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April 5, 2018

Ms. Maureen Crossman, CPPB
Materials Manager
Utilities Commission
200 Canal Street
City of New Smyrna Beach, FL 32168

Subject: Statement of Qualifications Continuing Professional Services RSQ No. 10-18

Dear Ms. Crossman:

Our Ormond Beach office has served central Florida since 1995. You may recognize us as the former Ghyabi & Associates, but with our merger with Alfred Benesch & Company (Benesch) in June 2017, we bring a new depth of resources and expanded skills to local communities. We have served New Smyrna as your traffic engineering services consultant for a number of years, and would be honored to expand this relationship with the community to provide civil engineering services as well.

I have relocated to the area from Chicago, and with that bring extensive experience in managing the types of projects outlined in your Continuing Professional Services Agreement request. You will see that many of our projects show a Midwest influence, since that is where I have spent the majority of my career. In relocating to Ormond Beach, I bring that expertise and history to Florida and we would be thrilled to work with the City on future assignments. We have a staff of 18 in Florida, supported by 600 nationwide to help out with specialty services that may arise. We are known for our technical expertise, and would truly appreciate the opportunity to serve you.

We are excited to present our team to you, which offers a depth of experience in utility design, pumping, storage and treatment design as well as site planning. This submittal outlines the qualifications of our team that is available to assist on any tasks that you may choose to challenge us with. We know you have your choice of engineering consultants, so when considering Benesch please note the benefits that we bring to you:

✓ Local, Responsive Service: located just 30 minutes from your office, we remain poised to assist you quickly.

✓ National Technical Expertise: although we are your local firm, we bring you experience with literally hundreds of similar projects, ranging from simple utility upgrade projects to complex treatment plant upgrades. We bring extensive lessons learned to your projects

✓ Experienced Project Manager: I will serve as your Project Manager, bringing 32 years of utility, water and wastewater projects to you.

We are excited about this opportunity to serve the city, and hope you will consider us as one of your local firms for civil engineering services.

Sincerely,

Laura McGovern, PE
Florida Division Manager
OUR FIRM

Alfred Benesch & Company (Benesch) is excited to submit this Statement of Qualifications to the Utilities Commission, City of New Smyrna Beach (UCNSB) to demonstrate our ability to provide professional services on an as needed basis.

Benesch is a full-service engineering firm in business for over 70 years. Our Florida office from which we will serve you is located in Ormond Beach, just 30 miles north of New Smyrna Beach. If you do not know much about Benesch, here are some of the reasons why we would make a great selection for this contract:

• We offer relationships with many of your local partners whom you work with every day to deliver your projects, including the City of New Smyrna Beach, Volusia County and the Florida Department of Transportation (FDOT).
• We are familiar with the City of New Smyrna Beach and the local communities and businesses that reside there.
• We are known for our technical skills on complex projects, our firm motto is “we love the tough stuff”, and we believe our skill set and reputation for successfully delivering complex projects would be a perfect match for the UCNSB high quality operation.
• We bring access to 600 professionals nationwide, including recognized national experts in the areas of wastewater treatment and operations, water and wastewater controls, forensic engineering, complex hydraulics and stormwater facilities.

When you have a challenging project that needs outside-the-box thinking, we will be your go-to resource. We are aware of the many challenges that a municipal utility services company face on a day-to-day basis, including rising costs, aging infrastructure and increasing/ stringent regulatory requirements. Our combined complex structural expertise, nationwide water system lessons learned, and innovative civil engineering staff positions us to provide UCNSB with a fresh approach to your utility challenges.

Expertise

Benesch brings you extensive experience in all of the areas outlined in the category of Civil Engineer. The following sections outline our experience in each of the named categories:

OUR SERVICES

Water & Wastewater Services
Landscape Architecture
Site Development
Municipal
Roadway/Bridges
Construction Management

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Utility Design  Water, Wastewater, Reuse Water, Piping, Distribution, Transmission

The following matrix represents a compilation of utility design completed by the project team. In all, the team has led the design of several hundred miles of utility design, rehabilitation and replacement.

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<thead>
<tr>
<th>Relevant Projects</th>
<th>Water System Modeling/Analysis</th>
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<th>Distribution/Transmission</th>
<th>MOT/Staging</th>
<th>Roadway Resurfacing/ Curb &amp; Gutter/ ADA</th>
<th>Sanitary/ Storm Sewer</th>
<th>Survey</th>
<th>Trenchless Repair</th>
<th>Construction Inspection</th>
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<td>Task Order #13-1 Sewer Design</td>
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Utilities Commission City of New Smyrna Beach | Continuing Professional Services - Civil Engineering | 5
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</table>
| **Task Order #14-13 Sewer Design**  
Chicago Dept. of Water Management | | | | | | | | | | (10,995 LF) |
| **Task Order #14-18 Sewer Design**  
Chicago Dept. of Water Management | | | | | | | | | | (3,814 LF) |
| **Task Order #15-8 Sewer Design**  
Chicago Dept. of Water Management | | | | | | | | | | (8,354 LF) |
| **Task Order #16-1 Sewer Design**  
Chicago Dept. of Water Management | | | | | | | | | | (11,950 LF) |
| Galeton Borough Authority  
Water Distribution Improvements | | | | | | | | | | (3,900 LF) |
| Hegins-Hubley Authority  
Waterline Improvements | | | | | | | | | | (16,000 LF) |
| Mahanoy Township  
Water Distribution System Upgrades | | | | | | | | | | (21,000 LF) |
| Laporte Borough Public Water System  
Water Distribution System Improvements | | | | | | | | | | (9,800 LF) |
| Hazle Hurst Water Company  
Water Distribution Improvement | | | | | | | | | | (16,000 LF) |
| Morea Citizens Water Company  
Water Distribution System Replacement | | | | | | | | | | (2,300 LF) |
| Nesquehoning Borough Authority  
Water Distribution System Improvements | | | | | | | | | | (12,000 LF) |
| Mehoopany Water Authority  
Waterline Replacement | | | | | | | | | | (7,920 LF) |
| Mary-D Borough  
Waterline Replacement | | | | | | | | | | (21,120 LF) |
| Catawissa Municipal Authority  
Waterline Replacement | | | | | | | | | | (1,200 LF) |
| BCI Municipal Authority  
Glenn Hope Waterline Extension and Tubbs Crossing Waterline Extension | | | | | | | | | | (24,900 LF) |
The City of Crystal Lake has a surprisingly rolling terrain for Illinois. This has required dozens of sanitary lift stations to be installed in town over the years and Benesch has been assisting the City in evaluating its resulting rather complicated overall sanitary sewage conveyance system. Reducing reliance on lift stations while balancing the costs for gravity sewers that must pass through hilly terrain is a continuing goal for the Department of Public Works. This assignment was specifically in reference to two lift stations. Lift Stations 15 & 30 Replacement Evaluation provided the City with a reliable analysis to determine options for economically serving three significant residential/commercial developments in the northern part of the City.

Key Issues:
- Data Collection
- Evaluation of existing sanitary sewage conveyance system
- Base maps preparation
- Water use and sewage flowrate studies
- Sanitary interceptor route alternatives
- Cost comparisons for selected alternatives

Contact:
Mr. Michael Magnuson, PE
Director of Public Works
815-356-3614
Completion Date: 2014

Preliminary and final plans were prepared for the realignment and grade separation of 130th Street and Torrence Avenue below Norfolk Southern Railroad. This complex intersection includes three major roadways, six new bridges and a new drainage system complete with detention chamber, pump station and settling basin. This project included complex utility coordination which required relocation of watermain under the new depressed roadway, new watermain under the proposed railroad tracks, new sewers and extended hydrants, as well as a new pump station. The new facility is a 9,000 gpm tri-plex pump station with a detention chamber to adequately manage stormwater.

Benesch coordinated extensively with the Chicago Department of Water Management on this project. This project also demonstrated Benesch's structural expertise for pump station evaluations as well as electrical and controls.

