



West Virginia
Division of Natural Resources
Property and Procurement Office
324 4th Ave
South Charleston, WV 25303-1228

Subject: A/E Services for Bowden State Fish Hatchery Rehabilitation

December 12, 2017

Dear Members of the Selection Committee:

201 Pennsylvania Avenue
Suite 400
Charleston WV 25302-2315
United States of America

T 304.356.3010
F 304.357.9222
mottmac.com

Mott MacDonald is pleased to present this Expression of Interest (EOI) to provide engineering services necessary to provide a plan for the complete rehabilitation and/or repairs of the Bowden State Fish Hatchery, including water supply, treatment, and all rearing and growing facilities. This EOI will address our qualifications, experience, approach, and methodology for meeting project goals and objectives.

Mott MacDonald is a multi-disciplined engineering and architectural consulting firm employing highly qualified staff with many years of experience in delivering civil engineering and surveying services; including everything from the evaluation and design aspects through to the procurement, delivery, and assurance aspects.

We have assembled a team ready to work collaboratively with WVDNR's engineering, management, and operations staff to provide the utmost quality service to deliver an efficient and cost-effective repair and rehabilitation.

We believe the Mott MacDonald team is the best choice for this project and offer the following benefits:

- ✓ Proven local Charleston-based project management and technical support
- ✓ Proven record of projects completed on time and budget
- ✓ Knowledge of state government contracting practices and procedures
- ✓ Knowledge of WVDNR practices and procedures
- ✓ Additional technical support from offices in Morgantown and Pittsburgh

In summary, Mott MacDonald understands that it is imperative that WVDNR select a consultant who has a complete understanding of the project goals and objectives, from concept to commissioning. On behalf of our entire team, we thank you for your careful consideration and look forward to the opportunity to serve the West Virginia Division of Natural Resources and the State of West Virginia.

Sincerely,

Mott MacDonald

Handwritten signature of Stephen Polen in blue ink.

Stephen Polen, PE
Senior Vice President
412.497.2950
Stephen.polen@mottmac.com

Handwritten signature of Gary Facemyer in blue ink.

Gary Facemyer, PE, PS
Senior Associate and Project Director
304.356.3011
Gary.facemyer@mottmac.com



**State of West Virginia
Expression of Interest
Architect/Engr**

Procurement Folder : 392857

Document Description : A/E Services for Bowden State Fish Hatchery Rehabilitation

Procurement Type : Agency Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version	Phase
2017-11-10	2017-12-13 13:30:00	AEOI 0310 DNR1800000006	1	

SUBMIT RESPONSES TO:	VENDOR
BID RESPONSE DIVISION OF NATURAL RESOURCES PROPERTY & PROCUREMENT OFFICE 324 4TH AVE SOUTH CHARLESTON WV 25303-1228 US	Vendor Name, Address and Telephone Mott MacDonald 201 Pennsylvania Avenue Charleston, WV 25302 T: 304.356.3010

FOR INFORMATION CONTACT THE BUYER

Angela W Negley
 (304) 558-3397
 angela.w.negley@wv.gov

Signature X

FEIN # 16-1006700

DATE December 12, 2017

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Expression of Interest
 A&E Services for Bowden State Fish Hatchery

The West Virginia Division of Natural Resources (WVDNR) is soliciting AEOI responses from qualified firms to provide architectural /engineering services for rehabilitation of the Bowden State Fish Hatchery Hatchery per the attached bid requirements, specifications and terms & conditions.

INVOICE TO		SHIP TO	
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV25305 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES BERKELEY SPRINGS STATE PARK 121 SOUTH WASHINGTON ST BERKELEY SPRINGS WV 25411-3284 US	

Line	Commodity Line Description	Qty	Unit Issue
1	Architectural engineering		

Commodity Code	Manufacturer	Model #	Specification
70101803			

Extended Description

A/E design services and contract administration for rehabilitation of the Bowden State Fish Hatchery..

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Technical Question Deadline 9am	2017-11-29

DNR1800000006	Document Phase	Document Description A/E Services for Bowden State Fish Hatchery Rehabilitation	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

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- Quality assurance plan

3. Approach and understanding

- Goals and Objectives

4. Resumes

5. Required forms and certifications

- Company and staff licenses
- Sample insurance
- Designated contact, certification, and signature form
- Addendum acknowledgement form

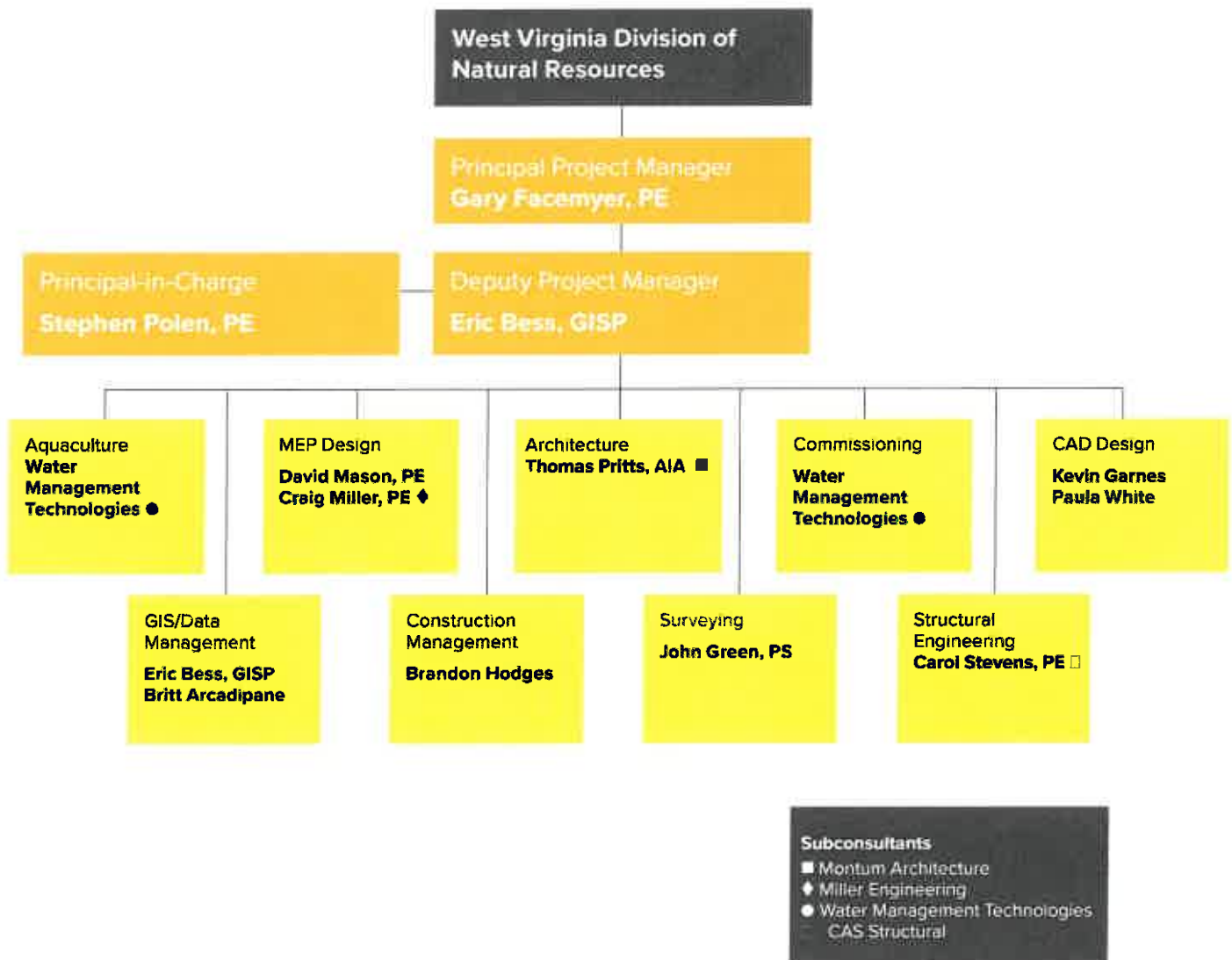
Team qualifications

The Mott MacDonald team includes the very best technical and management staff, all dedicated to the successful delivery of the Bowden State Fish Hatchery Repairs project. We understand WVDNR's need to select a consultant who will deliver the project on time, on budget, efficient, cost-effective and with the appropriate level of leadership and guidance. The team has experience with West Virginia state government contracting practices and procedures.

Mott MacDonald's staff has strong technical capabilities as well as clear understanding of all project phases, which enables the team to efficiently and cost-effectively execute the project to WVDNR's satisfaction. We look forward to collaborating with WVDNR staff to offer creative and reliable measures to provide fish hatchery repairs at Bowden.

Team organization

Our team will be led by a Charleston-based senior project principal and supported by highly experienced regional experts in all aspects of aquaculture planning and design, as well as facilities rehabilitation. Our complete project team is reflected in our organization chart below. Detailed resumes of key staff members are also included.



Gary Facemyer, PE, PS will provide overall project management. He has more than 40 years' of responsible charge of public works projects in West Virginia. He has served as Principal Project Manager and Project Engineer for various water, wastewater, site development, solid waste landfills, earthen dams, geotechnical investigations, abandoned mine reclamation projects, hazardous waste sites, and many other miscellaneous civil engineering projects. His duties have included project planning and design, managing construction bids and awards, construction oversight and inspection, and project closeout.

Eric Beas, GISP will assist Gary with schedule, budget, meetings, documentation, and data management. Eric has over 17 years' in GIS, data, and asset management experience across a broad range of sectors. He has served as Project Manager on various projects, including water, stormwater, GIS and asset management, data collection initiatives.

John Green is a Registered Professional Surveyor with over 30 years of experience in the engineering industry in surveying or survey related capacities and as an engineering design technician. He is expertly qualified in most conventional types of surveying and is also experienced in GPS surveying techniques. His specific project experience is primarily in transportation, site design and environmental infrastructure such as water and sewer system projects.

Kevin Barnes has almost 40 years of experience in the civil and architectural design field, including managing a CAD systems network and personnel with an extensive working knowledge of AutoCAD. He has been responsible for design, specifications, cost estimates, and quality control of construction documents for water and wastewater treatment plants, water storage tanks and distributions systems, sanitary sewer pump stations and collection systems, landfill design and permitting, bridge and highway design, right-of-way acquisition, and mining and reclamation plans.

