Woodland Design Associates, Inc.
Landscape Architects □ Site Planners □ Wetlands Specialists

Submission of Qualifications for Professional Services

Sand Spring Run Stream Bank Restoration Project – C990000726

PA Game Lands 38
Jackson and Pocono Townships
Monroe County, PA
September 23, 2019
Construction Start Date: Fall 2020

Project Technical Review and Management: Monroe County Conservation District
Landowner and Applicant: Pennsylvania Game Commission

The following qualifications and information are being provided based on the Request for Qualifications for Professional Services for Sand Spring Run Stream Bank Restoration Project – C990000726 issued August 20, 2019; notes taken on the Pre-Bid Site Visit on September 11, 2019; and addendums and meeting notes issued after both of these items were received.

Please accept the following as our submission of qualifications for this project. We look forward to discussing the information and our flexible approach further, in an interview.

Submission Contents:

A. A completed Respondent Information Form	Page(s) 4-8, see attached, Appendix A.
B. A signed Non-Collusion Affidavit	See attached Appendix A.
C. A statement of interest	Page(s) 2-3
D. A resume outlining the respondent's experience, the experience of key team (only) and a response to qualification evaluation criteria;	Page(s) 9-10, see attached, Appendix A.
E. Qualifications of the Bidder to successfully complete the project, including a list of similar projects, contract amounts and contact information for the projects listed (projects and references)	Page(s) 11-12, see attached, Appendix A.
F. Anticipated fee for Scope of Services outlined in Section 3.1 **(3.1a*)**	Page(s) 13
G. Suggestions, Recommendations or Assumptions which form the basis of the bid.	Page(s) 2-3

119 Lincoln Street, Honesdale, PA 18431
Phone: 570-616-0600 □ woodland@woodlanddesign.com □ www.woodlanddesign.com

September 23, 2019

Monroe County Conservation District
8050 Running Valley Road
Stroudsburg, PA 18360

Attn: Lori Kerrigan, Technical Supervisor

RE: C. A Statement of Interest
RFQ for Professional Services
Sand Spring Run Stream Bank Restoration Project
C990000726

Dear Ms. Kerrigan (MCCD) and the PA Game Commission Reviewee(s),

Please accept this correspondence, and all attachments, as a statement of interest for the Sand Spring Run Stream Bank Restoration Project from our Team. The project goals, as discussed on the Pre-Bid Site Visit and in the RFQ, are: to improve water quality, restore the natural stream functions, minimize bank erosion and restore habitat in the 250' headwater reach identified along Sand Spring Run.

In order to enhance the greater watershed as desired, the RFQ proposes four (4) deliverables under the Scope of Services (3.1), including identifying a reference reach and performing a fluvial geomorphological survey (Rosgen Method preferred). Woodland Design Associates (WDA, Landscape Architects, Project Lead) understand the scope of work provided and will be utilizing two subconsultants to perform the work, if selected: Reilley Associates (Civil Engineering and Surveying) and Midlantic Engineering (Geotechnical Engineering). Please see the attached forms (Appendix A) which include their Non-Collusion Affidavits and answers to their Respondent Information Forms.

As the attached resumes and referenced projects show, we feel that our team is well experienced for these professional services; as all three firms strive to protect the scenic beauty of exceptional value waters in this region. Please note that we are able to perform the work as outlined in the RFQ, however, during the Pre-Bid Site Visit, the Monroe County Conservation District expressed interest in reviewing a revised approach; if the applicant felt that there were additional project needs, or more proficient results could be achieved, with a simpler, cost effective approach.

Our overall approach, thematically, would be to keep the construction simple, safe, and productive (per dollar); focusing construction monies towards stream rehabilitation and habitat creation to reduce sediment and restore water quality quickly, at the 5-10 year storm level first; then work up and out, stabilizing the stream back to calculated forest conditions while continuing to creating a stream channel that can safely and environmentally function through 100 year flood events. With this and our previous experience in mind, please accept the following as our suggested (revised) scope of services [G. Suggestions, Recommendations or Assumptions which form the basis of our bid]. Key information are provided in red.