Key Issues:
- New 9,000 gpm triplex pump station
- Major detention chamber sizing
- On-site soil remediation management
- Minimizing utility conflicts
- Minimizing traffic congestion
- Realigning three roadway to form one intersection
- Addressing drainage concerns due to high water table and depressed roadway

Contact:
Mr. Soliman Khudeira, Chicago DOT
312-744-9605
Completion Date: 2016
LAKE ORION BOOSTER PUMPING STATION IMPROVEMENTS | GLWA

This project to the Great Lakes Water Authority (GLWA) involved project management, preliminary design, final design, bid and negotiation assistance, construction administration, and periodic resident project representation services for the removal and replacement of four pumps, motors, variable frequency drives, meter, backup generator, control systems, overhead crane installation, building modifications, and site improvements at the Orion and Newburgh pumping stations.

Key Issues:

• Pump replacement to increase firm station capacity from current 10 MGD to 12.3 MGD
• Provide Variable Speed Drives Pumping
• Provide new Suction Discharge piping and isolation valves
• Provided discharge metering for station
• Added overhead trolley beam hoist in station

Contact:
Mr. Jorge Nicholas
303-926-8100

Completion Date: 2017

PUMPING STATION RACK AND GRIT & MIPI SAMPLING STATION | DWSD

Benesch was the Prime Consultant who provided engineering design and construction assistance services for the Detroit Water and Sewerage Department’s Contract CS-1432A, Task 025. This project involved the rehabilitation and/or replacement of: various components of the eight screenings bar racks; sixteen grit removal units; screenings and grit belt; replacement of 6” SFE piping network and associated gate valves and replacement of chopper pumps; piping network; controls; hardware; sample container; anchors and supports; flight and screw conveyance system and relevant architectural; structural; HVAC; electrical; and I&C improvements.

Responsibilities included design of the structural/architectural, mechanical process, electrical and I&C areas of the work. Benesch’s services during construction included providing a full range of engineering services including bidding assistance, shop drawing reviews, responses to RFI’s, as-needed site visits, start-up and testing assistance and preparation of as-built drawings.

Key Issues:

• Provided comprehensive design for the process elements of the project including replacement of bar screens, grit removal units, grit and screening conveyors, process piping and pumps.
• HVAC, electrical and I&C upgrades of the facility
• Structural/Architectural rehabilitation of existing facility and construction of new grit and screening offload facility

Contact:
Ms. Beena Chackunkal
313-297-9825

Completion Date: 2017
The Mahanoy City Sewer Authority operates a permitted combined Sewer Overflow (CSO) which discharges excess flow from their combined collection system to a CSO treatment facility utilizing two (2) 84-inch screw pumps which have the ability to pump 25 MGD each to the CSO treatment facility. The original screw pumps were installed as part of the original plant construction in 1979. In 2011, one of the screw pumps catastrophically failed. The Authority tasked Benesch with the design, permitting, contract administration and construction management for the replacement of both screw pumps due to their age and reliability. The new pumps are 84-inch in diameter, 54-foot long, and sit in a 30-foot deep wetwell at a 38º angle. This $1.5 Million project included the installation of soft starters on the 200 HP motors to reduce the energy consumption from the original cross-line starters. A new motor control center (MCC) was designed for the project, along with upgrades to the existing control and SCADA system.

**Key Issues:**
- With safety paramount, the pump replacements needed to be done during acceptable weather conditions
- Heavy Lifting: Each Screw Pump weighed over 80,000 lbs and needed to be installed on a 38 degree angle in the wetwell
- The wetwell needed to be active through construction which required a 25 MGD by-pass system to be installed and maintained

**Contact:**
Mr. Matt Lawrence, Manager  
70-773-0899

**Completion Date:** 2013

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Benesch developed schematic plans and construction documents for the new Mecklenburg County Medical Examiners facility. The facility is located on a former brownfield site northwest of downtown Charlotte. The facility consisted of a new 16,000 SF building with associated parking and loading areas, an internal courtyard, rain garden, and entry plaza with art installations. While developing the site plan, consideration had to be given to some atypical factors, such as the provision for temporary emergency outdoor facilities in the case of a local or regional catastrophe, security and privacy for the delivery of cadavers, and aesthetic considerations to help offset the stressful and unusual nature of the Examiners’ work. Benesch proposed design strategies including underground cisterns, in keeping with LEED for New Construction V 2.2 and documented Sustainable Sites and Water Efficiency credits pursued by the project.

**Key Issues:**
- LEED Gold Certified project
- Design of all site infrastructure and permitting
- Investigation of existing public water and sewer mains
- New domestic water, fire protection and sewer services

**Contact:**
Mr. Bryan Turner  
704-432-0270

**Completion Date:** 2008
MECKLENBURG COUNTY JAIL NORTH | Mecklenburg County

The main element of this project consisted of adding 34,800 SF to the jail for housing youthful offenders. The project also included the construction of a 8,300 SF vocational building to teach masonry and framing skills. A third building, a 3,300 SF greenhouse, was also constructed to teach horticultural skills. Benesch worked with the owner and design team in the preliminary planning of the jail expansion project. Developed construction drawings and specifications for all site related elements of the project. Assisted the owner and project architect in bidding, value engineering and construction management. A jurisdictional stream and a 30’ public sewer easement located within the construction area provided significant design and construction challenges. Innovative erosion control measures were necessary to protect the adjacent stream during construction. Likewise it was necessary to use an innovative design to fit the stormwater detention and treatment facilities between the stream and sewer easement.

WASTEWATER TREATMENT PLANT UPGRADES | Borough of Mahanoy City

Mahanoy City’s Wastewater Treatment Plant needed a major rehabilitation to ensure NPDES permit levels of treatment. The plant was close to 30 years old and had outlived its 20-year design life. The plant was not providing the required treatment necessary, and was experiencing wet weather overflows which allowed floatables, grit and grease to enter the Mahanoy Creek. The improvements addressed these issues as required by a PA DEP Consent Order and Agreement. The improvements also maintain extra capacity to provide sewage service for an expansion into adjacent Mahanoy Township and to encourage economic development within the service area. The treatment upgrades brought the Authority into compliance with the strict PA Chesapeake Bay Strategy limits for nitrogen and phosphorus. A portion of the project (headworks) received a PA DEP Growing Greener II Innovative Technology grant.
Utilities Commission City of New Smyrna Beach | Continuing Professional Services - Civil Engineering

SECTION 1
QUALIFICATIONS DATA

KEY ISSUES:

• Chesapeake Bay Strategy requirements met
• Increased capacity to satisfy existing and future growth
• Design proved to be more cost effective than expanding two treatment facilities

Contact:
Mr. Bill DeNuzio
570-233-0725

Completion Date: 2009

Benesch provided engineering services to the Detroit Water Treatment Facility under an as-needed contract from 2007-2011. Tasks included: Evaluation of the 2008 bypass events and the Standard Operating Procedures (SOPs) currently implemented, which included collecting and evaluating the Total DWTF flows, Influent Pumping Station flows, TPS flows, TPS wet well levels, Low Lift Pumping Station flows and Primary and Secondary Treatment bypass flows. Design of the generator sizes, configurations, locations, and fuel sources for the Downriver Waste Water Treatment Facility (DWTF). It was determined that the generators would be designed to provide power to the DWTF main switchgear in electrical room No.1. Benesch determined that minimum sizes of generators required were three 2000 KW units.

WASTEWATER FACILITY DESIGN IMPROVEMENTS | Butler Township

Insufficient capacity prompted the $16.5 million expansion of this wastewater facility. This project rehabilitated a 25 year old wastewater treatment plant that has outlived its 20 year design life. This increase in capacity satisfied a backlog of subdivisions waiting to be developed and approved. There were two major design components to this project: an expansion to the St. Johns Treatment Facility and conversion of the Drums Treatment Plant into a pump station. Final engineering and design plans were prepared for both of these systems. In addition, the installation of a new force main and gravity sewer between the two facilities was also required.
The Charter County of Wayne (Wayne County) selected a consulting team to rehabilitate the Downriver Wastewater Treatment Facility (DWTF) to continue providing quality wastewater treatment services far into the future. Benesch as key member of the team helped Wayne County meet its goal to remain competitive and improve the level of service to its rate-paying communities. Benesch, as part of a team, prepared the basis of design development report, followed by construction document development and permitting assistance, bid and award services and services during construction. Benesch performed structural inspections including assessment and recommendations for the structural rehabilitation to the aeration basin concrete. With help from DWTF operation staff, the aeration basins were isolated and dewatered to perform the condition survey and inspection. Benesch prepared an inspection report and evaluated the areas of distress in all trains of the aeration basin. A detailed structural rehabilitation and improvement design plan was developed based on the approved BOD report to improve the long-term performance of the facility. Benesch also provided professional engineering services for electrical and substation upgrades, influent pump station variable frequency drive modifications and primary settling tank upgrades.