Brandon Hodges has 20 years of experience in the engineering and construction industries. Through a variety of projects and responsibilities, Mr. Hodges has continued an upward rise in the engineering field. Specializing in the utilities industry, he can perform a multitude of tasks in project management, from design and layout, to inspection and quality control testing. He has served as Resident Project Representative on many multi-million dollar projects, and has experience with client interface, site analysis, contracts, plan and code review, and all functions relative to construction administration from groundbreaking through project completion.

Thomas Roth, AIA, LEED AP, CMAA founded Montum Architecture in 2017. He has more than 14 years experience in design, specification, and project management. During his former employment, he designed and managed dozens of built projects. His experience encompasses a wide range of projects. A native of Mineral County, Tom is member of the West Virginia Chapter of American Institute of Architects and was involved in the establishment of the US Green Building Council's West Virginia chapter. He is highly skilled in the design of complex building systems, technical construction detailing and specifying, and construction contract administration.

Craig Miller, PE founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the "Relationship Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

Carol Shuman, PE is the President of CAS Structural Engineering and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 25 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

Subconsultants

Mott MacDonald has carefully selected subconsultants that we have worked with and/or have worked with WVDNR in the past, have a very good professional reputation, and have direct relevant experience.



Water Management Technologies (WMT) specializes in the design, integration and supply of water treatment equipment and systems for the global aquaculture industry. WMT's three main customer types are government and tribal fish hatcheries, commercial fish farms

and research entities. WMT offers customers discreet components or complete integrated recirculation systems (RAS). We also offer a host of services related to new or renovated fish hatcheries.

Following are the primary products and services WMT offers.

- Bio-planning
- Conceptual System Design
- Recirculation System Design
- Preliminary Recirculating Aquaculture System (RAS) Equipment Selection and Sizing
- Water & Electricity Budgets
- RAS Monitoring, Motor and Process Control
- Fish Handling & Transportation
- Fish Feeding Strategies
- Biosecurity
- Incoming water treatment
- Wastewater treatment and sludge disposal
- Mortality handling system
- Detailed Design
- Equipment supply
- System Start up, Commissioning and training
- O&M Development

Montum



Montum Architecture, LLC was founded in 2017 to provide architectural design services to clients in West Virginia and western Maryland and they are located in Keyser, WV. Staff includes one licensed architect performing all tasks and duties. This ensures the utmost coordination of building plans and specifications with minimal potential for miscommunication. Montum

will monitor and adjust the design tasks in order to complete the design work on the established timetables. They will also work diligently during project construction to maintain the contractual constraints placed as part of the contractor's bid.

Tom Pritts has completed dozens of architectural works across the state. Due to the recent founding of the company, work experience is listed under the professional resume section.



Miller Engineering, Inc. (ME) brings 20 years of experience in public works projects throughout West Virginia and the region. Current clients include the WVDNR. Each and every project is approached with a complete assessment process. Miller Engineering values the relationship with the client and other professional stakeholders to deliver projects in a timely, constructible, and professional manner. Facilities are designed to be functional and must serve their intended purpose. Miller Engineering is an integral and interactive solutions provider within this process. Value to a client is to control first and life cycle cost. Excellence in design solutions is practiced and maintained through consistent site visits during the construction process. Miller Engineering designs electrical, instrumentation and communication systems for new construction and renovations. Clients find value when working with Miller Engineering due to a history of below industry change order rate. Upfront planning, quality control, and estimating deliver our projects.



CAS Structural Engineering, Inc. - CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise (DBE) structural engineering firm located in the Charleston, West Virginia area.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 25 years on the following types of building and parking structures:

- Governmental facilities (including Institutional and Educational facilities)
- Industrial facilities
- Commercial facilities
- Parking structures

Projects range from new design and construction, additions, renovations, adaptive reuse and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enercalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

While CAS Structural Engineering, Inc. has only been in business for ten years, Carol has over 20 years of experience in the building structures field, working both in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering. CAS Structural Engineering, Inc. maintains a professional liability insurance policy.



Communication, schedule, and budget

Effective communication

Mott MacDonald believes communication is the key to a project's success. Open, frequent communication of project progress, beginning with the design through completion of the construction phase, enables the client to stay engaged and knowledgeable on the projects status and allows for client feedback at critical milestones to avoid duplicated efforts or re-work that can negatively impact a project's budget and/or schedule. At the onset of the project, Mott MacDonald will work with the client to identify the project stakeholders and communication parameters. Meeting agendas, topics, minutes, and action items will be documented and distributed to the stakeholders for review and acceptance to ensure everyone agrees and is unified in the understanding of the meeting topics and action item responsibilities. Any deviation from scope that may arise during the project will be documented and discussed with the client as to the deviation's impact to budget and schedule so the client is aware of these situations immediately.

Design reviews will be conducted at each stage of the design process; schematic design, design development, and construction documents. The schematic design phase will document the development of each project and its major components. This phase will include a project narrative that describes the Owner's goals and objectives; existing conditions; ecological, cultural, and environmental resources; legal/regulatory approvals needed; description of proposed solutions, and basis of design. A site/landscape plan will be developed along with a construction cost estimate and project schedule. Owner will approve the schematic design before progressing on to the design development phase. The design development phase is intended to further develop the project design with greater detail. At this stage, investigations will be made to establish the topographic, facilities and boundary information; ecological, cultural, and environmental resources to be protected; and the RF information all needed for the final design. Owner will approve the design development documents before progressing on to the final design phase. The development of final design, construction documents, bidding and contract documents will be reviewed at 30%, 60%, 90% and 100% to keep the Owner engaged throughout the project design.

Upon Owner approval of the bidding and contract documents, Mott MacDonald shall coordinate and cooperate with the Owner and WV Purchasing Division to facilitate the bidding process, including issuance of addenda, if necessary. Upon contract award, Mott MacDonald will provide construction phase engineering services, a full or part-time resident project representative, and commissioning services, if requested. Mott MacDonald will attend a pre-construction meeting, if requested. Construction phase services will include material submittal reviews, project site visits, written periodic reports on progress and quality of work, resolve field conflicts, prepare change orders for actual field conditions encountered, recommend approval of progress and final applications for payment and make final recommendations on acceptance of work.

Tools for Efficiency and Working Across Offices

Bentley ProjectWise: Provides a platform for integration and collaboration of remote teams allowing them to function as a single project unit. The ProjectWise system is designed to work with complex linked or referenced engineering, GIS, CAD, and BIM content. The system allows project work to be fully managed and available to project contributors without the traditional delays or format changes that can cause errors and slow production schedules. ProjectWise allows project teams to review, perform quality control, administer redline documents, and manage all project files and content between office locations electronically without the need to ever remove files or content from the system.



Microsoft 365 with Skype: Mott MacDonald invested in a major technology upgrade to our IT systems and bandwidth at all offices over the past 12 months that included the deployment of Microsoft Office 365 communication software. This software, which incorporates Skype and is integrated with Microsoft Outlook, combines contact management, email, telephones, instant messaging and presence technology, video conferencing, and internet-based meetings through laptop and desktop users, plus deployment to all popular mobile devices including iPads and Surface tablets in the field. This technology allows our project manager to know the status of all the team members and be able to contact and coordinate in real-time with everyone, hold impromptu meetings, share files and computer desktops with other Mott MacDonald professionals.



GoToMeeting: GoToMeeting is an online meeting, desktop sharing, and video conferencing software that enables Mott MacDonald to meet with our clients and subconsultants via the Internet in real-time.



BIM: Building Information Modeling (BIM) is an intelligent 3D model-based process that equips architecture, engineering, and construction professionals with the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure. Commonly our engineers will demonstrate their design in BIM to help the Client and Contractor visualize the work and ensure conflicts do not exist.



Ability to meet schedules and budget estimates

WVDNR requires services from qualified consulting firms to provide professional expertise for the various engineering components of the Bowden State Fish Hatchery Rehabilitation project. These services will be identified by WVDNR; but likely include existing facilities analysis, repair design(s), and construction administration. When each task is scheduled, it is the expectation of WVDNR that the Mott MacDonald Team will be suitably staffed and available with experienced professionals who can meet the immediate needs of WVDNR.

This Mott MacDonald team has completed dozens of like projects. We are also familiar with WVDNR's project delivery requirements and have developed processes and procedures to effectively deliver the required services on time and with a high degree of success. To meet your expectations, Mott MacDonald has assembled a team with the management skills and expertise needed to address this project effectively. Each team member brings specific, direct and pertinent experience as well as an in-depth understanding of working with fish hatchery repairs.

The Mott MacDonald Team's plan for conducting and providing the services requested by WVDNR involves both managerial and technical competency and processes. These include:

- An efficient organization structure that is responsive and flexible to client requests
- Experience in management of facilities for federal, state, and local government entities
- Effective assignment implementation plan
- Unequaled knowledge of the project requirements
- Ability to deliver deadlines
- Meet or exceed the WVDNR's project objectives on time and on budget, within established funding parameters
- Superior technical expertise
- An emphasis on stakeholder consultation and communication
- Maintain comprehensive, in-depth reporting on all elements of an assignment
- Integral quality control / quality assurance plan
- Commitment to delivering value to WVDNR

The elements identified above are addressed herein and in the sections that follow to demonstrate our understanding of this project assignment.

Staffing structure to meet schedules

The Mott MacDonald Team's organizational structure is designed to be flexible and is tailored to be responsive to WVDNR's specific requirements at each unique site location and for each assigned design task. Expert leadership is available in depth for all technical disciplines identified under this solicitation. These resources will be quickly mobilized and assigned to efficiently complete each task and maintain the project schedule. The Mott MacDonald Project Manager will assign the requisite resources for an assignment to control scope, schedule, budgets and perform quality assurance on all project deliverables. This Mott MacDonald team provides the following:

- A team of managers, architects, and engineers who have knowledge of the WVDNR's standards and procedures, and who will apply this knowledge to the project.
- Responsiveness to keep the project on-schedule.
- A project organization that provides dedicated teams for the various tasks to allow for multiple deliverables to be performed simultaneously.
- A compact team that can provide 100% of all A/E services.
- Thorough knowledge of the tasks expected within the project scope.
- A quality control / quality assurance plan that allows review of all deliverables of varying size and complexity.
- Cost estimating and scheduling capabilities that focuses on the unique construction environment at each site location and affords this focus on both a general and detailed level.

