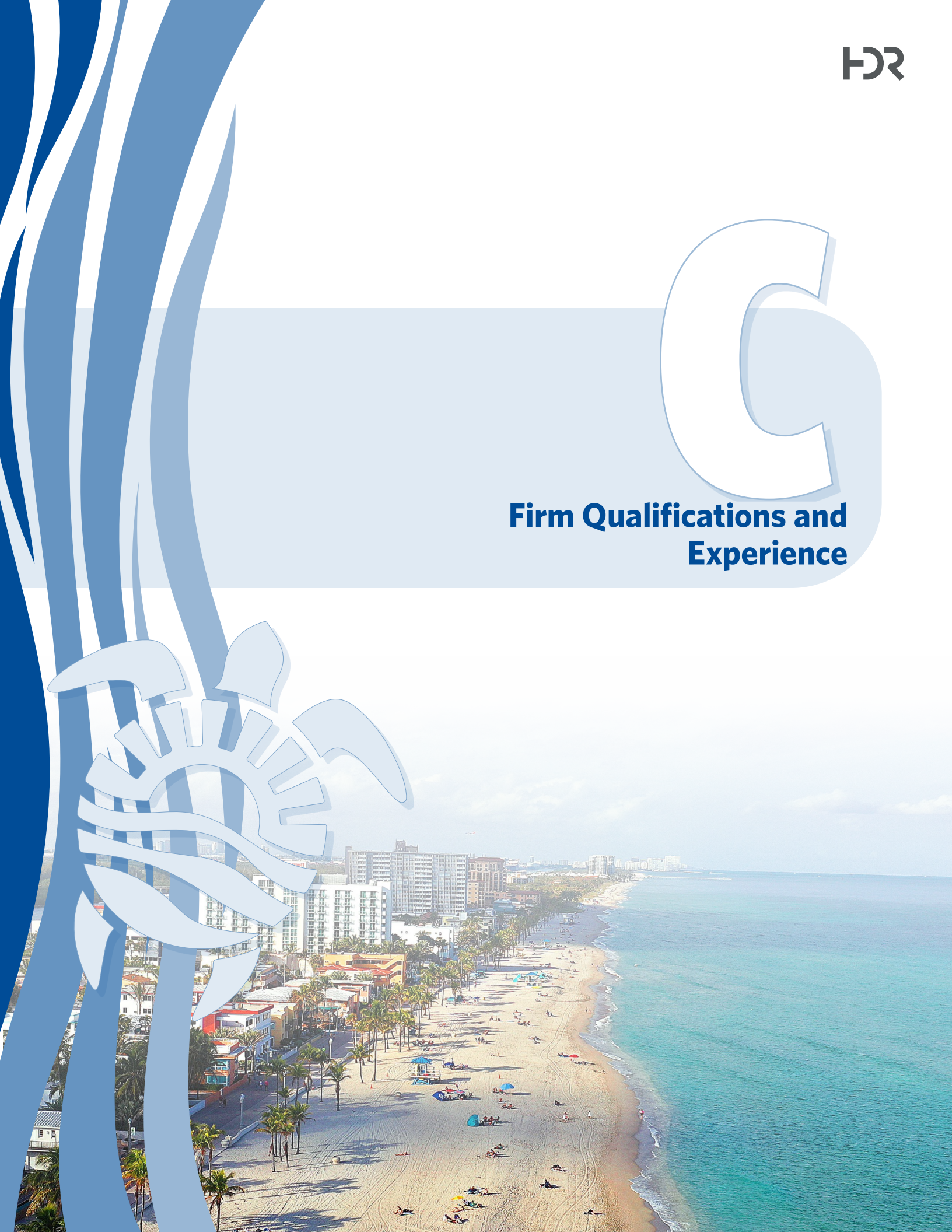
- Jeffrey B. Arms
- Lisa C. Bell
- Jonathon D. Burchfield
- Brad B. Collins
- Raphael C. Costa

- Ted E. Davidson
- Mark E. Hall
- Keith A. Howard
- Warren F. Jenik
- Javier Manso
- Daniel S. Suarez
- Leonel A. Zapata

***With over 700 officers companywide, we have limited the above list to those in Florida.**



**Firm Qualifications and
Experience**





FIRM QUALIFICATIONS AND EXPERIENCE

Firm Information

HDR has been partnering with clients to shape communities since 1917. We are a global, integrated, multidisciplinary firm specializing in a full range of program management, planning, architecture, engineering, construction, and financial services.

As a nationally acclaimed employee-owned firm, we believe in doing things right to make great things possible. This philosophy has enabled us to successfully deliver innovative and sound engineering solutions throughout Florida for over 50 years and in South Florida since 1999.

Consistently ranked among the nation's Top 10 Design firms by Engineering News-Record (ENR), our professionals combine the latest technical innovations with practical solutions.

HDR is skilled at executing tasks and projects under professional engineering continuing services contracts. Our experienced professionals tackle the most complex projects with innovative yet practical applications of technology to collect, treat, and renew water to meet the demands of today and tomorrow. We will partner with you to develop customized infrastructure management plans and assist in optimization to help you better manage assets, extend useful life, and lower operating costs.

We have strong working relationships with regulatory agencies, including FDOT District 4, SFWMD, FDEP, and the U.S. Army Corps of Engineers. We have also developed relationships with regional stakeholders, such as utility owners and municipalities.



Pictured above: The HDR Team on-site at the Troup Indiantown Water Control District Pump Station Project (part of our C-44 Reservoir and STA contract with SFWMD).

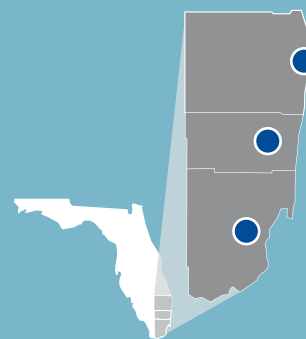
HDR AT A GLANCE

HDR is a corporation with more than

11,000+
EMPLOYEES
OWNERS



IN **215** LOCATIONS
AROUND THE



3 South Florida
OFFICES

110 South Florida Management,
Technical, & Support Staff



SINCE
Part of this community:
FORT LAUDERDALE **1999**

Management Approach

HDR recognizes the importance of customizing and implementing a strong approach led by project managers with relevant experience in the technical elements of the projects they manage. We have customized our team approach to meet the City’s needs and follow an established process with the City’s project managers, resulting in a strong sense of project ownership, allowing project managers to establish baselines and measurement procedures to minimize setbacks. In addition, HDR maintains an interactive online Project Management Office website to provide our project managers with access to HDR’s best practices, training, tools, and resources to effectively manage projects and improve delivery effectiveness, maximizing savings to our clients. HDR understands that the City’s staff may manage multiple projects simultaneously, so one of our main objectives is to facilitate the City’s management of individual work orders, while minimizing the requirements each work order may place on the City staff’s time.

As HDR’s Project/Contract Manager, Mario Loaiza will be your primary point of contact. He will provide continuity and oversight of all projects and work with the team to implement HDR’s project management, organization, communication, and quality assurance practices established for this contract. He will select the best-suited project manager on individual work orders based on technical expertise and availability to meet the City’s schedule and budget.

Mario will be supported by Katie Duty as the Project Principal for this contract. Katie will work with Mario to identify the right project staffing. As the Florida Water Business Group Manager, Mario will commit the staff assigned to the projects for timely and responsive delivery.

Jorge Camacho will support Mario as our Task Order Project Manager and manage specific project assignments to deliver high-quality deliverables in a timely and cost-effective manner. Jorge and Mario are supported by a team of resources with the

depth and skill sets that span the range of projects that may be needed for this contract. They will manage an integrated team of support service task leaders who are familiar with coordinating across technical boundaries. This approach allows our project teams to be sized appropriately for each work order.

HDR’s Management Approach

- 01 • ASSIGN A TASK LEADER**
 Assigning a Task Leader with experience relative to the project type.
- 02 • SELECTING THE RIGHT RESOURCES**
 Staffing the City projects with appropriate resources & technical skills
- 03 • SOLVE THE PROBLEM**
 Utilizing our knowledge & familiarity with latest technologies to solve problems
- 04 • ON TIME DELIVERABLES**
 Providing timely delivered services & resources
- 05 • SUBCONSULTANTS COORDINATION**
 Supervising subconsultant staff and overseeing their work & performance
- 06 • MANAGING TIMELINE & BUDGET**
 Actively managing project timelines, budget, deliverables
- 07 • QA/QC PROGRAM**
 Employing our QA/QC Program on all deliverables
- 08 • COMMUNICATION**
 Communicating regularly with the City project manager(s).

HDR will customize our procedures to manage internal tasks, maintain communication, and oversee quality deliverables within schedule and budget for each of the City’s project.



Pictured above: The HDR Team on-site at the Troup Indiantown Water Control District Pump Station Project (part of our C-44 Reservoir and STA contract with SFWMD).

HDR takes a proactive approach to the management of each of our project assignments through collaboration, communication, and a focus on quality.

Experience with Similar Contracts in Florida

As detailed below, we maintain over a dozen similar continuing services contracts with Florida clients, delivering many of the same services listed in your RFP. This experience and our depth of staff make us prompt and able to deliver multiple concurrent projects efficiently.

Water and Wastewater Services	WATER DISTRIBUTION	WASTEWATER COLLECTION	PUMPING FACILITIES	TREATMENT PLANT [WASTE WATER]	DESIGN WASTE WATER	OPERATIONS WASTE WATER	MAINTENANCE WASTE WATER	TREATMENT PLANT [WATER]	DESIGN WATER	OPERATIONS WATER	MAINTENANCE WATER	WELLFIELD	MODELING
City of West Palm Beach	■	■	■										
Palm Beach County		■				■	■						■
Miami-Dade Water and Sewer Department	■	■	■	■	■	■	■	■	■	■	■	■	■
South Florida Water Management District	■		■						■	■	■	■	■
Brevard County Utilities Service Department	■	■	■		■	■	■		■	■	■		
Gainesville Regional Utilities	■				■	■							
Southwest Florida Water Management District	■		■						■	■	■	■	■
City of St. Petersburg	■	■	■	■	■	■	■	■	■	■	■	■	■
Hernando County Utilities Department	■	■	■		■				■				
Manatee County	■	■	■		■				■				
Peace River Manasota Regional Water Supply Authority	■		■					■	■	■	■	■	■
Emerald Coast Utilities Authority	■	■	■	■	■	■	■	■	■	■	■	■	■
Stormwater Management and Environmental	STORMWATER AND DRAINAGE DESIGN	STORMWATER AND DRAINAGE MODELING	SOLID WASTE COLLECTION AND DISPOSAL	GROUNDWATER	WETLANDS	CONTAMINATION ASSESSMENT	CONTAMINATION MONITORING	CONTAMINATION REMEDIATION	MISCELLANEOUS SCIENCE AND BIOLOGICAL SERVICES	WATERWAY/MARINE INCLUDING DOCK AND PIER	COASTAL	OCEAN	
City of Fort Lauderdale	■	■		■									
Broward County	■					■				■	■	■	
City of West Palm Beach	■												
Miami-Dade County	■		■		■				■				
Monroe County	■										■	■	
Florida Department of Transportation	■	■			■	■			■		■		
Sarasota County	■	■	■		■				■	■			
South Florida Water Management District	■	■		■	■	■			■		■		
National Park Service	■	■			■				■				
Seminole County			■										
Lee County			■			■					■		
Orange County				■		■							
Peace River Manasota Regional Water Supply Authority				■	■								
National Oceanic and Atmospheric Administration (NOAA)					■				■		■		

Alexander Orr, Jr. Water Treatment Plant (AOWTP) Renewal & Replacement, Miami-Dade Water and Sewer Department (MDWASD), Miami, FL

AOWTP is the County's largest WTP. It has a permitted treatment capacity of 214.7 mgd. The plant treatment process consists of lime softening with recarbonation capabilities, rapid sand filtration, chlorination, ammonization, and fluoridation. AOWTP has an on-site lime kiln to recycle plant treatment residuals. HDR holds a multi-year contract to provide design and consulting R&R services for the facility. We have completed or are currently engaged in delivering numerous assignments.

Key Features

- Lime feed and regeneration improvements
- Coordinated water quality blending issues with other WTPs
- Preliminary design and engineering for water supply/treatment
- Contract documents (final design)
- Value engineering
- WTP process evaluation/optimization
- Operations review
- Pumping system evaluation
- Permitting
- Chemical feed systems and bulk chemical storage



Project Owner's Information

Project Owner: MDWASD
Point of Contact: Francisco Martinez - Assistant Director
Contact Telephone Number: 786-552-8786
Dates of Service: 2014 - Ongoing



Wastewater Collection & Transmission Systems Related to Consent Decree Projects, Miami-Dade Water and Sewer Department (MDWASD), Miami, FL

HDR led a team of 14 professional service companies in developing engineering and designs to address the majority of sewer collection and conveyance pipelines and pump stations identified in the MDWASD's Consent Decree. Sample tasks include 21 pump stations and over 37 conveyance pipeline replacements or rehabilitation.

Key Features

- Pipeline and pump station rehabilitation and capacity improvements
- Coordinated multiple work orders
- Preliminary design and engineering for sewer collection and conveyance, pipe networks, and pump stations
- Hydraulic modeling
- Mechanical, electrical, and I&C
- Final design documents
- Permitting
- Construction management services

Project Owner's Information

Project Owner: MDWASD
Point of Contact: Daniel Edwards - Program Director
Contact Telephone Number: 786.552.8354
Dates of Service: 2014 - 2018

Miscellaneous Professional Services for Potable Water, Wastewater, and Reclaimed Water Projects, City of St. Petersburg, St. Petersburg, FL

HDR has provided professional engineering services on a continuing basis for the City's potable water, wastewater, and reclaimed water projects funded by the City, Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), US Environmental Protection Agency (USEPA), and other agencies/funding sources.

Key Features

- Technical investigations, evaluations, and pilot studies
- System capacity, reliability, optimization, and performance evaluations
- Designs (conceptual and preliminary)
- Services during construction
- QA/QC management



Project Owner's Information

Project Owner: City of St. Petersburg
Point of Contact: Diana Smilova, PE
Contact Telephone Number: 727.893.4165
Dates of Service: 2016 - Ongoing

**Continuing Consultants Services,
 Brevard County Utility Services Department, Brevard County, FL**

Since 2012, HDR has provided continuing engineering services to the County for various utility infrastructure and treatment plant projects through our existing Continuing Consultants' Services contract. The work consists of engineering, permitting, bidding, and construction services.

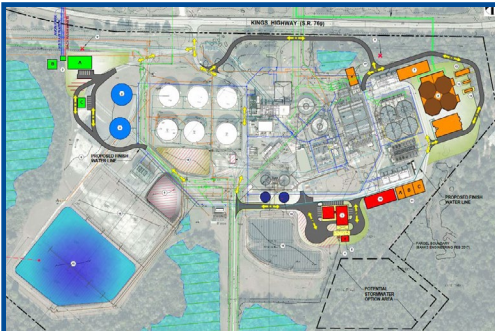
Key Features

- General engineering services contract
- Engineering, bidding, and construction services
- USACE, FDOT, and FDEP permitting
- Site assessment
- Recommendations of improvements
- Coordination of design improvements with the County
- Force main design
- Pump station condition assessment
- Compliance support
- Treatment plant condition assessment



Project Owner's Information

Project Owner: Brevard County Utility Services Department
Point of Contact: Don Kean
Contact Telephone Number: 321.633.2089
Dates of Service: 2012 - Ongoing



**General Engineering Services,
 Peace River Manasota Regional Water Supply Authority, Acadia, FL**

HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since 2005. Over 50 work orders have been authorized under this contract, including water supply planning, wellfield development investigations, treatment process troubleshooting, transmission system hydraulic modeling, geotechnical engineering for stabilization, and design services related to master planning and CIP development.

Key Features

- Hydraulic system network modeling
- Permitting
- Evaluated water supply alternatives
- Preliminary design and engineering for mechanical/electrical/I&C
- Operations, asset management, staff augmentation review, and planning
- Mapping and GIS services
- Condition assessment of water supply and treatment facilities

Project Owner's Information

Project Owner: Peace River Manasota Regional Water Supply Authority
Point of Contact: Mike Coates, PG
Contact Telephone Number: 941.316.1776
Dates of Service: 2005 - Ongoing

**Continuing Engineering Services for Water and Wastewater Projects,
 Emerald Coast Utilities Authority (ECUA), Pensacola, FL**

HDR has provided engineering services to ECUA since 2006. Projects have ranged from water transmission mains and gravity sewer projects to lift stations and water treatment facilities (WTFs). HDR has provided design and construction administration services throughout the lifecycle of multiple projects.

Key Features

- Preliminary design and engineering for water supply, treatment, and transmission; sewer collection pipe networks; and mechanical/electrical/I&C
- Contract document development (final design)
- Construction management services
- Bid assistance



Project Owner's Information

Project Owner: ECUA
Point of Contact: Keith Fell
Contact Telephone Number: 850.969.6653
Dates of Service: 2006 - Ongoing



Stormwater Master Plan, City of Fort Lauderdale, Fort Lauderdale, FL

HDR was selected, as a subconsultant, to provide professional services related to a continuing contract for stormwater master plan modeling and design implementation services. The City’s Stormwater Master Plan will address chronic flooding and other stormwater management issues, including long-term issues related to sea level rise. The City is composed of several individual watershed areas characterized by low-lying topography and intersected by numerous canals and rivers. This combination, including low-lying topography, limited available soil storage, aging and undersized stormwater infrastructure, high tidal surges, and seasonal high-intensity storm events, makes the City susceptible to severe flooding.

Project Owner’s Information

Project Owner: City of Fort Lauderdale
Point of Contact: Rares Petrica
Contact Telephone Number: 954.828.6720
Dates of Service: 2016 - Ongoing

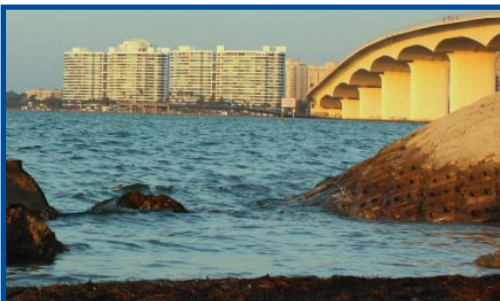
Infrastructure Vulnerability Analysis & Capital Plan, Monroe County, Monroe County, FL

This project analyzes the impacts of current and projected levels of Sea Level Rise (SLR) on County maintained roads and develops an implementation plan and timeline to adapt roads for SLR. The results will be used to determine new policy considerations and design criteria for acceptable service levels. HDR will evaluate future SLR, tidal waves, storm surge, and extreme weather analysis projections (2025, 2030, 2035, 2040, 2045, 2060, and 2100) to determine the vulnerability level of the roadway segments and prioritize the implementation of the adaptation improvements (i.e., raising the roadway, improving storm drain system, and green engineering).



Project Owner’s Information

Project Owner: Monroe County
Point of Contact: Rhonda Haag
Contact Telephone Number: 305.453.8774
Dates of Service: 2019 - Ongoing



Climate Change Vulnerability Assessment & Adaptation Plan, City of Sarasota, Sarasota, FL

HDR completed a comprehensive assessment of public infrastructure to identify system vulnerabilities to climate change. HDR developed an infrastructure database for public inventory assets, including transportation networks, stormwater management, water supply, wastewater systems, public lands, and critical buildings. Conducted a vulnerability assessment to determine “at-risk” infrastructure using scoring methodologies and climate modeling tools to understand how each of four climate variables - sea level rise; storm surge; extreme precipitation; extreme heat - might impact City infrastructure. Included workshops, public meetings, and presenting to Commission. Developed adaptation measures for the most vulnerable assets to help develop policy and secure funding to implement adaptation measures.

Project Owner’s Information

Project Owner: City of Sarasota
Point of Contact: Stevie Freeman-Montes
Contact Telephone Number: 941.365.2200, ext. 4202
Dates of Service: 2019 - Ongoing



Dorsey Riverbend and Progresso Neighborhood Stormwater Improvements, City of Fort Lauderdale, Fort Lauderdale, FL

HDR designed neighborhood stormwater improvements for the Dorsey-Riverbend and Progresso Village neighborhoods. Design elements included architectural, structural, electrical, mechanical, instrumentation, and controls (I&C). Surface improvements were made, such as grassed swales and other previous surfaces, as well as infrastructure improvements, which included upsizing existing drainage infrastructure and incorporating new infrastructure, such as drainage pipes, exfiltration trenches, water quality structures, and pump stations. Stormwater pump stations were proposed in both the Dorsey-Riverbend and Progresso Village neighborhoods to alleviate flooding issues in upstream areas, which are caused by capacity and conveyance constraints within the existing drainage system. HDR provided data collection, final design, and permitting assistance.

Project Owner's Information

Project Owner: City of Fort Lauderdale
Point of Contact: Rares Petrica
Contact Telephone Number: 954.828.6720
Dates of Service: 2016 - Ongoing

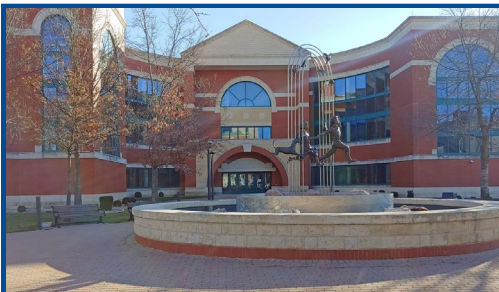
Lead and Copper Rule Revision Assistance, City of St. Petersburg, St. Petersburg, FL

HDR is assisting the City with a full range of services related to the Lead and Copper Rule Revision (LCRR). Services includes a chartering workshop, gap analysis, public outreach, and an initial phase of LSL inventory. The LSL inventory development is an important, time sensitive, first step needed to achieve LCRR compliance. Once established, the LSL inventory informs LCRR compliance monitoring plans/sampling locations, areas for public/customer notification, and potential LSL replacement plans. The initial phase focuses on the collection and evaluation of the existing data and institutional knowledge related to LSLs in the system. The framework for a GIS-based inventory is established and includes available data on service line cohorts within the system. In addition, protocols for future staff/contractor field investigations will be developed.



Project Owner's Information

Project Owner: City of St. Petersburg
Point of Contact: Need Info
Contact Telephone Number: Need Info
Dates of Service: 2022 - Ongoing



Asset Management, Planning & Modeling, Johnson County Wastewater (JCW), Johnson County, KS

JCW is a regional service provider for more than 400,000 customers in 16 municipalities in the Kansas City metro area. JCW's system included 7 wastewater treatment facilities (WWTFs), 31 pump stations, and a collection system containing more than 2,250 miles of pipe. JCW has to consider expansion, aging infrastructure, maintenance, renewal, and knowledge transfer, but also the execution of WWTF capital projects and wet weather capacity enhancement initiatives. These programs result in more than \$2B in upcoming investment needs that require an effective prioritization process that balances water quality, customer service, and program execution with regulatory and ratepayer expectations. For the past 7 years, HDR has supported JCW in developing the long-term programmatic strategies to address these needs and the CIP prioritization tools needed to plan for these improvements. and imagery were obtained by SJWD and loaded into Esri's Image server.