Recommended* Scope of Services (3.1a*)

Deliverable #1 – Data Collection

i. Site Visit and Determine Survey Limits
ii. Conduct Pennsylvania Natural Heritage Program (PNDI)
iii. Invasive Species Baseline Study (DCNR requires this for Construction Projects on State Owned Lands)
iv. Selection of Reference Reach
v. Submit GP-8 temporary stream crossing (for safe Geotech access)
vi. FGM and Stream and Topographic Survey
vii. Perform Geotech Analysis and Slope Analysis (to gather any information that limits solutions)
viii. Review Available Data and prepare Initial Condition Plan and Report
ix. Prepare Wetland Delineation Report
x. Prepare initial conceptual sketch solution (allows for feedback, efficient approach, and objective fulfillment)
xi. Present Deliverable #1 to MCCD and PAGC (allows for feedback discussion of approach with all parties)

Deliverable #2 – Preliminary Design

i. Perform initial Hydrology and Hydralics Design (allows for consideration of real flows)
ii. Develop Initial Grading Plan (allows for consideration of access and proposed conceptual flows)
iii. Prepare Preliminary Design Drawings
and Riparian Planting Plan (DCNR dictates seed mixes and plants used on State Owned lands)
iv. Finalize any Pennsylvania Natural Heritage Program (PNDI) and Pennsylvania Historical and Museum Commission (PHMC) hits, applying approach to design
v. Prepare initial Erosion and Sediment Control Plan Approach
(conceptual BMP sequence, stabilization phasing, etc.)
vi. Present Deliverable #2 to MCCD and PAGC (allows for feedback discussion of approach with all parties)

Deliverable #3 – Final Design and Permitting

i. Develop (apply feedback and finalize) Hydrology and Hydraulics Design.
ii. Develop (apply feedback and finalize) Grading Plan
iii. Pre-application Meetings for Permitting
iv. Develop (apply feedback and finalize) Erosion and Sediment Control Plan
v. Prepare and Submit NPDES Permit Application
vi. Prepare and submit Section 404/ Chapter 105 Joint Permit Applications
vii. Present Deliverable #3 to MCCD and PAGC (allows for feedback discussion of approach with all parties)

Deliverable #4 – Construction Documents

i. Prepare Technical Specifications
ii. Prepare Construction Drawings
iii. Prepare Long-Term Monitoring/Operation & Maintenance Plan
iv. Present Deliverable #4 to MCCD and PAGC (allows for feedback discussion of approach with all parties)

We have provided prices for this revised scope of services and look forward to discussing and adjusting the approach.

Thank you for your time,

Jayson M. Wood, RLA*, CPRP, LEED AP
Woodland Design Associates, Inc.
jaysonwood@woodlanddesign.com
www.woodlanddesign.com
office : (570) 616-0600 x 104
cell: (570) 229-0670
*Licensed in Pennsylvania & California

A. Respondent Information Form Statement of Bidder Qualifications (*RFQ, Rev 08/2019 1-8*)

Woodland Design Associates, Inc.*

1. Company name, bidder email, mail address and branch office address:

ProjectTeam Lead: Woodland Design Associates, Inc.
119 Lincoln St.
Honesdale, PA 18431
(mikewood@woodlanddesign.com)

Survey and Engineering Support: Reilley Associates, Inc.
PO Box 667
Stroudsburg, PA 18360
(cmcdermott@reillyengineering.com)

Additional information attached; see Appendix A.

Geotechnical Support: Midlantic Engineering, Inc.
120 Commerce Rd.
Pittston, PA 18640
(midlaneng@aol.com)

Additional information attached; see Appendix A.

2. Type of business entity (corporation, non-for-profit, proprietorship, etc.) and Federal Tax Identification Number:

Woodland Design Associates, Inc. is a corporation.
Tax I.D. #: #23-2388405.

3. If company is a corporation, state the date and place of incorporation and give a brief history of company's operations. Please include if your firm is affiliated with Minority, Women, Small, or Disadvantaged Business Enterprises.