It is mandatory that projects be executed in a timely manner, within budget, and delivered seamlessly with no surprises. This will be accomplished with an active risk management program through design and construction and using our proven management and quality assurance techniques. A successful project requires a keen focus and excellent communications to assure smooth and efficient operations. The Mott MacDonald team realizes effective collaboration with WVDNR's Project Manager will be crucial. Hallmarks for each deliverable will be constructability, safety, security and added-value while minimizing inconvenience to the local residents and traveling public. This Team will endeavor to exceed WVDNR's expectations for sustainability by incorporating a high degree of sustainable design and construction practices.

Our approach to a project's undertaking is to provide ample client review opportunities, so that WVDNR's project management team fully understands the project approach, relevant criteria and sees project progression many times during its development. This affords two-way dialog between the project and client leading to active comment and suggestion incorporation as the project develops. This collaborative effort strengthens initial concepts and leads to comprehensive and well thought out work products.

Effective communication

A critical component of a successful project is to ensure that all participants work to the same plan. This project will include a specific Project Plan of Work (PPW) that is a key part of our project control and quality management system and includes sections on contacts, communication protocols, reporting, task assigned individuals, scope, budget, schedule, work breakdown structure, deliverables and specific project criteria. The PPW will be updated during the course of the assignment to incorporate any changes as necessary. The purpose of the PPW is to ensure that all project participants have a clear understanding of the assignment goals before any work begins and enables Mott MacDonald to best utilize the skills of its staff and identify if any additional resources are required.

Regular internal meetings, monitoring progress and corrective actions, will be held to maintain the schedule, and we will keep WVDNR informed of the status of the assignment to enable WVDNR to maintain control of the decision-making process.

The Mott MacDonald Team Project Manager, Gary Facemyer, PE will be responsible for overall Contract Management, ensuring the team meets its commitments for the project and would be the direct point of contact for assigned tasks. Gary will lead the effort and be supported by the various discipline experts to complete specific work required under the contract. Gary will assure that each task has appropriate levels of support and resources for successful completion of assignments. Gary will communicate regularly with the WVDNR Project Manager to assure work is progressing in a manner that meets or exceeds expectations.

This team approach has worked effectively to manage Mott MacDonald's previous experience with similar projects and has taught us that the availability of qualified technical and support staff is essential to effectively serve clients. Having a diverse breadth of staff both locally and corporate-wide, affords flexibility to assign the appropriate technical staff.

Implementing proven budgeting and scheduling solutions

The key to on-time and on-budget performance lies in successfully combining the scope/deliverables, budget and schedule, into a Work Breakdown Structure (WBS). However, as we have experienced on previous projects, we must also continuously communicate with WVDNR as the work is executed and collectively agree to adjust scope and schedule as necessary to deal with unanticipated conditions or events. We believe it far more important to deliver the right project rather than meet a schedule but for the wrong project. The WBS is critical to the successful execution of the project as it establishes what is to be done, who is to do it, how / who will check it, when it will be done, and the budget for the work. Mott MacDonald's Business Management System includes policies on project execution and a suite of project control tools Gary will employ to control, responding to each project task with qualified and experienced staff and produce quality work products delivered on time and within budget.

Gary will be responsible for preparing and administering a Project-Specific Project Management Plan. He will use Mott MacDonald's proprietary Project Management Desktop for defining task budgets and real-time tracking of actual costs.

Each task schedule will be updated on a bi-weekly basis and submitted with monthly progress reports to WVDNR. All stakeholders will be kept informed on a timely basis with respect to the current progress, critical activities, potential delays, mitigation strategies, and corrective actions.

Any change to scope will be immediately assessed by the Mott MacDonald team to consider impacts on current and completed work and to determine the most effective way to integrate the additional scope into the current schedule. If schedule problems develop, our Project Manager will coordinate with our team to assess the problem and develop a revised schedule that all team members can buy into and move forward with to meet the project goals.

Mott MacDonald will use appropriate scheduling software (MS Project) to prepare and monitor the approved assignment schedule and resources. Weekly updates will be tracked to indicate adherence to assignment targets and also provide early warning of activities that are not in compliance with the schedule thereby enabling resource, budget, and scope decisions to be made.

Quality assurance

The Mott MacDonald QA/QC goes beyond checking deliverables prior to submittal. It is a daily work ethic instilled into all of our managers, designers, and technicians.

We understand that WVDNR is making a major capital investment on this facility. As with any major purchase, buyers want the most for their money. They want quality, durability, reliability, and all for a fair and reasonable price. Regardless of size or scope, it will require close coordination between multidisciplines, designers, and construction personnel under unique site characteristics. The Bowden State Fish Hatchery Rehabilitation project will require a plan to control quality – a plan that not only addresses quality of the design but also establishes a process to promote quality of conformance, and quality of performance.

Mott MacDonald's process to quality is based on a well-established process, called our Business Management System (BMS). As a part of our commitment to quality, Mott MacDonald submits our procedures to external assessments carried out by independent nationally accredited assessors. This assures an independent evaluation of our policies and procedures and substantiates Mott MacDonald as an ISO 9001 accredited firm. The ISO 9001 accreditation is an independently verified certification that Mott MacDonald has established a formal Quality-Assurance program and verifies that we actually follow those procedures. We have invested in this certification as a commitment to our clients that quality will be upheld throughout our work product.

Mott MacDonald and the entire project team are committed to providing WVDNR with the highest quality of services for this project. We take the approach that quality control begins even before the Notice to Proceed is issued. It begins once the Project Manager thoroughly understands the scope of services for the project, and then assigns and dedicates the very best personnel suited to the tasks that are required. **Gary Facemyer, PE, PS**, Mott MacDonald's Principal Project Manager will be ultimately responsible for establishing and maintaining the Quality Control/Quality Assurance Programs for this project. Any quality procedure or system like our BMS is only useful when it is followed. For Mott MacDonald, in order to ensure quality and achieve success, every member of the project team must do their job. Our project management team clearly understands the importance of quality and our approach is summarized the outlined QA/QC plan below.



The benefits to WVDNR and Mott MacDonald by following these simple steps are endless: a process, if executed, will dramatically increase the chances for success. In the consulting engineering field, a company's greatest assets are its employees. **We firmly believe that no one is better or more equipped and dedicated to providing you with quality projects and services than our local Project Manager.**

Approach and understanding

Goal/Objective 1

Review the existing plans and conditions, as well as the operation of the facility, and evaluate while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize disruption to concurrent operation of the facility and meet all objectives.

Proposed Activities

1. Review existing plans, condition reports and operational procedures
2. Meet with WVDNR engineering and facility operations staff to determine a plan that will minimize disruption of existing operations, yet meet all objectives.
3. Develop a written plan to investigate the current situation and determine causes.
4. Prepare a report that recommends methods to rehabilitate structures and piping that meet WVDNR needs and objectives; and minimizes disruption to existing operations.

Goal/Objective 2

As a portion of this process outlined in Objective 1, provide all necessary services to design the facilities described in this EOI in a manner that is consistent with the Division of Natural Resources needs, objectives, current law, and current code; while following the plan to design and execute the project within the project budget.

Proposed Activities

1. Prepare preliminary design documents, including final design criteria, preliminary drawings, outline specifications, and written description of the project.
2. Present the project to engineering and operations staff for review and input into the final design.
3. Prepare opinion of probable total project cost and schedule for approval and make design adjustments, if needed.
4. Prepare construction drawings and specifications showing the required work.
5. Prepare opinion of probable total project cost and schedule based on the final design documents.

Goal/Objective 3

Provide Construction Contract Administration Services with competent professionals that ensures the project is constructed and functions as designed.

Proposed Activities

1. Assist WVDNR in drafting contract and procurement documents.
2. Attend pre-bid meeting to provide technical support.
3. Provide technical support during bid question period.
4. Serve as WVDNR's representative during construction:
 - ✓ Manage the construction phase, including on-site inspections as client's engineer
 - ✓ Manage the construction phase schedule(s) to minimize facility disruptions
 - ✓ Confirm that materials meet specifications
 - ✓ Oversee construction requirements
 - ✓ Provide punch list to contractor based on the installation contract and site inspections
 - ✓ Assure work meets the design and operational contract terms

M**M****MOTT
MACDONALD****David Facemyer PE FS****Personal summary****Education:**

BS, Civil Engineering,
WV Institute of Technology,
1975

Registration:

Professional Engineer

KY, 18676, 1995
OH, PE56731, 1993
PA, PE042965R, 1992
VA, 0402 024022, 1993
WV, 8287, 1980

Professional Surveyor

WV, 1320, 1995

Memberships:

American Society of Civil
Engineers (ASCE) Fellow

American Water Works
Association (AWWA)

Water Environment
Federation (WEF)

WV Society of Professional
Surveyors (WVSPS)

Mr. Facemyer has been responsible for planning, permitting, design, and construction of public works projects for 40 years. He has served as Principal Project Manager and Project Engineer for various water, wastewater, site development, solid waste landfills, earthen dams, geotechnical investigations, abandoned mine reclamation projects, hazardous waste sites, and many other miscellaneous civil engineering projects. His duties have included project planning and design, managing construction bids and awards, construction oversight and inspection, and project closeout. His responsibilities have included managing quality assurance/quality control, schedules, personnel, company resources, business/market development, clients, and profit.

Selected projects

Asset Field Locations, West Virginia American Water, Statewide, WV: Project Director for an ongoing project to field locate 160,000 water meter tiles using sub-foot GPS data collectors to implement a data management system and SAP/GIS integration. Manages and assists installation contractors to replace these meters with AMR/AMI technology.

Yeager Airport Facility Improvements, Charleston, WV: Project Manager for terminal and ramp improvements, consisting of new passenger boarding bridges, pre-conditioned air units, fixed ground power units, HVAC rooftop unit replacements, and electrical upgrades, including emergency power. Responsible for contract management and construction phase services, and project closeout with FAA.