Project Owner's Information

Project Owner: Johnson County Wastewater
Point of Contact: Aaron Witt
Contact Telephone Number: 913.715.8546
Dates of Service: 2013 - Ongoing

A large, white, stylized letter 'D' with a light blue shadow, positioned on the right side of the page. The background of the page is a photograph of a beach and city skyline, with a large blue graphic element on the left side.

**Organizational Profile and
Project Team Qualifications**



ORGANIZATIONAL PROFILE AND PROJECT TEAM QUALIFICATIONS

HDR offers the City of Hollywood a full-service team to handle the wide range of project types anticipated with this contract. Our team includes experts in water distribution systems; collection systems; pump stations; stormwater; lead and copper rule; reuse; hydraulic system network modeling; Geographic Information System (GIS); instrumentation and controls (I&C); Supervisory Control and Data Acquisition (SCADA); and hydrogeology. HDR is supported by subconsultants: Chen Moore and Associates for trenchless utility design, HP Consultants for geotechnical, Stoner Surveyors for survey and subsurface utility engineering, Smith Engineering Consultants for electrical, Louis Aurigemma for Utility Management, and Launch! Consulting for resilience specialist.

Our Contract Manager, Mario Loaiza, has managed general engineering/engineer of record continuing contracts for public utilities, municipalities, water management districts, and federal agencies across Florida and is skilled at guiding a team to deliver multiple work orders and serve as an extension of staff. As HDR's Florida Water Business Group Manager, Mario has the authority and internal network to assign the right technical and managerial resources to the City to deliver high-quality, efficient capital improvement projects.

HDR's Technical Leads, Jorge Camacho, Samantha La Hée, Ryan Messer, Dan Suarez, Heath Hardy, and Chance Lauderdale, bring significant experience leading diverse technical teams, drawing on the right expertise so that successful projects and value are delivered to the City. Technical Leads will be selected and assigned based on the project type to bring leadership based on the most relevant experience. They will be responsible for the day-to-day performance of the project(s) they manage and will work collaboratively with Mario to provide consistency across all HDR projects for the City.

HDR's Project Principal, Katie Duty, will work with Mario and the Technical Leaders to provide the appropriate staffing resources to meet City's expectations for technical innovation and project efficiency.

HDR's proven leadership team has what it takes to deliver projects associated with this contract on time and within budget. Quality work is of utmost importance to us.



KATIE DUTY, PE, ENV SP
Project Principal



MARIO LOAIZA, PE, F.ASCE
Contract Manager



JORGE CAMACHO, PE
Task Project Manager

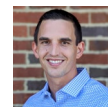
TECHNICAL LEADS



DAN SUAREZ, PE
Stormwater



CHANCE LAUDERDALE, PhD, PE
Lead and Copper Rule



HEATH HARDY, PE
Water & Wastewater Pipeline



JUSTIN MIDGET, PE
Collection System



SAMANTHA LA HÉE, PE
Pump Stations



RYAN MESSER, PE, ENV SP
Reuse/Asset Management

The HDR Team's full organization chart is shown on Page 24.

Contract Manager Summary

Mario Loaiza has 25 years of experience in both the public and private sectors. **He is known for “big picture” leadership, along with his organizational and communication skills, to deliver successful projects.** As Contract Manager, Mario will be your main point of contact and drive the team’s performance. He is a senior engineer and project manager with a broad-based background in water, wastewater, and water resources infrastructure. His strengths include team leadership, project management, and quality control. Mario has led large and small teams for design and evaluation projects related to planning and infrastructure design for municipal, state, and federal clients. Mario’s diverse background working in both the public and private sector has afforded him the opportunity to learn the importance and impacts of anticipating challenges to projects. Whether the challenges are related to supply chain issues and procurement, sea-level rise impacts on water supply and stormwater management, or labor and permitting issues, Mario is able to add insight and value to any project.

Below we highlighted projects Mario was directly involved with and served in a leading engineering role.

“Serving the public as a Utility Director in Palm Beach and Martin Counties has been one of my proudest achievements in the engineering profession. Understanding water and wastewater challenges and solutions from the owner’s perspective has proven invaluable to me, and I lead teams for HDR in providing those solutions to clients.”

Mario Loaiza, PE, F.ASCE

PROJECT/DESCRIPTION



Asset Management Continuing Services, City of Fort Lauderdale, FL

As Project Principal, Mario managed the City-wide Asset Management program, ensuring it was delivered on time and within budget. From project visioning, site visits, and schema development to integration, Mario managed the team to ensure successful delivery. The city had a challenging schedule and limited budget, and the team was able to deliver within those limitations. Specifically, at the George T. Lohmeyer Regional Wastewater Treatment Plant, Mario led a team that was able to build an AM database from scratch and then integrate the data into its CityWorks system. Operations were never interrupted, and WWTP staff were not impacted during the project.



Utility Director, South Martin Regional Utility, Hobe Sound, FL

Director for 32-person Utility staff. Actively managed two Water Treatment Plant facilities (reverse osmosis and nanofiltration – 8.145 MGD combined) and a Wastewater Treatment Plant (contact stabilization – 1.44 MGD), capital planning, resource management and overseeing all aspects of utility business managing all five (5) divisions of SMRU. Program Manager for the entire system, including 17 raw water wells, a finished water distribution system serving a diverse and seasonal customer base, a sewer collection system, 110 lift stations and a reclaimed water system. Planned, designed, coordinated, and managed water and wastewater utility projects and capital improvement projects. SMRU is charged with providing a concierge level of service to Jupiter Island and Hobe Sound.



Assistant Executive Director, Riviera Beach Utility District, Riviera Beach, FL

Assistant Executive Director for 54-person Utility District staff. Responsible for managing personnel, all technical plan reviews, construction inspection, and program management of all water and sewer projects within the Utility District limits. Assisted in the preparation of capital improvement plan and budget and reported to the Executive Director of Utilities. Engineering Manager for 14.5MGD WTP, 27 deep raw water wells and pipe system, 65-mile finished water distribution system serving a 40,000-person customer base, 4 - 1M Gallon re-pump stations, 75-mile sewer collection system, and 52 lift stations. Plan, design, coordinate and manage water and wastewater utility projects and capital improvement projects.



East Central Regional Water Reclamation Facility (ECR), West Palm Beach, FL

Former Chair of the ECR Board and voting Board Member of ECR from 2009 to 2013. Duties included approval of the 20-year Capital Improvement Plan, serving on the selection committee for \$100M Biosolids improvement project, and approving proposed work items and budgets. As Chair, responsibilities included negotiating a contract with the Solid Waste Authority to join pelletizer operation at a reduced cost, serving on the hiring board for the Executive Director, and leading board meetings and actions.







Team Organization

HDR has developed a team of professionals with the right experience for this project, including sub-consultants we've worked with in the past. The organization chart below shows the leadership team, technical advisors, and project planning and delivery teams. More than 90% of our proposed staff are located in Florida. **Mario Loaiza, Contract Manager**, will be responsible for all aspects of the day-to-day execution of projects under this contract, including schedule, project coordination, and quality control. **Katie Duty, Project Principal**, will provide management oversight of the overall project team and serve as an additional point of contact for the City. She will also work with Mario to oversee that proper resources are available and assigned to the project effort. Mario and Katie are supported by a strongly qualified group of engineers and professionals who will deliver the technical work products. The combined areas of expertise in the project team were selected to be most responsive to the City's needs.









LEADERSHIP TEAM

 KATIE DUTY, PE, ENV SP Project Principal	 MARIO LOAIZA, PE, F.ASCE Contract Manager	 JORGE CAMACHO, PE, ENV SP Task Project Manager	 DAN SUAREZ, PE Quality Assurance
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TECHNICAL ADVISORS / QUALITY CONTROL

-  **WILL SUERO, PE**
Senior Technical Advisor
-  **BRENDA VAN RAVENSWAAY, PE**
Wastewater Treatment /Reuse
-  **DAVID O'CONNOR, PE**
Pipelines/Pump Stations
- PATRICK BLANDFORD, PE* (NC, SC)**
Stormwater
-  **SHARON WRIGHT**
Sustainability & Resilience
-  **MARC GAMBRILL, PE**
Funding | Grants
-  **LOUIS AURIGEMMA, PE**
Utility Management

TECHNICAL LEADS

- | | | |
|---|---|---|
|  DAN SUAREZ, PE
Stormwater |  CHANCE LAUDERDALE, PhD, PE
Lead and Copper Rule |  HEATH HARDY, PE
Water & Wastewater Pipeline |
|  JUSTIN MIDGET, PE
Collection System |  SAMANTHA LA HÉE, PE
Pump Stations |  RYAN MESSER, PE, ENV SP
Reuse |

DESIGN SUPPORT

- | | | | |
|---|---|--|---|
|  Alex Miller, PE, ENV SP
Hydrologic & Hydraulic Modeling | Susan Donnally, PE* (MD, DC, VA, DE, MI)
Condition Assessment |  Barry Lenz
Environmental | Mike McMahon
Hydro-Meteorologist |
|  Guillermo Rivera, EI
Permitting |  Emilio Corrales, PE
Civil/Roads/MOT |  Colleen Howard, PE
Construction Management |  Javier Manso, PE
FDOT Coordination |
|  Jeff Thorpe
CADD/GIS |  Bruce Bradley, PE
Structural |  Maurene Balmaseda
Strategic Communication |  Samantha Black, PhD, PE
Water Treatment |
| Alex Palmatier
Asset Management | Pete Bredehoeft, CEP
Cost Estimates |  Kevin Might, RLA
Landscape Architecture |  Kurt Wendt, PE
I&C |

SUBCONSULTANTS



Survey/SUE

HP Consultants Inc.

Geotechnical



Electrical



Trenchless Utility Design

Louis C. Aurigemma, PE

Utility Management



Resilience Specialist



Mario LOAIZA, PE, F.ASCE

CONTRACT MANAGER

Mario is a senior Civil Engineer and the leader of HDR's Southeast Water Business Group. He has over 25 years of experience in both the public and private sectors leading large teams, directing capital improvement projects, overseeing the development of engineering master plans, land development design, engineering design and operations of water and wastewater treatment facilities. With a demonstrated history of strong management and communication skills, as well as the ability to analyze and apply raw data in relation to engineering, Mario has successfully led teams, both large and small, to success.



WEST PALM BEACH, FL

EXPERIENCE

Industry: 25
HDR: < 1 year

EDUCATION

BS, Civil Engineering, University of Alabama, 1997

REGISTRATIONS

Professional Engineer:
FL No. 59396

FEMA NIMS Certified

RELEVANT EXPERIENCE

Asset Management Continuing Services, City of Fort Lauderdale, Fort Lauderdale, FL Principal in Charge. Mario managed client satisfaction and ensured that this City-wide Asset Management program was delivered on time and on budget. From project visioning, to delivery, Mario was available to the client and addressed challenges as they emerged. He coordinated communication with staff and managed resources to address any gaps, leading the teams to a successful project conclusion.

Landfill Site Rehabilitation Completion Report, Boynton Beach, FL Engineer of Record. Mario served as Engineer-of-record to certify the completion of the site rehabilitation for the city-owned landfill. This effort helped finalize legal action between the State and the City and allowed the permit for the landfill to be closed. Efforts included water modeling and well field protection compliance.

Regional Climate Action Plan (RCAP) 3.0- Southeast Florida Regional Climate Change Compact, Southeast, FL
Mario was a contributing author for the water chapter of the RCAP 3.0 Planning Guide. The RCAP is the Compact's guiding tool for coordinated climate action in Southeast Florida to build climate change resilience. The RCAP provides recommendation and guidelines for implementation. RCAP 3.0 is the 2022 update and reflects lessons learned and actions taken in the first ten years of the program.

Town Of Jupiter Island /South Martin Regional Utility, HobeSound/Jupiter Island, FL Utility Director. Mario served as Director of the 32-person utility staff of the town of Jupiter Island, FL. During this time, he actively managed two Water Treatment Plant facilities, a Wastewater Treatment Plant, executed capital planning, managed resources and oversaw all aspects of the utility business for the five divisions of the South Martin Regional Utility. He was Program Manager for the entire system including 17 raw water wells, finished water distribution system, sewer collection system, 110 lift stations and reclaimed water system.

Utility District Program Management, Riviera Beach Utility District, Riviera Beach, FL Assistant Executive Director. Mario served as Assistant Executive Director for the 54-person Utility District staff of Riviera Beach, FL. His responsibilities included managing personnel, all technical plan reviews, construction inspection and program management of all water and sewer projects within the Utility District limits. He was Engineering Manager for the 14.5 MGD WTP, 27 deep raw water wells and pipe system, 65-mile finished water distribution system serving a 40,000-person customer base, 4 -1M Gallon re-pump stations, 75-mile sewer collection system, and 52 lift stations. He managed multiple engineering consultants and contractors, developed schedules for design bidding and construction and coordinated City projects with other municipalities and agencies.

With decades of experience leading water projects in the Hollywood, FL area, Mario is uniquely positioned to understand the City's objectives and lead HDR's team to addressing them.



Katie DUTY, PE, ENV SP

PROJECT PRINCIPAL

Katie Duty is a Vice President of HDR and serves as the Area Operations Manager. She has broad-based experience in civil engineering across the spectrum of water, wastewater, and water resources infrastructure. Her strengths include team leadership, project management, quality control, preparation of plans and specifications, cost estimating, and construction support. Katie has led teams both large and small for design and evaluation projects related to planning and infrastructure design for municipal, state, and federal clients. She has most recently served as the Program Manager for all of the projects associated with the overall design and construction of the \$500-million C-44 Reservoir and Stormwater Treatment Area (STA) Project being built by both the South Florida Water Management District (SFWMD) and the US Army Corps of Engineers (USACE).



TAMPA, FL

EXPERIENCE

Industry: 21
HDR: 19

EDUCATION

BS, Civil Engineering, Stevens Institute of Technology, 2003

REGISTRATIONS

Professional Engineer:
FL No. 67816

Envision Sustainability
Professional

National Council of Examiners
for Engineering and Surveying
(NCEES)

RELEVANT EXPERIENCE

Miscellaneous Professional Services for Potable Water, Wastewater, and Reclaimed Water Projects, City of St. Petersburg, FL Contract Manager. HDR has provided professional engineering services on a continuing basis for the City's potable water, wastewater, and reclaimed water projects. Tasks awarded to date include the Northeast Water Reclamation Facility (NEWRF) Effluent Filtration System and Transfer Pump Station Improvements and the 48-inch Water Transmission Main Lake Tarpon Outfall Improvements. Katie's role as Contract Manager is to work with the City to develop appropriate scopes of work, and to identify and commit the right project staff to deliver quality work.

MDWASD, Alexander Orr, Jr. Water Treatment Plant Renewal and Replacement (AOWTP R&R) Services, Miami-Dade County, FL

Contract Principal. HDR holds a multi-year contract to provide design and consulting R&R services for the facility. Under this contract, HDR has completed or is currently engaged in delivering task assignments to address the infrastructure needs of the plant. Currently HDR has multiple projects on-going including a filter evaluation study, design of an electrical upgrade for a high service pump station, design of a storage system for chemicals and construction of several facilities at the plant.

General Professional Engineering Services - Peace River Manasota Regional Water Supply Authority, Charlotte, DeSoto, Manatee, and Sarasota Counties, FL
Principal-in-Charge. HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since May 2005. Over 50 work orders have been authorized under this contract.

SFWMD, C-44 Reservoir/STA Project, Indiantown, FL

Project Principal. The C-44 Project for the SFWMD involves converting 12,000 acres of former citrus land to an off-stream above-ground earthen-embankment reservoir with STAs to attenuate flow and treat water from the C-44 Basin prior to discharge into the Indian River lagoon as part of the Comprehensive Everglades Restoration Program (CERP). Katie helped develop the site characterization study to determine in-situ soil and groundwater conditions of the site for constructability and operations concerns. Additionally, she performed analysis and design of the reservoir and STA embankments, which included selection of soil parameters and properties for design, storm hydrology and wave run-up resolution, seepage analysis to determine any adverse effects from water impoundments, slope stability, and settlement of embankments. Katie also supported the development of plans and specifications, engineering opinion of probable construction costs, and public meetings and workshops with the District.

As leader of HDR's area operations, Katie can commit resources to resolve workload challenges to meet schedule needs for the City. She has served in a principal role for other projects in the area, providing leadership to drive projects to success.



Will SUERO, PE

SENIOR TECHNICAL ADVISOR

Will has more than 32 years of experience in managing projects and designing of engineering projects in the South Florida region. He has also served as Engineer of Record and supervised/directed technical staff in the preparation of all components of roadway plans for FDOT, county, and private development engineering projects, which have included geometrics, drainage, traffic control, signing and pavement marking, signalization, ITS, lighting, environmental permitting, and utility coordination.



 FORT LAUDERDALE, FL

EXPERIENCE

Industry: 32
HDR: 21

EDUCATION

BS, Civil Engineering, University of Central Florida, 1990

REGISTRATIONS

Professional Engineer:
FL No. 49224

PROFESSIONAL MEMBERSHIPS

American Road and Transportation Builders Association, Member

American Society of Civil Engineers (ASCE), Member

American Council of Engineering Companies, Member

Will brings a proven record of delivering for South Florida with decades of technical expertise as well as invaluable knowledge of the area and its needs.

RELEVANT EXPERIENCE

I-95 Express Phase 3 Corridor Design Consultant, FDOT District 4, Broward and Palm Beach Counties, FL

Project Manager. HDR provided corridor management support services for the deployment of the 95 Express Lanes from Stirling Road in Broward County to Linton Boulevard in Palm Beach County. The Express Lanes work included the evaluation and incorporation of direct connect ramps between the 95 Express Lanes and I-595, to and from the west.

PD&E Study for I-95 at Broward Boulevard Interchange Improvements, FDOT District 4, Broward County, FL

Project Manager. HDR led the Project Development and Environment (PD&E) study for the I-95 at Broward Boulevard interchange improvements. This study included the consideration of all social, economic, environmental effects, and mitigation as required by the FHWA and the PD&E manual, along with the required environmental documents, engineering reports, preliminary plans, public involvement and hearings, and right of way maps.

PD&E Study for I-95 from Commercial Boulevard to Cypress Creek Road, FDOT District 4, Broward County, FL

Principal-in-Charge. HDR provided transportation planning and traffic engineering services to support FDOT District 4's Project Development and Environment (PD&E) study for interchange improvements for I-95 between Commercial Boulevard and Cypress Creek Road in Fort Lauderdale, FL.

SR A1A Resurfacing and Seawall Revetment Rehabilitation, FDOT District 4, Palm Beach County, FL

Project Manager/Engineer of Record. HDR prepared a 3R Report and construction plans for the improvements to SRA1A from south Lake Worth Road (SR 802) to Southern Boulevard (SR 80) in Palm Beach County, a distance of 5 miles. The project scope included improvements to SR 802 and SR 80 between the Atlantic Intracoastal Waterway and SR A1A. HDR was also responsible for full utility coordination related to utility relocations necessitated by construction of the proposed roadway drainage signal and lighting improvements. Public involvement with the Town of Palm Beach, the City of Lake Worth and the Citizen's Association of South Palm Beach was required to obtain local approval of the proposed improvements. Will was responsible for all roadway, drainage, Traffic, Utility Coordination, and Permitting work, as the Engineer of Record. He also served as the contract manager for both FDOT and subconsultant project management responsibilities.

Districtwide Miscellaneous Design Services, FDOT District 4, Districtwide, FL

Principal-in-Charge. HDR led this contract which included scope and task work orders for the preparation of roadway, signing and marking, signalization, lighting, and landscaping plans for a variety of projects. Will's responsibilities included Task Order Manager, Project Manager, and Principal in Charge, during the 15 years of successive iterations of this contract.

Jorge CAMACHO, PE, ENV SP

TASK PROJECT MANAGER

Jorge is a senior engineer and project manager with a broad-based background in water resources infrastructure. Jorge is a water and wastewater project manager with over 25 years of experience in leading and managing projects including design, construction, procurement, and document control for a range of groups, from planning to construction phases. His project management experience includes managing project teams towards on-time, on-budget delivery, while maintaining strong working relationships with staff. While with a previous firm, Jorge supported an over \$100-million Capital Improvement Program (CIP) in Florida, where he managed the planning and design of multiple projects for water distribution and wastewater system improvements.



 DORAL, FL

EXPERIENCE

Industry: 25
HDR: 2

EDUCATION

MS, Civil Engineering, Universidad de Puerto Rico, Mayagüez, 1997

BS, Civil Engineering, Universidad de Puerto Rico, Mayagüez, 1996

REGISTRATIONS

Professional Engineer:

FL No. 79160

PR No. 17478

Envision Sustainability Professional

RELEVANT EXPERIENCE

Alexander Orr, Jr. Water Treatment Plant Renewal and Replacement Services, Miami-Dade Water and Sewer Department (MDWASD), Miami-Dade County, FL

Sr. Project Manager. HDR holds a multi-year contract to provide design and consulting R&R services for the facility. Under this contract, HDR has completed or is currently engaged in delivering numerous task assignments to address the infrastructure needs of the plant.

Capital Improvement Program (CIP) Planning Design, and Repair and Replacement (R&R) Improvements, City of North Miami Beach, FL

Pre-Construction Manager. Jorge supported the over \$100-million CIP for NMB Water. He managed the planning and design of multiple projects for water distribution and wastewater system improvements, including the 2018 Eastern Shores Water Distribution System Condition Assessment Pilot Study. He also managed the \$3-million funding for R&R projects for the utility, including budget, schedule, project identification, procurement, design, and construction. Jorge tracked and implemented project activities that included design management, scheduling control, execution, quality assurance, and cost monitoring. He met and coordinated project meetings with subcontractors and client and facility personnel to overview project progress.

Stormwater Master Plan, City of Fort Lauderdale, FL

Project Manager. HDR was selected, as a sub-consultant, to provide professional services related to a continuing contract for stormwater master plan modeling and design services. Jorge is currently leading the final phases of the design for the stormwater improvements at Dorsey- Riverbend community. The improvements include a new gravity system, a new stormwater pump station, and a force main system with a new outfall to the North Folk New River. Jorge's leadership and fast reaction to challenging situations have been key to the success of the design and permitting process with Broward County and City of Fort Lauderdale.

Water Distribution and Sanitary Collection System Projects, Puerto Rico Aqueduct and Sewer Authority (PRASA), San Juan, PR

Project Manager. Jorge managed design projects for new water distribution systems and provided sanitary collection system improvements to existing systems for different communities in Puerto Rico, such as Ingenio Sanitary Vacuum System, San Lorenzo-Caguas Sanitary Trunk Replacement, Island-wide Solids Management Plan, Capacity Evaluation of Rio Hondo Norte Trunk Sewer, Improvements to Guzman Arriba Distribution System, Rehabilitation of La Plata Dam, among others.

Jorge will apply his 25 years of utility and civil design experience along with his organizational and communication skills to help deliver a quality project on budget and on schedule.



Dan SUAREZ, PE

QUALITY ASSURANCE



FORT LAUDERDALE, FL

EXPERIENCE

Industry: 19
HDR: 6

EDUCATION

BS, Civil Engineering, University of Illinois at Chicago (UIC), 2004

BS, Commerce, DePaul University, 2000

REGISTRATIONS

Professional Engineer:
FL No. 69096

Dan has 19 years of experience managing and executing continuing services contracts for public agencies across South Florida. He has managed the design, quality assurance and quality control (QA/QC) for several complex projects in the area.