Key Issues:
- Influent pump station variable frequency drive modifications
- Primary settling tank upgrades
- AE1 substation and secondary electrical equipment improvements

Contact:
Ms. Kelley Cave, PE
313-224-8282

Completion Date: 2013
HOW WE WILL DELIVER
Our plan to deliver Task Orders for civil engineering services is as follows:

Laura McGovern, PE, will serve as Project Manager on these assignments. She will assist in assembling the best qualified teams for each Task Order, and then delivering a proposal to you for the work. She will draw upon the vast resources of our firm, providing you with the expertise needed to successfully deliver each project.

Ms. McGovern brings over 32 years of engineering experience to this team, and has been the project manager on a multitude of projects involving pump stations, utility designs, structures, traffic control plans, treatment facilities, buildings and a variety of other services. She brings a full perspective to the many ways civil engineering problems can be solved with innovative yet practical approaches, keeping constructability and budgets in mind.

TYPICAL APPROACH
Our size allows us to commit the personnel and technical expertise for any type of project considered under this contract. Benesch will provide a high level of responsiveness to meet your immediate needs.

For each task order assigned, Ms. McGovern, in coordination with our Civil Group Manager Alex Barrios, will work with our staff to select the appropriate project team for the specialized area of work proposed. We have a firm-wide focus on deadlines, and are guided by our philosophy that “we don’t miss deadlines and we won’t miss yours.”

Throughout our history, we have completed thousands of projects of all sizes and complexities, solving problems ranging from utility projects to very large and complex water and wastewater system design and construction projects.

It takes careful planning to ensure that water and sewage systems are adequate and reliable. Our experienced staff offers a thorough knowledge of regulations, permitting requirements and effective funding strategies to take your project from initial planning and feasibility studies through complete construction. Our innovative solutions can address your utility needs, large or small.
Aging infrastructure is a growing concern throughout the country. Service disruptions are becoming more commonplace as systems age. Our team will offer thoughtful planning to ensure that service interruptions are minimized to reduce impacts to your customers.

Utility projects require collection of extensive knowledge of existing conditions. Upon assignment of a task, we will dispense a team to fully investigate the site to understand the project requirements.

**PROJECT MANAGEMENT**

Each project at Benesch begins with the preparation of a project work plan, which is reviewed by the Group Manager. Progress meetings are held with the Project Manager and Group Manager to internally monitor the progress of the project. We believe this is a great strategy, because we begin with the end in mind, and keep our eye on the final product. The team will develop a check sheet for each of the deliverables on this task order to ensure consistency across our deliverables provided.

We have a number of standard procedures which help to keep our staff organized and on track, ranging from standardized file structures on our server for all projects to establishment of design and CAD criteria up front to ensure consistency and accuracy.

One of the things that our clients like best about Benesch is the fact that you hear from us. We communicate design decisions and key issues. We will meet with you on a periodic basis to keep you up to date on the projects underway and ensure that our deliverables are meeting your needs. We do not like change orders, but when they arise, we let you know about them up front, providing you with a scope and cost for completing that work. We will not work on those items until you agree that we should proceed.

We utilize the Deltek Accounting system, which utilizes electronic timesheets and automated invoices. This gives our PM’s real time financial status of our projects. We track the earned value of each project, allowing us to make sure we are on track for schedule and budget on an ongoing basis.

**Creation of a Project Specific Quality Management Plan (PQMP)**

Each project at Benesch, regardless of size, begins with the creation of a customized Project Quality Management Plan, or PQMP. We use an online tool on our intranet that helps in creating the PQMP with a series of templates that help to serve as the basis of each PQMP.

Each PQMP includes the plan for identifying what will be checked on the project, at what milestone it will be checked, and how it will be checked (electronic, red/yellow highlights, calculation checks, etc.) The PQMP creator automatically creates a tracking database called the 3WH Tracker (who-what-when-how).

As is illustrated above, the 3WH tracker includes the required checks that need to be completed before a deliverable is allowed to be sent to the client. Both the QC checker needs to e-sign the task, and then the QA reviewer needs to sign off that they have personally confirmed that this work has been completed and documented. Our Corporate Director of Quality monitors this database and audits each project to insure that all projects comply with this policy.
We believe strongly in quality at Benesch, but we also believe that checking things needs to happen at the right time, with the right level of technical person and to the right level of detail for that particular milestone. With the development of so much automated design, the field of quality control needs to be nimble to make sure that the right checks are happening at the right time. Data entry into computer models needs to be confirmed at an early stage to ensure that there is not a “garbage in/garbage out” syndrome. Output from models needs a senior “horse sense” order of magnitude check to make sure that the results make sense, as well as a peer review of the model to ensure the output is correct. This system helps us to identify those critical elements on a project that could result in incorrect conclusions, inconsistent design, missed quantities, etc. and our templates help us to do just that.

**OUR PRACTICES**

While each project we tackle requires a personalized, project-specific approach, the Benesch Team utilizes a company-wide methodology for managing a project’s scope, schedule and budget. Keeping these items in check requires a project manager with an ability to focus on project quality, communication and risk for the life of the project. It is also important to minimize project risk and effectively communicate any changes in the project status to the project team and key stakeholders.

**Risk Management:** As project details are developed, potential issues may arise that need coordination or resolution by multiple parties. For example, changes in regulatory requirements can have implications to both the project’s overall schedule and budget, therefore presenting a risk to the project. Benesch is keen to staying informed on new utility requirements and upcoming changes to existing regulatory standards. High risk issues are dealt with on a priority basis to keep the project on track.

**Value Engineering (VE):** We understand that UCNSB is funded solely through utility revenues and that it is not a taxing authority. A challenge to running a successful municipal utility services company is controlling the rising costs in O&M, CIP and maintenance. Benesch is a pioneer in the VE and Value Planning fields. VE is a dynamic procedure that develops conceptual plans that meet the budget and technical goals for a project up front. Benesch has more than 30 years of experience providing these services to our clients, as well as successfully incorporating this process into our day-to-day activities and decisions. We pride ourselves on a reputation for asking probing questions through our design process. Not only do we get our senior staff involved in each project, but we analyze a project through the value of each function to determine if the cost is justified for the function it provides. Where needed, we use decision trees to help formulate project options and ensure your project is well thought out from design through construction.

**Proven Innovators:** Benesch is an industry leader in planning studies, with a focus on determining the optimum design to meet the needs of project stakeholders. The Benesch Team has been recognized many times for our creative and innovative solutions. We have been the recipient of the Association of Consulting Engineering Companies (ACEC) highest award – the Eminent Conceptor – seven times in the past 20 years.

**A Team That Can Handle the “Tough Stuff”:** We specialize in projects with complex and multiple issues, projects that are challenging to build. We regularly deliver projects– with multiple disciplines combined all at the same time often in a congested facility– requiring complex staging and value engineering built into the process. We develop plans that are buildable and refined during design to give you the best value in the bidding process. Why leave it to the Contractor to share the savings with you on Value Engineering Change Proposals? Save it up front in the planning phase by choosing our team for this contract.
The Benesch Team
This organizational chart presents the team members that would be available for assignments to tasks on this project. We have been investing in staff to ensure we have adequate resources to address local engineering needs. Therefore, this extremely qualified group of experts are available as needed to help address your changes.

We can complete all utilities, pump stations, site planning and storage projects with staff from our Ormond Beach office. For more complex treatment plant work, we would rely on national expertise to assist.

The Benesch Team is fully committed to fulfilling the tasks required on this contract. We have staff readily available to assist the UCNSB on projects of any size.

Organizational Chart
Laura McGovern, PE  
Civil Design Lead & Project Manager

Ms. McGovern brings more than three decades of experience serving utility agencies, municipalities, transportation agencies and numerous public and private sector entities. She brings a wealth of well rounded experience in a variety of multi-disciplined projects and specializes in project leadership and direction. She has led multi-disciplined project her entire career and is well-positioned to lead the many different tasks identified in this RFQ. She has worked with well over seventy communities and agencies throughout her career on hundreds of projects, and provides the team with a comprehensive perspective on techniques, philosophies and lessons learned in the public works industry.