Woodland Design Associates, Inc. is a landscape architecture firm incorporated in 1984 in the state of Pennsylvania. It is a small business with seven (7) employees and has provided professional landscape architectural design services for various private and public clients; including wetland mitigation design, stream bank rehabilitation and crossing design, and various permitting attainment. NPDES permitting, wetland delineations, and land development continue to be the basis of the firms work for over 30 years. The company is 39% women owned. Woodland Design is not affiliated with any small business or women owned business enterprises.

4. List directors, officers, owners, managerial employees or partners, and identify the ownership interest of each:

Michael C. Wood, President, Principal Landscape Architect 36% Owner
Jayson M. Wood, Vice President, Directing Landscape Architect, 25% Owner
Emily R. Wood, Vice President, Directing Landscape Architect, 25% Owner
Amy D. Wood, Chairwoman, 14% Owner

5. Total number of employees and total number of licensed professionals:

Woodland Design has seven (7) employees and four (4) are licensed landscape architects.

6. Identify locations from which services will be performed:

   Woodland Design Associates Inc., 119 Lincoln St., Honesdale PA 18431

7. Identify or attach license or certificates to perform the work in each jurisdiction where the work will take place.

   Woodland Design Associates, Inc.: Michael C. Wood, RLA PA License # LA000782E
   Jayson M. Wood, RLA PA License # LA003151

8. Has any director, officer, owner or managerial employee had any professional license suspended or revoked? If yes, list the name of the individual, license held and disposition of the issue.

   Woodland Design Associates, Inc.: No.

9. Has any director, officer, owner or managerial employee been convicted or the subject of criminal indictment during the past five (5) years? If yes, summarize the matter and its disposition.

   Woodland Design Associates, Inc.: No.

10. Is the company currently involved in bankruptcy or similar proceedings? If yes, explain.

    Woodland Design Associates, Inc.: No.

11. During the past three (3) years, has the company been found guilty of any OSHA, EPA or State environmental or safety violation(s)? If yes, describe the nature of the violation and steps taken to remediate the condition(s).

    Woodland Design Associates, Inc.: No.

12. During the past five (5) years, has company been charged with retaliation or discrimination against any employee on the basis of race, ethnicity, national origin, disability, gender or other violation of equal employment opportunities? If yes, summarize each claim and its disposition.

    Woodland Design Associates, Inc.: No.

13. During the past five (5) years, has company been named as a party in any action involving a claim for personal injury or wrongful death arising from performance of work on any project? If yes, summarize the claim and its disposition.

    Woodland Design Associates, Inc.: No.

14. During the past five (5) years, has company been the subject of an investigation or proceedings before the city, state or federal Departments of Labor for any alleged violation of any wage or labor law? If yes, summarize each such instance and its disposition.

    Woodland Design Associates, Inc.: No.

15. Has the company ever been terminated from a project by the Owner? If yes, list the projects on which the bidder was terminated, the nature of the termination (e.g., convenience, suspension, for cause), and the date of said termination.

    Woodland Design Associates, Inc.: No.

16. List the technical and professional staff to be employed on this project; describe general and specific specialties/expertise and overall resources; provide title, role and work resume of each team member, including principals.

    Woodland Design Associates, Inc.:

    Michael C. Wood, Principal Landscape Architect—will direct (lead) the overall project tasks across the multidisciplinary Team, supervise data gathering, supervise and direct solutions and drawing creation, review all applicable documents and provide redlines and direction. Mike is an expert in the field of landscape architecture, with over 30 years of experience in the field, running a full-service design firm. Please refer to the attached resume for additional information regarding his expertise and references.

    Jayson M. Wood, Directing Landscape Architect—will organize and manage all gathered data across the multidisciplinary team; create, draft, and design Team developed solution(s) using AutoCAD and a variety of programs; review and create plans, specifications, drawings, and applications outlined in the scope of the project with the support of the team and direction of Michael Wood.

17. Indicate your understanding of the scope of work involved in the project and potential problems to be addressed. Summarize how you will respond to specific phases of the work, identifying any innovative or creative design approaches or strategies that the company proposes.