Dan possesses 19 years of public and private sector experience in a wide array of areas, including program management, master planning, capital improvement planning, design, and construction oversight of water, wastewater, and storm sewer facilities and infrastructure. Daniel is a polished manager, able to coordinate the delivery of projects with multiple stakeholders including project owners, regulatory agencies, designers, and contractors. Daniel is also experienced in overseeing design and construction staff and in executing quality assurance and quality control (QA/QC) measures for his projects.

RELEVANT EXPERIENCE

Alexander Orr, Jr. Water Treatment Plant Renewal and Replacement Services, Miami-Dade Water and Sewer Department (MDWASD), Miami-Dade County, FL QA/QC Review. HDR holds a multi-year contract to provide design and consulting R&R services for the facility. Under this contract, HDR has completed or is currently engaged in delivering numerous task assignments to address the infrastructure needs of the plant.

Stormwater Master Plan, Fort Lauderdale, FL Design Manager. HDR was selected, as a sub-consultant, to provide professional services related to a continuing contract for stormwater master plan modeling and design implementation services. The City's Stormwater Master Plan will address chronic flooding and other stormwater management issues, including long-term issues related to sea level rise. The City is composed of several individual watershed areas characterized by low-lying topography and intersected by numerous canals and rivers. This combination, including low lying topography, limited available soil storage, aging and undersized stormwater infrastructure, high tidal surges, and seasonal high intensity storm events, makes the City susceptible to severe flooding.

Water and Wastewater System Master Plan for Hollywood Seminole Indian Reservation, Hollywood, FL Project Manager. This Master Plan improved or expanded the potable water, sanitary water, and reclaimed water systems over the next 20 years. The project involved collection and review of as-built drawings and newly-acquired survey data, evaluation

of water demands, wastewater flows, and projection of system demands and flows within the planning period by conducting hydraulic and water quality modeling of the water distribution and wastewater collection systems. The project also included the identification and prioritization of projects and estimated construction costs.

Stormwater Condition Assessment, City of West Palm Beach, West Palm Beach, FL Project Manager. HDR was selected to help expedite the completion of up to 5,000 linear feet (LF) of the City's priority stormwater infrastructure rehabilitation projects. The goal is to reduce the City's maintenance costs and renewal of stormwater assets by: 1) defining appropriate methods for remediation of stormwater assets; 2) developing strategies to more efficiently procure stormwater inspection and rehabilitation contracts; and 3) providing the foundation for the implementation of a defensible, reproducible, and comprehensive long-term stormwater asset condition assessment and risk mitigation program.

Stormwater Gravity Injection Wells (Phase VI), Key West, FL Project Manager. This project included the design of 10 gravity injection wells and stormwater collection systems with areas of the city that were experiencing flooding. The project also included installation of stormwater structures and 1,200 LF of 24-inch PVC pipe and 300 LF of 18-inch PVC pipe at depths ranging from 5 to 18 feet.



Chance LAUDERDALE, PHD, PE

LEAD AND COPPER RULE LEAD



TAMPA, FL

EXPERIENCE

Industry: 19
HDR: 9

EDUCATION

PhD, Environmental Engineering,
University of Florida, 2011

MS, Environmental Engineering,
University of Florida, 2004

BS, Environmental Engineering,
University of Florida, 2001

REGISTRATIONS

Professional Engineer:

FL No. 66658

TX No. 109602

Chance serves as HDR's Drinking Water Market Sector Director and has more than 10 years of experience engaged in the conceptualization, validation, design, and operation of advanced water treatment technologies, including drinking water biological filtration. Chance has also focused heavily on holistic drinking water treatment process optimization as a means to improve sustainability and decrease operating costs, while meeting treatment and operational objectives. Because maintaining water quality throughout a distribution system is key to community health, Chance has also studied the qualities that reduce the presence of lead and copper in drinking water, and applies that knowledge to help clients identify potential system vulnerabilities and opportunities.

RELEVANT EXPERIENCE

Lead and Copper Rule Revision Assistance, City of St. Petersburg, St. Petersburg, FL Senior Advisor. HDR is assisting the City with a full range of services related to the Lead and Copper Rule Revision. Services includes a chartering workshop, gap analysis, public outreach, and an initial phase of LSL inventory.

Miscellaneous Professional Services for Potable Water, Wastewater, and Reclaimed Water Projects, City of St. Petersburg, FL QA/QC Reviewer. HDR has provided professional engineering services on a continuing basis for the City's potable water, wastewater, and reclaimed water projects funded by the City, Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), US Environmental Protection Agency (USEPA), and other agencies/funding sources. As QA/QC Reviewer, Chance has provided review and technical guidance on multiple projects, including the evaluation project completed at the NEWRF.

Continuing Engineering Services, Hernando County, FL QA/QC Reviewer. Since 2008, HDR has served Hernando County on multiple projects under our Continuing Engineering Services contract. We have completed a wide variety of water/wastewater task order assignments. Tasks awarded to date include the SR 50 Utility Bridge Crossing Design, Quality Drive Lift Station Rehabilitation, Weeki Wachee SW DRA Retrofits, and Topaz Street Drainage.

Alexander Orr, Jr. Water Treatment Plant Renewal and Replacement Services, Miami-Dade Water and Sewer Department (MDWASD), Miami-Dade County, FL QA/QC Reviewer. HDR holds a multi-year contract to provide design and consulting R&R services for the facility. Under this contract, HDR has completed or is currently engaged in delivering numerous task assignments to address the infrastructure needs of the plant. As QA/ QC Reviewer, Chance has provided technical input on project development and delivery for multiple projects at the plant.

General Engineering Services, Peace River Manasota Regional Water Supply Authority, Charlotte County, FL QA/QC Reviewer. HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since May 2005. Over 50 work orders have been authorized under this contract. Assignments have included water supply planning, wellfield development investigations, treatment process troubleshooting, transmission system hydraulic modeling, geotechnical engineering for stabilization, and design services related to master planning and Capital Improvement Plan (CIP) development.

Chance is a national expert in conventional and advanced water treatment and can help the City identify the scale of improvements needed for LCRR compliance by developing a comprehensive implementation plan that can be budgeted for.



Heath HARDY, PE, CDT

COLLECTION SYSTEM LEAD

Heath Hardy has over 15 years of experience in water and wastewater engineering. He has experience in design, permitting, cost estimating, and construction inspection for a variety of water and wastewater projects including water distribution, wastewater collection systems, wastewater lift stations, water treatment plant improvements, wastewater treatment plant improvements, and master planning. In addition, Heath's project experience includes developing civil site design plans including demolition, site layout, grading, drainage, utility work, and erosion control plans.



 PENSACOLA, FL

EXPERIENCE

Industry: 15
HDR: 14

EDUCATION

BS, Environmental Engineering,
University of Florida, 2007

REGISTRATIONS

Professional Engineer:

AL No. 39154

FL No. 75444

Construction Documents Technologist

RELEVANT EXPERIENCE

Professional Services for Wastewater Collection and Treatment Systems (WCTS) Related to Consent Decree Projects - Miami-Dade Water and Sewer Department (MDWASD), Miami, FL

Project Engineer. HDR led a team of 14 professional service companies in the development of engineering and designs to address the majority of sewer collection and conveyance pipelines and pump stations identified in the MDWASD's Consent Decree. Heath has served as a Project Engineer on a variety of projects under this contract.

Alexander Orr, Jr. Water Treatment Plant Renewal and Replacement Services - MDWASD, Miami, FL

Project Engineer. HDR holds a multi-year contract to provide design and consulting R&R services for the facility. Under this contract, HDR has completed or is currently engaged in delivering task assignments to address the infrastructure needs of the plant. Heath has served as a Project Engineer on a variety of projects under HDR's contract at the AOWTP.

Continuing Engineering Services, Hernando County, FL

Project Engineer. Since 2008, HDR has served Hernando County on multiple projects under our Continuing Engineering Services contract. We have completed a wide variety of water/wastewater task order assignments. Tasks awarded to date include the SR 50 Utility Bridge Crossing Design, Quality Drive Lift Station Rehabilitation, Weeki Wachee SW DRA Retrofits, and Topaz Street Drainage.

General Professional Engineering Services - Peace River Manasota Regional Water Supply Authority, Charlotte, DeSoto, Manatee, and Sarasota Counties, FL

Project Engineer. HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since May 2005. Over 50 work orders have been authorized under this contract. Assignments have included water supply planning, wellfield development investigations, treatment process troubleshooting, transmission system hydraulic modeling, geotechnical engineering for stabilization, and design services related to master planning and Capital Improvement Plan (CIP) development. Heath has served as Project Engineer for several design projects awarded under this contract.

Professional Architectural and Engineering Consulting Services - Gainesville Regional Utilities (GRU), Gainesville, FL

Project Manager. HDR was selected to provide GRU with professional architectural and engineering consulting services on an as-needed basis. Heath has provided project management with clear communication during critical field services to provide the best value to the City from the condition assessment efforts.

Heath serves as HDR's Pipeline and Pump Station Business Class Lead for the state of Florida and has extensive experience with managing and designing both water and wastewater projects across the southeast.



Samantha LA HÉE, PE

PUMP STATIONS LEAD

Samantha La Hée is a project manager with experience in hydraulic modeling; stormwater and pipeline design; water and wastewater treatment and design; pump stations; membrane systems; water supply master planning; regulatory compliance; permitting; and preparation of specifications, reports, and evaluations. Her hydraulic modeling experience includes EPA SWMM5, InfoWorks CS, Storm and Sanitary Sewer Analysis (SSA), Visual Hydraulics, and HydroCAD.



 DORAL, FL

EXPERIENCE

Industry: 19
HDR: 16

EDUCATION

MS, Civil Engineering, Howard University, 2005

BS, Civil Engineering, Howard University, 2003

REGISTRATIONS

Professional Engineer:

FL No. 82667

OH No. 79023

RELEVANT EXPERIENCE

Pump Station 301, Miami-Dade Water & Sewer Department, WCTS CD Project,
Miami-Dade County, FL

Project Manager. HDR was tasked with the design of a new pump station in order to meet consent decree requirements. PS 301 is a 16 MGD, 110 HP, trench well pump station whose design, based on the coastal location, has multiple resiliency components including submersible pumps, generator and electrical room located on the second floor, and flood proof emergency fuel system. Permitting and construction support was also included.

Pump Station 187, Miami-Dade Water & Sewer Department, WCTS CD Project,
Miami-Dade County, FL

Project Manager. HDR developed the engineering report and design for PS 187 upgrade in order to meet consent decree requirements. This is a 49 MGD, 450 HP, medium voltage booster pump station whose upgrades comprised of building expansion and replacing the pumps, pipes, HVAC, I&C and electrical equipment including VFDs, switchgear. Permitting and construction was also support included.

Wastewater Collection and Transmission Systems (WCTS) CD Pipeline Projects,
Miami-Dade Water & Sewer Department,
Miami-Dade County, FL

Senior Technical Engineer. As part of the Consent Decree program, HDR was tasked with multiple pipeline (force mains and gravity sewers) designs totaling approximately 15 miles ranging in diameter from 6-inches to 54-inches, some of which included pipeline rehabilitation.

Alexander Orr WTP Repairs and Rehabilitation: High Service Pump/Driver No. 6 Improvements Design, Miami-Dade Water & Sewer Department,
Miami-Dade County, FL

Senior Project Manager. The original High Service Pump No. 6 was approximately 50 MGD driven by a 2,250-HP dual fuel engine that could be operated with natural gas. HDR has designed a new pump and driver system with a single-fuel natural gas-only 2,500-HP engine. This new engine system will provide for cost-effective operation and maintains flow during potential power outages, meets the current air quality standards, and has a level of serviceability and maintenance that is consistent with current MDWASD practices.

Miscellaneous Professional Services for Potable Water, Wastewater, and Reclaimed Water Projects,
City of St. Petersburg, FL

QA/QC Reviewer. HDR has provided professional engineering services on a continuing basis for the City's potable water, wastewater, and reclaimed water projects funded by the City, Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), US Environmental Protection Agency (USEPA), and other agencies/funding sources.

Initial Distribution System Evaluation Standard Monitoring Plan, City of Marco Island,
Marco Island, FL

Project Engineer. HDR worked with the City of Marco Island to develop its IDSE plan. Development of the SMP took into consideration the City's highly variable water demand patterns due to seasonal population variations. The City's distribution system hydraulic model was utilized to help select proposed monitoring sites.

Based in HDR's nearby Doral office, Samantha understands the Southeast Florida utilities business, from relationships with regulatory and permitting agencies, to general contractors and specialty sub-consultants.



Ryan MESSER, PE, ENV SP

REUSE LEAD

Ryan is experienced in delivering municipal wastewater and reuse projects in Florida, as well as integrating third-party stakeholders into projects. Ryan has assisted or led projects related to many aspects of water/wastewater infrastructure including reclaimed water distribution, wastewater collection, wastewater treatment, hydrogeologic technologies, natural treatment systems, potable water supply, and potable water distribution. He has led multiple system-wide planning efforts to assess water supply, quality, and reuse opportunities.



SARASOTA, FL

EXPERIENCE

Industry: 11
HDR: 4

EDUCATION

ME, Environmental Engineering, University of Florida, 2011

MS, Environmental Engineering, University of Florida, 2010

REGISTRATIONS

Professional Engineer:

FL No. 79332

Envision Sustainability Professional

RELEVANT EXPERIENCE

Water, Wastewater, and Reclaimed Water Projects, City of St. Petersburg, FL Lead Engineer/Mechanical QC Reviewer.

HDR has provided professional engineering services on a continuing basis for the City's potable water, wastewater, and reclaimed water projects funded by the City, Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), US Environmental Protection Agency (USEPA), and other agencies/funding sources. Ryan has supported several projects under this contract, providing sound engineering input, particularly with his understanding of the City's infrastructure and operations.

Professional Services for Wastewater Collection and Transmission Systems Related to Consent Decree Projects, Miami-Dade Water and Sewer Department (MDWASD), Miami-Dade County, FL

Project Engineer. HDR led a team of 14 professional service companies in the development of engineering and designs to address the majority of sewer collection and conveyance pipelines, and pump stations identified in the MDWASD's Consent Decree. Ryan has provided engineering leadership to multiple projects under design and construction as part of this delivery team.

General Engineering Services: Peace River Facility (PRF) Aluminum Management Study, Peace River Manasota Regional Water Supply Authority, Charlotte County, FL

Project Manager. HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since May 2005. Over 50 work orders have been authorized under this contract. Assignments have included HDR services for water supply planning, wellfield development investigations, treatment process troubleshooting, transmission system hydraulic modeling, geotechnical engineering for stabilization, and design services related to master planning and CIP development.

Continuing Engineering Services, Hernando County, FL

Lead Engineer. Since 2008, HDR has served Hernando County on multiple projects under our Continuing Engineering Services contract. We have completed a wide variety of water/wastewater task order assignments. Tasks awarded to date include the SR 50 Utility Bridge Crossing Design, Quality Drive Lift Station Rehabilitation, Weeki Wachee SW DRA Retrofits, and Topaz Street Drainage. Ryan is providing engineering leadership to multiple project teams, solving utilities and storm water issues.

Ryan brings a unique combination of infrastructure experience and has delivered on a wide range of water and wastewater improvement projects to utility clients across Florida. This experience will be key to tackling the City's specific challenges.



36
YEARS

Brenda VAN RAVENSWAAY, PE

WASTEWATER TREATMENT /REUSE

Professional Engineer, FL
No. 47027

ME, Environmental Engineering
BS, Environmental Engineering

Brenda is a Vice President of HDR with a diverse skill set encompassing all aspects of project delivery. She supports wastewater and reclaimed water projects nationally for HDR ranging from regulations, technology, and delivery approaches. She provides regulatory guidance from the Clean Water Act, integrated planning, nutrient management, PFAS, and disinfection requirements. Her technical support ranges from collection system improvements, wet weather management strategies, treatment, effluent disposal, and biosolids management.



26
YEARS

David O'CONNOR, PE, BCEE ASSOC. DBIA

PIPELINES/PUMP STATIONS

Professional Engineer, FL
No. 56803

BS, Environmental Engineering

David has more than 26 years of experience in assisting clients in the planning, design, permitting, and construction management of water, wastewater and reclaimed water projects. He has significant experience with the master planning, permitting, design, and construction management of water infrastructure projects including pumping stations, gravity and pressure pipelines, sewer rehabilitation, and treatment plant improvements.



23
YEARS

Patrick BLANDFORD, PE

STORMWATER

Professional Engineer:
NC, SC

MS, Civil Engineering
BS, Civil Engineering

Patrick Blandford is a project engineer and manager that is experienced with a variety of projects, services, and clients in water resources. Areas of experience include stormwater program development, permitting and implementation, water supply planning and analysis, engineering design and analysis, and inspection assessment and construction administrative services. Technical strengths include environmental systems analysis, hydrologic modeling, watershed assessment, surface water quality modeling, GIS capabilities, and structural BMP selection and implementation.



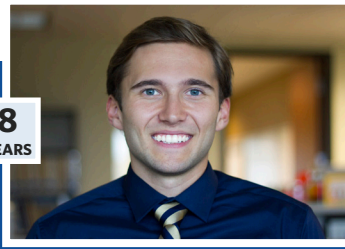
31
YEARS

Sharon WRIGHT, AICP, LEED AP BD+C, ENV SP

SUSTAINABILITY & RESILIENCE

MS, City Planning
BS, Soil and Water Science

Sharon is the Florida Resilience Practice Lead for HDR and is a collaborative leader who is effective at working across departments, business lines, and disciplines with government agencies, community organizations and businesses to increase sustainability and resilience. She launched and led the Office of Sustainability & Resilience for the City of St. Petersburg, FL, where she developed the City's first ever Integrated Sustainability Action Plan (ISAP). She is experienced in using technical expertise in urban and environmental planning, sustainable building and infrastructure design, and business development to build and implement new programs and projects focused on operational and community wide sustainability and resilience.



8
YEARS

Alex MILLER,

PE, ENV SP

HYDROLOGIC
& HYDRAULIC MODELING

 **Professional Engineer, FL**
No. 90733

 **ME, Civil Engineering**
BS, Civil Engineering

Alex Miller is a stormwater designer/modeler, Certified Envision Sustainability Professional and Certified Floodplain Manager. He has a wide range of project experience from wetland restoration work to transportation stormwater design. His hydraulic modeling experience includes proficiency in Geopak Drainage, ASAD, ICPR3, ICPR4, HEC-RAS 5.0, and GIS.





13
YEARS

Colleen HOWARD,

PE

CONSTRUCTION
MANAGEMENT

 **Professional Engineer, FL**
No. 88161

 **ME, Engineering**
BS, Engineering

Colleen specializes in water and wastewater pipeline planning, design, and construction. Specific tasks include alignment studies; hydraulic evaluation; trust restraint calculations for various pipe materials; assisting in data collection for cathodic protection evaluation and design; developing construction cost estimates; and providing final design documentation, bid phase services, and design services during construction.



6
YEARS

Samantha BLACK,

PHD, PE

WATER
TREATMENT

 **Professional Engineer, FL**
No. 89444

 **PhD, Environmental Engineering**
MS, Environmental Engineering
BS, Environmental Engineering

Samantha is a water process engineer and key team member for several Water Treatment Plant projects providing process evaluation, pilot testing, water quality investigations, and construction period services. She has assisted with multiple projects to provide water quality solutions and evaluate advanced treatment technologies. Samantha leads HDR's Cross-Sector PFAS Practice Group and works on PFAS projects throughout the country including PFAS sampling plan development and bench- and pilot-scale testing. She has experience with several advanced treatment technologies, including membranes, GAC, and IX.



26
YEARS

Alex PALMATIER

ASSET
MANAGEMENT

 **BS, Environmental Sciences**


Alex is a project manager specializing in utility business services with many years experience providing sewer system regulatory compliance assistance which includes preparing and assisting with implantation of sewer system management plans (SSMPs), consent decree compliance and computerized maintenance management systems. His diverse experience includes extensive management and operational assessments in customer service billing and collection accounting business unit development and project/transition management. His management consulting experience includes work in cost of capital determination, market and competitive assessments, and financial modeling.

27
YEARS



Susan DONNALLY,
PE

CONDITION
ASSESSMENT

 BS, Civil Engineering
BS, Chemistry

 **Professional Engineer:**
DC, DE, MD, MI, VA


Susan has focused her career on condition assessment and design/construction of buried infrastructure. Her expertise in condition assessment includes transmission and distribution pipelines, force mains, and water storage facilities. She also has experience overseeing large-scale condition assessment programs for pressurized pipelines. Susan has helped agencies with technology selection, condition assessment planning and execution, and development of recommendations.

19
YEARS



Emilio CORRALES,
PE

CIVIL/ROADS/MOT

 MS, Civil Engineering
BS, Civil Engineering

 **Professional Engineer, FL**
No. 70657

Emilio Corrales has 19 years of experience that includes preparation and design of roadway plans roadway geometrics, signing and pavement markings, signalization, cost estimates, pavement design and utility coordination as well as extensive computer experience in MicroStation, Geopak, GuidSIGN, AutoTURN, and AutoCAD applications. Emilio brings great technical experience and leadership that has enabled him to grow within the business multiple times by demonstrating the ability to manage a function successfully, partner effectively, and be a key contributor to the success of the projects and company as a whole.

27
YEARS



Bruce BRADLEY,
PE, SE

STRUCTURAL

 BS, Civil Engineering

 **Professional Engineer, FL**
No. 79125

Bruce's responsibilities include structural design for both building and bridge type structures. He prepares staged construction plans, estimates of probable costs; and project reports, as well as structural engineering planning, design, and construction documents. He also provides structural engineering for new buildings including manufactured buildings. His experience includes design and plan preparation of buildings and other structures including concrete water holding tanks, circular and rectangular clarifiers, water control and other miscellaneous structures on a variety of building and fish hatchery projects, including new construction and rehabilitations.

33
YEARS



Pete BREDEHOEFT
CEP

COST
ESTIMATES

 BS, Construction Management

 **Certified Estimating
Professional**

Pete has completed more than 3,300 cost estimates on all levels, including program management, conceptual bonding type estimates, order of magnitude project estimates, design development estimates, construction document estimates, final design estimates, operations/maintenance estimates and change order-type definitive level estimates. He is an expert in the cost estimating process and procedures for programs. Pete is a specialist in estimating location or area adjustment factors and in escalation development and commodity trends.



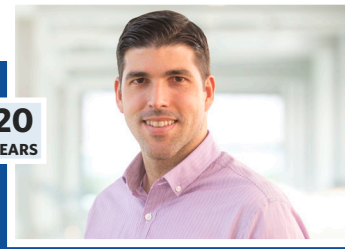
42
YEARS

Barry LENZ

ENVIRONMENTAL

 **BS, Biology**

Barry is a senior environmental scientist with 42 years of diverse environmental consulting experience. He has executed the management and performance of environmental impact assessments; NEPA studies; federal, state and local environmental resource permitting; large-scale wetland delineation and mitigation/restoration designs; federal and state listed species surveys, habitat assessments and take permits. Prior to joining HDR, Barry served as project manager for the assessment and permitting of natural gas and liquid fuel pipelines, electrical transmission line corridors, substations, and roadway widening projects, and the assessment and permitting of medium and large-scale residential, commercial and office developments.