**Lift Station/Pump Station Experience**

Ms. McGovern has extensive pump station experience. She is a well-known industry consultant in optimizing pump station design, having chaired many presentations and panel discussions, as well as authored many papers on pump station design. Her experience includes:

- Replacement of Yale and Ridge lift station for the Village of Villa Park, Illinois.
- Replacement of the South Villa Lift Station for the Village of Villa Park, Illinois.
- Improvements to the Winfield Sanitary Lift Station for the City of West Chicago, Illinois. This included replacement of the variable frequency drive, grounding system, programmable logic controller, operator interface terminal, and HVAC.
- Lift Station/Pump Station Master Plan - This included inspection/prioritization of repairs and replacements to 16 stations for the Village of Lombard, Illinois.
- Replacement of Yorktown Prairie/Lalonde, Vista Pond and Grace and Central Lift Stations for the Village of Lombard, Illinois.
- Replacement of SCADA System for lift station for Geneva, Barrington, Lombard, St. Charles, Villa Park, West Chicago, Lake Zurich, Bloomingdale, Woodridge, Lisle, Aurora, Elmhurst and others.
- An odor control study for the Village of Lombard Fairview Lift Station. The project included sampling of air for concentration of hydrogen sulfide and ammonia, and preparation of a report outlining recommendations.
- IDOT Pump Station 14 - 11,000 gpm pump station replacement.

**Sewer/Watermain Design Experience**

Ms. McGovern has been involved with the study, evaluation and design of over 500,000 LF of sewer and another 300,000 LF of watermain. Her experience includes:

- 56,000 LF of sewer evaluation/repair along the I-290 expressway.
- 10,000 LF of sanitary sewer ranging in size from 8” to 36” in and around DuPage Airport. This included boring and jacking under an active railroad and high pressure gas lines. This also included 10,000 LF of watermain.
- 3,500 LF of new sewer on Butterfield Road in Wheaton, Illinois.
- 12,000 LF of sewer replacement ranging in size from 8” forcemain to 30” gravity sewer and 12,500 LF of water main in the City of Naperville.
- Over 45,000 LF of sewer replacement for the City of Chicago Department of Water Management.
- 4,300 LF of sewer on Red Gate Road in St. Charles.
- 8,700 LF of sewer on Rollins Road in Round Lake Beach.
- Over two miles of 36” sanitary sewer interception for the City of West Chicago, including modifications to an existing retaining wall and lift station to accommodate the improvements.

Ms. McGovern has led many other projects including a 28 mgd water treatment plant, numerous ground and elevated storage tanks, site plans and numerous other civil engineering projects.

**Education**

- MS, Business Administration, Northern Illinois University
- BS, Civil Engineering, University Illinois at Urbana-Champaign

**Years of Experience:** 32

**Registrations and Certifications**

- Professional Engineer: IL, IN, IA, FL pending
- SAVE VE Module I
- National Council of Examiners for Engineering and Surveying (NCEES)

**Professional Affiliations**

- American Public Works Association
- American Water Works Association
- Water Environment Federation
- National Society of Professional Engineers
- American Society of Civil Engineers
Alex Barrios, PE
Utilities/Staging

Mr. Barrios brings 16 years of experience in civil engineering with an emphasis on Design-Build, P3, and CM/GC. Mr. Barrios has worked throughout the U.S. on projects from pursuit to execution. He has the capacity for solving complex challenges and ensuring successful results.

I-4 Ultimate P3, FDOT District 5, Orlando
Downtown Area Manager and EOR: The Downtown Orlando segment includes 4 miles of full freeway reconstruction with managed lanes addition, two tolling sites, and three interchanges. The I-4 Ultimate consists of the reconstruction of 21 miles of mainline, making it one of the largest highway projects in the state of Florida, and the largest transportation project in the history of Central Florida with an estimated design, construction, and operations cost of $2.3 billion. Mr. Barrios provided direction, oversight and review of the geometric design, modeling, plan preparation and interdisciplinary coordination. As Roadway EOR he provided utility relocations plans and as Area Manager he provided coordination between utilities and all other disciplines to ensure conflicts were not present and relocated successfully.

Mountain View Corridor CM/GC, UDOT, Salt Lake City, UT
Program Management Engineering Lead: MVC was a $730 million program management contract for UDOT's limited access freeway corridor in Salt Lake City. The project was delivered as an alternative project using the Construction Manager (CM) / General Contractor (GC) at Risk approach. The project was a green field construction of 14 miles of roadway affecting multiple municipalities. Because of the new freeway nature, many future utilities crossing would be needed and accounted for during construction. As Lead Program Engineering, Mr. Barrios prepared betterment agreements, cooperative agreements, coordination, design oversight and contract procurement with the following stakeholders to ensure plans had present solutions. City of Herriman: Installation of new sanitary line and utilities conduits; City of South Jordan: Installation of utilities

Education
B.S., Civil Engineering, University of Utah

Years of Experience: 16

Alan King
Utilities/Civil Engineer

Mr. King brings 39 years of transportation design and engineering experience to projects. Throughout five southern states, Mr. King has led engineering and planning projects—many with significant public involvement and stakeholder coordination. These projects have ranged in complexity from small intersection improvement and resurfacing projects to major roadway reconstruction and interstate design-build projects. He is certified by Florida Department of Transportation (FDOT) in the design of Maintenance of Traffic (MOT) plans and FDOT Specifications.

John Anderson Drive, Ormond Beach, FL
Senior Project Manager: Mr. King served as project manager and project engineer for the design of John Anderson Drive, consisting of roadway, drainage, and utility improvements. These improvements were for a 2.2-mile urban residential street that consistently experienced flooding and was considered unsafe for pedestrians. This drive has a long history of citizen concerns over tree preservation and is a part of the Ormond Beach Scenic Loop. Project elements included traffic calming measures to slow traffic, colored textured pavement coatings at four intersections, and a change from the “T” intersections with one-way stops to three-way stops.

SR 600 (John Young Parkway), Kissimmee, FL, FDOT District 5
Senior Project Manager: Mr. King served as project engineer and project manager for the four-lane urban to six-lane urban widening project in the City of Kissimmee. The widening for this 1.3 mile project between Portage and Vine Streets was in the median area and the existing outside lanes milled and resurfaced. The existing storm sewer was used as much as practical. Several areas required upgrades to meet capacity requirements. All current curb ramps were inspected, and those not meeting ADA criteria are to be reconstructed. Project responsibilities include project management, roadway design, traffic control, and public involvement.

Education
B.S., Civil Engineering, University of South Carolina

Years of Experience: 39
Ms. Zawadski’s responsibilities within the firm include civil engineering design, serving as our public involvement coordinator, and assistant utility coordinator. She possesses two certificates of study related to public involvement, including Systematic Development of Informed Consent from the Institute for Participatory Management and Planning and the Citizen Participation by Objectives certification from the Institute for Participatory Management and Planning.

**SR 415 (Lake Mary Boulevard) Widening, Sanford, FL, FDOT District 5**
*Project Engineer:* Ms. Zawadski served as roadway designer and assistant utility coordinator for this project, which involved reconstruction of SR 415 from a two-lane facility to an urban four-lane facility and a realignment of CR 415. In addition, the project included the design and LRE cost estimating for a segment of the East Central Regional Trail running parallel to SR 415.

**John Anderson Drive, City of Ormond Beach, FL**
*Assistant Utility Coordinator:* Ms. Zawadski served as public involvement coordinator and assistant utility coordinator for this project that consisted of roadway, drainage, and utility improvements. These improvements were for a 2.2-mile urban residential street that consistently experienced flooding and was considered unsafe for pedestrians. In addition, a part of the Ormond Beach Scenic Loop, the road had a long history of citizen concerns over tree preservation. Project elements also included traffic calming measures to slow traffic, colored textured pavement coatings at four intersections, and a change from the “T” intersections with one-way stops to three-way stops. Ghyabi + Associates (now Benesch) has led two public involvement meetings.