Asset Data Management, West Virginia American Water, Statewide, WV: Project Director for an ongoing project to develop a GIS system that integrates with client's SAP enterprise resource management system. Responsible for office and field data collection, GPS field location of assets, reconciliation between systems, and asset data management.

Upper Kanawha Valley Water Main Reinforcement and Extension, West Virginia American Water, Kanawha County, WV: Principal Project Manager responsible for planning, design, permitting, bidding, and construction management of 15 miles of 20" and 16" ductile iron pipe, 1500 gpm water booster station, and one million gallon glass-fused-to-steel water storage tank to serve the communities of Pratt and Montgomery. Project includes an open cut crossing of the Kanawha River that impacted federally endangered mussels that had to be permitted and mitigated. Project allows the client to abandon two water treatment plants and serve the municipalities with reliable water from their regional water treatment plant.

Tank Painting, West Virginia American Water, Statewide, WV: Principal Project Manager responsible for providing engineering and project management related to development, management, and implementation of an annual water storage tank painting program.

Geographic Information System (GIS) Conversion, West Virginia American Water, Statewide, WV: Client Manager responsible for converting client's CAD and paper maps to GIS format. Project consists of 9,500 hydrants, 50,000 valves, and 3,350 miles of water main.

Resident Project Representatives, West Virginia American Water, Statewide, WV: Principal Project Manager responsible for furnishing and managing resident project inspectors for various capital improvement projects, primarily water distribution system renewal and replacement projects.

Technical Services, West Virginia American Water, Statewide, WV: Principal Project Manager responsible for providing engineering, surveying, and GIS services to the client's Engineering Group for capital improvements to water distribution system renewal and replacement projects.

Stormwater Pollution Prevention Plans (SWPPP), City of Charleston, WV: Project Manager for 24 SWPPP and 10 site assessments for municipally-owned sites in the city. Responsible for resource planning, schedule compliance, final reporting, and certifications.

Water Storage Tank Demolition, West Virginia American Water, Statewide, WV: Project Manager/Engineer responsible for locating and evaluating 20 existing ground level and elevated, abandoned water storage tanks to be demolished; preparing bidding documents, assisting client in the bidding process and contract negotiations with Contractor; and miscellaneous construction administration services, land research, easements, and right-of-way services.

Potassium Permanganate Chemical Feed, West Virginia American Water Charleston, WV: Project Director responsible for design, permitting, bidding, and construction management of a standalone chemical feed building and equipment for an 80 MGD water treatment plant.

Fayette County Advanced Metering Construction Management, West Virginia American Water, Fayette County, WV: Project Director and Client Manager for construction phase engineering services; resident project representation; mapping services using GPS locations; and GIS mapping of meters, tanks, booster stations, pressure reducing valves, fire hydrants, and gate valves. Responsible for progress monitoring, data management, and data cleansing for the replacement of 12,000 water meters with "smart meter" technology and installation of 1,200 acoustical monitors for leak detection in this municipal system.

Water Storage Tank Rehabilitation, Town of Wayne, Wayne, WV: Project Manager/Project Engineer responsible for tank inspection, and developing plans and specifications to rehabilitate a 150,000-gallon ground supported welded steel water storage tank. Rehabilitation consisted of cleaning, sandblasting to near white, repairing pits, replacing the ladder/platform, replacing bolts/gaskets to manways/access hatches, and painting with a three-coat epoxy paint system. Paint inspection was provided by KTA-Tator, Pittsburgh, PA. Contract performed by Welding, Inc., Charleston, WV.

Water Storage Tank Rehabilitation, Town of Gilbert, Gilbert, WV: Project Manager/Project Engineer responsible for tank inspection, and developing plans and specifications to rehabilitate two 100,000-gallon ground supported welded steel water storage tanks. Rehabilitation for Tank No. 1 consisted of complete demolition and construction of a new welded steel water storage tank on the existing foundation. Rehabilitation for Tank No. 2 consisted of cleaning, sandblasting to near white, repairing pits, replacing the ladder/platform, and replacing bolts/gaskets to manways/access hatches. Both tanks were painted with a three-coat epoxy paint system. The work also included replacement of the yard piping system, including replacing valves to create a more flexible piping system to isolate and drain the twin tanks, fencing, and telemetry. Paint inspection was provided by KTA-Tator, Pittsburgh, PA. Contract performed by Welding, Inc., Charleston, WV. Telemetry contract performed by Patriot Services, Parkersburg, WV.

Slabtown, Tamcliff, Paynter Water Main Extension, Town of Gilbert, Gilbert, WV: Project Manager/Project Engineer responsible for planning, permitting, and design of a water main extension project for the Town of Gilbert. The project was funded by the USDA/Rural Utilities Service and HUD/Small Cities Block grant.

Water Storage Tank New Installations, West Virginia American Water, Statewide, WV: Project Manager/Project Engineer responsible for ten or more ground supported welded steel water storage tanks. Duties included planning, design, permitting, bidding, construction management, and inspection. Paint inspection provided by KTA-Tator, Pittsburgh, PA. Welding, Inc., Charleston, WV was the successful low bidder on all tanks.

Upper Fishers Branch Water Main Extension, Kanawha County Regional Development Authority, Kanawha County, WV: Project Manager/Project Engineer responsible for planning, permitting, and design of a water main extension project in cooperation with the Kanawha County Commission, Kanawha County Regional Development Authority, and West Virginia American Water Company. The project is being funded by the KCC, US Army Corps of Engineers, IJDC grant, and WV American Water.

Sanderson/Dutch Ridge Water Main Extension, Kanawha County Regional Development Authority, Kanawha County, WV: Project Manager/Project Engineer responsible for planning, permitting, and design of a water main extension project in cooperation with the Kanawha County Commission, Kanawha County Regional Development Authority, and West Virginia American Water Company. The project is being funded by the KCC, WVDEP/Abandoned Mine and Reclamation Program, and WV American Water.

Back Fork of Elk, Miller Mountain Phases I & II, Diana Phase I Water Main Extensions, Webster County Economic Development Authority, Webster County, WV: Project Manager/Project Engineer responsible for planning, permitting, design, and bid phase engineering services for a water main extension project in cooperation with the Webster County Commission, Webster County Economic Development Authority, and West Virginia American Water Company. The project is being funded by the WVDEP/Abandoned Mine and Reclamation Program and WV American Water.

Putnam County (Six Areas) Water Main Extensions, Putnam County Building Commission, Putnam County, WV: Project Manager/Project Engineer responsible for planning, permitting, and design of a water main extension project in cooperation with the Putnam County Commission, Putnam County Building Commission, and West Virginia American Water Company. The project was funded by the Putnam County Commission, Infrastructure and Jobs Development Council (IJDC), and WV American Water.

Putnam County Master Plan, Putnam County Building Commission, Putnam County, WV: Project Manager/Project Engineer responsible for the preparation of a master plan to provide public water to serve unserved areas. This comprehensive plan has led to the current water projects that have been constructed, are now under construction, and projects currently being proposed. These projects are funded by various local, state, and federal grants and loans, and contributions from WV American Water.

Cabell County (Six Areas) Water Main Extension, Salt Rock Public Service District, Cabell County, WV: Project Manager/Project Engineer responsible for planning, permitting, and design of water main extension projects in cooperation with the Cabell County Commission and West Virginia American Water Company. The projects were funded by the Infrastructure and Jobs Development Council (IJDC), HUD/SCBG, and WV American Water.

Cabell County Master Plan, Salt Rock Public Service District, Cabell County, WV: Project Manager/Project Engineer responsible for the preparation of a master plan to provide public water to serve unserved areas. This comprehensive plan has led to the current water projects that have been constructed, are now under construction, and projects currently being proposed. These projects have been and will be funded by various local, state, and federal grants and loans, and contributions from WV American Water.

Kanawha County Master Plan, Kanawha County Regional Development Authority, Kanawha County, WV: Project Manager/Project Engineer responsible for the preparation of a master plan to provide public water to serve unserved areas. This comprehensive plan has led to the current water projects that have been constructed, are now under construction, and projects currently being proposed. These projects have been and will be funded by various local, state, and federal grants and loans, and contributions from WV American Water.

Public Water Distribution, Pumping and Storage Projects, West Virginia American Water Statewide, WV: Responsible for planning, design, permitting, construction management, and construction of numerous public water system projects over a 25 year period. Projects included water main extensions, replacements and reinforcements, pumping stations, pressure reducing stations, and water storage tanks. Responsibilities included grant and loan funding applications and strategy for securing the necessary funding.

Upper Winifrede Water Main Extension, Kanawha County Regional Development Authority, Kanawha County, WV: Project Manager/Project Engineer responsible for planning, permitting, design, and construction of a water main extension project in cooperation with the Kanawha County Commission, Kanawha County Regional Development Authority, and West Virginia American Water Company. The project was funded by the KCC, WVDEP/Abandoned Mine and Reclamation Program, and WV American Water.

Wills Creek, Frame, Upper Frame Phase I & II, Bufflick, Pond Gap, Witcher Creek, Tappers Creek, Doctors Creek, Derricks Creek, Grapevine Road, Sigmon Fork, Kanawha County Regional Development Authority, Kanawha County, WV: Project Manager/Project Engineer responsible for planning, permitting, design, and construction of water main extension projects in cooperation with the Kanawha County Commission, Kanawha County Regional Development Authority, and West Virginia American Water Company. These projects were funded by various local, state, and federal grants and loans; and WV American Water.

Water Main Extension Projects - Putnam County, Cabell County, Kanawha County and Boone County, West Virginia American Water, Various Counties, WV: Lead Consultant for these \$82 million water main extension projects in these counties. Project Manager/Project Engineer responsible for planning, permitting, design, and construction of various water main extensions within these county-wide water main extension projects. (Numerous other consultants were selected to perform similar services throughout these counties). As Lead Consultant, responsible for uniform bidding and contract documents, uniform reporting, contractor invoicing, and overall construction management for WV American Water. These projects were funded by various local, state, and federal grants and loans, and WV American Water.