20
YEARS

Javier MANSO,

PE

FDOT
COORDINATION

 **BS, Civil Engineering**

 **Professional Engineer, FL**
No. 69183

Javier has 20 years of experience in the design and management of transportation facilities throughout South Florida. Javier's experience includes preparation of final design plans, roadway geometrics, signing and pavement markings, access management, signalization, pavement design, plans reviews, engineer estimates, utility coordination for milling and resurfacing, reconstruction, new construction, limited access facilities, tolled facilities, and complex interchange projects.



12
YEARS

Maurene BALMASEDA

STRATEGIC
COMMUNICATION

 **BS, Environmental Studies**

Maurene is a dynamic communicator, planner, and public outreach professional with more than 12 years of experience. Maurene has state DOT and MPO experience on a variety of projects and initiatives. Her broad background includes facilitating the complex NEPA public involvement process for multi-million dollar NEPA Studies, crafting educational campaigns for a variety of disciplines, administering MPO grant programs, various transportation planning document development, and organizational management consulting.



34
YEARS

Kevin MIGHT,

RLA

LANDSCAPE
ARCHITECTURE

 **MS, Master of City & Regional Planning**
BS, Landscape Architecture

Kevin is an Senior Landscape Architect with over 34 years of experience. He is an accomplished and well-qualified Landscape Architect with expertise in the design and delivery of complex landscape projects. He is patient, persistent and interacts well with all levels of responsibility and has successfully managed multi-disciplinary consultant teams. He is experienced in grading, road alignment, dimensioning, managing construction documents, construction administration, contractor interaction/relationship, and project management. He has garnered a reputation for completing projects on time and under budget.



26
YEARS

Marc GAMBRILL,

AAE, PE

FUNDING | GRANTS



MS, Civil and Environmental
BS, Civil Engineering



Professional Engineer:
No. 59325

As an Accredited Airport Executive, Marc has extensive experience in projects ranging from in-line baggage screening, rehabilitations of several runways, and construction of a new 5 gate Concourse at Fort-Lauderdale-Hollywood International Airport. He has 15 years of leading the execution of the Airport Capital Improvement Program, FLL & HWO Master Plan, capital and operating budget, Noise Mitigation Program, engineering-related initiatives, as well as managing the capital needs of both FLL and HWO. He is an active participant in both the American Association of Airport Executives and the American Society of Civil Engineers.



37
YEARS

Mike MCMAHON,

ENV SP

HYDRO-METEOROLOGY



BS, Meteorology

Mike has extensive experience, focusing on understanding and communicating the interactions of the land-water-atmosphere nexus. His projects and research include climate change impact analysis, quantification, adaptation, flood warning, monitoring, response and outreach, hydrologic and hydraulic (H&H), and GIS mapping for water system adaptation strategies. He has specific expertise in the communication of risk as it pertains to the social, environmental, and economic aspects of our ecosystems. He has an active role in the climate science community as part of the AWWA M71 panel for water infrastructure resilience, the Florida Climate Institute, the National Institute of Standards, and Technology Water Infrastructure Resilience Panel.



16
YEARS

Jeff THORPE

CADD/GIS



AS, Architectural and Building Technologies

Jeff Thorpe is a professional CADD Specialist with a variety of experience in civil engineering projects, including civil site design for large projects related to environmental restoration and water treatment. He has experience in all aspects of municipal water and wastewater collection, pumping, treatment, and distribution, including design of numerous pipelines for potable water, wastewater, and reclaimed water.



41
YEARS

Curt WENDT,

PE

INSTRUMENTATION
AND CONTROL



ME, Engineering
BS, Electrical Engineering
Technology



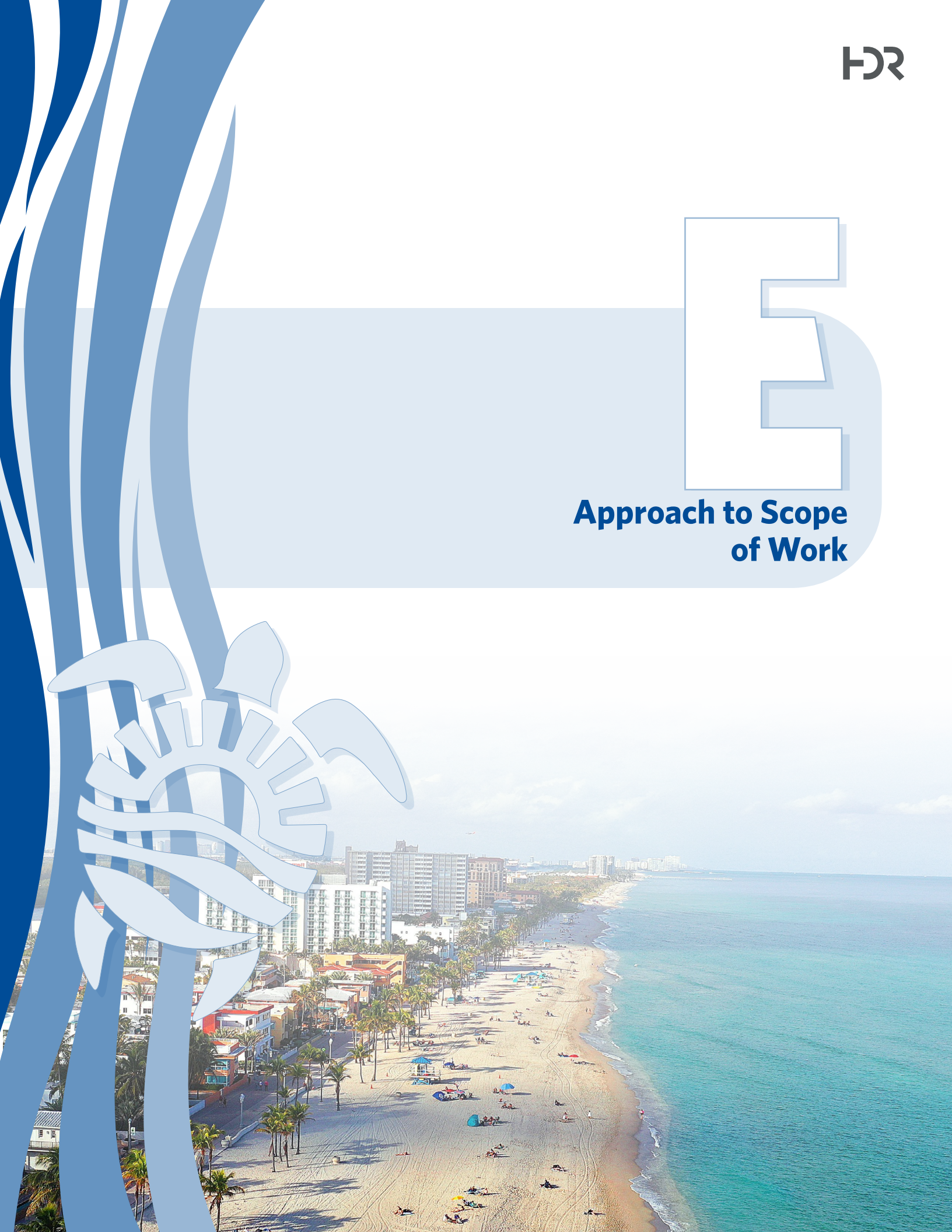
Professional Engineer:
DC, GA, IN, MA, MD, NC, NM,
NY, TX, VA

Curt is a Principal Control Systems Engineer for HDR in Orlando, Florida with over 40 years of experience in control systems. He is a Certified Automation Professional (CAP), a licensed professional engineer in several states, and holds a Master of Science degree in control systems engineering from the University of Wisconsin. He has been involved in the design of over twenty plants with pump stations over 35 MGD and twelve plants with pump stations of 100 to 460 MGD.



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Approach to Scope of Work








APPROACH TO SCOPE OF WORK

The City faces the challenges of sunny-day flooding and of modernizing aging water and sewer infrastructure, continuing to provide a high level of service to its customers, complying with increasing environmental regulations, and improving the resiliency of its facilities. HDR Engineering, Inc. (HDR) provides our clients with a fresh, holistic utility management approach to identify and implement forward thinking, economical solutions to these challenges.

HDR has served as an extension of the multiple municipalities and agencies for over 20 years and has successfully supported the development of multiple projects in water, wastewater, reuse and stormwater ranging from water main extensions to complex treatment plant design. The intent of this section is to detail HDR's understanding of challenges and potential solutions the City of Hollywood may face over the course of this General Engineering Services Agreement.

CHALLENGES

HDR BENEFITS TO CITY OF HOLLYWOOD

<p> The Southeast Florida area, like most of the state, continues to experience significant population and economic growth. The effects of rising sea levels and climate change are increasing the need for sustainable infrastructure. The airport-to-seaport connector and other investments in tourism and industrial sectors, will continue to increase demand for water and sewer services in the City of Hollywood.</p>	<p>HDR and our proposed staff have been involved with the Southeast Climate Compact's efforts to address and plan for rising sea levels and sunny day flooding. In fact, our proposed PM helped author version 3.0 of the Water Regional Action Plan. HDR will leverage these relationships, and the efforts of the Compact to help the City of Hollywood stay ahead of the curve using the best available data and solutions as the City continues to invest in making infrastructure improvements.</p>
<p> Environmental regulations in Florida continue to evolve and strain utility resources. USEPA's revised Lead & Copper Rule and FDEP's mandate for the beneficial reuse of treated effluent are just two examples of regulatory challenges faced by water/wastewater utilities. New regulations concerning PFAS and biosolids management will create additional challenges very soon.</p>	<p>HDR is at the forefront of water research and policy in Florida, and across the U.S. We currently provide strategic communications services to the Florida Water Environment Association Utility Council (FWEAUC). Nationally, we are developing nutrient management guidance for the Water Research Foundation (WRF) and Lead & Copper Rule Revision public outreach materials for the American Water Works Association (AWWA). We can help the City of Hollywood navigate fluid regulatory challenges.</p>
<p> Planned transportation improvements will continue to conflict with existing water, sewer, reuse and stormwater infrastructure locations.</p>	<p>HDR is a trusted consultant of the Florida Department of Transportation (FDOT). As such, we are uniquely suited to help the City of Hollywood proactively identify potential utility conflicts in transportation corridors targeted for expansion and to design new alignments that will accommodate the City's needs for decades to come.</p>



HDR's work with clients, including the City of Fort Lauderdale, Broward County, the South Florida Water Management District, and Port Everglades, exemplifies our involvement and commitment to the City of Hollywood and your regional partners. Understanding the roles and needs of multiple stakeholders provides a direct benefit when executing projects.

Approach

HDR consistently delivers projects on time and within budget, and we are mindful of the City staff's time and financial resources. We have assembled a team designed to align with the City's needs under this contract. Our approach provides tangible value to the City, including:

- **Local project leadership and staff to support collaborative delivery.** HDR's local office in Ft. Lauderdale provides efficient proximity to the City's offices and project sites and collaborative space to leverage HDR's additional national experts as needed. Our approach fosters communication, minimizes the time required by City staff to manage our efforts, and enables all parties to focus on the actual deliverables associated with each task order.
- **Effectively listening first so that objectives are clearly defined.** We prioritize listening to more fully understand your goals and objectives. This informs assignments during project scoping and provides the best value to the City. This approach, matched with the significant strength of our team, will support successful delivery.
- **Diverse disciplines to solve any challenge.** Our approach includes leveraging HDR's in-house expertise and multi-disciplined resources throughout the firm. We have the capability to provide solutions to the challenges that the City faces.
- **Strong partnership with subconsultants for quality results.** HDR takes pride in the quality of our work, and we expect the same from our subconsultants. Many of our teammates are longtime partners. They are skilled at working within our processes to deliver quality products.



Our Contract Manager, Mario's primary responsibility will be contract-level management

- Conduct regular work progress check-in meetings with relevant City leadership
- Focus on contractual capacity and contract administration
- Match personnel with required skill sets to individual tasks
- Manage resources to meet the overall contract budget and multiple task schedules
- Work with task leaders on implementing QA/QC on every project

Contract-level management focuses on being the communication conduit with the client, assigning the best talent and letting them do their jobs, and managing overall contractual facets.



Our Task Project Manager Jorge's responsibility will be task-level management

- Deliver tasks on time and on-budget to meet the City's needs
- Lead project team's delivery with a sound approach and a focus on quality
- Proactive and frequent communication with the City Project Manager on project status
- Match the appropriate expert with the right assignment
- Be on-site as needed

Task-level management focuses on managing specific project assignments to deliver high-quality deliverables in a timely and cost-effective manner.

All communication on projects will go directly between HDR's Contract Manager and the City's Project Manager, and HDR will keep detailed communication records.



Task Order Development

As shown in the graphic on the left of the page, once the City-assigned Project Manager contacts HDR regarding a task order, HDR's Contract Manager will schedule an initial scoping meeting with the City to confirm project understanding and City goals to develop an appropriate scope of work and assign the right resources to meet those needs. Next, HDR will work with appropriate City staff to visit sites and request relevant information to advance the scope development. Based on this information, HDR will prepare a detailed scope of work, labor-hour level of effort, delivery schedule, and not-to-exceed budget (fee) for the City's review and approval.

Overall Project Execution

Upon the City's approval of the scope and fee, our Task Project Manager will prepare the Project Management Plan (PMP) in coordination with our key personnel. The PMP is an important document that identifies the project requirements, including the Operations Plan, Communications Plan, Production Plan, and Quality Assurance/Quality Control (QA/QC) Plan.

Project Management Plan (PMP)

The PMP will be used to confirm that all project team members understand City project requirements and that all parties are starting the project with the same understanding. By working through the project planning process as a team, the project goals and objectives will be better defined and

clearly understood. The PMP will identify issues that may be encountered throughout the duration. Identifying issues during the planning phase supports a more proactive approach and can avoid costly delays resulting from a reactive approach. The PMP will include details for the following:

- Kick-Off Workshop and Site Visit
- Project Risk Register
- Progress Meetings
- Any concept design Technical Memorandum (if applicable)
- Design Deliverables (including permitting)
- Schedule
- Budget

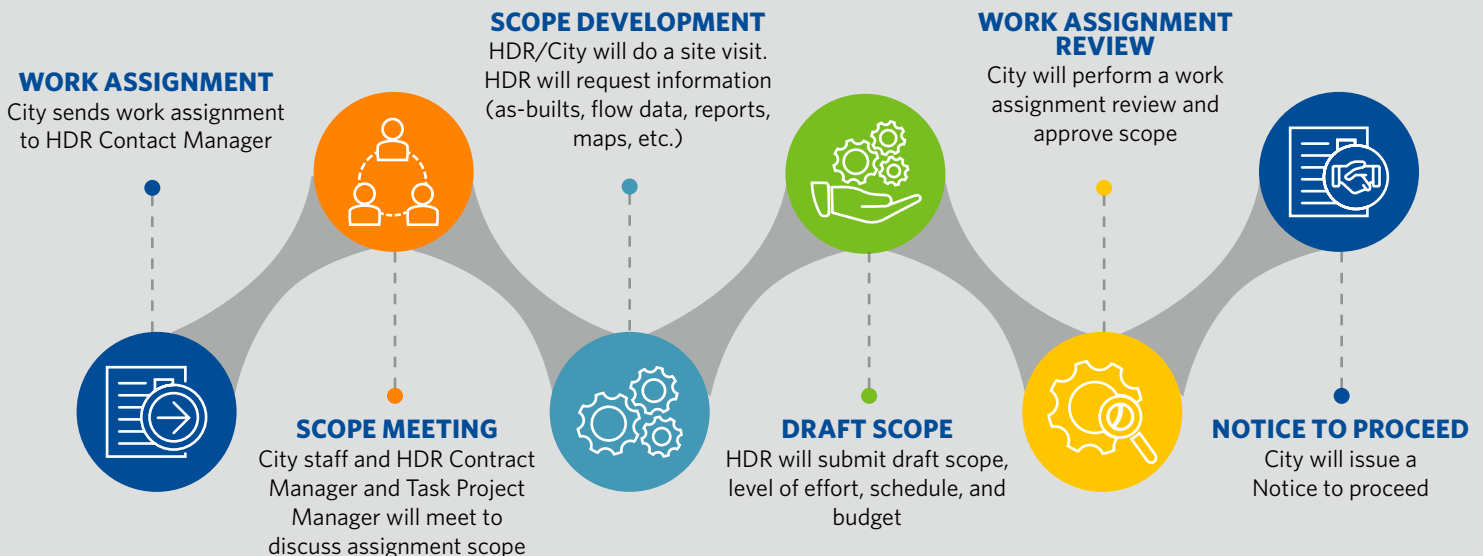
Operations Plan

The Operations Plan component of the PMP integrates tracking and monitoring of the approved scope, budget, and project schedules for each task order and defines requirements for invoicing, document control, and subconsultant management. An Action Item Checklist is used as a management tool to track the project Team's responsibilities and due dates.

HDR Task Project Managers use state-of-the-art tools which provide critical, real-time project information, including labor costs, expenses, staff availability and assignments, accounts receivable, QC, scheduling, earned value reports, and project reviews. All are available electronically on an internet-based

HDR Proven Project Approach

HDR's scoping approach implemented on similar continuing services contracts.



platform. For all project assignments, we will provide the City Project Manager with a monthly Project Status Report, which will identify updated schedules as status (as appropriate), budget analysis, and projected monthly work tasks.

Task order contracts often demand periods of high activity, with multiple assignments running concurrently or at different points along the project pipeline. We will work with your Project Managers to provide a rapid response during multiple assignments and meet schedules.

HDR measures the progress of project objectives in real-time, which allows us to reach the objectives and, if necessary, take appropriate preemptive actions. This continuous process anticipates and prevents potential problems, keeping projects on schedule.

A Work Breakdown Structure (WBS) is developed for each project assigned to manage the budget and schedule, identifying individual tasks, each of which is tracked by the Project Manager to facilitate timely budget completion of individual project parts.

Microsoft Project software will be used to establish the master project schedules in accordance with the WBS so that cost, schedule, and responsibility can be integrated into each work element for budgeting and monitoring purposes. Detailed Task Breakdowns, including hours per task, provide a straightforward

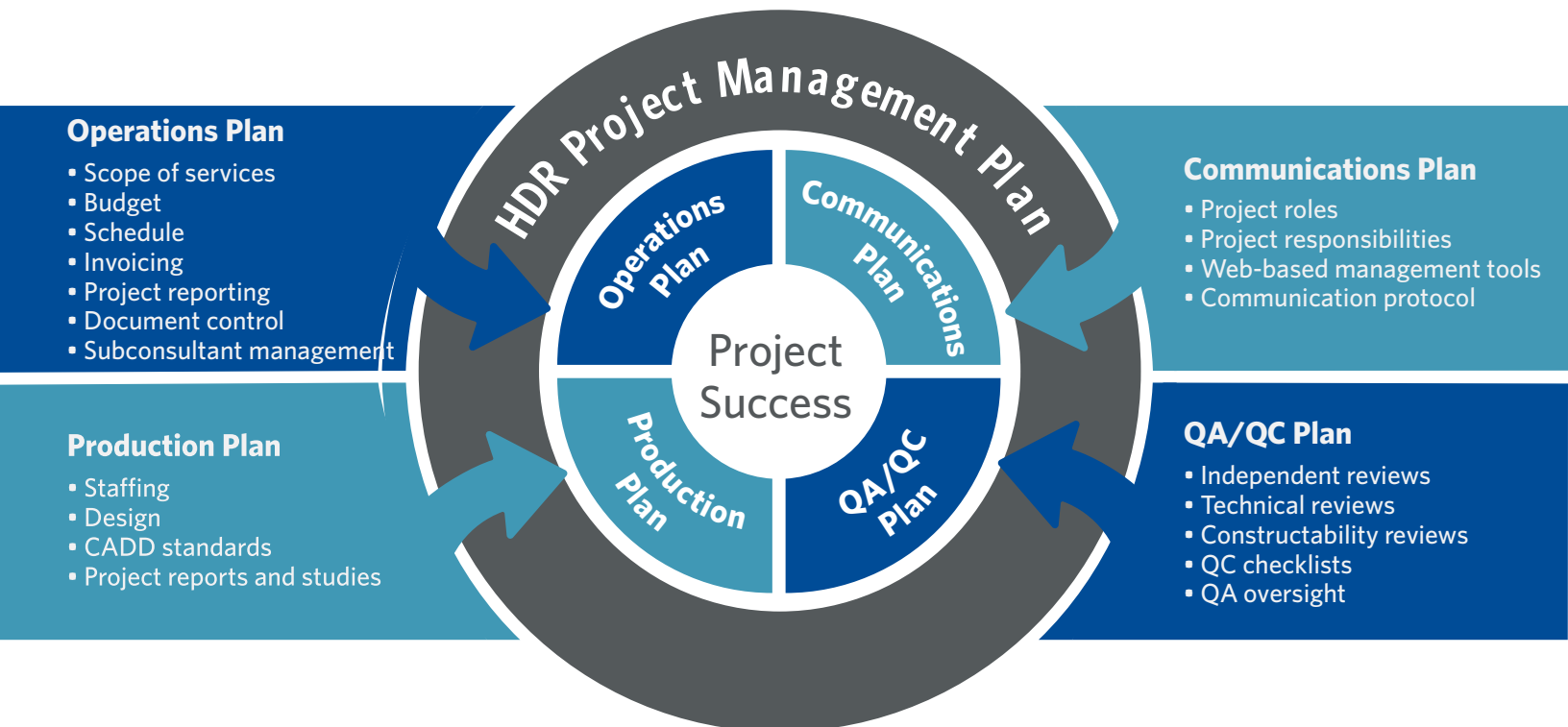
means of tracking the progress of the total scope and budget as well as the budget for each individual task. They also provide essential information to determine the project's critical path and report project status.

Communications Plan

The Communications Plan component of the PMP identifies the relationship of all key project stakeholders and establishes the protocol for team communications and documentation. Contacts will be established for City staff, external stakeholders, and the HDR Team, and all communications will be via that established conduit. This eliminates duplicate or contradictory communications and directives and allows for all decision documentation to be collected, stored, and acted upon as appropriate.

HDR centralizes all storage of technical and communication documentation in ProjectWise, an internet-based document management tool that uses a secured internet portal for viewing and editing information. HDR uses ProjectWise to manage electronic documents and facilitate the sharing of work among offices, subconsultants, and clients. With ProjectWise, the City's staff can access updated project information at any time for any ongoing projects under this contract.

Communication between the HDR Project Manager and the City's staff is essential throughout the duration. We propose a scheduled monthly review meeting with the City's Project Team to review the task order status and the plan for upcoming



activities. This will allow projects to remain on schedule and provide seamless coordination with the City.

Production Plan

The Production Plan identifies the task order scope, staffing plan and budgets, CADD and GIS requirements, technical standards, project schedule and critical path, and any other key assumptions and risks to be addressed. The staffing plan includes assignments of appropriate team members matched to the unique requirements of each task, utilizing HDR’s work planning tools to manage staff workload and availability. Work products will be developed by establishing an optimum workload balance between senior professionals providing guidance and oversight, with the support of other professional and technical staff as defined by the scope of each assigned task.

Quality Assurance/Quality Control Plan

Our Team is committed to excellence through the implementation of quality-oriented processes that deliver technically sound and superior products, particularly for multiple task orders executed simultaneously.