    Woodland Design, through 30 plus years of experience, with the support of the subconsultant Team are uniquely experienced in stream stabilization, rehabilitation, and hydrological projects in eastern Pennsylvania. Over the last 30 years all three firms have a proven track record of successful projects. As the lead, Woodland Design will direct the solution based on the Scope of Work provided. This Scope of Work has been revised to include a few adjustments. These adjustments were made based on the Team's experience on similar projects and, we believe, will lead to a much smoother project timeline, developed solution, and construction. Please refer to the statement of interest and the Recommended Scope of Services (3.1a*) provided for the adjusted approach. Overall the revised approach is innovative; in the sense that the solution proposed is simple, organized, cost efficient, and effective as possible; while achieving the objectives and goals outlined in the RFQ.

18. Describe the nature and level of communications company will maintain with MCCD staff during the various project phases.

    Woodland Design, as the project team leader, will be the single point of contact for MCCD and the PA Game Commission and those conducting the work, for their ease and project organization. Woodland Design is glad to accommodate regular communication on a timeline desired by the Conservation District and/or the Game Commission. We have included, suggest, and recommend having the team present their work to date upon the completion of each phase. This will lead to the best possible understanding, direction, and solution of the project.

19. Discuss any special or specific qualifications company has for this project.

    Woodland Design Associates, has landscape architects on staff, which will provide licensed personnel, trained in the function of natural systems; such as streams, flora, fauna, and their interaction with man-made elements which affect and deteriorate natural system function.

    Woodland Design is also qualified and recommending an invasive species study, which is typically required prior to construction projects, by DCNR, when notified of a project by the Game Commission, on state owned land. An invasive species baseline is proposed and adjustments would be made to the Erosion and Sediment

Control Plan to assure, during construction, that machinery and personnel do not bring invasive flora and fauna onto the site.

Woodland Design works regularly on lands owned by the state of Pennsylvania. On recent projects, DCNR, when notified of a project through the Game Commission, has requested the use of certain seed mixes and plants when restoring portions of a site within the state-owned lands. We recommend these be included from the beginning and have access to them as we use them frequently. Adjustments to the seed mixes can be negotiated with DCNR through the Project Team, if desired.

Lastly, the project team included are all local and very familiar with the habitat, flora, fauna, citizens, streets, government, weather, etc. of the Pocono Plateau. We work in, hike, bike, walk, enjoy, and live locally. We have also all provided reviewed plans and information to both agencies. We feel that, as locals, we will bring a unique, thorough understanding and perspective to this project and its eventual solution.

20. Describe how company will ensure Project performance, quality and consistency through adequate management, supervision and control techniques.

Woodland Design will provide a single point of communication for the overall Team. This includes frequent communication, conference calls, and timeline notification within the Team. Aside from both subconsultants checking their work, Woodland will apply its own internal quality control system for all documents receive and created internally. Woodland Design will be the single point of project organization and consistency; and the only firm issuing documents to the reviewing committee and applicable agencies.

21. Describe company's system of monitoring and oversight to ensure maintenance of complete and accurate work, payroll and invoicing records.

Woodland Design will be the single contact of invoicing for the project. Woodland will receive, cover, and manage all subconsultant fees; issuing one invoice at the end of each deliverable. Each invoice will include direct tasks as listed in the final scope of services. The invoice will list the task, who performed it, and percent complete. We understand that there is a 10% retainage and all payments are made quarterly.

Regarding construction monitoring and administration, Woodland Design is qualified, experienced, and glad to provide additional services to assure that the project is installed and stabilized correctly, in a timely manner, if desired.

22. Does company have any projects ongoing at the time of the submission of this bid? If yes, list the projects on which the bidder is currently working, the percentage now complete and the expected dates of completion.

Woodland Design currently has about 30 projects ongoing. If given the opportunity, we can absolutely accommodate the timeline outlined in the RFQ. With a 30 year history, we have never had any issues achieving work in a timely manner which satisfied our clients design and construction schedules.

Currently we are working on the following three projects:

PPL Inc., Electric Utility Project. Hauto-Frackville Girard Manor Tap (Utility Line), Mahanoy City, Pennsylvania. 90% design complete. Scheduled to be submitted to DEP November 1, 2019. Scheduled for construction completion, Fall 2021.