**Clyde Morris Boulevard Pond Relocation, Daytona Beach, FL, Halifax Health**
*Project Manager:* Ms. Widdison currently serves as the project manager for the Halifax Health Pond Relocation in Daytona Beach. As a representative for Halifax Health, Ms. Widdison works with the civil designers and drainage team to ensure that the hospital’s interests are successfully portrayed in the plans. She also coordinates with the Florida Department of Transportation to ensure that the hospital’s project aligns with the proposed widening of Clyde Morris Boulevard.

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**Rebecca Zawadski, PE**
*Utilities*

**Katie Widdison**
*Community Outreach*

Ms. Zawadski’s responsibilities within the firm include civil engineering design, serving as our public involvement coordinator, and assistant utility coordinator. She possesses two certificates of study related to public involvement, including Systematic Development of Informed Consent from the Institute for Participatory Management and Planning and the Citizen Participation by Objectives certification from the Institute for Participatory Management and Planning.

**SR 415 (Lake Mary Boulevard) Widening, Sanford, FL, FDOT District 5**
*Project Engineer:* Ms. Zawadski served as roadway designer and assistant utility coordinator for this project, which involved reconstruction of SR 415 from a two-lane facility to an urban four-lane facility and a realignment of CR 415. In addition, the project included the design and LRE cost estimating for a segment of the East Central Regional Trail running parallel to SR 415.

**John Anderson Drive, City of Ormond Beach, FL**
*Assistant Utility Coordinator:* Ms. Zawadski served as public involvement coordinator and assistant utility coordinator for this project that consisted of roadway, drainage, and utility improvements. These improvements were for a 2.2-mile urban residential street that consistently experienced flooding and was considered unsafe for pedestrians. In addition, a part of the Ormond Beach Scenic Loop, the road had a long history of citizen concerns over tree preservation. Project elements also included traffic calming measures to slow traffic, colored textured pavement coatings at four intersections, and a change from the “T” intersections with one-way stops to three-way stops. Ghyabi + Associates (now Benesch) has led two public involvement meetings.

**Clyde Morris Boulevard Pond Relocation, Daytona Beach, FL, Halifax Health**
*Project Manager:* Ms. Widdison currently serves as the project manager for the Halifax Health Pond Relocation in Daytona Beach. As a representative for Halifax Health, Ms. Widdison works with the civil designers and drainage team to ensure that the hospital’s interests are successfully portrayed in the plans. She also coordinates with the Florida Department of Transportation to ensure that the hospital’s project aligns with the proposed widening of Clyde Morris Boulevard.

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**Education**

Ms. Katie Widdison began her engineering career with Ghyabi + Associates (now Benesch) after graduating from the University of Central Florida in 2012. Ms. Widdison combines her engineering degree with an understanding and passion for infrastructure. She has valued experience on a variety of projects which gives her firsthand knowledge of both the engineering complexities and the public and private stakeholder impacts of projects. As Benesch’s Public Involvement Manager, Ms. Widdison has successfully led the Public Involvement efforts for over 25 projects, including the planning, design and construction phases.

**US 92 Pedestrian Improvements Design-Build, Daytona Beach, FL, FDOT District 5**
*Public Involvement Coordinator:* Ms. Widdison served as the main public involvement contact, coordinator, and facilitator for FDOT’s award winning US 92 Pedestrian Improvements Design-Build Project. The project revitalized an important corridor that accommodates economic growth, improves safety and emphasizes durability and environmental sustainability through features that include: a pedestrian bridge, sidewalk widening, drainage and utility relocation and additional aesthetic character.

**Clyde Morris Boulevard Pond Relocation, Daytona Beach, FL, Halifax Health**
*Project Manager:* Ms. Widdison currently serves as the project manager for the Halifax Health Pond Relocation in Daytona Beach. As a representative for Halifax Health, Ms. Widdison works with the civil designers and drainage team to ensure that the Hospital’s interests are successfully portrayed in the plans. She also coordinates with the Florida Department of Transportation to ensure that the hospital’s project aligns with the proposed widening of Clyde Morris Boulevard.

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**Education**

B.S., Civil Engineering, University of Central Florida

**Years of Experience:** 6

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**Education**

B.S., Civil Engineering, University of Central Florida

**Years of Experience:** 5
Mr. Holder has 25 years of civil engineering design experience. He is currently responsible for design plan preparation within the firm. Mr. Holder is proficient in the FDOT Electronic Delivery process, and has attended numerous training courses to maintain FDOT standards. He is knowledgeable of the current FDOT design practices, including the specification package preparation. Mr. Holder is proficient in MicroStation, GeoPAK, GuidSign, Autoturn, ArcGIS and Trns*port.

**Pelican Bay at Beville Road Intersection Improvements, Daytona Beach, FL, Volusia County**

**Senior Designer:** This project encompassed full design and permitting of the roadway and drainage systems for a project that involved intersection improvements at the Pelican Bay Community entrance. It included turn lane additions/extensions, signalization of the intersection, and the construction of a new leg of the intersection. This project is intended to promote development by providing access to a state road, as well as reducing the permitting burden to developers. The project included permitting through the St. Johns River Water Management District (SJRWMD) for water quality and culvert construction. This project is currently under construction.

**SR 415 Widening, FDOT District 5**

**Senior Designer:** Mr. Holder served as the project designer for the widening of SR 415 from a two-lane rural roadway to a four-lane divided urban roadway from SR 46 to the St Johns River Bridge, a one-mile distance. The design also included the realignment of Celery Avenue. The project included the design of two storm water facilities that accepted runoff from adjacent FDOT projects. The typical section included the design for a wider sidewalk (8’) for continuation of a Seminole County trail. Extensive coordination was required with adjacent FDOT projects.

**Years of Experience:** 25

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Mr. Popovici is a civil engineer at Benesch with extensive design and construction experience. He has worked on projects that incorporated geometrics, drainage, and grading as well as construction engineering tasks such as inspections and documentation. With his previous firm, Mr. Popovici was involved in the Street Maintenance Program for the Village of Long Grove, which comprises of pavement assessment, pavement design, rehabilitation design, construction staking, construction cost estimates, construction management and inspections. He also has credible knowledge in traffic engineering having assisted in the development of IDOT’s Highway Safety Improvement Program and by participating in many traffic impact studies. Mr. Popovici’s versatile skill set and wide range of experience has proven invaluable in developing innovative project solutions and ultimately fulfilling clients’ needs.

**ISTHA Jane Addams Tollway (I-90) - NSMJAWA Watermain Project Engineer:** As a part of the widening of I-90 Jane Addams Memorial Tollway, it was necessary to relocate 6.5 miles of the 16.5 miles of Northwest Suburban Municipal Joint Action Water Agency (NSMJAWA) transmission main which serves seven northwest suburban communities: Hoffman Estates, Schaumburg, Rolling Meadows, Elk Grove Village, Mt. Prospect, Hanover Park and Streamwood. The main is a prestressed concrete cylinder pipe. Benesch developed the plans and specifications for the project and collaborated with several different firms to develop the plans, which included 6.5 miles of watermain ranging from 16” to 90”; a 90” hot tap under 150 psi pressure of the single source of supply line from O’Hare; and extensive protection of the main from major construction operations. Mr. Popovici contributed to the planning and design of relocating more than five miles of water main pipe ranging in size from 30 to 90 inches. This work involved the production of pipe plans and profiles, quantities, typical sections, and maintenance of traffic for the pipe construction as well as coordination of the construction staging with adjacent contracts and local municipalities.

**Education**

- BS, Civil Engineering, University of Illinois at Chicago

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**Years of Experience:** 10
Ms. Gibson is a project engineer bringing a focus in Phase II design. Ms. Gibson has extensive experience in roadway design that includes plan preparation, quantities and cost estimates. Ms. Gibson’s range of experience covers the necessary elements required for the preparation of Phase II plans from design to plan production, specifications and cost estimates. In addition to this, Ms. Gibson assists the project team with other work such as traffic signal, signing, pavement marking, MOT and detour plans.

**CDWM, Task Order 14-18**  
*Project Engineer:* This task order included two Private Contract projects for approximately 3,400 LF of sewer including over 400 feet of 5’x10’ box culvert for storage at one location. The other location included five large underground storage tanks that hold up to 5 acre-feet of storage in addition to 950 feet of conventional sewer removal and replacement. Ms. Gibson served as Project Engineer on this assignment, preparing plans, specifications, quantities and estimates for this project.