We will develop a detailed Quality Management Plan (QMP) as part of the PMP tailored to meet City requirements. The Quality Management Team will perform structured, independent quality reviews of the work at each project milestone.

The plan includes the following key components:

- Annotated or highlighted originals of the milestone comments will be returned with the disposition of all comments. A copy of the marked-up QC file check set(s), as well as written verification of reviews and inspection reports, is submitted to the Project Manager. Audits are performed to verify that subconsultants are adhering to quality requirements.



- The QMP will include extensive use of standard checklists for reviews at each milestone, called the Intra-Design Review and Inter-Design Review. An Intra-Design Review is performed by senior professionals in the same discipline, and an Inter-Design Review is performed by senior professionals in different disciplines to identify and resolve potential conflicts among disciplines.
- The QA review also includes drafting and electronic drawing files to check that our team’s drafting services and drawings are consistent with the City’s CADD and GIS requirements, as applicable.

SUBCONTRACTOR AND SUBCONSULTANT ACCOUNTABILITY

Our team takes quality and safety seriously, and we expect our subcontractors and subconsultants to hold the same accountability standard in their work. For every project assignment, we require each subcontractor and subconsultant to submit a Quality Plan and a Safety Plan that details how they will internally review their calculations, designs, and written reports and shows how they will protect their staff in the field. During execution, HDR’s Task Leads will perform weekly check-ins with Stoner Surveyors, HP Consultants Inc., Smith Engineering Consultants, Inc., Chen Moore and Associates, Louis Aurigemma, and Lunch! Consulting to confirm that schedule and work progress are transparent and to remain on schedule.



HP Consultants Inc.



Louis C. Aurigemma, PE



Preliminary Engineering and Design

Whether the project assigned involves water, sewer, reuse, or stormwater improvements, the major objective in the Preliminary Engineering Phase is to identify and conceptually develop solutions that meet the City’s expectations. We will employ a philosophy of “define, manage, and confirm” to meet the expectations of all stakeholders.

- **Define:** During the preliminary design phase, we will work with the City to define critical portions of the project, such as emphasis on landscape design, building architecture, hydraulic requirements, layout, process performance, and operational needs.
- **Manage:** As the design process unfolds, we will manage the project and any changes with an emphasis on maintaining stakeholder expectations to reduce compromises and control scope, schedule, and budget.
- **Confirm:** Changes resulting from design progression, project reviews, and other feedback are compared to the project expectations through discussion with the City’s Project Managers to confirm acceptance, such as changing electrical equipment sizing that affects access to critical pieces of equipment.

Our design experience with utility clients demonstrates that a clear list of specialized tasks included with each deliverable benefits the project and leads to a clear expectation for each milestone deliverable. Meeting these expectations translates to productive and engaging working meetings that maximize resources.

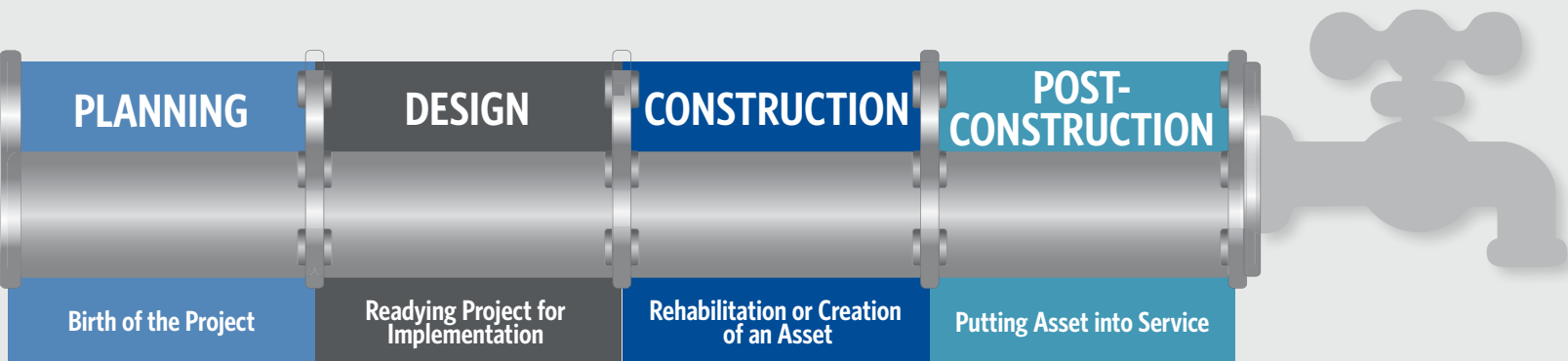


At the outset of the project, we work with you to define the anticipated design discipline drawings, specifications, calculations, and permit drawings that can be expected at each of the interim design stages. Clearly understanding expectations at the project outset has been integral in the continuity of the submittal and review process with our clients.

We have proven our ability to design projects by consistently delivering numerous challenging designs over the past several years. One of the lessons that our team has learned is to start tasks as early as possible, especially survey and geotechnical investigations. Even before the survey and geotechnical data are available; our team can begin the 30% Design and the development of the Basis of Design Report (BODR) based on as-built/record drawings and other available information.

IMPLEMENTATION PHASES

HDR’s Contract Manager will lead the team through the four phases in succession until the project is completed to ensure total satisfaction of the City. A solid project initiation or planning will set your project up for success and will lay the groundwork for all future stages.



The permitting process can also begin early in the project, with scoping and development of draft permit applications for dry-runs with City staff and the permit agencies. Our accelerated design process integrates permitting and stakeholder engagement while maintaining the project schedule.

HDR uses a holistic vision on projects to identify reasonable solutions and coordinate with the City to proceed with the best. Our approach to selecting the “best” solutions will include identifying a critical sequence of construction requirements for efficient execution of the work and selection of materials and equipment that are suitable for the application which will meet City operation and maintenance (O&M) requirements. The sequence of construction and materials will be incorporated into the final design to produce bidding documents. Using this approach for other projects has resulted in substantial cost savings for our clients as a result of obtaining the most competitive pricing available under the current market conditions at the time of bidding.

The Design Phase of the project can typically be broken into four phases: 30% Design (Preliminary), 60% Design, 90% Design, and Final Design. All drawings and specifications will be completed in accordance with City of Hollywood standards and Broward County requirements. The following summarizes the anticipated design documents prepared for each phase of design development.

HDR’s deep experience in design allows us to propose consolidating the phases of design as appropriate to fit the design scope at hand, saving the City money and time.

Design Review Workshops: HDR will conduct design review workshops at 30%, 60% and 90% design milestones to review design documents with City staff. Design documents will be submitted to the City’s review team more than ten (10) working days prior to any Design Workshop for comments.

Operability and Maintainability Reviews

HDR has led several Operation, Maintenance, and Safety (OMS) workshops for their clients’ capital improvement projects. Its purpose is to use a formalized process to incorporate the input from a client’s operators, maintenance staff, and safety personnel into the design of a project.

The OMS Workshop usually occurs once the 60% design documents and specifications are complete. It is facilitated by HDR’s experienced operations staff and includes the following types of personnel from the owner’s staff: lead facility operator(s), lead mechanical and electrical maintenance staff, lead instrument tech(s), and a safety leader.

HDR staff review the plans and key specifications with the owner’s staff. Input is captured in a formal, written technical document. The focus is on equipment, mechanical/electrical, instrumentation and controls, plant layout, and impact on

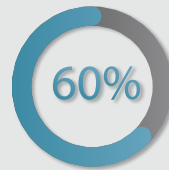
THE DESIGN PHASE

The following summarizes the anticipated design documents prepared for each phase of design development.



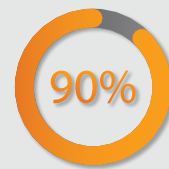
Preliminary Design (30%): Preliminary design will result in the development of a 30% design package which will include, at a minimum, the following drawings:

- Base drawings utilizing field survey data
- Preliminary Layout
- Preliminary opinion of probable construction cost
- Standard construction details
- Permitting and easement requirements based on field survey and investigation (if needed)



60% Design: Following the Preliminary Design Review meeting we will initiate the development of the detailed design package. Comments received as part of the Preliminary (30%) Design Review Workshop will be incorporated into the 60% Design documents. The 60% design package which will include, at a minimum, the following drawings:

- Site Plan
- Mechanical Plan (if applicable)
- Electrical Plan (if applicable)
- Process Plan and Structural Plan
- Erosion and sedimentation control plan and details
- Technical specifications
- Preliminary Bid Form
- Updated opinion of probable construction cost



90% Design: Comments received as part of the 60% Design Review Workshop will be incorporated into the 90% Design documents. The 90% design package will include a full set of plans, details, specifications and bid documents. It is anticipated that the 90% design package will be sufficient to permit the project.



Final Design: The 100% design package will include resolution of all review comments received from Design Review Workshops and incorporate all regulatory review comments received from Broward County or other City permitting reviews.

existing operations (both during and after construction). Each comment is documented. The technical document is then given to the design engineer and owner, and it is decided who will respond to each comment. Each comment must receive a written response. Once the responses are gathered, then a follow-up meeting is convened with the operations, maintenance, and safety personnel, as well as the design engineer and owner, to go over any questionable items. If comments are accepted, then they are incorporated into the project's design.

Benefits

OMS Workshops create a formal process for capturing and incorporating ideas and recommendations of operations, maintenance, and safety personnel into the design of a capital project. The result is a design that:

- Is safer for plant personnel.
- Contains equipment consistent with other locations, resulting in reduced spare parts inventory and better maintenance.
- Creates an atmosphere where operators and maintenance personnel can be more open with their comments and recommendations since engineers and upper management are not present.
- Creates more of a sense of ownership and buy-in from plant personnel.
- Causes less impact to existing operations during and after construction.

will build a BIM model of the impacted existing facilities to help identify possible conflicts and potential improvements to unlock capacity and improve processes. This approach will enable engaged design reviews with the operations staff using Bluebeam Revu.



Budget and Schedule Controls

HDR Project Managers use state-of-the-art tools which provide critical, real-time project information, including labor costs, expenses, staff availability and assignments, accounts receivable, quality control status, scheduling, earned value reports, and project reviews. All are available electronically on an internet-based platform. For all project assignments, we will provide the City Project Manager with a monthly Project Status Report, which will identify updated schedules as status (as appropriate), budget analysis, and projected monthly work tasks.

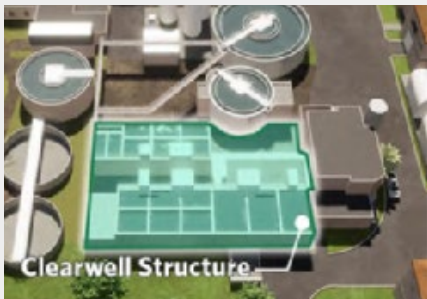
As a practice, HDR conducts internal business reviews of each project on a monthly basis. At this meeting, the project principal and Florida leadership team review project metrics with the assigned project manager, including costs to date, costs to complete, schedule status, quality control milestones, and staffing/workload status. As a result, project managers are held accountable for keeping projects within schedule and budget constraints and have the support of leadership to deliver commitments to our clients.

Specific techniques for controlling schedules, costs, and workloads are detailed in the remainder of this section.

Schedule Control

HDR Contract Manager Mario Loaiza will distill scope items into a work breakdown structure (WBS) of individual tasks and will assign each one a task leader, duration, and start date. Microsoft Project software will be used to establish the master project schedule in accordance with the WBS so cost, schedule, and responsibility can be integrated into each work element for budgeting and monitoring purposes. Detailed Task Breakdowns, including hours per task, provide a straightforward means of tracking the progress of the total scope and budget as well as the budget for each individual task. They also provide essential information necessary for determining the project's critical path and reporting project status.

AUTODESK CIVIL 3D AND REVIT



HDR uses 3D models, such as this WTP example, to eliminate design conflicts and allow for more impactful input during design from operations and maintenance staff

Building Information Modeling (BIM):

HDR utilizes industry-leading design technology, including Building Information Modeling (BIM), to aid in our planning, design, and construction management efforts. For data collection, our team may supplement existing as-built information with a combination of topographic survey, terrestrial LiDAR scanning (laser 3D scanning), and subsurface utility engineering (SUE). We will then create a "digital twin" of your facility utilizing AutoDesk Civil 3D and Revit. The nominal investment in creating a model will pay forward into design delivery and schedule efficiencies. Our design team

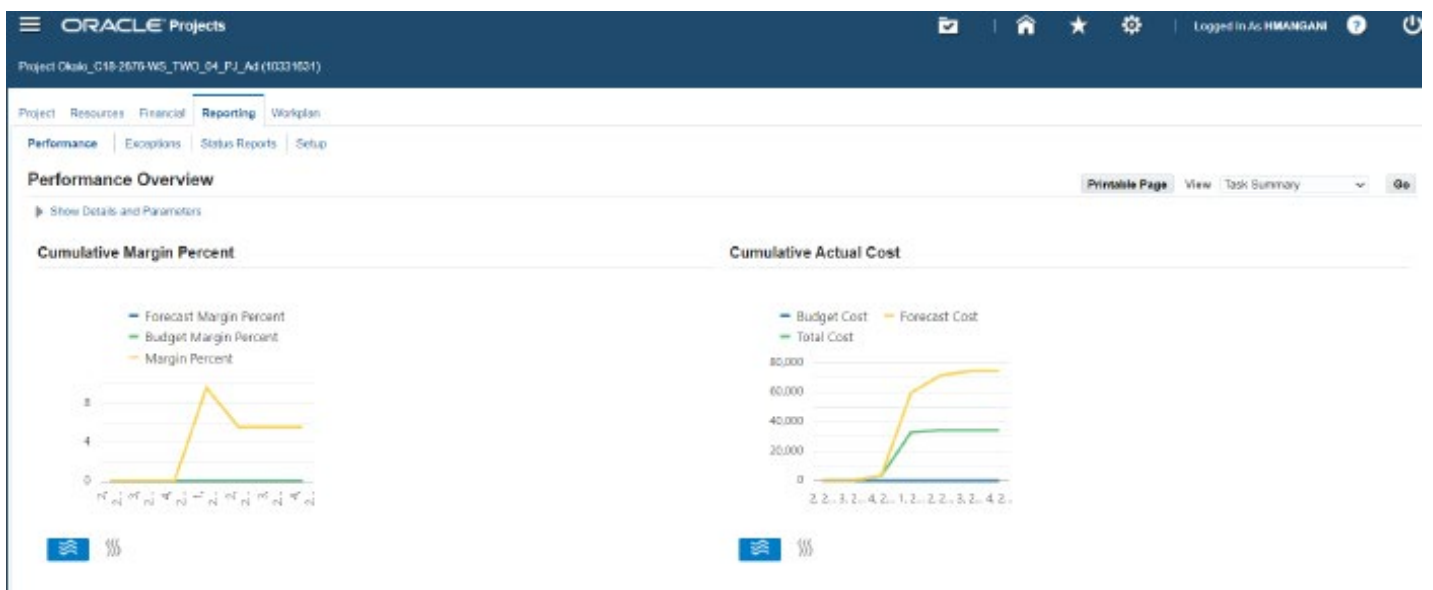
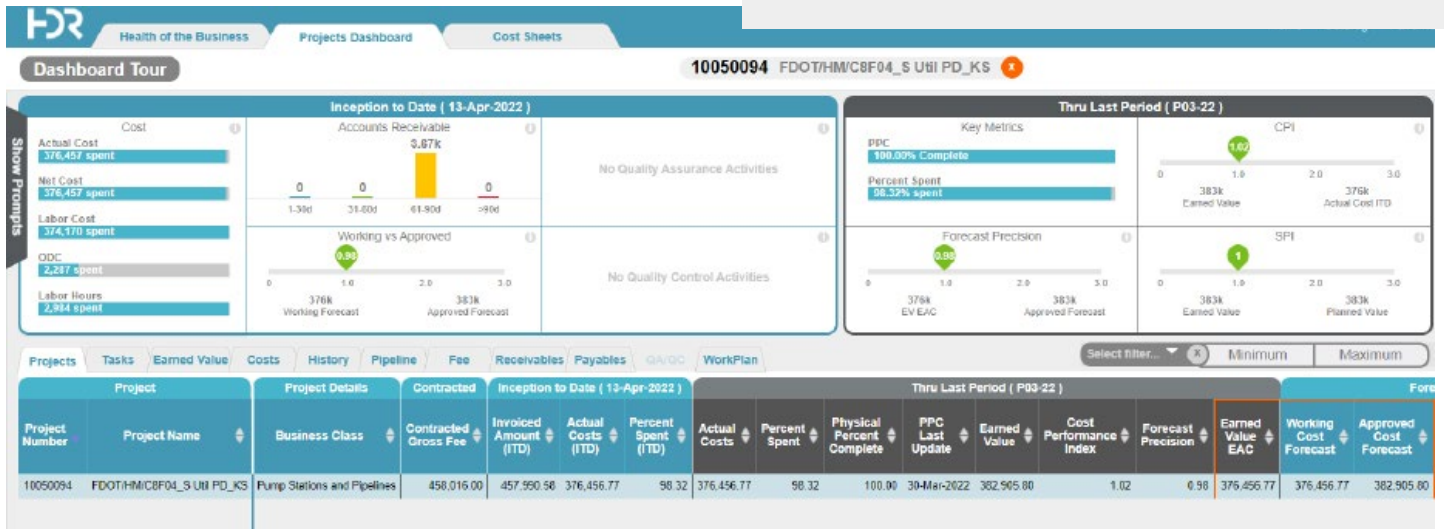
Once this critical baseline path schedule is verified, Mario will update the status of each task monthly. This current schedule will be submitted to the City's Project Manager as part of the monthly invoice package.

As the overall contract manager, Mario Loaiza will coordinate with individual task leaders to confirm that project tasks and assignments are progressing on schedule.

Cost Control

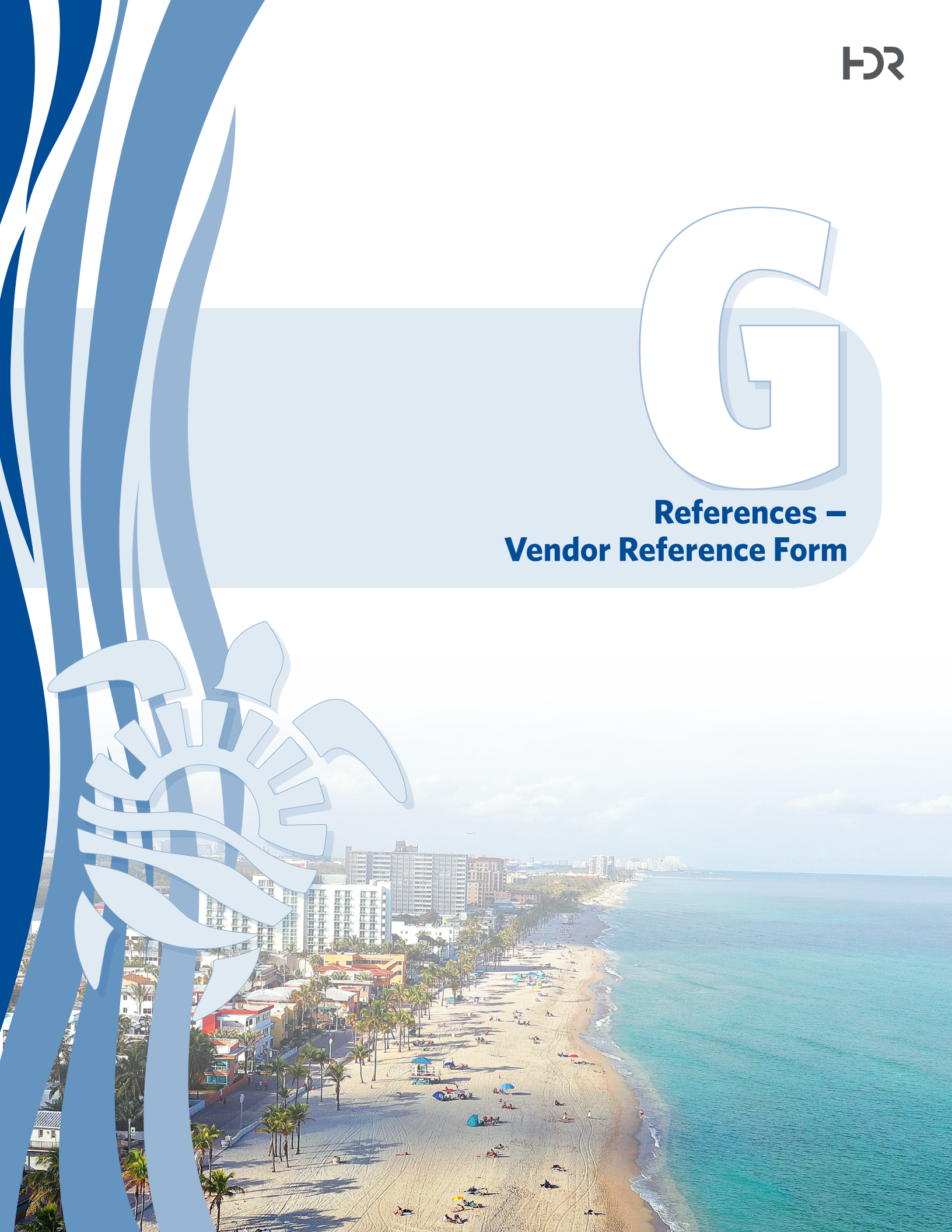
HDR uses Oracle E-Business Suite software, as depicted in the graphic below, to track all project costs (labor and expenses) on a task and subtask level. Timesheet and expense report data are automatically integrated into this system weekly. As a result, the HDR Project Principal, Katie Duty, will have real-time access to all cost data associated with this project on an easy-to-monitor dashboard. Given this timely data, Mario can quickly adjust the staffing mix, individual workload assignments, and pace of delivery to keep the project progressing within the budgeted spending rate.

Oracle E-Business Suite software monitors budget and schedule



A large, white, stylized letter 'G' with a blue outline, set against a light blue circular background.

**References –
Vendor Reference Form**





VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ - 042-23-JJ
 Reference for: HDR Engineering, Inc.

Organization/Firm Name providing reference: Miami-Dade Water and Sewer Department (WASD)

Organization/Firm Contact Name: Francisco Martínez, PE, MBA Title: Assistant Director, Operations
 Email: Francisco.Martinez2@miamidade.gov Phone: 786.552.8786
 Name of Referenced Project: Alexander Orr, Jr. WTP Contract No: _____
 Date Services were provided: Rehabilitation & Replacement Project Amount: Consultant Fee \$11 M
11/2014 - Ongoing
 Referenced Vendor's role in Project: Prime Vendor Subcontractor/
 Would you use the Vendor again? Yes No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
 HDR has provided process optimization, efficiency, operational improvement, and regulatory compliance consulting to the MDWASD under a multi-year contract for R&R improvements for the facility. Under this contract, HDR has successfully completed or is currently engaged in delivering numerous projects, or task authorizations, to address infrastructure needs of the plant.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):
 HDR was selected to assist on the management of capital programs at Alex Orr WTP & associated facilities. I have been working with them for this program over the last 2-3 yrs.