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**MOTT
MACDONALD**

Eric R. Bess, GISP

Personal Summary

Education:

BS, Engineering Technology,
West Virginia University,
Institute of Technology, 1996

AS, Civil Engineering
Technology, West Virginia
University, Institute of
Technology, 1995

Registrations:

NICET Certified Civil
Engineering Technician,
#89568

Certified Geographic
Information Systems
Professional (GISP)

Professional memberships:

Member of American Water
Works Association (AWWA)

American Society of Certified
Engineering Technicians
(ASCET)

West Virginia Association of
Geographic Professionals
(WVAGP)

Mr. Bess has over 17 years of GIS experience, mostly in the Oil & Gas Industry. His range of experience covers a multitude of tasks including database development, workflow and dataflow process management, training, analysis, asset management, and field personnel management. Prior to this, Mr. Bess worked for five years in the coal industry, which also aided in a coal relations GIS support role. He has experience with data creation, compilation, reporting and analysis, and QA/QC of various datasets for business needs.

His mining experience includes a wide range of tasks from traveling with inspectors, to ensuring tools and parts for daily and planned maintenance activity, to traveling with surveyors underground to ensure proper mining direction and location are correct. He also assisted with permitting, mine projection development, ventilation review, and managed the water treatment systems for the bath houses, including ordering and management of the systems and chemicals and reporting requirements for state agencies. He also performed on-site IT support and human resource functions, as needed, for a union workforce of over 200 individuals.

Selected projects:

Water System Acquisition Due Diligence, West Virginia American Water Company, WV: Served as Senior GIS Specialist on this project. Client requested due diligence to be done on a smaller water system that may be acquired. Work consisted of creating a GIS linkage between a master easement spreadsheet and parcel outlines in GIS. Assets were digitized from scans that were georeferenced, and buffer calculations performed based on the easement criteria to make a map book of the coverage area with various information displayed.

AMR/AMI Phase I, II, West Virginia American Water Company, WV: Project Manager and Senior GIS Specialist involved in field data collection with sub-foot GPS for a client program to replace probe and manual read meters with AMR/AMI read systems. Responsible for field crew coordination, deliverables for 3rd party contractors who performed the meter change-outs, and progress reporting. Also, the data was provided to the client as coordinates linked to each premise number for updating their master service address database.

Stormwater Surface Runoff Analysis, City of Huntington, Huntington, WV: Served as Senior GIS Specialist on this project involving digitization and data management for surface features in a small pilot area of the city. Responsible for GIS data acquisition and workflow development, proper data attribution for impervious vs. pervious areas, acreage calculation for runoff analysis, and map generation for client review.

Asset Data Management, West Virginia American Water Company, WV: Served as Senior GIS Specialist on this project consisting of data discovery, collection, process development, and integration to WVAW GIS System. Served as liaison with field operations to ensure field mark-ups of data were delivered and assimilated into the WVAW GIS System. Developed a field data collection process with GPS technology for more efficient collection and integration.

Impervious Surface Determination and Analysis Support, Huntington Stormwater Utility, Huntington, WV: Served as Senior GIS Specialist. Client indicated they would like assistance in determination of impervious area within city limits to then apply to their billing system to charge a stormwater runoff rate for commercial properties. Work consisted of providing technical support for client GIS personnel in how to train the software to classify the recently acquired imagery, how to take those results and intersect and calculate the impervious area per tax parcel, how to load the results into their billing system and also advise on a base disclaimer for review by the client's legal department to cover the work done prior to public release.

View shed Analysis, West Virginia American Water Company: Served as Senior GIS Specialist. Client requested due diligence to be done regarding view shed impact for potential timbering at a water treatment plant. Work consisted of creating a set of observation points, barrier of trees to remain and analysing the results using a 6ft tall person located at each observation point to show no negative impact resulting from the proposed timbering.

Upper Kanawha Valley Phase III, West Virginia American Water Company, Kanawha County, WV: Served as Senior GIS Specialist on this project consisting of multiple waterline extension and upgrade contracts. Responsibilities included managing project documentation, data acquisition, GPS data processing, one call design tickets and third party utility contact on project area for proper utility line marking, and crossing procedures and requirements.

Multiple Projects, West Virginia Turnpike, WV: Senior Designer responsible for all survey operations for all West Virginia Turnpike projects since 1996, including engineering design and boundary surveys.

State Police Building Site Survey, HNTB/West Virginia Parkways Authority, Kanawha County, WV: Senior Designer responsible for site mapping for design of a new state police field office. Responsible for all surveys activities required for site mapping, including topography, existing structures, utilities, controlled access right of way locations, and ties to established Turnpike geometric control. Duties also included plotting of survey data, site plan preparation, and dissemination of data to the design team in the HNTB Scott Depot office.

Utica Shale Gas Well Pads, Chesapeake Energy Corporation, Carroll County, OH: Senior Designer responsible for complete design and plan preparation for three drilling pads for Utica Shale fracturing and gas extraction. Responsible for coordinating plan and design requirements with client, design and 3D modeling for plan preparation and quantity analyses, erosion and sediment control plans for regulatory compliance, quality control reviews of local Ohio surveyor to prepare plats for well permitting, and preparation of as-built record plans.

Upper Kanawha Valley Water Main Extensions Phase III, West Virginia American Water Company (WVAWC), Kanawha County, WV: Senior Designer responsible for conducting engineering design surveys and surveys for rights of way and property acquisitions, including records research and plan and plat preparation for this water main extension project. Also responsible for property research, survey data reduction, technical design work, including water line layout, quantity estimates, CAD drafting in preparation of right of way and construction plans, and federal, state and railroad permitting plats.

Upper Kanawha Valley Water Main Extensions Phase II, WVAWC, Kanawha County, WV: Senior Designer responsible for conducting engineering design surveys and surveys for rights of way and property acquisitions, including records research and plan and plat preparation for this project. Also responsible for property research, survey data reduction, technical design work, including water line layout, quantity estimates, CAD drafting in preparation of right of way and construction plans, and federal, state and railroad permitting plats.

Bluefield North Water Main Reinforcements, WVAWC, Mercer County, WV: Senior Designer responsible for conducting engineering design surveys and surveys for rights of way and property acquisitions, including records research and plan and plat preparation for this project. Also responsible for property research, survey data reduction, technical design work, including water line layout, quantity estimates, CAD drafting in preparation of right of way and construction plans, and federal, state and railroad permitting plats.

Upper Kanawha Valley Water Main Extensions Phase I, WVAWC, Kanawha County, WV: Senior Designer responsible for conducting engineering design surveys (utility locations, profiles, cross sections for permitting purposes, etc.) and surveys for rights of way and property acquisitions, including records research and plan and plat preparation for this water main extension project. Also responsible for property research, survey data reduction, technical design work, including water line layout, quantity estimates, CAD drafting in preparation of right of way and construction plans, and federal, state and railroad permitting plats.

Coalburg Water Main Extensions, Kanawha County Regional Development Authority, Kanawha County, WV: Senior Designer responsible for conducting engineering design surveys and surveys for rights of way and property acquisitions, including records research and plan and plat preparation for this water main extension project. Also responsible for property research, survey data reduction, technical design work, including water line layout, quantity estimates, CAD drafting in preparation of right of way and construction plans, and federal, state and railroad permitting plats.

Fayette Advanced Metering Infrastructure Project, WVAWC, Fayette County, WV: Senior Designer responsible for all GPS location surveys of water distribution system facilities in this project. The project involved the replacement of over 12,000 existing water meters with new meters and high-tech telemetry devices to facilitate a hands-free computerized meter reading/customer billing process. The project also had an operation and maintenance component which consisted of installing listening and telemetry devices on several thousand fire hydrants and valves for system performance monitoring and leak detection applications. Specific duties required were GPS location data collection, identification, data processing and distribution to the GIS team, and production of water meter location plans for use by the contractor during installation.

Kevin S. Garnes

Professional Summary

Education:

Various Engineering Classes,
West Virginia State
University, West Virginia
University Institute of
Technology 1982-1984

Mr. Garnes' has almost 40 years of experience in the civil and architectural design field, including managing a CAD systems network and personnel with an extensive working knowledge of AutoCAD. He has been responsible for design, specifications, cost estimates, and quality control of construction documents for water and wastewater treatment plants, water storage tanks and distributions systems, sanitary sewer pump stations and collection systems, landfill design and permitting, bridge and highway design, right-of-way acquisition, and mining and reclamation plans. His experience also includes commercial, industrial and residential building design, site design, stormwater hydrology and retention structures, and planning and development of industrial parks and subdivisions.

Selected projects:

Coonskin Park Accessible Fishing Pier, Kanawha County, WV: Design layout, grading, retaining wall layout, pier design, utilities relocation, cost estimate, and site details.

West Virginia American Water On-Site Office Parking Expansion, Kanawha County, WV: Design layout, grading, drainage, retaining wall layout, and site details.

West Virginia American Water Off-Site Office Parking Lot, Kanawha County, WV: Design layout, grading, drainage, and site details.

Summit Bechtel Reserve Boy Scouts Facility, Fayette County, WV: Coordination of design between civil, landscape architects, mechanical engineers, and architects in the core area of the facility, including the utilities layout and design.

Bluefield Road Booster Station, West Virginia American Water, Mercer County, WV: Design layout for above ground package booster station to improve service through the Princeton area of the existing WV American system. Including property acquisition, site grading and drainage, foundation details, piping, WV DOT permit, cost estimates, material lists, details, and specifications.

Greenbrier Drive Water System Improvements, West Virginia American Water, Summers County: Design of approx. 4,400 ft. of 8" ductile iron pipe distribution mains, to upgrade water service to the area. Including permits, material lists, and details.

Mount Olive Road Extension, West Virginia American Water, Mercer County: Design of approx. 3,200 ft. of 8" ductile iron pipe distribution mains, to upgrade water service to the area. Including the identification of individual right of ways, material lists, and details.

Rich Fork Road Reinforcement, West Virginia American Water, Kanawha County: Design of approx. 7,800 ft. of 12" ductile iron pipe transition mains, to reinforce water service to the Sissonville area. Including the WV DOT permit, stream crossing permits, cost estimates, identification of individual right of ways, material lists, details, and specifications.

39th Street Connection, West Virginia American Water, Kanawha County: Design of approx. 1,400 ft. of 16" ductile iron pipe transition mains, to reinforce water service in the Kanawha City area. Including the cost estimates, WV DOT permit, material lists, details, and specifications.