**CDWM, Task Order 17-8**  
*Project Engineer:* This task order included 12,265 LF of sewer design at six different locations, including permitting for deep excavations exceeding 12 feet, outfall connections, tumbling basins and extensive MOT. Ms. Gibson served as Project Engineer on this assignment, preparing plans, specifications, quantities and estimates for this project.

**CDWM, Task Order 18-7**  
*Project Engineer:* This task order included 16,030 LF of sewer design at nine different locations, including permitting for deep excavations exceeding 12 feet, outfall connections, tumbling basins and extensive MOT. Ms. Gibson served as Project Engineer on this assignment, preparing plans, specifications, quantities and estimates for this project.

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Mr. Schmanski’s experience as a Drainage Engineer covers a wide range of projects in both the private and public sectors. He specializes in hydraulics and hydrology, with an in depth understanding of permitting requirements for several municipalities and counties. He has served as both designer and permit reviewer, which demonstrates the level of trust his clients place in his expertise of stormwater. Mr. Schmanski actively engages in education and research in environmental issues and computer technology to keep current in the latest approaches to the analysis of stormwater, floodplains/floodways, wetlands and Best Management Practices. He has recently overseen utility coordination efforts and stormwater design along with watermain replacement and relocation for the award-winning Wacker Drive project in Chicago. Representative projects include:

**CDWM, Task Order 13-1**  
*Project Manager:* This project entails 10,585 lineal feet of sewer design including concrete collars, tumbling basins, cast-in-place connection structures and temporary watermain support. In addition to sewer design, Benesch provided survey services, soil borings, traffic control plans, partial and full restoration plans, special design for ADA ramps, OUC-EFP submittals, and calculations for trench box support. Mr. Schmanski managed the task order, and was responsible for the design, subconsultant coordination and a properly executed QA process.

**CDWM, Task Order 13-9**  
*Project Manager:* This project entails 8,564 lf of sewer design including concrete collar, connection structures, temporary watermain support, tumbling basins and overflow structures. In addition to sewer design, Benesch provided survey services, soil borings, traffic control and as need ADA ramp design for this project. Mr. Schmanski managed the task order, and was responsible for the design, subconsultant coordination and a properly executed QA process.

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<table>
<thead>
<tr>
<th>Education</th>
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<tr>
<td>BS, Civil Engineering, University of Illinois at Urbana-Champaign</td>
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Mr. Chesnut has over eight years of experience in water, wastewater, stormwater and land development as both a project and design engineer. He also has a diverse background working with state and local governments, regulatory agencies, municipalities, clients and contractors.

His wastewater experience includes sewer collection system condition inspection and evaluation, sewer modeling, collection system rehabilitation, new construction, lift station design and evaluation, and treatment facility design and rehabilitation. Brent has been responsible for all phases of these projects including, pre-design studies, plan and specification development, as well as construction inspection.

Brush Creek Sewer Rehabilitation
*Project Engineer:* Engineering and professional services for neighborhood sewer rehabilitation located in the Brush Creek Basin. The Water Services Department (WSD) intends to perform basin-wide neighborhood sewer rehabilitation for public sanitary sewers 12-inch and smaller throughout the City. This project consists of review of manhole inspection data, CCTV data, and field investigations to identify and quantify structural deficiencies, develop rehabilitation recommendations, and prepare construction contract documents to improve the reliability and performance of the combined sewer collection system located in the BC1 Basin.

Various Sanitary Sewer Designs
*Project Engineer.* Responsible for the design of sanitary sewer systems for multiple development clients. These new sewer systems were designed per each governing agency’s guidelines and standards and have been for a mixture of commercial and residential developers.

Mr. Tucker has more than 24 years of practical engineering experience in a variety of civil engineering and construction projects. He has extensive experience in conducting engineering studies, design and construction supervision for wastewater collection and treatment facilities. Mr. Tucker specializes in program management and construction management services for capital improvement projects at the Detroit Wastewater Treatment Plant, where he has been responsible for resident engineering and contract administration on a variety of rehabilitation and new construction projects. Additionally, Mr. Tucker has expertise in QA/QC testing of construction materials, inspection, and the wastewater treatment process.

CS-1490; Task No. 1 Water Main Replacement and Improvements
*Project Manager:* Water Main Replacement and Improvements in Various Streets throughout the City. Mr. Tucker’s responsibilities included planning, coordination, and design of transmission water main throughout streets in the City of Detroit. The project included design of 18,000 lineal feet of 24” water main and maintenance of traffic control plans. In addition to the water main design, assistance was provided to procure of permits to work within the right-of-ways.

Program Management of Wastewater Treatment Plant Rehabilitation and Upgrade (PC-744)
*Resident Engineer:* Lead Construction Management Team on 10 of 45 Capital Improvement Projects with cost ranging from $2.8 to $17 million for design and construction. Mr. Tucker’s responsibilities included construction contract administration. Major projects included to: Complex I and II Incinerator Burner Train Improvements, (DWP-1003); Aeration Deck Conversion and Improvements, (DWP-1005); Modify Pumping Station No. 2 Grit Cranes, (DWP-1006); Pumping Station No. 1 Rehabilitation, (DWP-1007); Secondary Water System Rehabilitation, (DWP-1033); and Plant-wide HVAC Electrical and Mechanical Upgrades, (DWP-1036).

Education
- BS, Civil Engineering, Wayne State University
- MS, Civil Engineering, Wayne State University

**Years of Experience:** 8

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**Brent Chesnut, PE**
Utilities

**Education**
- BS, Civil Engineering, Wayne State University
- MS, Civil Engineering, Wayne State University

**Years of Experience:** 8

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**Eric S. Tucker, PE**
Treatment Plants

**Education**
- BS, Civil Engineering, Wayne State University
- MS, Civil Engineering, Wayne State University

**Years of Experience:** 24
Mr. Roth has over 20 years of experience as a Project Manager and Design Engineer. In that time he has worked on a variety of projects, including storm sewers, sanitary sewers, wastewater treatment, water distribution, pumping and storage. His stormwater experience includes Preliminary Engineering Studies, infrastructure design, storage, pumping, and Best Management Practices.

M-58 Belton Water Line Improvement Project  
**Project Engineer** for a water line and sewer relocation project for the City of Belton, Missouri, which, among other work, involved relocating 12,000 LF of 8, 10, 12- and 16-inch water mains and 5,300 LF of sanitary sewer lines. The project was located along M-58 highway between Holmes Road and North Scott and was done in conjunction with a Missouri Department of Transportation (MoDOT) roadway improvement project.

Alternate Water Supply Study – Belton, Missouri  
**Project Manager** for a study to determine alternative water supply sources for the City. The City’s objectives were to increase the reliability as well as security assurances from obtain water for multiple sources. This project included the analysis of multiple source options that were available to the City as well as a cost comparison that took into account capital costs, wholesale water costs, and a variety of non-tangible costs and benefits.

Engineering Consultant, Kaw Valley Drainage District  
**Project Engineer**: Benesch has continuously provided engineering assistance to the Kaw Valley Drainage District since 1931. During this time, Benesch has been involved in observing pump testing, review and repair recommendations for all pipe penetrations through the levee, preparing annual budgets, manpower and inspection assistance during the Flood of 1993, coordination with the USACE on behalf of the District on capital projects, and many other projects.

Mr. Westra joined Benesch’s Charlotte office in 2014 as a project civil engineer. He has experience in preparing erosion control plans, traffic control plans, and storm water runoff analysis and modelling for a large variety of sites and conditions. He is also skilled in 3-dimensional grading and pipe network modelling. He has significant experience and expertise in stormwater runoff analysis and management, in terms of closed system design and BMP design.

Catawba Valley Community College Workforce Solutions Center  
**Project Civil Engineer**: In the planning phase, our scope consisted of assisting the architect in the master planning, feasibility study, and preliminary plans for a Workforce Solutions Center. The project progressed to construction documents and permitting. In the final phase of design, Mr. Westra was responsible for the design of site grading plan, erosion control plans, site utility plans, plans for offsite roadway improvements, and plans for an onsite round-about.

Catawba Valley Community College Parking and Storm Sewer Rehab  
**Project Civil Engineer**: This project began as an emergency repair to a significant failure of a major storm drain culvert. This culvert was the trunk of the primary storm drainage system for the campus. Our scope included storm drainage sizing, design, permitting and construction observation of a complex drainage repair. The project has continued and expanded to review and assess the remainder of the aging drainage system on the campus. Mr. Westra was responsible for storm drainage design, analysis of existing drainage system, cost estimating.