******THIS SECTION FOR CITY USE ONLY******

Verified via:	Email:	<input type="checkbox"/>	Verbal:	<input type="checkbox"/>	Mail:	<input type="checkbox"/>
Verified by:	Name:		Title:			
	Department:		Date:			



VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ - 042-23-JJ
 Reference for: HDR Engineering, Inc.

Organization/Firm Name providing reference: City of Fort Lauderdale

Organization/Firm Contact
 Name: Rares Petrica Title: Senior Project Manager
 Email: RPetrica@fortlauderdale.gov Phone: 954.628.6720
 Name of Referenced Project: Stormwater Master Plan Contract No: 256-11660
 Date Services were provided: 2016 - Present Project Amount: Consultant Fee \$3.4M

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):
 HDR was selected, as a subconsultant, to provide professional services related to a continuing contract for stormwater master plan modeling and design implementation services . The City's Stormwater Master Plan addressed chronic flooding and other stormwater management issues, including long-term issues related to sea level rise.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):
*Knowledgeable staff and prompt with deliverables.
 Highly recommended.*

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email: <input type="checkbox"/>	Verbal: <input type="checkbox"/>	Mail: <input type="checkbox"/>			
Verified by:	Name:			Title:		
	Department:			Date:		



VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ - 042-23-JJ
Reference for: HDR Engineering, Inc.

Organization/Firm Name providing reference: Monroe County BOCC

Organization/Firm Contact
Name: Rhonda Haag **Title:** Chief Resilience Officer
Email: Haag-Rhonda@monroecounty-fl.gov **Phone:** 305.395.9928
Name of Referenced Project: Infrastructure Vulnerability **Contract No:** _____
Date Services were provided: Analysis & Capital Plan **Project**
2019 - Present **Amount:** Consultant Fee \$1.9M
Referenced Vendor's role in Project: **Prime Vendor** **Subcontractor/ Subconsultant**
Would you use the Vendor again? **Yes** **NO. Please specify in additional comments**

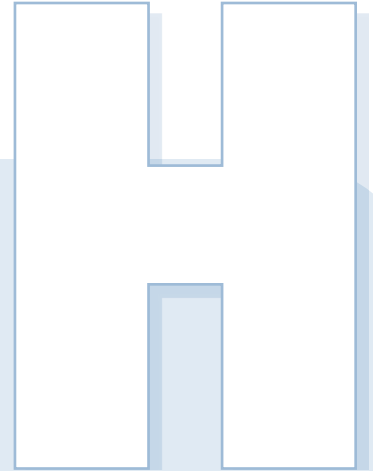
Description of services provided by Vendor (provide additional sheet if necessary):
 HDR was selected, as a subconsultant, to provide professional services related to a continuing contract for stormwater master plan modeling and design implementation services . The City's Stormwater Master Plan addressed chronic flooding and other stormwater management issues, including long-term issues related to sea level rise.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):

Signature: Rhonda Haag Digitally signed by Rhonda Haag
 Date: 2023.02.22 08:20:43 -05'00'

****THIS SECTION FOR CITY USE ONLY****					
Verified via:	Email:	<input type="checkbox"/>	Verbal:	<input type="checkbox"/>	Mail: <input type="checkbox"/>
Verified by:	Name:		Title:		
	Department:		Date:		



**Sub Consultant
Information**



Subconsultant Information

Our locally based and multi-disciplinary team of competent, experienced professionals and depth of resources demonstrate our ability to offer various services required under this contract. Team members and subconsultant partners were assembled based on our collective experience working with each other, individual expertise and capabilities, and availability.

HDR and our subconsultants have worked on similar projects in South Florida, providing responsive project execution, innovative strategies, and a collaborative team environment. HDR is firmly committed to implementing an integrated and effective program that utilizes certified, qualified minority, women-owned, disadvantaged, and small business enterprise firms to serve our client and project needs and deliver superior services. We are dedicated to maximizing opportunities for these firms at all levels in this project and the subsequent program to allow for significant participation and development of individual and firm capabilities.

HP Consultants Inc.

SERVICES

Geotechnical

ADDRESS

10220 SW 107th Street
 Miami, Florida 33176

LITIGATION HISTORY

HP Consultants Inc. provided litigation statement on page 50.

HP Consultants Inc. (HPCI) is a small, dynamic engineering consulting firm with offices in Miami and Lauderdale, Florida. It provides a full range of geotechnical services- from onshore and offshore drilling to design and construction recommendations, field inspections and problem solving. Its expertise covers almost the entire spectrum of geotechnical structures: shallow, deep and specialty foundations for office, public, and industrial buildings, skyscrapers, and bridges; rigid, flexible, anchored, reinforced earth and other specialty walls for inland and water-front structures; slopes, embankments, and micro-tunnels; pipelines, roads, and highways; and electrical systems and ITS infrastructure.



SERVICES

Survey/SUE

ADDRESS

4341 S.W. 62nd Avenue
 Davie, FL 33314

LITIGATION HISTORY

Stoner & Associates, Inc. does not have any litigation history.

Stoner & Associates, Inc. is a professional land surveying consultant founded in September of 1988 by James D. Stoner, PSM. Stoner & Associates, Inc. provides professional services to numerous municipalities, including, Broward County Aviation Department, South Florida Water Management District, Broward College, Town of Davie, City of Fort Lauderdale, and City of Sunrise and numerous governmental agencies and private clients within the Tri-County Area.



SERVICES

Electrical

ADDRESS

2161 Palm Beach Lakes Blvd.
 Suite 312
 West Palm Beach, FL 33409

LITIGATION HISTORY

Smith Engineering Consultant, Inc. does not have any litigation history.

Smith Engineering Consultants, Inc. (SEC) is an electrical engineering firm with a niche for providing professional services on civil engineering projects. Their experienced staff have in-depth knowledge of energy, water, telecommunications, transportation and architectural projects.



SERVICES

Trenchless Utility Design

ADDRESS

500 West Cypress Creek Rd
 Suite 630
 Fort Lauderdale, FL 33309

LITIGATION HISTORY

CMA has not had any current/pending or past litigation/arbitration in the last five (5) years.

Founded in 1986, Chen Moore and Associates (CMA) specializes in civil engineering, water resources, water and sewer, landscape architecture, electrical engineering, transportation, planning and irrigation, environmental and construction engineering services.

Louis C. Aurigemma, PE

SERVICES

Utility Management

ADDRESS

2638 Lincoln St.
 Hollywood, FL 33020

LITIGATION HISTORY

Louis Aurigemma. does not have any litigation history.

Civil Engineering Consultant offering professional services to public sector and private clients in the fields of planning, design, operations, and construction administration. Certified Small Business Enterprise (SBE/CBE) in Broward County, Florida.



SERVICES

Resilience Specialist

ADDRESS

914 E. Jefferson St.
 Suite G4
 Charlottesville VA 22902

LITIGATION HISTORY

Launch! Consulting does not have any litigation history.

Launch! Consulting is a small, women-owned business that employs engineering, physical security, and cyber security experts highly skilled in risk and resilience work. They also have a team of specialists who work in the human resilience field, including team building and staff resilience for a more effective work environment.

Stoner & Associates, Inc. - Resume



4341 S.W. 62nd Avenue, Davie, Florida 33314
T: (954) 585-0997 • F: (954) 585-3927 • www.stonersurveyors.com

James D. Stoner, P.S.M.
President

Professional Profile

Mr. Stoner is a second generation Land Surveyor, with over forty years of surveying experience in South Florida. He began his surveying career at Williams, Hatfield, & Stoner, Inc. working from the bottom as a Rodman, all the way up to Vice President of the Surveying Department.

Mr. Stoner founded Stoner & Associates, Inc. in 1988, based on the philosophy that attention to detail and quality work would create a successful firm. He manages all aspects of the firm's growth and development.

Mr. Stoner has supervised both small and large scale surveying projects. His firm has successfully completed numerous roadway and other various projects, while working directly with the clients and consultants.



Education

Associates of Science in Land Surveying
Palm Beach Community College in 1979

Professional Registrations

State of Florida Professional Surveyor and Mapper
License Number LS4039

Professional Affiliations

Florida Surveying and Mapping Society
Florida Surveying and Mapping Society – Broward Chapter
American Congress on Surveying and Mapping
Leadership Broward



Stoner & Associates, Inc. - License & Certification



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
800HELPLFLA(435-7352) or (850) 488-2221

January 13, 2023

JAMES D STONER
4341 SW 62ND AVE
DAVIE, FL 33314-3426

SUBJECT: Professional Surveyor and Mapper License # LS4039

Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2025.

You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here



Florida Department of Agriculture and Consumer Services
Board of Professional Surveyors and Mappers

LS4039

Professional Surveyor and Mapper
JAMES D STONER

IS LICENSED under the provisions of Ch. 472 FS
Expiration date: February 28, 2025

Detach Here



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LS4039

Expiration Date February 28, 2025

Professional Surveyor and Mapper License

Under the provisions of

JAMES D STONER
4341 SW 62ND AVE
DAVIE, FL 33314-3426



HP Consultants Inc. - Resume

Arvind S. Kumbhojkar, Ph.D., P.E., F. ASCE, D. GE

LICENSURE

Professional Engineer, State of Florida 1989

EDUCATION

- State University of NY at Buffalo, Buffalo, NY Ph.D. (Civil Engineering) 1987
- Rensselaer Polytechnic Institute, Troy, NY M.S. (Civil Engineering) 1982
- Walchand College of Engineering, Sangli, India B.E. (Civil Engineering) 1974

EXPERIENCE

Dr. Kumbhojkar has 20+ years of experience in Civil, Geotechnical, Transportation, Value and Forensic Engineering, Intelligent Transportation Systems, and Construction, and Program Management. He was previously Vice President of Traffic Engineering and Transportation Planning with Hughes Hughes Inc. in Ft. Lauderdale, Fl., Geotechnical Manager, Professional Service Industries, for its Miami and Ft. Lauderdale Offices, Deputy Traffic Operations Engineer, FDOT D-6 in Miami, Fl., with additional responsibilities as ITS Administrator/ SunGuide Coordinator for SE Florida. Earlier He led geotechnical engineering faculty at the Civil & Arch. Engineering Dept. at the University of Miami, Fl.

HONORS

- Diplomate, Geotechnical Engineer, American Society of Civil Engineering, 2010
- Fellow, American Society of Civil Engineering, 2009

PAST AND PRESENT MEMBERSHIPS:

- Member, Technical Committee on Shallow Foundations, Geo Institute, ASCE,
- Member, Technical Committee on Earth Retaining Structures, Geo Institute ASCE
- Former Member, Load Resistance Factor Design Task Force, ASCE, Geo Institute
- Former Member, Technical Committee on Applications of Emerging Technologies, A2F09, National Research Council, Transportation Research Board (TRB).
- Former Member, Technical Committee on Soil and Rock Instrumentation, A2K01, National Research Council, Transportation Research Board.
- Former Member, Water and Sewage Technical Committee on Lifeline Earthquake Engineering, American Society of Civil Engineers
- Former Member, Intermodal Task force, ITS America

PRESENTATIONS, PUBLIC OUTREACH AND TECHNOLOGY TRANSFER:

Organized and chaired sessions and presented papers in international conferences. Given numerous invited seminars at universities, conferences, and meetings of professional and civic bodies and interviews to TV news, newspapers, and magazines.

PUBLICATIONS:

More than 30 publications- technical papers in the Journals and publications of ASCE, ASTM, Canadian Society of Civil Engineers, ITE; proceedings of international conferences and research reports are to his credit.



HP Consultants Inc. - License & Certification

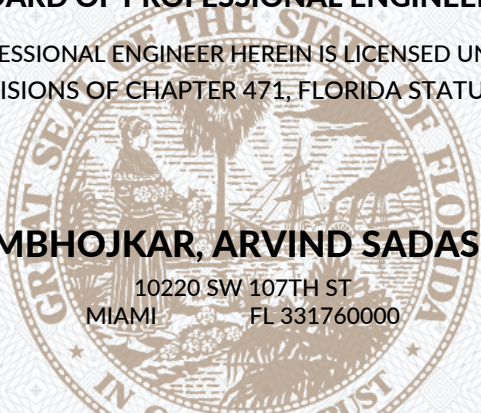
Ron DeSantis, Governor

Melanie S. Griffin, Secretary

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



KUMBHOJKAR, ARVIND SADASHIV

10220 SW 107TH ST
MIAMI FL 331760000

LICENSE NUMBER: PE41067

EXPIRATION DATE: FEBRUARY 28, 2025

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

State of Florida

Minority Business Certification

HP Consultants Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
08/17/2021 to 08/17/2023



Jonathan R. Satter, Secretary
Florida Department of Management Services

Office of Supplier Diversity
4050 Esplanade Way, Suite 380
Tallahassee, FL 32399
850-487-0915
www.dms.myflorida.com/osd

HP Consultants Inc.

• Civil • CEI & CSS • Geotechnical • ITS & Transportation

• 10220 SW 107 St., Miami, Fl. 33176 • 305.596.2857
• 4444 Inverrary Blvd, Lauderhill, Fl. 33319 • 954.278.6386

hpconsultantsinc@earthlink.net

February 21, 2023

Jean Joinville
Senior Purchasing Agent
City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33020-4807

Sub: Litigation history


Dear Ms. Joinville:

This is to declare that we do not have litigation history ever since our inception in 2002.

Please contact us if you have any questions.

Thank you.

Sincerely,



A.S. Kumbhojkar, Ph.D., P.E., F. ASCE
President and Principal Engineer

Smith Engineering Consultants, Inc. - Resumes

Larry M. Smith, P.E.
Principal Electrical Engineer



Fort Lauderdale, Florida

(954) 590-0488

(561) 818-3600

Larry@SmithEngineeringConsultants.com

Professional Profile

Larry has over 30 years of experience as an electrical engineer in the areas of electric utilities, water and wastewater utilities, solid waste, water control structures and pump stations, airport electrical systems, architectural projects, telecommunications, roadway, sports field, and specialty lighting. He demonstrates skills in engineering and design, project management, client relations, and staff administration.

Software Skills

AutoCAD, MicroStation AGI32 and Microsoft Office.

Education

BS - Electrical Engineering, Florida Atlantic University, 1987

Post Graduate Research - Electrical Engineering (Telecommunications), Florida Atlantic University, 1987-1988

Licenses/Certifications

Florida P.E. No. 45997
North Carolina P.E. No. 033663
Technical Assistance Analyst, Florida No. T-0828

Awards

Florida Engineering Society,
Outstanding Service to the
Profession 2010-2011

Florida Engineering Society,
Engineer of the Year 2007 - 2008

Professional Societies

Florida Engineering Society, State
President 2017-2018

Institute of Transportation
Engineers, Gold Coast Chapter

American Society of Civil Engineers,
Palm Beach Chapter

Years with SEC:

21

Years of Experience:

31

Project Experience

City of West Palm Beach Lift Station SCADA Upgrade - Larry is the EOR for the replacement of the City's existing base station and RTUs that serve over 100 lift stations throughout the City of West Palm Beach. The existing SCADA system was comprised of several different types of RTUs along with proprietary base station software that was not able to accommodate RTUs with an open communications protocol. Therefore SEC specified a new base station, including both system hardware and software, to allow different types of RTUs to be installed in the field that previously would not have been able to communicate with the base station. We also specified the new RTUs to replace those at the lift stations that were aging and in need of replacement. This new SCADA system provided the necessary flexibility that helped the City to save operating and maintenance costs by allowing for non-proprietary, lower cost RTUs to be installed throughout their service territory.

Palm Beach County, Lift Stations - Larry Smith designed the SCADA/telemetry system improvements for 80 lift stations throughout Palm Beach County's service area. New remote terminal units (RTU's), including associated antenna towers, were added to provide remote status reporting to the central monitoring location. New pump control panels were designed to replace those that were in poor condition. New level transducers and PLC's were provided for modernized pump control. Radio surveys were performed at all 80 sites to provide the County with additional data in order to better understand the limits of their lift station communication ranges.

City of Sunrise, Sawgrass WTP Improvements - Larry Smith designed the electrical systems for miscellaneous improvements to the City's existing water treatment plant. This included the electrical power distribution, controls, and instrumentation. Four (4) existing transfer pumps at the clearwell were upgraded with larger motors. Two (2) of the pumps received new reduced voltage starters and the other two (2) new variable frequency drives (VFD's). Other improvements included new metering pumps for the sodium hypochlorite, the replacement of three (3) concentrate booster pumps/ motors, a new air compressor, and the removal of the existing ozone generator.

City of Lake Worth, Master Pump Station - Larry Smith performed the electrical design, including power, controls, instrumentation and telemetry, for the conversion of the existing wetwell pump station to an in-line booster station. Variable frequency drives (VFD's) were used to match the varying wastewater flow into and out of the pump station. An upgraded telemetry system was designed to replace the existing, aging system, and to provide control and status reporting to the existing central station.

Town of Jupiter Utilities - Larry Smith has worked with the Town of Jupiter on several of their recent utilities projects. He has successfully resolved power quality issues within the Nano-filtration Plant. He has made improvements to the existing high service pumps by designing new variable frequency drives (VFD's) to replace existing reduced-voltage motor starters. Also, recently Larry Smith designed the electrical systems for new and replacement surficial aquifer wells, which included 4,160V power distribution. Larry has personally worked on numerous projects for the Town of Jupiter Utilities department for nearly 30 years.

Luther E. Fair, P.E.
Senior Electrical Engineer



**Smith Engineering
Consultants, Inc.**

Fort Lauderdale, Florida
(954) 590-0488
(352) 226-6970
Luther@SmithEngineeringConsultants.com

Professional Profile

Luther has extensive experience as an electrical engineer. He spent most of his career climbing the ladder in various positions at Florida Power & Light. There he gained an unparalleled understanding of electrical systems across various types of civil infrastructure. Luther not only has an acute knowledge of his field, he also possesses an aptitude for leadership and efficient project management. Because of his knowledge, ability and experience Luther implements value engineering in his work and instills wisdom in his colleagues.

Software Skills

AutoCAD, MicroStation and Microsoft Office

Education

BS - Electrical Engineering University of Tennessee - Knoxville, TN, 1972

Licenses/Certifications

P.E. 24633

Professional Societies

Institute of Electrical and Electronics Engineers, Life Member

Years with SEC:

5

Years of Experience:

40+

Sample Project Experience

Wastewater Treatment Facilities

Palm Beach County Water Utilities District SRWRF-Hagen Ranch Rd. Facilities Condition Assessment - *Electrical Engineer* responsible for the data gathering, evaluation, and report generation justifying the replacement of electrical equipment in 11 buildings at the South Regional Water Reclamation Facility (SRWRF).

Palm Beach County Water Utilities District SRWRF-Hagen Ranch Rd. Facilities Master Plan - *Electrical Engineer* responsible for the data gathering, evaluation, and report generation for justifying new electrical facilities to handle the 2200 kW of electrical demand being added to the existing 3700 kW. Also provided a time line shown in this Facilities Master Electrical Plan.

Palm Beach County Water Utilities District WWTP Facility Facilities Condition Assessment - *Belle Glade & Pahokee Facilities, Electrical Engineer* responsible for both locations data gathering, evaluation, and report generation justifying the replacement of electrical equipment in 13 buildings at a cost estimate of \$745,000

Palm Beach County Water Utilities District, North West Regional WWTP - *Electrical Engineer* responsible for both locations data gathering, evaluation, and report generation justifying the replacement of electrical equipment

Stormwater and Surface Water Management

SFWMD C43-West Basin Reservoir S-470 Pump Station - *Electrical Engineer* responsible design of Power, Lighting, and Instrumentation for 12 gate structures and for the Dam monitoring. Designed 5kv and below Power, Lighting, and Instrumentation/SCADA for pump station consisting of (4) four 2500HP, 5KV pumps.

SFWMD C43-West Basin Reservoir - *Electrical Engineer* responsible for the Electrical Design and Instrumentation application for 10 gate structures to manage water level in the Calooshattee River. Coordinated with geotechnical team to place 338 piezometers and 64 RTUs along the dam and Townsend Canal to monitor the dam's integrity. This project represents the largest project letting ever from the SFWMD.

City of Fort Lauderdale, Fort Lauderdale Executive Airport Pump Station Improvements - Responsible for the Electrical Design and Instrumentation application for the upgrading of Variable Frequency Drives(VFDs) for 3-1800 HP motors

Solid Waste System Infrastructure

Solid Waste Authority of Palm Beach County - Arc Flash Study - *Electrical Engineer* responsible for the data gathering, evaluation, and report generation for update to the Site 7 Facilities Arc Flash Study involving 2- 13kV and 25 - 5kV transformers, and 8 - 5kV switchgears.

Smith Engineering Consultants, Inc. - Licenses

State of Florida Department of State

I certify from the records of this office that SMITH ENGINEERING CONSULTANTS, INC. is a corporation organized under the laws of the State of Florida, filed on June 3, 1999, effective June 1, 1999.


The document number of this corporation is P99000049883.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 18, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eighteenth day of January, 2023




 Secretary of State

Tracking Number: 1119970533CC
 To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Ron DeSantis, Governor Melanie S. Griffin, Secretary


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

SMITH, LARRY MICHAEL
 2161 PALM BEACH LAKES BLVD
 SUITE 312
 WEST PALM BEACH FL 33409

LICENSE NUMBER: PE45997
EXPIRATION DATE: FEBRUARY 28, 2025
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Ron DeSantis, Governor Melanie S. Griffin, Secretary


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS


THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

FAIR, LUTHER EARL JR
 7075 SE TWIN OAKS CIRCLE
 STUART FL 34997

LICENSE NUMBER: PE24633
EXPIRATION DATE: FEBRUARY 28, 2025
 Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor Halsey Beshears, Secretary




STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

SMITH ENGINEERING CONSULTANTS, INC.
 2161 PALM BEACH LAKES BOULEVARD
 SUITE 312
 WEST PALM BEACH FL 33409

LICENSE NUMBER: CA8228
EXPIRATION DATE: FEBRUARY 28, 2021
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Louis Aurigemma, PE - Resume

LOUIS C. AURIGEMMA, P.E.

louaurigemma@yahoo.com

Hollywood, Florida 33020

Cell Phone: +1.954.303.4179

Professional Profile:


A seasoned professional with over 40 years of Civil Engineering experience, 30 of those years being within local governments in the South Florida area. A respected leader with excellent communication and negotiation skills. Core Values of Customer Focus, Leadership, Communication, Teamwork, Sustainability, Resiliency, Empowered Employees and Continuous Improvement are key to quality organizations. Experience includes engineering design, management and operation of large-scale public utility programs as well as design and project management with consulting engineering firms. Served on more than 100 technical evaluation committees selecting quality-based Engineering Consultants for projects ranging from \$100,000 to \$750,000,000.