Chesterfield Avenue Reinforcement, West Virginia American Water, Kanawha County: Design of approx. 7,900 ft. of 16" ductile iron pipe transition mains, to reinforce water service to the eastern Kanawha Valley area. Including the WV DOT permit, cost estimates, identification of individual right of ways, material lists, details, and specifications.

Bluefield Nursing Center Extension, West Virginia American Water, Mercer County: Design of approx. 645 ft. of 8" ductile iron pipe distribution mains, to upgrade water service to the new facility. Including the identification of individual right of ways, WV DOT permit, cost estimates, material lists, details, and specifications.

Eagle View #2 Water Storage Tank, West Virginia American Water, Kanawha County: Design of 157,000-gallon water storage tank, site grading, drainage, yard piping. Including cost estimates, material lists, details, and specifications.

Fayetteville 2nd Ave. Extension, West Virginia American Water, Fayette County: Design of approx. 3,600 ft. of 6" PVC pipe distribution mains to upgrade water service to the area. Including the identification of individual right of ways, WV DOT permit, cost estimates, material lists, details, and specifications.

Goose Run Extension, West Virginia American Water, Cabell County: Design of approx. 1,800 ft. of 6" PVC pipe distribution mains, to upgrade water service to the area. Including the identification of individual right of ways, stream crossing permit, WV DOT permit, cost estimates, material lists, details, and specifications.

Village of Rock Ridge Extension, West Virginia American Water, Summers County: Design of approx. 6,000 ft. of 6" PVC pipe distribution mains to upgrade water service to the area. Including the identification of individual right of ways, WV DOT permit, cost estimates, material lists, details, and specifications.

Route 60 Charleston Reinforcement, West Virginia American Water, Kanawha County: Design of approx. 5,200 ft. of 20" ductile iron pipe transition mains to reinforce water service to the eastern Kanawha Valley area. Including the WV DOT permit, cost estimates, material lists, details, and specifications.

Melissa Road 2015 WV DOT Relocation, West Virginia American Water, Cabell County, WV: Relocation design of approx. 9,300 ft. of 12", 8" & 6" ductile iron pipe to avoid highway construction and maintain service to the area. Including identifying private right of ways, stream crossing permits, cost estimates, material lists, details, and specifications.

Hugheston Water Storage Tank, West Virginia American Water, Kanawha County: Design of 1,000,000-gallon water storage tank, installation of 954 ft. of 12" ductile iron pipe, site grading, drainage, road design, yard piping, and valve vaults. Including acquiring property, cost estimates, material lists, details, and specifications.

Riverside Relay Station, West Virginia American Water, Kanawha County, WV: Design layout for above ground package relay station to improve service through the Upper Kanawha Valley area of the existing WV American system. Including property acquisition, site grading and drainage, yard piping, WV DOT permit, cost estimates, material lists, details, and specifications.

Hughes Creek Reinforcement, West Virginia American Water, Kanawha County: Design of approx. 5,600 ft. of 8" PVC pipe distribution mains to upgrade water service to the area. Including the identification of individual right of ways, stream crossing permits, WV DOT permit, cost estimates, material lists, details, and specifications.

Upper Kanawha Valley Extension Phase III, West Virginia American Water, Kanawha County: Design of approx. 31,200 ft. of 16" & 12" ductile iron pipe transition mains, to extend water service to the Montgomery area. Including the identification of individual right of ways, stream crossing permits, WV DOT permit, cost estimates, material lists, details, and specifications.

Upper Kanawha Valley Extension Phase II, West Virginia American Water, Kanawha County: Design of approx. 17,900 ft. of 20" & 16" ductile iron pipe transition mains to extend water service to the eastern part of Kanawha County. Including the identification of individual right of ways, stream crossing permits, WV DOT permit, cost estimates, material lists, details, and specifications.

WV Air National Guard Extension, West Virginia American Water, Kanawha County: Design of approx. 12,300 ft. of 16", 12" & 8" ductile iron pipe distribution mains, to extend water service to the WV Air National Guard at Yeager Airport. Including the identification of individual right of ways, stream crossing permits, WV DOT permit, cost estimates, material lists, details, and specifications.

Summit Bechtel Reserve Tanks, Boy Scouts of America, Fayette County: Design of one 2,000,000-gallon concrete water storage tank and one 6,000,000-gallon concrete water storage tank. Including yard piping, valve vaults, site grading and drainage, chlorine injection station, cost estimates, material lists, details, and specifications.

Leatherwood/Reamer Hill Extension, West Virginia American Water, Kanawha County: Design of approx. 68,100 ft. of 8" & 6" ductile iron pipe distribution mains to extend water service to the area. Including the identification of individual right of ways, stream crossing permits, WV DOT permit, cost estimates, material lists, details, and specifications.

Potassium Permanganate Building, West Virginia American Water Treatment Plant, Kanawha County, WV: Responsible for building design and layout of chemical feed equipment for water treatment plant, including site plans and details.

Brandon Hodges
Personal Summary

Education:

Business Courses,
Parkersburg Jackson
Community College, 1995

Business Courses, Marshall
University, 1994

Certifications:

ACI certified Field Testing
Technician, Grade I

WVDOH Certified Portland
Cement Concrete Inspector

WVDOH Certified Aggregate
Sampling Inspector

WVDOH Certified
Compaction Inspector

Heartsaver First Aid CPR
AED Certification

WV Notary Public

Class 1D Water Operator

OSHA 10 Hour Occupational
Safety and Health
Certification

Mr. Hodges has 20 years of experience in the engineering and construction industries. He has gained experience in both the design and construction phases of utility, site, and building projects. Through a variety of projects and responsibilities, Mr. Hodges has continued an upward rise in the engineering field. Specializing in the utilities industry, he can perform a multitude of tasks in project management, from design and layout, to inspection and quality control testing. He has served as Resident Project Representative on many multi-million dollar projects, and has experience with client interface, site analysis, contracts, plan and code review, and all functions relative to construction administration from groundbreaking through project completion. With Mott MacDonald, he continues to fulfill multiple tasks and assignments for varying client needs, both in the field and in the office.

Completed projects

Chesterfield Avenue Reinforcement / Rich Fork Road Reinforcement, West Virginia American Water, Charleston, WV: Technician selected by client to provide Project Management for the construction phase of two large reinforcement projects. Provided support to Mott MacDonald Resident Project Representatives, and worked with owner, WVDOH, and other utility companies to facilitate any field changes on projects. Reconciled and catalogued daily and weekly reports, and reviewed and approved change orders and pay applications.

Huntington Booster Station Replacements, West Virginia American Water, Huntington, WV: Technician responsible for assisting WVAW distribution team on their booster station program. Responsible for researching and acquiring new sites, rights of way, and any required permits. Performed survey work, as needed. Served as a liaison between property owners and WVAW in negotiations for compensation. Also involved with acquiring and supporting any geotechnical work that is required.

WVDOH Relocations, West Virginia American Water, Multiple Locations, WV: Technician responsible for assisting WVAW Engineering team on all projects involving potential relocations due to WVDOH planned projects, including bridges, storm sewers, and road widenings. Performed utility verifications, researched existing rights of way, designed relocation plans, acquired permits and new rights of way, and provided material take-offs, bid tabs and construction estimates to the owner.

Stormwater Pollution Prevention Plan (SWPPP), City of Charleston, Charleston, WV: Technician responsible for working with city employees to evaluate their respective site for potential stormwater contaminants, reports to team leaders, and assists in writing the SWPPP document. The team was selected to assist the City of Charleston in site evaluations and mapping of 24 city-owned facilities as part of developing SWPPPs for each site.

Various Projects, West Virginia American Water, Charleston, WV: Project Technician responsible for performing a variety of technical services for WVAW Engineering Department upon their request. Services include project design, estimation and layout, boundary and as-built surveys (both conventional and GPS), courthouse research, and right-of-way and easement acquisition. Mr. Hodges also prepares and submits multiple permit applications for WVAW, including West Virginia Department of Highways, United States Army Corps of Engineering, and West Virginia Office of Land & Streams. The client also requested him to serve as a Resident Project Representative on a water line relocation project needing an experienced ambassador due to sensitivity of affected customers.

Sanitary Sewer Upgrade, Town of Delbarton, Delbarton, WV: Lead Inspector on a much needed \$5M sewer system upgrade project, replacing 50+ year old mains and reducing infiltration. The project involved over 25,000 feet of new piping, much of it deep and installed in the roadway. Responsible for overseeing all work, including sheeting and shoring, dewatering operations, pipe installation and backfill, resurfacing, and reclamation. Project involved grinder pump stations, HDPE force main, and required bypass pumping to ensure continuous operation of the system. Project also included CIPP slip-lining, which inserts, inflates, and cures a new liner within the existing pipe through existing manholes, eliminating the need to trench and backfill. Documented work progress and approved change orders and construction estimates. Project required the ability to quickly make field adjustments, avoiding contractor shut downs due to incomplete or incorrect plan information.

Fayetteville Acquisition, West Virginia American Water, Fayetteville, WV: As Construction Administrator, performed multiple duties to assist in a successful transition between water facilities. Project required decommissioning Fayetteville's antiquated water treatment plant, immediate replacement of 24 fire hydrants, and connection of the two systems in multiple places. Concentration also placed on small diameter main replacement and upgrades to distribution lines and meters that allowed for the removal of a water storage tank and increased water pressure for hundreds of customers. Involved in planning, design, inventory management, and all aspects of construction. He communicated with stakeholders, including owner/engineer, City of Fayetteville, WVDOH, Miss Utility, contractors, and customers.

FEMA Storm Sewer, Town of Man, Man, WV: Resident Project Representative for completion and tie in of a 60" HDPE storm drain, including a concrete and gabion inlet structure, drop inlets, and connection to existing facilities. The project was necessary due to floods overwhelming the existing facilities with debris. The project relocated the storm sewer from private citizens' property onto town streets. Oversaw excavation, installation, backfill, and resurfacing. He communicated with necessary parties involved with utility relocation. Documented work progress and approved change orders and construction estimates.