Stanley Middle School  
**Project Civil Engineer**: This design and permitting of this replacement middle school includes a multiple phase set up so that school can be built on the site of the existing school. Mr. Westra’s responsibilities included the calculations and design of a balanced grading plan, design of a wet pond BMP, design of site utilities, and erosion control plan.

**Education**  
BS, Civil Engineering, University of Kansas  
**Years of Experience**: 20

**Education**  
BS, Civil and Environmental Engineering, South Dakota State University  
**Years of Experience**: 11
Mr. Gusty is a civil designer specializing in site design including but not limited to utility design, grading, and stormwater design. As a designer for Benesch, he communicates effectively and completes tasks on or ahead of time. He is also proficient in AutoCAD Civil 3D, WaterCAD, and Microsoft Office Suite.

**Novant Mint Hill Medical Center**  
**Civil Designer:** Novant Health Mint Hill Medical Center is a greenfield development of a 81-acre medical center campus. The project includes all aspects of site design for a 50 bed hospital, 100,000 SF medical office building and three out parcel developments of compatible use. Mr. Gusty designed the sanitary sewer and water systems for the hospital building and coordinated permitting with local and state municipalities. He also assisted in the design of the onsite drainage system and site grading.

**Nations Ford Demolition**  
**Civil Designer:** Charlotte-Mecklenburg Schools requested Benesch’s site development services to develop plans for an elementary school demolition. Mr. Gusty developed the demo plans including a site plan, erosion control plan and grading plan. The erosion control plan included the design of a sediment skimmer basin. The plans were then submitted to the NCDEQ for erosion control approval. Mr. Gusty requested capacity assurance to the local utility department for the proposed school that will be developed in the future.

**Liberty at Southpark**  
**Civil Designer:** Mr. Gusty assisted with the design of the utility plans for the multi-building commercial/medical and multifamily development. Mr. Gusty worked with local and state municipalities to get approval of the public and private sewer and water systems. He also assisted with grading and stormwater design aspects of the project.

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**David Gusty, EIT**  
**Site Planning**  
**Education**  
BS, Civil Engineering,  
University of Central Florida  
**Years of Experience:** 5

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**Satish K. Madan, PE**  
**Storage, Treatment and Pumping Stations**  
Mr. Madan has 36 years of experience in a variety of civil/site and structural engineering projects which include study, design and construction supervision of municipal water and wastewater facilities, combined sewer collection systems, underground structures including storm water pumping station, diversion structures, potable water reservoirs, hydraulic structures and retaining structures. He has been responsible for project management, preparation of contract documents, construction management, and preparation of feasibility reports.

**General Engineering Services**  
**Project Manager:** For DWSD Contract No. CS-1432A – General Engineering Services project. Responsibilities included management of multiple tasks, contract administration, preparation of Task Proposals, assignment of work to the sub-consultant team members. Responsible for the management of several tasks with professional fee varying from under $10,000 to over $2 million. These tasks are at various stages of their completion. Technical Responsibilities included QA/QC reviews for the civil/site, architectural and structural portions of the work under various tasks of this project. Major tasks included: Task 025 – Rack and Grit Building Rehabilitation at WWTP to add new pile supported off load facility, provide design for the structural support system for the conveyors and concrete repair/restoration of screening and influent channels and rehabilitation to the existing sampling station building; Task 015 – Rehabilitation of Pipe Gallery for the Rectangular Primary Clarifiers. Major work elements included replacement of process and utility piping and equipment, concrete restoration of the pipe gallery, and six access buildings to the pipe gallery, replacement of stairway, handrails, door and windows, resloping of the gallery floor for positive drainage; and Task 020 – Plant Wide Repavement of Roads. Major work elements included stabilization of the subgrade and replacement of critical roads throughout the plant with minimal to no impact to the operation of the plant.

**Education**  
MS, Structural Engineering,  
Thapar Institute of Engineering and Technology, Patiala, India  
BS, Civil Engineering, Punjab University, Chandigarh, India  
**Years of Experience:** 36
Jacqueline Peleschak has more than 27 years’ experience in wastewater and water treatment, sewage facilities planning, water supply and distribution, wastewater collection, Underground Storage Tank (UST) installation design, UST removal and closure planning, Environmental Site Assessments (ESA), and water rate study preparation.

Sewage Treatment Plant Expansions, Butler Township, Luzerne County, PA
Project Manager: Responsibilities included the preparation of an Act 537 Sewage Facilities Plan update, engineering design for expansion of two sewage treatment plants from 0.6 million gallons per day (MGD) at the St. Johns Treatment Plant and 0.4 MGD at the Drums Treatment Plant to one plant of 2.2 MGD with a 1 MGD pump station. Additional design includes sewer lines, and I&I services. Total project cost estimated at $16,500,000.

Infiltration & Inflow Improvements, Municipal Authority of the Borough of Ringtown, Schuylkill County, PA
Project Manager: Responsibilities included the preparation of a Sewer System Evaluation Study (SSES) which consisted of flow data collecting and analyzing to determine where infiltration and inflow (I&I) is occurring in the collection system. Sub-basins #1 and #4 were determined to have high I&I. A slip-lining and replacement project was designed and constructed for those sub-basins.

Infiltration & Inflow Improvements, Beaver Meadows Borough, Carbon County, PA
Project Manager: Responsibilities included the preparation of a SSES which consisted of flow data collecting and analyzing to determine where I&I is occurring in the collection system. Based on the information in the study, we designed slip-lining projects for Dean and Beaver Streets and a sewer replacement project for Church Street.

Mr. Greige has nearly three decades of experience in engineering systems design and project management for governmental, educational, advanced technology, automotive, research facilities, parking structures, sport facilities, health care, renewable energy and energy conservation projects. He is experienced in the project implementation from initial concepts to final testing and acceptance of the projects with expertise in: power distribution, lighting systems, controls, fire and safety systems, energy conservation systems, wireless, AudioNisual, CCTV, CATC, PBXs, LAN, WAN and card access control systems. Mr. Greige has been responsible for the project management, site inspections and electrical and I&C design including power distribution, equipment layout, wiring, power loads and thermal calculations.

General Engineering Services, City of Pontiac, MI
Project Manager and Electrical Engineer: This project involved the redesign of power and lighting fixtures to replace 700 street lights to LED type. Benesch performed the evaluation of city streetlight alternatives and the development of a comparison study of two similar street lighting areas. Prepared photometric lighting design for the new street lighting fixtures. Implemented phase one of the project where several hundred of existing Cobra head metal halide fixtures were replaced with new high efficiency LED fixtures. Phase II, designed lighting system for over 500 fixtures, 90 poles with foundation, traffic signal controls, power relocation and provided solution for lighting power distribution issues. Mr. Greige assisted and prepared document to secure State of Michigan grant to the City of Pontiac for replacement of low efficient fixtures to high energy efficient LED fixtures.

Education
B.S., Environmental Engineering, Pennsylvania State University

Years of Experience: 27

Education
MS, Electrical Engineering, Wayne State University
BS, Electrical Engineering, Wayne State University

Years of Experience: 29
William J. Popp, PE, LEED GA  
Storage, Treatment and Pumping Stations

Mr. Popp specializes in water system design and project management, including wastewater treatment systems, sanitary sewers, pumps, control valves, structures, generators, CSO retention treatment, project right of way determination and more. He has provided these services for numerous local and county agencies across Michigan.

**Great Lakes Water Authority CS-1738 Orion and Newburgh Pump Station Improvements**

*Project Manager:* This project involved the removal and replacement of four pumps, motors, variable frequency drives, meter, backup generator, control systems, overhead crane installation, building modifications, and site improvements. Mr. Popp served as the Project Manager and Process Design Engineer for upgrades related to the station capacity increase.

**Great Lakes Water Authority CS-1749 Ford Road Booster Station Improvements Project**

*Manager and Process Design Engineer:* Mr. Popp led the engineering team from concept through to construction which improved booster facility pressure regulation. Booster facility needs to regulate pressures more effectively.