Dickson City Streetscape, Dickson City, PA. 100% Conceptual Design Complete. 20% grant writing and funding complete. Phase 1 construction documentation and construction scheduled for Fall 2020.

Wayne County Trail Feasibility Study, Honesdale, PA. 80% of the feasibilty study is complete. The report is scheduled for submission to PA DCNR and the Wayne County Commissioners in November 2019.

23. Attach company's most current certified financial statement or, if a certified statement has not been issued within the past 12 months, the company's latest internal financial statement.

Woodland Design Associates Inc. works regularly with PennDOT, PA DCNR, and public and private clients. Woodland Design Associates regularly grosses income on projects in excess of the proposed project budget, annually, and has no outstanding debts or liens. Woodland carries professional insurance in for professional services in excess of $1,000,000 and follows protocols for cyber security mandated by that insurance.

At this time, the companies certified financial statement and latest internal financial statement are confidential. Upon being shortlisted or asked for an interview, these documents can be immediately provided, upon request.

By: Amy D. Wood
(Signature)

Amy D. Wood Sec/Treas. Woodland Design Assoc. Inc.
(Print Name, Title, and Company)

Dated:

Sworn to before me this 20 **day of** September, **2019.**

Stephanie Jean Tasker
Notary Public

Commonwealth of Pennsylvania – Notary Seal
STEPHANIE JEAN TASKER – Notary Public
Wayne County
My Commission Expires Jan 26. 2021
Commission Number 1305201

D. A resume outlining the respondent's experience, the experience of key team (only) and a response to qualification evaluation criteria;

Woodland Design Associates, Inc.

Michael C. Wood, President
Registered Landscape Architect
PA License # LA000782E

Michael C. Wood is president of Woodland Design Associates, Incorporated, a land planning and design firm located at 119 Lincoln Street, Honesdale, Pennsylvania, which he founded in 1984. He is a Registered Landscape Architect, licensed in the states of Pennsylvania, Maryland, and Virginia. Michael is an alumnus of the Pennsylvania State University from which he received a Bachelor of Science degree in Landscape Architecture.

His professional practice specializes in the interaction of land use and the environment. His firm has a national reputation for resolving land use and environmental conflicts in both the public and private sectors. He has a thorough knowledge of federal and state regulations with regards to land use and the environment and has been acknowledged by the Pennsylvania Court of Common Pleas as an expert witness and has served as an expert witness in storm water management on behalf of the Pennsylvania State Attorney General's Office before the Pennsylvania Environmental Hearing Board.

In 1988, Mr. Wood was appointed to the Pennsylvania State Board of Landscape Architects by Governor Robert Casey and subsequently served for six years, the last two years as chairman of the board. During his two terms he oversaw the updating of the rules and regulations governing the practice of landscape architecture and was instrumental in initiating the development of mandatory continuing education as part of the license renewal process. He is a member of the Society of Wetland Scientists, as well as the Pennsylvania Association of Environmental Professionals.

Mr. Wood has served in the capacity of municipal zoning officer for several municipalities in Wayne County, Pennsylvania. Those communities include Waymart Borough (1984 through 1988), Texas Township (1994 through 1997), Honesdale Borough (1988 through 1992 & 1997 through 2001) and Bethany Borough (1998 through 2005).

From 1985 to 1990, Michael served on the Berlin Township Planning Commission. In 1990 he was elected to the office of Berlin Township Supervisor. He served for a 6-year term.

Michael has provided wetland delineation services as part of his professional practice since 1988 and in the subsequent 30 years has delineated thousands of acres of wetlands throughout Pennsylvania, Maryland and New York. His work has been evaluated and found acceptable by the States of Pennsylvania and Maryland, as well as the Philadelphia, New York, and Baltimore Districts of the United States Army Corps of Engineers.

On February 28, 2013, Michael was appointed to the Wayne County Board of View, by President Judge Raymond Hamill, in the Court of Common Pleas of the 22nd Judicial District of the Commonwealth of Pennsylvania. He serves the County on the Board of View which resolves land disputes in which eminent domain exists. In April 2017, He became a Board Member of the Wayne Economic Development Corporation.