East Main Street Upgrade, West Virginia American Water, Oak Hill, WV: Resident Project Representative on two different water main upgrade projects through a main traffic artery. Upgraded over 2500 lf of 6" cast iron to 12" ductile iron pipe. Projects required detailed traffic control, live taps, and tie-ins. Involved in all aspects of construction, from layout through sampling, testing, completion, and as-builts. Documented work progress through detailed daily reports.

Quality Control Testing, WV Department of Highways, Multiple Locations, WV: Performed aggregate sampling, concrete, and compaction testing on multiple projects throughout West Virginia. Worked with both contractors and state inspectors to ensure project materials met required specifications. Mr. Hodges assisted the Contractor in remediation of deficiencies. Documented test results and reported to Project Managers.

Asphalt Inspection, West Virginia Department of Highways (WVDOH), Charleston, WV: Acted as a Consultant for the WVDOH on a variety of paving projects throughout the district. He worked alone and along with a WVDOH inspector. Observed application, compaction, and quality control testing of asphalt. Also calculated application rate, documented quantities, and pay items.

Water System Upgrades, US Army/Virginia American Water, Fort Lee, VA: Resident Project Representative for the construction of upgrades and reinforcements to the Fort Lee US Army base water system. Strict work and time regulations required diligence and communication. Project included live tapping, valve insertions, and line stops. Required water outages were on a time schedule, and each was completed on time. He was involved in all aspects of construction, from layout through sampling, testing, and completion. Communicated with all stakeholders, including VAWC and US Army officials, contractors, and residents.

20-Inch Water Relocation, West Virginia American Water, Institute, WV: As Resident Project Representative on a one-mile-long water line relocation, removed a potable water line from potentially contaminated soil inside a chemical plant facility and relocated it to a suitable location. Project included hazardous material training and required diligence to avoid disruption of plant facilities. He was involved in all aspects of construction, from layout through sampling, testing, completion, and as-builts. Documented work progress through detailed daily reports.

US Route 50 Bypass / Little Kanawha River Bridge, West Virginia Division of Highways (WVDOH), Parkersburg, WV: Co-Resident Project Representative on a \$25M, 2100 lf, four-lane bridge. Was involved in all aspects of bridge inspection, including excavation, piling, piers and abutments, steel work, and surfacing. He oversaw quality control testing and reporting, and calculated excavation and concrete work for payment. Project also included roadway construction and blasting. Documented work progress through detailed daily reports.

US Route 35 Water and Sewer Relocation, South Putnam Public School District, Teay's Valley, WV: As Resident Project Representative, Mr. Hodges coordinated with contractor, engineer, school district, and WVDOH to relocate utilities for the widening of a main traffic artery from two lanes to three, which required multiple crews working on water and sewer. The project included live tapping, bypass pumping, multiple tie-ins, and an aerial sewer line crossing. It also involved in all aspects of construction, from layout through sampling, testing, completion, and as-builts. Documented work progress through detailed daily reports.



Thomas Pritts, AIA, LEED-AP, CSI-CCS

Tom founded Montum Architecture in 2017. He has more than 14 years experience in design, specification, and project management. During his former employment, Tom has designed and managed dozens of built projects. His experience encompasses a wide range of projects including K-12 and higher education facilities, financial Institutions, emergency services buildings, and automotive dealerships. A native of Mineral County, Tom is member of the West Virginia Chapter of American Institute of Architects and was involved in the establishment of the US Green Building Council’s West Virginia chapter. He is highly skilled in the design of complex building systems, technical construction detailing and specifying, and construction contract administration. These skills were critical in the development and maintaining of many multi-year, multi-project relationships with Clients in his previous employment.

Project Role: Relationship Manager – Primary Point of Contact

- Principal in Charge
- Design and Project Management
- Concept and Construction Design
- Quality Assurance and Control

Professional History

2017- Present	Montum Architecture	Architect
2004-2017	Alpha Associates	Associate and Architect
2003	Marshall Craft Associates	Architectural Intern

Education

2004	Virginia Tech	Bachelors of Architecture
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Licenses and Certifications

- Licensed Architect (West Virginia, Maryland)
- NCARB Certificate
- Construction Specifier Institute – Certified Construction Specifier
- LEED-AP Certified
- 30-hour OSHA Card

Professional Project Highlights

- Potomac State College – ADA Connector Building
- Potomac State College – Church-McKee Plaza
- Potomac State College – Shipper Library Façade
- WVU Engineering Sciences Building – East Wing Addition, 10th Floor Fit-Out, Basement Renovation
- WVU Engineering Research Building – G07 & G08 Renovation
- WVU Equine Education Center
- WVU College of Physical Activities and Sports Sciences/ Student Health Center
- WVU Center for Alternative Fuel Engines and Emissions
- WVU Colson Hall Water Infiltration Repairs
- WVU Mountainlair Water Infiltration Repairs
- WVU Chemistry Research Laboratories Fit-Out

Montum



Professional Project Highlights (continued)

- WVU Creative Arts Center Wheelchair Lift
- Alderson Broaddus University – Pyles Arena Deck Replacement
- Glenville State College – Morris Stadium Skybox

- Washington High School, Jefferson County Schools, WV
- Pineville Elementary School, Wyoming County Schools, WV
- Huff Consolidated School, Wyoming County Schools, WV
- Aurora School Addition, Preston County Schools, WV
- Riverview High Field House Design-Build, McDowell County Schools, WV
- Safe School Entries, Monongalia County Schools, WV
- Morgantown High Elevator, Monongalia County Schools, WV
- Monongalia County Schools 2010 Comprehensive Education Facilities Plan
- Wyoming County Schools 2010 Comprehensive Education Facilities Plan

- Clear Mountain Bank, Oakland, MD
- Clear Mountain Bank, Reedsville, WV
- Clear Mountain Bank-Kroger, Sabraton, WV
- Grant County Bank, Petersburg, WV
- Fairmont Federal Credit Union, Bridgeport, WV

- Freedom Ford, Kia, and Volkswagen Automotive Dealerships, Morgantown and Clarksburg, WV
- Jenkins Subaru Addition, Bridgeport, WV
- Elkins Fordland Renovation, Elkins, WV
- Elkins Chrysler Dealership, Elkins, WV
- Harry Green Nissan Design-Build, Clarksburg, WV
- Cool Green Automotive Addition and Renovation, Shepherdstown, WV

- Veteran's Affairs – OI&T Office Fit-Out, Shepherdstown, WV
- OPM, Eastern Management Development Center Addition, Shepherdstown, WV
- National Energy Technology Laboratory -- Building B-8 Roof Replacement, Morgantown, WV
- US Coast Guard -- Conference Room Renovation, Martinsburg, WV
- Eastern Panhandle Transit Authority Addition, Martinsburg, WV
- Cacapon State Park -- Old Inn HVAC and Interior Renovation
- WV National Guard - Armory Office Fit-out, Parkersburg, WV
- South Berkeley Fire Station, Inwood, WV
- Jefferson County Emergency Services Agency – New Headquarters
- Berkeley County Ambulance Authority -- South Station Renovation and Addition
- Poolhouse Renovation, McMechen, WV
- Community Center, Ridgeley, WV
- Wastewater Treatment Plant Renovations, Martinsburg, WV
- Public Works Building, Fairmont, WV
- Oatesdale Park Little League Fields, Martinsburg, WV

- St. Luke Canopy Replacement, Morgantown, WV
- Freshwater Institute - Aquaculture Building, Shepherdstown, WV
- Clarion Hotel Renovation, Shepherdstown, WV
- Shenandoah Village Apartments – Façade and Deck Replacement, Martinsburg, WV
- Regional Eye Associates/ Surgical Eye Center, Morgantown, WV
- Bavarian Inn – Infinity Pool/ Pool Bar, Shepherdstown, WV

Carol A. Stevens, PE, F.ASCE

Structural Engineer



EDUCATION

West Virginia University, BSCE, 1984
Chi Epsilon National Civil Engineering Honorary
The Pennsylvania State University, ME Eng Sci, 1989

PROFESSIONAL REGISTRATION

P.E.	1990	Pennsylvania
P.E.	1991	West Virginia
P.E.	1994	Maryland
P.E.	2008	Ohio
P.E.	2010	Kentucky
P.E.	2013	Virginia

BACKGROUND SUMMARY

2001 – Present	President, Structural Engineer CAS Structural Engineering, Inc.
1999 – 2001	Structural Engineer Clingenpeel/McBrayer & Assoc, Inc.
1996 – 1999	Transportation Department Manager Structural Engineer Chapman Technical Group, Inc.
1995 – 1996	Structural Engineer Alpha Associates, Inc.
1988 – 1995	Structural Department Manager Structural Engineer NuTec Design Associates, Inc.
1982 – 1988	Engineer AAI Corporation, Inc.

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers
National Society of Professional Engineers
American Concrete Institute
American Institute of Steel Construction
West Virginia University Department of Civil and
Environmental Engineering Advisory Committee Chair
West Virginia University Institute of Technology
Department of Civil Engineering Advisory Committee

CIVIC INVOLVEMENT

Forks of Coal State Natural Area Fdn Committee Member
Engineer's Week Speaker

EXPERIENCE

West Virginia, Pipestem Resort State Park Lodge:
Structural repairs to steel and concrete structural components with severe deterioration.

West Virginia, Pipestem Resort State Park Sprayground:
Structural design of new bathhouse to support new sprayground near lodge.

West Virginia, Twin Falls Resort State Park:
Multiple phased structural repairs to existing lodge structure.

West Virginia, Hawks Nest State Park:
Multiple phased structural repairs to existing lodge structure.

West Virginia, Chief Logan State Park:
Structural design of new 4-bedroom cabins.

West Virginia, Canaan Valley Resort State Park:
Structural investigation and recommendations for repairs to the five (5) existing overnight sleeping facilities.

West Virginia, Twin Falls Resort State Park Lodge Addition: Structural design for new 28,000 SF addition to existing facility, including new entrance lobby, conference areas, sleeping rooms and indoor pool.

West Virginia, Hawks Nest State Park Lodge: Analysis of structural cracks in lodge building. Work included probes to determine condition of existing connections between structural elements.

West Virginia, State Capitol Complex, Governor's Mansion: Structural analysis and design in addition to evaluation report for modifications and renovations to several areas of mansion. Building is on State Historic Register and was constructed in the 1920's.