Career History - Synopsis:


Engineering Consultant	Louis C. Aurigemma, P.E.	June 1, 2016 to Present
Executive Director, Utility Special District	City of Riviera Beach, FL	December 2010 to April 2016
Director of Civil Engineering	Keith and Schnars, P.A. Fort Lauderdale, FL	April 2007 to April 2010
SE Regional Manager/ Senior Associate	Nielsen-Wurster Group Fort Lauderdale, FL	March 2005 to March 2007
City Engineer/ Assistant Public Works Director	City of Coral Springs, FL	April 1998 to February 2005
Utilities Operation Manager		May 1994 to April 1998
Assistant City Engineer		January 1986 to May 1994
Civil Engineer	City of Fort Lauderdale, FL	January 1981 to January 1986
Assistant Project Engineer	Design Development Group Cheshire, Connecticut	May 1977 to December 1980

Education: UNIVERSITY OF NEW HAVEN (CT), Bachelor of Science in Civil Engineering, 1978

Louis Aurigemma, PE - Licenses



Ron DeSantis, Governor



Melanie S. Griffin, Secretary

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS


THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

AURIGEMMA, LOUIS C
2638 LINCOLN ST
HOLLYWOOD FL 33020-3830

LICENSE NUMBER: PE31896

EXPIRATION DATE: FEBRUARY 28, 2025

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Chen Moore and Associates, Inc. - Resume

Daniel Davila, P.E.
Principal Engineer

Hire Date: 06/13/2011
Years with other firms: 12

Education

Bachelor of Science, Civil Engineering, University of Florida, 2000

Registration

Professional Engineer, Florida, 63014, 2005

Professional Affiliations

American Academy of Environmental Engineers
American Society of Civil Engineers
Design-Build Institute of America
Florida Engineering Leadership Institute
Florida Engineering Society
Florida Healthcare Engineers Association

Certifications

Survey Technician
HDD Academy - Arizona State University
PACP, LACP, MACP NASSCO Certification Program
Stormwater Management Inspector

Mr. Davila serves as Director of Water and Sewer for CMA's engineering team with over 23 years of experience. He has extensive experience designing a variety of water and wastewater facilities, utilities master planning, and has worked on thousands of linear feet of water and sewer utility infrastructure replacement projects. He has served as project manager, Engineer of Record, or Senior Engineer for more than 40 HDD projects, including thousands of linear feet of watermain and force main projects that range from 6" in diameter up to 54" transmission lines, as well as for the design of several intracoastal crossings that range from 14" to 48" in diameter. Mr. Davila is an expert on Trenchless technologies having worked on dozens of horizontal directional drills (HDD), pipe bursting and swagelining projects in Florida, Central America, and the Caribbean. He has experience on numerous private and public clients that range from residential developers, industrial developers, municipalities, federal agencies, hospitals, universities, and educational institutions.

Project Experience

Emergency Bypass 48" Forcemain, City of Fort Lauderdale, FL. CMA was responsible for the design, permitting, and construction observation of the City's main transmission line going into the wastewater treatment plant. The new 48-inch line consists of more than 22,000 linear feet of new pipe which will be installed via 11 horizontal directional drills (HDD) that range between 1,200 and 3,400 linear feet each to a depth of up to 60 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project crossed County and FDOT roadways, busy intersections and the intracoastal waterway which required US Army Corps of Engineers and the Department of Environmental Protection permitting. The project was fast-tracked and it took 18 months to complete from initial NTP to design, permitting and construction.

30-inch Forcemain Rehabilitation, HDD & Swageline (1-4), Fort Lauderdale, FL. CMA was responsible for the design, permitting, and construction administration services for the construction and rehabilitation of one of the main sewage transmission lines for Fort Lauderdale. This fast-tracked project was divided into four (4) phases and included nearly 22,000 linear feet of new pipe through a combination of swagelining, horizontal directional drilling, and traditional open cut installation. The project was constructed near downtown fort Lauderdale and included a subaqueous crossing under the Tarpon River. The project was fast-tracked and it took 9 months to complete from initial NTP to design, permitting and construction.

Pump Station B-4 Redundant Forcemain, Fort Lauderdale, FL. CMA was the lead engineer for the Design/Build of the Pump Station b-4 Redundant Forcemain for the City of Fort Lauderdale. The forcemain was an important part of the City's back bone sewer system that carries water to the wastewater treatment facility. The project entails the design, permitting and CEI of approximately 5,400 linear feet of 30-inch HDPE forcemain. The project was fast-tracked and it entailed three horizontal directional drills with 90% of the project to be trenchless. The completed project from design to construction was completed in 6 months.

David Castro, P.E.
Senior Engineer

Hire Date: 09/15/2017
Years with other firms: 3

Education

Bachelor of Science, Civil
Engineering, University of
Puerto Rico, 2014

Registration

Professional Engineer,
Puerto Rico, 27186, 2017
Engineer In Training, Florida,
1100021596
Professional Engineer,
Florida, 85558, 2018

Professional Affiliations

American Society of Civil
Engineers

Certifications

HDD Academy – Arizona
State University

David Castro, P.E. is a Senior Engineer for CMA's engineering team and has extensive project experience with the design and permitting of drainage and sanitary sewer improvements along with the associated construction oversight. In addition, he conducted several studies that included directional engineering analysis for trenchless pipeline installations, river analysis, storm sewer design, flood analysis, erosion control, hydrologic and hydraulic studies, and irrigation studies. Mr. Castro expertise in HDD includes several drills under the ICW, railroads and roadways, and include HDPE and steel pipe.

Project Experience

Emergency Bypass 48" Forcemain, City of Fort Lauderdale, FL. CMA was responsible for the design, permitting, and construction observation of the City's main transmission line going into the wastewater treatment plant. The new 48-inch line consists of more than 22,000 linear feet of new pipe which will be installed via 11 horizontal directional drills (HDD) that range between 1,200 and 3,400 linear feet each to a depth of up to 60 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project crossed County and FDOT roadways, busy intersections and the intracoastal waterway which required US Army Corps of Engineers and the Department of Environmental Protection permitting. The project was fast-tracked and it took 18 months to complete from initial NTP to design, permitting and construction.

30-inch Forcemain Rehabilitation, HDD & Swageline (1-4), Fort Lauderdale, FL. CMA was responsible for the design, permitting, and construction administration services for the construction and rehabilitation of one of the main sewage transmission lines for Fort Lauderdale. This fast-tracked project was divided into four (4) phases and included nearly 22,000 linear feet of new pipe through a combination of swagelining, horizontal directional drilling, and traditional open cut installation. The project was constructed near downtown fort Lauderdale and included a subaqueous crossing under the Tarpon River. The project was fast-tracked and it took 9 months to complete from initial NTP to design, permitting and construction.

Pump Station B-4 Redundant Forcemain, Fort Lauderdale, FL. CMA was the lead engineer for the Design/Build of the Pump Station b-4 Redundant Forcemain for the City of Fort Lauderdale. The forcemain was an important part of the City's back bone sewer system that carries water to the wastewater treatment facility. The project entails the design, permitting and CEI of approximately 5,400 linear feet of 30-inch HDPE forcemain. The project was fast-tracked and it entailed three horizontal directional drills with 90% of the project to be trenchless. The completed project from design to construction was completed in 6 months.

24-Forcemain Lift Station #11, Wilton Manors, FL. Mr. Castro is the EOR and Project Manager for the design, permitting and CEI services for this 4,100 linear feet 24-inch forcemain for the City of Wilton Manors. The forcemain is routed through busy residential streets and business areas in Wilton Manors and it requires the crossing of a river. One of the crossings requires the design of a complex horizontal directional drill (HDD) compound curve that is limited by the available space between the bridge piles and the existing right-of-way. The project is approximately 90% trenchless with most of it installed via HDD utilizing. A total of three drills (reverse curves) were planned to accommodate the right-of-way geometry.



Chen Moore and Associates, Inc. - License

State of Florida Department of State

I certify from the records of this office that CHEN MOORE AND ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on November 7, 1986.

The document number of this corporation is J41454.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 8, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eighth day of January, 2023



[Signature]
 Secretary of State

Tracking Number: 9659426566CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
 VALID OCTOBER 1, 2022 THROUGH SEPTEMBER 30, 2023

DBA: CHEN MOORE AND ASSOCIATES INC
 Business Name: CHEN MOORE AND ASSOCIATES INC
 Owner Name: BEN CHEN
 Business Location: 500 W CYPRESS CREEK RD STE 630 FT LAUDERDALE
 Business Phone: 954-730-0707
 Receipt #: 319-239935
 Business Type: ALL OTHERS (LANDSCAPE ARCHITECT)
 Business Opened: 03/15/2011
 State/County/Cert/Reg: LC26000425
 Exemption Code:

Rooms: Seats: Employees: 5 Machines: Professionals:

For Vending Business Only					Vending Type:		Total Paid
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost		
30.00	0.00	0.00	0.00	0.00	0.00	30.00	

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
 CHEN MOORE AND ASSOCIATES INC
 500 W CYPRESS CREEK RD STE 630
 FORT LAUDERDALE, FL 33309
 Receipt # WWW-21-00261839
 Paid 09/26/2022 30.00

2022 - 2023

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
 VALID OCTOBER 1, 2022 THROUGH SEPTEMBER 30, 2023

DBA: CHEN MOORE AND ASSOCIATES INC
 Business Name: CHEN MOORE AND ASSOCIATES INC
 Owner Name: BEN CHEN
 Business Location: 500 W CYPRESS CREEK RD STE 630 FT LAUDERDALE
 Business Phone: 954-730-0707
 Receipt #: 319-239935
 Business Type: ALL OTHERS (LANDSCAPE ARCHITECT)
 Business Opened: 03/15/2011
 State/County/Cert/Reg: LC26000425
 Exemption Code:

Rooms: Seats: Employees: 5 Machines: Professionals:

For Vending Business Only					Vending Type:		Total Paid
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost		
30.00	0.00	0.00	0.00	0.00	0.00	30.00	

Receipt # WWW-21-00261839
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Launch! Consulting - Resume



LINDA WARREN, P.E. *Resilience Specialist and Facilitator*

SUMMARY

As the Principal of Launch! Consulting (Launch) for 12 years, Linda has been at the forefront of securing Water and Wastewater Utilities since 9/11, before which she focused on source water protection (28 years of experience).

Launch, which Linda founded in 2011, is certified by the National Women Business Owners Corporation (Certification #RWBE16139) and as a Disadvantaged Business Enterprise (DBE) in three states.

Linda is a professional civil engineer and facilitator, proficient at bringing multiple stakeholders together from local, state and federal agencies to build resilient communities. She has developed emergency response plans and related documents, designed and facilitated emergency exercises, developed continuity plans, and conducted team resilience trainings for public works, utilities, and localities from Florida to Alaska. Trainings which Linda developed are used nationally.

As an adjunct instructor for Texas A&M's TEEX Program for 7 years, Linda taught four FEMA sponsored courses in disaster management, including Disaster Management for Public Works, Disaster Management for Water and Wastewater Utilities, Disaster Management for Hospitals, and Disaster Management for Electrical Utilities.

In addition to utility resilience, she leads projects for localities in climate resilience, flood resilience, grant writing, and community involvement.

She led a team of consultants to develop the Risk and Resilience Certificate Program for AWWA and is a contributing author to many emergency management standards and guidance.

Linda is an active member and former chair of the AWWA Emergency Preparedness and Security Committee. She actively contributed to many of the AWWA standards for risk and resilience, including:

PROJECT EXPERIENCE

Security/Risk Assessment, Emergency Response Plan, Continuity of Operations Plan, Broward County Water and Wastewater Services, Pompano Beach, Florida. Managed and conducted a Security/Risk Assessment for critical infrastructure improvements at the 95 MGD North Regional Wastewater Treatment Plant NRWTP in Broward County, Florida. Launch! Consulting conducted a series of workshops and field assessments (including night visits) to complete the Security/Risk Assessment. The assessment utilized the J100-10 standard for a comprehensive review of the wastewater utility with regard to both man-made and natural hazards. Included SCADA analysis of upgrades (using AWWA's Cyber Security tool).

Miami Dade County RRA for the water utility, Pandemic Plan, and ERP, Florida. Managed and conducted an RRA using the ANSI/AWWA J100 Standard. Collected data through a series of workshops, interviews, and onsite field assessments. Developed the methodology for constructing a Pandemic Plan and facilitated virtual workshops for it. Developed mitigation measures and an implementation plan. Developed the workshop series for the ERP, including quality control of the prime consultant's response plans for the water and wastewater systems.

Disaster Master Plan, Pinellas County Utilities, Florida. Designed a workshop series for participants across all utility departments to develop the disaster masterplan, a strategic planning document for emergency preparedness. Developed the document, including needs, participants, and identified plans/procedures related to emergencies.

Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP), Seminole County, Florida. In partnership with the prime consultant, conducted an RRA using J100 for the water and wastewater systems, including treatment facilities. The water and wastewater RRA included water system threats, critical assets, risks to the system, and mitigation measures to lower risks. Results of the RRA were documented in a report with critical asset summaries and an implementation plan for mitigation measures. ERP development included workshops and a training exercise.

Risk and Resilience Assessment and Emergency Response Plan, Village of Wellington, Florida. Designed and managed the RRA using J100. Conducted data collection through workshops, field assessments, and group calls. Included analysis of threats and critical assets, along with mitigation measures. Developed the Emergency Response Plan with incident action checklists for multiple incidents. Revised project to become virtual for pandemic needs.

Hurricane Ian After Action Review and After Action Report, Winter Haven, Florida. Designed and facilitated an After Action Review for staff following Hurricane Ian, including an assessment of response actions taken and



KRIS GABLE, ENV SP

Power Resilience and Emergency Planning Specialist

SUMMARY

As a Risk and Resilience Specialist with Launch! Consulting since 2020 (over 2 years), Kris utilizes his project management skills and emergency management experience to lead emergency response planning projects for utilities. Kris has the proven ability to interact and collaborate with multiple levels of leadership and diverse cultural audiences. He excels at organizing and communicating for successful projects.

Kris has 27 years of Power Resilience and Emergency Planning experience in the United States Army. As senior operations manager, he oversaw training and development at the U.S. Army Prime Power School. He has provided direct domestic and worldwide support to FEMA and the U.S. Army Corps of Engineers in emergency power disaster relief operations, project management, and technical contractor oversight. Kris manages and provides technical support to projects throughout the U.S.

EDUCATION

Excelsior College, B.S

- *Homeland Security and Emergency Management*

QUALIFICATIONS

- *SECRET Clearance*
- *FEMA Emergency Management Institute: Community Emergency Response Team and Incident Command System Training Certificates*
- *OSHA 30 Certified*
- *Senior Leader Advanced Construction and Construction Engineer Management Course*
- *Joint Engineer Officer Course*
- *Transmission and Distribution Specialist Course*
- *Operational Contingency Planning*
- *Envision Sustainability Professional (ENV SP)*

PROJECT EXPERIENCE

Disaster Master Plan (DMP), Pinellas County Utilities, Florida. Served as the project manager for the DMP. Coordinated Utility staff for the workshop-based project to develop an overarching emergency management document that encompasses strategic emergency management planning applicable to all utilities. It can be used as a roadmap for how to locate and utilize plans and documents associated with preparedness for all types of disasters and emergencies. The purpose of the DMP is to provide a framework for the PCU emergency management program, to include defining staff responsibilities and collaboration on preparedness efforts throughout the Utility.

Risk Assessment and Emergency Response Plan for the Wastewater/Reclaimed Water System, Pinellas County Utilities, Florida.

Served as the project manager for the wastewater/reclaimed water system projects to determine system risks and prioritize mitigation measures. Coordinated Utility staff for the workshop-based projects and contributed to the incident action checklists for many types of emergencies.

Hurricane Ian After Action Review and After Action Report, Winter Haven, Florida.

Served as project manager and assisted in development of an After Action Review for staff following Hurricane Ian, which included assessment of response actions taken and improvement recommendations for future emergency planning and increased resiliency.

Risk and Resilience Assessments (RRA), Emergency Response Plans (ERP), Emergency Exercises, and After-Action Reviews (AAR).

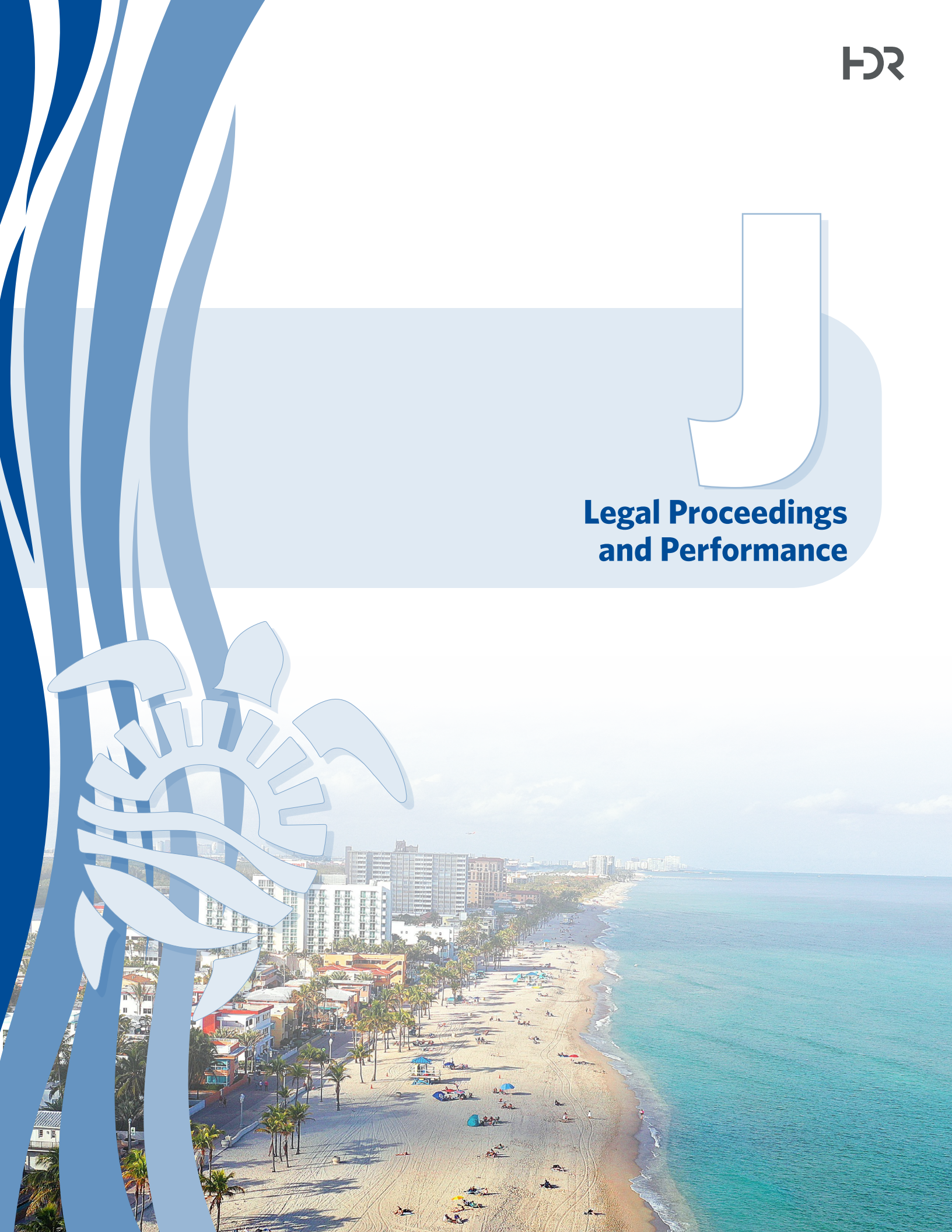
Managed RRAs, ERPs, exercises, and AARs for water and wastewater systems using the ANSI/AWWA J100 Standard for localities throughout the U.S., including East Coast and West Coast utilities. Designed in-person and virtual activities to complete tasks. Collected data through a series of workshops, interviews, and onsite field assessments. Coordinated multiple agency participation in workshops, including FBI and DHS. Assisted in development of critical asset summaries and an implementation plan for mitigation measures. Developed the Emergency Response Plans with incident action checklists for multiple incidents.

Emergency Preparedness Plans (EPP) for large water system provider complying with Texas Commission on Environmental Quality (TCEQ) (2022).

Served as the project manager and technical expert in emergency power for developing EPPs and onsite critical electrical load assessments for 487 water system facilities. The project included detailed actions for the utility to prepare and respond to many types of power outage and related emergency events.



Legal Proceedings and Performance





LEGAL PROCEEDINGS AND PERFORMANCE



In today's legal environment, claims and litigation are a reality for any large company in the industry, regardless of performance or merit. When claims do occur, we are proactive and cooperative in reaching a resolution that is fair and reasonable to all. We value the confidences of our clients as well as our contractual commitments to confidentiality, and do not discuss with third parties the circumstances involving ongoing projects. We would take the same position with information regarding our work for this contract.

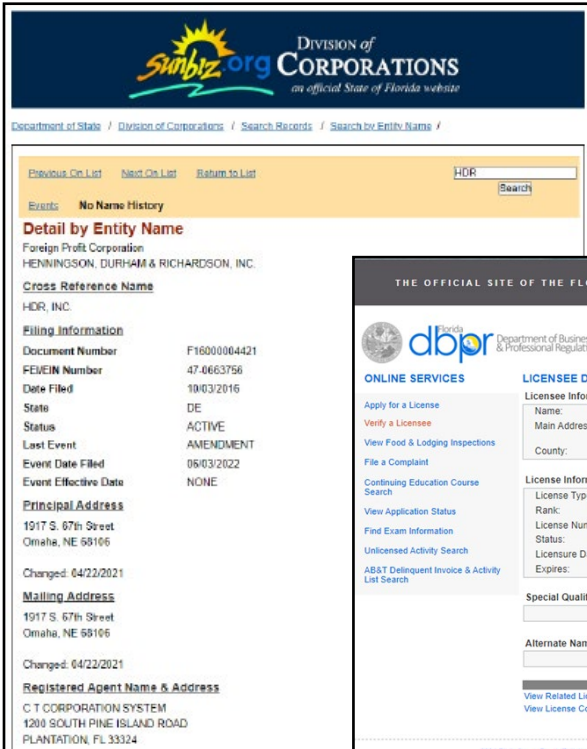
If necessary, we would be willing to meet in person with you to discuss the merits or background of past claims. There are no claims or litigation that could impede our ability to perform this project, and we have maintained professional liability insurance in force continually since 1958 for the protection of us and our clients.

A large, white, outlined letter 'K' with a slight drop shadow, set against a light blue circular background.