Response to Qualification Criteria:

Michael demonstrates an extremely strong knowledge and proficiency in fluvial geomorphic survey and design. Over his forty (40) plus years of experience in the field he has demonstrated strong knowledge of local, state, and federal permitting; on projects crossing, adjacent to, and within stream banks through a variety of approaches. As the attached portfolio shows, this includes approaches such as: emergency; design build; designed, permitted, and built; all on a variety of state owned, public, and private land. Throughout his carrier has provided various hydrologic studies, identifying stream characteristics, flows, soils and rock types and sizes [Rosgen Method]; erosion; and ultimately solutions through stabilization and habitat creation. Over the last 25 years, Michael continues to direct and provide insight to multidisciplinary teams through his leadership. This includes developing permitting, hydrological, grading, and planting plans while directing team members to complete submittal packages on time, on budget, and with the proper state and local approvals.

Jayson M. Wood
Registered Landscape Architect
PA License #LA 003151 - CA License #5998 – CPRP - LEED Accredited Professional

EDUCATION

The Pennsylvania State University **2004 - 2009**
College of Arts and Architecture. University Park, PA
Bachelor of Landscape Architecture, 2009

North Carolina State University **Summer 2010**
Army Corps of Engineers Wetland Training Manual

SKILLS

Design by use of-- Adobe Photoshop, Adobe Illustrator, AutoCAD, ArcGIS, HydroCAD, Trimble, Microsoft Office

EMPLOYMENT

Woodland Design Associates, Inc. **2015-Present**
Landscape Architect, Honesdale, PA

- Individual & General National Pollutant Discharge Elimination System (NPDES) Permits for public utilities, private development, and commercial development projects
- Erosion and Sediment Control Plans and Construction Plans associated with multi-million dollar, large scale construction
- Layout & grading plans
- Interface with PPL EU, PA Dept. of Environmental Protection Regional Offices and Multiple County Conservation Districts to resolve permitting issues and obtains permits
- Wetland delineation and GPS technician
- Planting and habitat plans
- Construction Cost Analysis

Miller Company Landscape Architects **2014-2015**
Landscape Architect, San Francisco, CA

- Design and development of outdoor classrooms and playgrounds for public and private schools, project manager and project team member
- Construction Documentation and Administration, project manager and project team member

CONTINUING EDUCATION

Slope Stabilization and Landslide Prevention **2018**
HalfMoon Education, Allentown, PA
Stormwater Best Management Practices Seminar **2018**
HalfMoon Education, Cherry Hill, NJ

Response to Qualification Criteria:

Jayson demonstrates an extremely strong knowledge and proficiency in fluvial geomorphic survey and design. Over his ten (10) plus years of experience in the field he has developed and demonstrated strong knowledge of local, state, and federal permitting; on project which cross, are adjacent to, or are within stream banks, through a variety of approaches. Most recently he has provided various GP crossing permits, identifying stream characteristics, flows, soils and rock types and sizes [Rosgen Method] to accommodate crossings or encroachment. His daily responsibilities including drafting, designing, reviewing, and developing various permittable solutions for sites with erosion or potential erosion, across the commonwealth. His projects regularly include work in and adjacent to Exceptional Value and High-Quality Streams/Waters. Jayson continues to, and has never not met, project timelines and budgets as a Project Manager.

E. (Qualifications of the Bidder) Woodland Design Project Portfolio and References:

Baseline Experience:

From June of 1975 through January 1979, during his employment with the U.S.D.A. Soil Conservation Service, as a Soil Conservationist, Michael Wood, was an active participant in implementation of Section 219 of the Flood Control Act of 1950, specifically for damages to streams and waterways in Pennsylvania for both the Hurricane Agnes Flood in 1972 and the Johnstown flood of 1977. Wood was initially stationed in Wayne County and provided design, specifications, bidding and project management for over 100 miles of stream restoration in Wayne County. The design included utilizing a new technique of incorporating vegetation into the hard material design. Fish enhancement and gravel bar removal was also included. Construction contracts for **work exceeded 1 million dollars**. Wood was then transferred to Somerset County upon notice of necessary flood work in August 1977, where he remained for 7 months essentially conducting "design-build" solutions to hundreds of miles of streams within Somerset, Cambria, Indiana, and Blair Counties. The scope of work included real time design and specification determination, contracting, and project management. Work contracts were in excess of **several million dollars**.