**Great Lakes Water Authority CS-1771 Lake Huron Water Treatment Plant Flow and Instrumentation Improvements Project**

*Process Design Engineer Surface Water Treatment Plant Project Manager:* Mr. Popp’s responsibilities on the project included evaluation of flow metering alternatives and recommended Basis of Design for all instrumentation.

**Great Lakes Water Authority CS-034 Southwest Water Treatment Plant Station Right Sizing Process Design Engineer Surface Water Treatment Plant Project Manager:** Mr. Popp led engineering efforts for header valve evaluations and oil hydraulic supply system demolition for this project.

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James Messineo, PE, LEED GA  
Storage, Treatment and Pumping Stations

Mr. Messineo has 28 years of engineering experience in the design, construction, and start-up of power, control and process instrumentation systems for water, wastewater, military and industrial campuses and facilities. He has experience in industrial control systems and the design and implementation of computer control and data collection at primary and remote facilities. Mr. Messineo has also been involved in the electrical design and power flow capabilities of medium and low voltage looped distribution systems at the campuses of the Detroit Metropolitan Wayne County Airport, Camp Grayling Army National Guard Base, Wayne State University, the Detroit Water and Sewerage Departments (DWSD) Wastewater Treatment Plant, DWSD Springwells Water Treatment Plant and DWSD Lake Huron Water Treatment Plant.

**Capital Improvement Projects (CIP) Project at Downriver Wastewater Treatment Facility, Wyandotte, MI**

*Project Manager/Lead Electrical Engineer:* Benesch provided $11.3 million Capital Improvements to the facilities at Downriver Wastewater Treatment Facility (DWTF) including aeration basin structural rehabilitation and associated improvements, primary settling tank improvements, electrical and substation upgrades influent pump station variable frequency drive modifications and design of new polymer system. The restoration design included repair of cracks, repair of leaking control and/or expansion joints, repair of distressed concrete, repair of leaking roof penetrations, repair or replacement of existing interior coating systems (with oxygen compatible system) and necessary reinforcement to existing structural components. Benesch also provided the electrical power design for three new VFD drives for the influent pumps; the electrical power design of new medium voltage and low voltage switchgear; and rehabilitation of the existing MCC’s at the Aeration Basin.

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**Education**

**Years of Experience:** 30

BS, Civil Engineering, 1986,  
Michigan Technological University

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**Education**

**Years of Experience:** 28

B.S.E.E.T., 1989, Lake Superior  
State University

A.S.E.T., 1986, St. Clair County  
Community College
SECTION 4
LOCATION

SECTION 5
FINANCIAL STABILITY

Benesch has the financial stability to take on any project that may come from this contract. We have the necessary resources, human and financial, to provide the services at the level required. Upon request we are prepared to supply a financial statement indicating our stability. We are audited annually by an accredited accounting firm and will be happy to furnish these at any time.

SECTION 6
INSURANCE

Benesch maintains professional and commercial liability, as well as workers compensation insurance to meet the requirements of our clients. We can and will furnish these prior to entering any contracts with the City.
The following references can speak to our quality of service and responsiveness on previous projects:

**Amye King**
Planning Director  
City of New Smyrna Beach  
386-410-2800  
*Services:* We currently have a Traffic Engineering Services Contract with the City of New Smyrna Beach involving multiple Task Work Orders.

**Joseph Fennell**
Retired Director  
Northwest Suburban Municipal Joint Action Water Agency  
630-915-8474  
*Services:* Watermain relocation projects, sewer studies, rehabilitation projects

**Lois Bollenback**
Executive Director  
R2CTPO  
386-226-0422  
*Services:* We have worked with Lois for many years and she can speak to our responsiveness and services.
CONCLUSION
Benesch has assembled a depth of resources to help our clients focus on the growing challenges with maintaining and repairing our aging infrastructure. With competing needs for funding, it is essential that we take an innovative look at projects to identify better and more cost-effective ways to do the same things we have done for years. It is important to look at the function of what each element does in a system and determine if there is a better way to accomplish that same goal.

We are poised to help UCNSB do just that. Combining our innovative process for value planning with our technical talents in civil engineering services, we bring a full circle perspective on solving your utility challenges.

WHY CHOOSE BENESCH?
We understand you have a choice in engineering firms, Benesch would be honored to assist you with these project, and offer you the following benefits:

- **LOCAL, RESPONSIVE SERVICE**
  Located just 30 minutes from your office, we are poised to assist you quickly.

- **NATIONAL TECHNICAL EXPERTISE**
  Although we are your local firm, we bring you experience with hundreds of similar projects. We bring extensive lessons learned to your projects.

- **EXPERIENCED PROJECT MANAGER**
  Laura McGovern, PE brings 32 years of utility, water and wastewater projects to you.
March 27, 2018

RE: RSQ 10-18 Continuing Professional Services ADDENDUM No. 1

To prospective vendors:

The Utilities Commission is issuing the following addendum. **As such it becomes an integral part of the proposal and must be acknowledged by the return of this signed form, with your proposal form, acknowledging receipt of the addendum.**

The following questions have been asked and are answered below:

1) Are the forms (Exhibits A-C) listed in the Table of Contents (page 18) part of the sample contract? If so, is it correct to say that they are not required at this time?
   Yes, they are part of the sample contract. It is correct to say that they are NOT required at this time.

2) Since the City is selecting firms for survey and geotechnical services, does that mean that teams for the Civil Engineer position do not need to include these services?
   Correct, we are not evaluating teams. Firm should be submitting just for the specific professional service. If firms have the capabilities of multiple services, they may submit separate statements for each of the professional services they feel they are qualified for.

3) Are the references requested in Subject 8 different than the references requested in Subject 1?
   Yes. The references in Subject 1 are project specific references. The references in Subject 8 are current continuing service contract references and not project specific.

4) Is any feedback required prior to or during the RSQ process with respect to the Sample Agreement language?
   No feedback is required prior to the RSQ. The UCNSB intends to contract with 12 consultants. We intend to have all agreements the same.

   Once selected, requested changes to the contract will be assessed in totality. Changes made will be routed to all consultants for review, assessment, and acceptance. The last agreement (2014) is attached for review, but also only a sample.

5) Please confirm that the proposal cover and tabs do not count towards the 30 double-sided pages.
   **The Cover and Tabs, DO NOT count.**

6) Is it acceptable for proposals to be submitted in a 3-ring binder or is GBC-binding preferred?
   **The UCNSB does not have a preference.**
7) Should Exhibit C-Truth in Negotiation Certificate/Statement Concerning Competitive Act be executed and included in proposal?
   Only after firms are selected and agreements signed and submitted for Commission consideration would we require any of the forms to be signed.

8) By 30 double-sided pages, do you mean 30 sheets of paper, printed on both sides (60 pages) or 15 sheets of paper, paper printed on both sides? If they are not double sided, how many pages (sheets of paper) are we allowed? Are the cover letter, Table of Contents and resumes included in the page count?
   30 double-side pages is self-explanatory.
   Only the cover page and tabs are excluded from the overall page count.
   All other pages (including table of contents and resumes) count towards the 30 double sided.

9) The ranking sheet lists schedule, ability and commitment to schedule; Track Record/Past Performance; and Availability of Team (location, workload), but none of these (other than location) are listed in the outline of what to include in the submittal. Are you planning to get all this information from the references? And where should we address workload?
   The consultant ranking sheet has been revised to match the subjects.
   We don’t intent to assess consultant’s current workload. We presume that if you are submitting, you have the ability to serve the Commission in a timely manner.

10) In your answer to No. 6 of the FAQ, can we assume you are referring to the selected consultants submitting the Schedule of Direct Cost for Staff of Consultant’s Organization (since per CCNA, no pricing is to be submitted during the qualifications phase)?
    Correct, the selected consultants, once agreements are approved, will submit staff pricing on a project by project basis.

11) In Financial Stability, what do you mean by a certified statement of financial stability? Does this mean you want it notarized or to come from and outside source? (or both?)
    A statement signed by the principal of the organization would suffice.
    After the selection process, the firms would need to be “PREPARED to supply a financial statement”, of which there are several acceptable options mentioned in the section.
    The submitting consultant is responsible to determine the best way to submit for evaluation, their financial stability.
Addendum No. 2 Received By:

Laura McGovern
Printed Name

Submit this signed form with your proposal on April 5th.