West Virginia, State Capitol Complex, Holly Grove Mansion: Structural evaluation report for preliminary condition assessment of building structure. Building is on State Historic Register and was constructed in the 1830's.

West Virginia, State Capitol Complex, Main Capitol Building Parapet: Exploratory investigation of limestone/brick parapet/balustrade of Main Capitol

PO Box 469 • Alum Creek, WV 25003-0469 PHONE 304-756-2564 FAX 304-756-2565 WWW www.casstruceng.com

COMMERCIAL, GOVERNMENTAL AND INDUSTRIAL STRUCTURAL DESIGN, ANALYSIS AND RESTORATION

WV VA KY OH MD PA

Building to determine cause of movement/cracking/leaks. Construction contract for repairs has been completed. Building is on State Historic Register and was constructed in the 1920's and 1930's.

West Virginia, Twin Falls Resort State Park: Structural evaluation of existing recreation building.

West Virginia, State Capitol Complex, Main Capitol Building Dome: Exploratory investigation of structural steel components of Lantern Level of dome and development of contract documents for repairs. Building is on State Historic Register and was constructed in the 1930's.

West Virginia, Pipestem Resort State Park: Structural evaluation of existing recreation building.

West Virginia, Cabwaylingo State Forest: Structural evaluation of existing dormitory buildings constructed in the 1950's.

West Virginia, Historic Putnam-Houser House (Parkersburg): Designed system for stabilization and upgrades to floor framing of building that was constructed in the 1700's.

West Virginia, Upshur County Courthouse: Developed construction documents for structural repairs to main entrance, dome and monumental sandstone columns of 1899 structure. Work was recently completed and received a WVAIA Honor Award for Design Excellence.

Ohio, Mahoning County Courthouse: Completed preliminary structural observation report of exterior façade conditions to recommended phased repairs for terra cotta and granite façade. Building is on State Historic Register and was constructed in the early 1900's.

West Virginia, State Capitol Complex, Building 5: Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

West Virginia, State Capitol Complex, Building 7: Investigation and development of Construction Documents for new elevators.

West Virginia, State Capitol Complex, Building 3: Structural design and construction administration of repairs to limestone canopy. Building is eligible to be placed on State Historic Register and was constructed in the 1950's.

West Virginia, State of West Virginia Office Building #21, Fairmont, WV: Preliminary structural observation report for condition assessment of building structure.

West Virginia, Hampshire County Courthouse: Structural design for new elevator for existing historic building.

West Virginia, Shinnston Park: Structural design of new outdoor pool.

PREVIOUS EXPERIENCE

West Virginia, State Capitol Building, North Portico Steps: Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps. Building is on State Historic Register and was constructed in the 1930's.

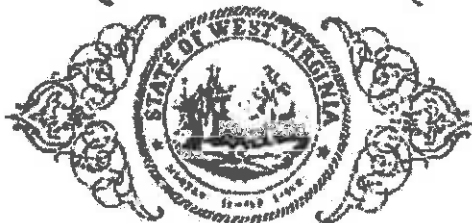
West Virginia, Beech Fork State Park Pool, Bathhouse and Cabins: Designed structure for new bathhouse, swimming pool and cabins.

West Virginia, Moncove Lake State Park Pool: Designed structure for new swimming pool.

West Virginia, Upshur County Courthouse Annex: Performed structural evaluation and design for repairs to existing multi-story Annex addition.

West Virginia, Canaan Valley Resort and Conference Center: Structural feasibility study to upgrade lodging units.

State of West Virginia



Certificate

*I, Natalie E. Tennant, Secretary of State of the
State of West Virginia, hereby certify that*

the attached true and exact copy of the Articles of Amendment to the Articles of Organization of
HATCH MOTT MACDONALD, LLC

are filed in my office, signed and verified, as required by the provisions of West Virginia Code
§31B-2-204 and conform to law. Therefore, I issue this

CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF AUTHORITY

changing the name of the limited liability company to

MOTT MACDONALD, LLC



*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
May 26, 2016*

Natalie E. Tennant

Secretary of State

CERTIFICATE OF

Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers
having verified the person in responsible charge is registered in
West Virginia as a professional engineer for the noted firm, hereby certifies*

MOTT MACDONALD, LLC

C02536-00

Engineer in Responsible Charge: GARY D FACEMYER - WV PE 008287

*has complied with section §30-13-17 of the West Virginia Code governing
the issuance of a Certificate of Authorization. The Board hereby notifies you of its
certification with issuance of this Certification of Authorization for the period of:*

January 1, 2016 - December 31, 2017

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA
UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

WEST VIRGINIA BOARD OF PROFESSIONAL SURVEYORS

Certificate of Authorization

ISSUED TO:

Mott MacDonald, LLC

Charleston, West Virginia



Certificate of Authorization # **17-5733**

This certificate is issued by the West Virginia Board of Professional Surveyors in accordance with West Virginia Code § 30-13A-20
The person or organization identified on this certificate is licensed to conduct professional surveying and mapping services
in the State of West Virginia for the period

January 1, 2017 through December 31, 2017

This certificate is not transferrable and must be displayed at the office location for which issued.

In witness whereof I have put my hand, this 2nd day of December, 2016

R. MICHAEL SHEPP, P.S. Chairman

JAMES T. RAYBURN, P.S., Member



NELSON B. DOUGLASS, P.E., P.S., Secretary

SEFTON R. STEWART, P.S., Member

PAUL W. HILL, Public Member



**West Virginia State Board of Registration
for Professional Engineers**

**GARY D. FACEMYER
WV PE #008287**

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2018

2018

WEST VIRGINIA PROFESSIONAL SURVEYOR

The West Virginia Board of Professional Surveyors certifies that the individual listed below is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2018.

GARY D. FACEMYER

License # 1320

JULY 1, 2017 - JUNE 30, 2018

Board Members

Mike Shepp, PS, *Chairman*
Nelson Douglass, PE, PS, *Secretary*
Tom Rayburn, PS
Sefton Stewart, PS
Paul Hill

Executive Director
Dennis Jarrell

R. Michael Shepp

Nelson B. Douglass





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
07/11/2017

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 of New Jersey, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	CONTACT NAME: PHONE (A/C, No, Ext): 1-877-945-7378		FAX (A/C, No): 1-888-467-2378
	E-MAIL ADDRESS: certificates@willis.com		
INSURED Mott MacDonald, LLC 111 Wood Avenue South Iselin, NJ 08830	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Fireman's Fund Insurance Company		21873
	INSURER B: Travelers Property Casualty Company of America		25674
	INSURER C: American Automobile Insurance Company		21849
	INSURER D: Underwriters at Lloyd's London		15792
	INSURER E: INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** W2999982 **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. SUBR. INSD	WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY	N	N	MZX80979493	06/30/2017	06/30/2018	EACH OCCURRENCE \$ 2,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000
							MED EXP (Any one person) \$ 10,000
							PERSONAL & ADV INJURY \$ 2,000,000
GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:							GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY	N	N	MZX80979493	06/30/2017	06/30/2018	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"/> SCHEDULED AUTOS						BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident) \$
							\$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR	N	N	ZUP-15S91842-17-NF	06/30/2017	06/30/2018	EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$ 1,000,000
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000						\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	N/A	N	WZP81041085	06/30/2017	06/30/2018	<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
D	Professional Liab.	N	N	B080120388P17	06/30/2017	06/30/2018	Per Claim/Aggregate \$1,000,000

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

Authority is Additional Insured as respects to General Liability as per written contract or agreement.

CERTIFICATE HOLDER**CANCELLATION**

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

For Your Information

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Courtesy Notice of Cancellation for Other Than Nonpayment of Premium to Designated Entities - 145977 01 11

Policy Amendment Policy Number: Policy Number: MZX80979493 Effective Date: 06/30/2017;
WZP81041085 Effective Date: 06/30/2017 General Liability; Auto Liability, Workers Compensation

Schedule

Name and Address of Person(s) or Organizations	Number of Days Notice if other than 10 days:
On File with Carrier, as required by written contract	Canacellation Number of Days Notice- 60 When we don't Renew (Non-Renewal)- 30

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

This policy is amended as follows:

- A. If We cancel this policy prior to expiration for any reason other than non payment of premium or at Your request, and we have been notified that You are required under a current contractual obligation to notify a certificate of insurance holder or holders when this policy is canceled, then We will endeavor to mail or deliver a copy of such written notice of cancellation to the certificate holder(s) shown in the Schedule above, as follows:
1. To the name and address corresponding to each certificate of insurance holder indicated in the Schedule above; and
 2. At least 10 days prior to the effective date of the cancellation, as shown in our notice to the first Named Insured, or, if indicated, the longer number of days notice shown in the Schedule above.
- B. Notwithstanding the foregoing, such notice of cancellation is provided on an informational basis and solely to assist You in informing the certificate of insurance holder(s) in advance of pending cancellation in coverage to assist you in meeting Your contractual notice requirements to such parties. Our failure to provide such advance notification to the certificate of insurance holder(s) shown in the Schedule of this endorsement will not extend any policy cancellation date, negate any cancellation of the policy, or grant, alter or extend any rights or obligations under this policy and we shall have no liability for any failure to provide the notice(s) as provided herein.

All other terms and conditions of this policy remain unchanged.

**GENERAL TERMS AND CONDITIONS:
West Virginia Division of Natural Resources
Agency Delegated Procurements Over \$25,000**

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.



(Name, Title)

Gary Facemyer, PE; Senior Associate

(Printed Name and Title)

201 Pennsylvania Avenue, 4th Floor, Charleston, WV 25302-2315

(Address)

304.356.3010

(Phone Number) / (Fax Number)

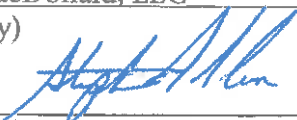
gary.facemyer@mottmac.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Mott MacDonald, LLC

(Company)



(Authorized Signature) (Representative Name, Title)

Stephen B. Polen, PE; Senior Vice President

(Printed Name and Title of Authorized Representative)

December 12, 2017

(Date)

412.497.2950

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received: **None**

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Mott MacDonald, LLC

Company

Authorized Signature

December 12, 2017

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.