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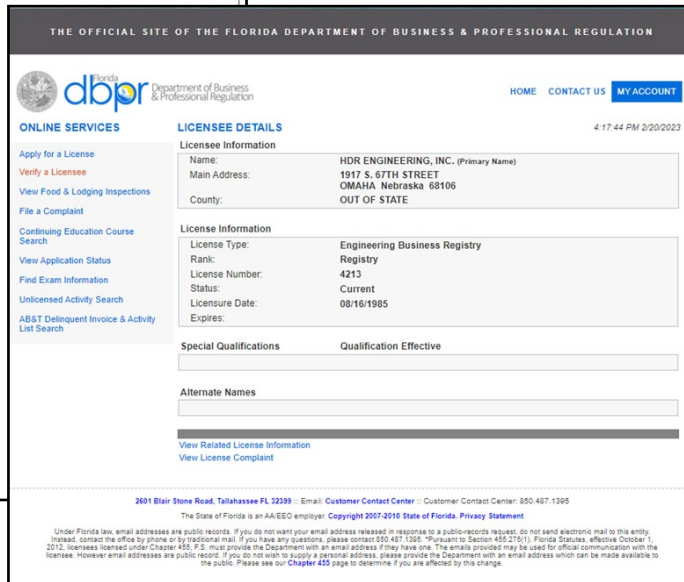
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 OMAHA, Nebraska 68106
 County: OUT OF STATE

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 Rank: Registry
 License Number: 4213
 Status: Current
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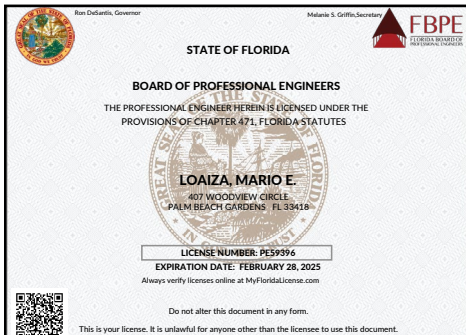
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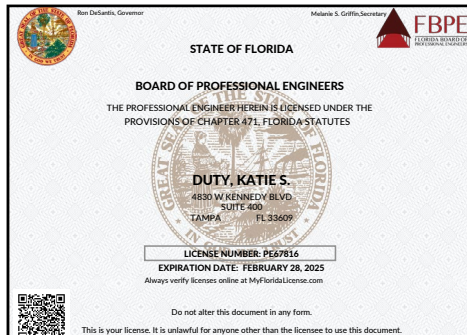
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Mario Loiza - Contract Manager



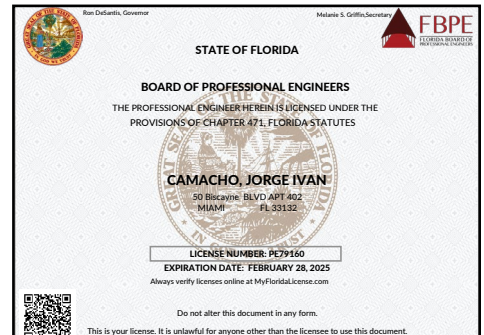
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Katy Duty - Project Principal



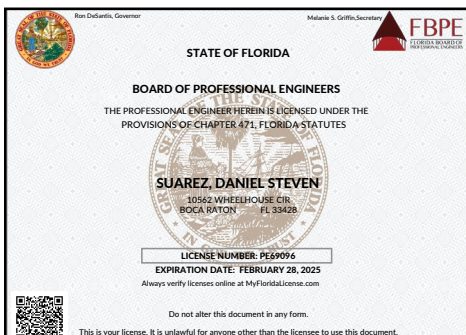
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Jorge Camacho - Task Project Manager



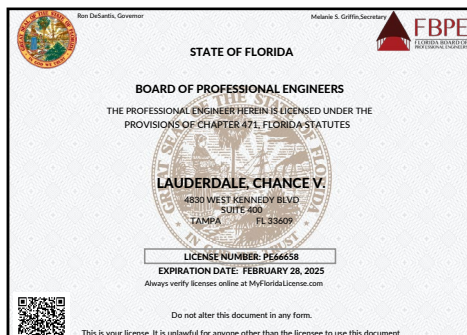
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Dan Suarez - Stormwater Technical Lead



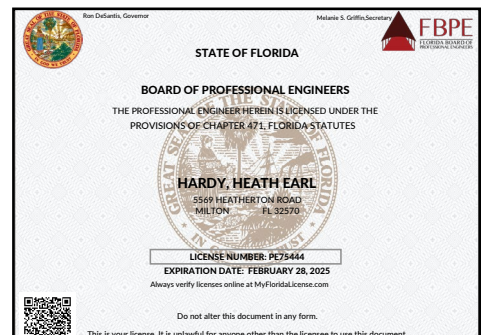
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Chance Lauderdale - LCR Technical Lead



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Heath Hardy - Water & Wastewater Pipeline Technical Lead



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Marc Gambrill - Funding | Grant
Technical Advisor

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Pump Station Technical Lead

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Ryan Messer
Reuse Technical Lead

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Emilio Corrales
Civil/Roads/MOT

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J. Colleen Howard
Construction Management

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Javier Manso
FDOT Coordination

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Samantha Black
Water Treatment

ONLINE SERVICES		LICENSEE DETAILS	
Apply for a License	Renew License	License Information	<p>Name: MILLER, ALEXANDER J (Primary Name)</p> <p>Mail Address: 3114 SW 11th ST MIAMI FLORIDA 33135 MIAMI</p> <p>City: MIAMI</p> <p>County: MIAMI</p> <p>License Information</p> <p>License Type: Professional Engineer</p> <p>Expire Date: 02/28/2025</p> <p>License Number: 47773</p> <p>Category: Civil/Active</p> <p>License Status: Active</p> <p>Expiration Date: 02/28/2025</p> <p>Special Qualifications: Qualification Effective</p> <p>Qualification: 02/28/2025</p> <p>Expiration: 02/28/2025</p> <p>Alternate Names</p> <p>View Renewal License Information</p> <p>View License Complaint</p>

Alex Miller
Hydrologic & Hydraulic Modeling

STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) HDR Engineering, INC.

Name/Principal/Project Manager: Katie E. Duty

Address: 3250 West Commercial Boulevard, Suite 100

City: Fort Lauderdale State: FL Zip: 33309

Telephone No. (813) 282-2352 FEIN/Tax ID No. 47-0680568 Email: katie.duty@hdrinc.com

Does your firm qualify for MBE or WBE status: MBE WBE

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>
<u>1</u>	<u>1/18/2023</u>	<u>3</u>	<u>1/19/2023</u>
<u>2</u>	<u>1/19/2023</u>	<u>4</u>	<u>1/24/2023</u>

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. If this section does not apply to your bid/proposal, simply mark N/A. **If submitting your response electronically through OPENGOV you must click the exception link if any variation or exception is taken to the specifications, terms and conditions.**

See attached.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed bid/proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, hereby agrees that in no event shall the City's liability for respondent's indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of five hundred dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Katie E. Duty
Name (printed)

Signature

2/16/2023
Date:

Vice President
Title

We pride ourselves on our continuous efforts and desires to completely understand our clients needs and preferences and to provide them with professional services which not only meet, but hopefully exceed their expectations. One of the key initial steps in developing this level of understanding is the negotiation and development of a mutually acceptable agreement which properly reflects both parties obligations and expectations. We have carefully reviewed all of the documents and information you provided as a part of your Request for Qualification (RFQ-042-23-JJ). Some of the information you provided was in the form of potential terms and conditions which eventually would be reflected in a final agreement we would be entering into with you should we be successful in our pursuit of your project. Although we have identified several items which we need to obtain more information from you on, we believe that there will be no insurmountable problems in reaching a final agreement. We are basing this assumption on the reasonable expectation that the path of our negotiations will be guided by the basic premises necessary for any professional design firm to maintain the full applicability of its professional liability insurance coverage and to develop any required schedules or pricing. Those guidelines are; no guarantees or warranties (either expressed or implied); the standard of care will not be elevated beyond a normal, reasonable, negligence standard; any indemnifications will be based upon a negligence standard; any fees, pricing or scheduling requirements will be based upon quantifiable requirements. We sincerely look forward to the opportunity to further refine our understanding of your needs and desires and the ultimate development of a complete and accurate agreement with you and respectfully request that you allow us the opportunity to provide professional design services for your project.

**SWORN STATEMENT PURSUANT TO SECTION 287.133 (3) (a) FLORIDA STATUTES ON
PUBLIC ENTITY CRIMES**

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY
PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS

1. This form statement is submitted to the City of Hollywood by Katie E. Duty - Vice President for HDR Engineering, Inc.
(Print individual's name and title) (Print name of entity submitting sworn statement)
whose business address is 3250 West Commercial Boulevard, Suite 100, Fort Lauderdale, FL 33309
and if applicable its Federal Employer Identification Number (FEIN) is 47-0680568. If the
entity has no FEIN, include the Social Security Number of the individual signing this sworn
statement.
-

2. I understand that "public entity crime," as defined in paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misinterpretation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in an federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that "Affiliate," as defined in paragraph 287.133(1)(a), Florida Statutes, means:
1. A predecessor or successor of a person convicted of a public entity crime, or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5 I understand that "person," as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or any entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies



to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

X Neither the entity submitting sworn statement, nor any of its officers, director, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime, but the Final Order entered by the Hearing Officer in a subsequent proceeding before a Hearing Officer of the State of the State of Florida,

Division of Administrative Hearings, determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the Final Order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THAT PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017 FLORIDA STATUTES FOR A CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

Katie E Duty
(Signature)

Katie E. Duty, Vice President, HDR Engineering, Inc.

Sworn to and subscribed before me this 16th day of February , 2023.

Personally known Katie E. Duty, Vice President, HDR Engineering, Inc.

~~Or produced identification~~ Notary Public-State of Florida

my commission expires 09/22/2024

(Type of identification)



MICHELLE J. PARDO
Commission # HH 045144
Expires September 22, 2024
Bonded Thru Budget Notary Services

Michelle J. Pardo Michelle J. Pardo HH 045144
Printed, typed or stamped commissioned name of notary public)

City of Hollywood Proposal Questionnaire RFQ-042-23-JJ Infrastructure Projects (Water, Sewer, Reuse, and Stormwater)

3. Hold Harmless and Indemnity Clause *

I, an authorized representative, the contractor, shall indemnify, defend and hold harmless the City of Hollywood, its elected and appointed officials, employees and agents for any and all suits, actions, legal or administrative proceedings, claims, damage, liabilities, interest, attorney's fees, costs of any kind whether arising prior to the start of activities or following the completion or acceptance and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part by reason of any act, error or omission, fault or negligence whether active or passive by the contractor, or anyone acting under its direction, control, or on its behalf in connection with or incident to its performance of the contract.

Please confirm

4. Non-Collusion Statement*

I, being first duly sworn, depose that:

- A. He/she is an authorized representative of the Company, the Proposer that has submitted the attached Proposal.
- B. He/she has been fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;
- C. Such Proposal is genuine and is not a collusion or sham Proposal;
- D. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the contractor for which the attached Proposal has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices, profit or cost element of the Proposal price or the Proposal price of any other Proposer, or to secure an advantage against the City of Hollywood or any person interested in the proposed Contract; and
- E. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Please confirm

6. Certifications Regarding Debarment, Suspension and Other Responsibility Matters* The applicant certifies that it and its principals:

Are not presently debarred, suspended, proposed for debarment, declared ineligible, sentenced to a denial of Federal benefits by a State or Federal court, or voluntarily excluded from covered transactions by any Federal department or agency;

Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction, violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and

Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default.

Please confirm



7. Drug-Free Workplace Program*

- A. IDENTICAL TIE PROPOSALS - Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie proposals will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:
1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
 2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
 3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
 4. In the statement specified in subsection (1), notify the employee that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
 5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program (if such is available in the employee's community) by, any employee who is so convicted.
 6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of these requirements.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

Please confirm

8. Solicitation, Giving, and Acceptance of Gifts Policy*

Florida Statute 112.313 prohibits the solicitation or acceptance of Gifts. "No Public officer, employee of an agency, local government attorney, or candidate for nomination or election shall solicit or accept anything of value to the recipient, including a gift, loan, reward, promise of future employment, favor, or service, based upon any understanding that the vote, official action, or judgment of the public officer, employee, local government attorney, or candidate would be influenced thereby." The term "public officer" includes "any person elected or appointed to hold office in any agency, including any person serving on an advisory body."

The City of Hollywood/Hollywood CRA policy prohibits all public officers, elected or appointed, all employees, and their families from accepting any gifts of any value, either directly or indirectly, from any contractor, vendor, consultant, or business with whom the City/CRA does business.

The State of Florida definition of "gifts" includes the following:

- Real property or its use,
- Tangible or intangible personal property, or its use,
- A preferential rate or terms on a debt, loan, goods, or services,
- Forgiveness of indebtedness,
- Transportation, lodging, or parking,
- Food or beverage,
- Membership dues,
- Entrance fees, admission fees, or tickets to events, performances, or facilities,
- Plants, flowers or floral arrangements
- Services provided by persons pursuant to a professional license or certificate.
- Other personal services for which a fee is normally charged by the person providing the services.

- Any other similar service or thing having an attributable value not already provided for in this section.

Any contractor, vendor, consultant, or business found to have given a gift to a public officer or employee, or his/her family, will be subject to dismissal or revocation of contract.

As the person authorized to sign the statement, I certify that this firm will comply fully with this policy.

Please confirm

11. Proof of Sunbiz Registration*

Enter company FEIN to be verified in Sunbiz

Enter information

47-0680568

12. ACKNOWLEDGMENT AND SIGNATURE PAGE

12.1. If Corporation - Date Incorporated/Organized:*

March 19, 1985

12.2. State Incorporated/Organized:*

Nebraska

12.3. Remittance Address*

4830 W. Kennedy Blvd., Suite 400
Tampa, FL 33609

12.4. Bidder/Proposer's Authorized Representative's Typed Full Name

Authorized Representative: Katie E. Duty - Vice President

Signature: 



CERTIFICATE

The undersigned hereby certifies that she is the Assistant Secretary of HDR Engineering, Inc., a Nebraska corporation (the "Corporation"), and that, as such, has custody of the minute books of the Corporation, and that, by Consent and Agreement of the Board of Directors, the following resolution was unanimously adopted:

1. **"RESOLVED**, that effective immediately, and until termination of said individual from the Corporation, or until rescission by the Corporation's Board of Directors, whichever occurs first, the following individuals are hereby granted the nondelegable authority to execute or approve on behalf of the Corporation, contracts, amendments or change orders for engineering services and architectural services incidental to engineering services to be rendered by the Corporation, . . . , or releases of claim or lien in connection with such services, such contracts, amendments, change orders or releases so executed or approved shall be binding upon the Corporation:

- . . . Jennifer E. Hunt – Senior Vice President . . .
- . . . Harold E. Lewis, Jr. – Senior Vice President . . .
- . . . L. Kevin Mosteller – Senior Vice President . . .
- . . . Melanie E. Fowler – Vice President . . .
- . . . George W. McGregor – Vice President . . .
- . . . Erki Suarez – Vice President . . .
- . . . Katie E. Duty – Vice President . . .
- . . . John E. Wimberly – Vice President . . .
- . . . Jeffrey B. Arms – Associate Vice President . . .
- . . . Matt D. Bell – Authorized Representative . . ."

2. **"RESOLVED**, that the following are elected officers of the Corporation until their successors are elected and qualified:

- . . . Stephen J. Ferrell – Senior Vice President . . .
- . . . Jennifer E. Hunt – Senior Vice President . . .
- . . . Chance V. Lauderdale – Senior Vice President . . .
- . . . Andrew E. Lauzier – Senior Vice President . . .
- . . . Harold E. Lewis, Jr. – Senior Vice President . . .
- . . . Kent L. McWaters – Senior Vice President . . .
- . . . L. Kevin Mosteller – Senior Vice President . . .
- . . . Jay C. Nagle – Senior Vice President . . .
- . . . Guillermo J. Suero – Senior Vice President . . .
- . . . Brenda Van Ravenswaay – Senior Vice President . . .
- . . . Brian A. Blanchard – Vice President . . .
- . . . Samuel D. Cobb – Vice President . . .
- . . . Stephen W. Dortch – Vice President . . .
- . . . Katie E. Duty – Vice President . . .
- . . . Melanie E. Fowler – Vice President . . .

... John M. Hansen – Vice President ...
... Lew R. Herrington – Vice President ...
... Donald R. Holcomb – Vice President ...
... John B. Hyre – Vice President ...
... Carlos C. Lopez-Paniagua – Vice President ...
... George W. McGregor – Vice President ...
... Kristina M. Price – Vice President ...
... Thomas A. Quinn – Vice President ...
... Marlin A. Register II – Vice President ...
... Mark G. Roberts – Vice President ...
... Santanu Roy – Vice President ...
... Steven J. Schnell – Vice President ...
... Erki Suarez – Vice President ...
... John E. Wimberly – Vice President ...
... Jeffrey B. Arms – Associate Vice President ...
... W.D. D. Baldwin – Associate Vice President ...
... Lisa C. Bell – Associate Vice President ...
... Jonathon D. Burchfield – Associate Vice President ...
... Brad B. Collins – Associate Vice President ...
... Raphael C. Costa – Associate Vice President ...
... Ted E. Davidson – Associate Vice President ...
... Mark E. Hall – Associate Vice President ...
... Keith A. Howard – Associate Vice President ...
... Warren F. Jenik – Associate Vice President ...
... Javier Manso – Associate Vice President ...
... Daniel S. Suarez – Associate Vice President ...
... Leonel A. Zapata – Associate Vice President ...
... Elizabeth C. Buell – Assistant Secretary ...
... Laurie S. Vik – Assistant Secretary ...”

The undersigned further certifies that the foregoing resolution has been spread in full upon the minute books of the Corporation and is in full force and effect.

DATED August 19, 2022.



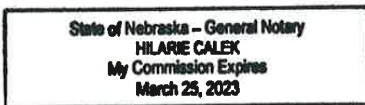

Elizabeth C. Buell, Assistant Secretary

STATE OF NEBRASKA
COUNTY OF DOUGLAS

On this 19th day of August, 2022, before me personally appeared Elizabeth C. Buell, known to me to be the person who executed the within instrument as Assistant Secretary of and on behalf of the corporation therein named and acknowledged to me that the corporation executed it.

(NOTARY SEAL)


Hilarie Calek, Notary Public



Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Go to www.irs.gov/FormW9 for instructions and the latest information.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
HDR ENGINEERING, INC.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.

Individual/sole proprietor or single-member LLC C Corporation S Corporation Partnership Trust/estate

Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

Other (see instructions) ▶ _____

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
1917 S 67th ST

6 City, state, and ZIP code
OMAHA NE 68106-2973

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

OR

Employer identification number


47-0680568

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person ▶  ASSISTANT TREASURER Date ▶ January 1, 2023

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
06/02/2022

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

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

PRODUCER Willis Towers Watson Midwest, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	CONTACT NAME: Willis Towers Watson Certificate Center PHONE (A/C, No, Ext): 1-877-945-7378 FAX (A/C, No): 1-888-467-2378 E-MAIL ADDRESS: certificates@willis.com														
INSURER(S) AFFORDING COVERAGE															
INSURED HDR Engineering, Inc. 1917 South 67th Street Omaha, NE 68106	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%;">NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Liberty Mutual Fire Insurance Company</td> <td>23035</td> </tr> <tr> <td>INSURER B: Ohio Casualty Insurance Company</td> <td>24074</td> </tr> <tr> <td>INSURER C: Liberty Insurance Corporation</td> <td>42404</td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>		NAIC #	INSURER A: Liberty Mutual Fire Insurance Company	23035	INSURER B: Ohio Casualty Insurance Company	24074	INSURER C: Liberty Insurance Corporation	42404	INSURER D:		INSURER E:		INSURER F:	
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INSURER D:															
INSURER E:															
INSURER F:															

COVERAGES **CERTIFICATE NUMBER: W24977699** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS			
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			TB2-641-444950-032	06/01/2022	06/01/2023	EACH OCCURRENCE \$ 2,000,000			
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000			
	<input checked="" type="checkbox"/> Contractual Liability						MED EXP (Any one person) \$ 10,000			
	GEN'L AGGREGATE LIMIT APPLIES PER:									PERSONAL & ADV INJURY \$ 2,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJ-ECT <input checked="" type="checkbox"/> LOC									GENERAL AGGREGATE \$ 4,000,000
	OTHER:									PRODUCTS - COMP/OP AGG \$ 4,000,000
A	AUTOMOBILE LIABILITY			AS2-641-444950-042	06/01/2022	06/01/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000			
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$			
	<input type="checkbox"/> OWNED AUTOS ONLY	<input type="checkbox"/>	<input type="checkbox"/> SCHEDULED AUTOS				BODILY INJURY (Per accident) \$			
	<input type="checkbox"/> HIRED AUTOS ONLY	<input type="checkbox"/>	<input type="checkbox"/> NON-OWNED AUTOS ONLY				PROPERTY DAMAGE (Per accident) \$			
B	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR			EUO (23) 57919363	06/01/2022	06/01/2023	EACH OCCURRENCE \$ 5,000,000			
	<input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$ 5,000,000			
	<input type="checkbox"/> DED	<input checked="" type="checkbox"/> RETENTION \$ 0					\$			
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WA7-64D-444950-012	06/01/2022	06/01/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER			
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT \$ 1,000,000			
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000			
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000			

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER **CANCELLATION**

Sample	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
AUTHORIZED REPRESENTATIVE 	



CERTIFICATE OF LIABILITY INSURANCE

6/1/2023

DATE (MM/DD/YYYY)

6/1/2022

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

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

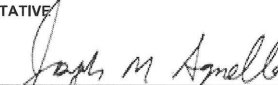
PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000 kctsu@lockton.com	CONTACT NAME: _____	
	PHONE (A/C, No, Ext): _____	FAX (A/C, No): _____
E-MAIL ADDRESS: _____		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A : Lloyds of London		
INSURER B : _____		
INSURER C : _____		
INSURER D : _____		
INSURER E : _____		
INSURER F : _____		

COVERAGES * CERTIFICATE NUMBER: 18584305 REVISION NUMBER: XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER: _____			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX DAMAGE TO RENTED PREMISES (Ea occurrence) \$ XXXXXXXX MED EXP (Any one person) \$ XXXXXXXX PERSONAL & ADV INJURY \$ XXXXXXXX GENERAL AGGREGATE \$ XXXXXXXX PRODUCTS - COMP/OP AGG \$ XXXXXXXX \$ _____
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident) \$ XXXXXXXX BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED _____ RETENTION \$ _____			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	NOT APPLICABLE			PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ XXXXXXXX E.L. DISEASE - EA EMPLOYEE \$ XXXXXXXX E.L. DISEASE - POLICY LIMIT \$ XXXXXXXX
A	ARCH & ENG PROFESSIONAL LIABILITY	N	N	P001412200	6/1/2022	6/1/2023	PER CLAIM: \$1,000,000 AGGREGATE: \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER 18584305 SAMPLE	CANCELLATION See Attachment SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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This endorsement, effective: 06/01/2022 12:01 A.M.

Forms a part of policy no.: P001412200

Issued to: HDR, Inc

By: Lloyd's of London

NOTICE OF CANCELLATION TO CERTIFICATE HOLDERS ENDORSEMENT

Except respect cancellation non-payment premium (10 day notice cancellation), the **Insurer** shall give day notice cancellation the Certificate Holder(s) set forth herein, provided that:

The **First Named Insured** is required by contract give notice cancellation the Certificate Holder, and

Prior the **Insurer** sending notice cancellation the **First Named Insured** the **First Named Insured** shall provide the **Insurer** in writing, either directly or through the **First Named Insured** broker record, the name each person or organization requiring notice cancellation and the corresponding address such person or other employee responsible receipt of notice of cancellation on behalf of such organization.

Notice cancellation be sent in accordance the terms and conditions the policy, except that the **Insurer** may provide written notice individually or collectively the Certificate Holders by email at the current email address given by the **First Named Insured** Proof sending the notice of cancellation by email shall be sufficient proof of notice.

Any failure provide notice cancellation the Certificate Holder due inaccurate or incomplete information provided by the **First Named Insured** shall remain the sole responsibility the **First Named Insured**

The following definitions apply to this endorsement:

1. **First Named Insured** means the Named Insured shown in Item 1. of Declarations.
2. **Insurer** means the insurance company shown in the header on the Declarations.

All other terms and conditions of the policy remain the same