Contacts:

Mr. Gary Piorkowski, PE, (former USDA SCS employee) 570-281-9224, Ext. 4.
Mr. Larry Schardt, (former USDA SCS employee) 717-994-2084

Projects:

1. PA DEP Emergency Permit # 1913501 issued 12/26/13.

Location: Mugser Run, Cleveland Township, Columbia County.

Scope of Work: Due to a major storm event, Mugser Run had jumped its banks causing severe erosion and major sedimentation downstream, environmentally affecting a well-known tourist destination, Koebel's Amusement Park. The re-direction of the stream posed a threat to the electric power grid by immediately exposing a concrete foundation to an electric transmission pole. This posed an adverse impact to residents and the commercial facility for an increased power outage.

Working in concert with the PA DEP and the PA Fish and Boat Commission's Northcentral Regional Offices, Woodland Design proposed a design solution and was able to obtain an emergency permit for corrective action. The design included returning the stream to its original course, stream bank stabilization, utilizing both hard and vegetative stabilization, as well as strategic placement of fish enhancement structures, using on site timber to create deflections reducing the stream energy and creating pools for aquatic reproduction. The project reach was 700 feet. Professional design costs were approximately $25,000.

Contacts:

Mr. George Grose, Project Manager, PA DEP NCRO, 570-327-0512
Mr. David Keller, Senior Habitat Manager, PA F&BC, 814-359-5158

2. PA DEP Chapter 105 General Permit # 3 for streambank restoration., issued 5/10/13.

Location: Un-named tributary to Fishing Creek, off Robbins Rd, Columbia, County, PA.

Scope of Work: Due to stormwater damage an electric transmission pole which was direct buried into the ground along an un-named tributary of Fishing Creek was exposed and in danger of collapsing. 75 feet

of streambank was involved. Design meet the permit requirements. Professional design costs approximately $15,000.

Contact:

Mr. Barry Travelpiece, PE, Resource Conservationist II,
Columbia County Conservation District, phone 570-317-9469.

3. PA State Forest – Weiser State Park

Location: Weiser State Forest, off Helfenstein Rd, Eldred Township, Schuylkill County, PA.

This project is currently underway, as of September 2019.

Location: Weiser State Forest, off Helfenstein Rd, Eldred Township, Schuylkill County, PA.

Scope of work: Obtain a a PA DEP Chapter 105 General Permit #11 on behalf of the PA DCNR in cooperation with a local utility company. The GP-11 is for an access road crossing replacement over Mahanoy Creek. Overall project includes, NPDES permit which includes access to site, invasive species study, further PNDI studies, and a wetland delineation.

This project is referenced as an example of performing work for both the State and a public utility which is similar in scope to this project. Professional services costs approximately $75,000.

Contact:

Mr. David E. Mong, Forest Program Specialist, PA DCNR, 717-783-7947.

F. Anticipated fee for Scope of Services outline in Section 3.1 (*RFQ, Rev 08/2019 1-8*)

Deliverable #1 – Data Collection

Task 1: Site Visit and Determine Survey Limits	$2,112.00 Woodland
Task 2: Conduct Pennsylvania Natural Heritage Program (PNDI)	---Cost Included in cost of NPDES permit (Del. #3)
Task 3: Invasive Species Baseline Study	$2,112.00 Woodland
Task 4: Selection of Reference Reach	$1,230.00 Woodland
Task 5. Submit GP-8 temporary crossing (for safe access as early as poss.)	$4,038.00 Woodland
Task 6: FGM and Stream and Topographic Survey	$2,212.00 Woodland $5,000.00 Reilly*
Task 8: Perform Geotech Analysis and Slope Analysis	$1,524.00 Woodland $6,000.00 Midlantic**
Task 9: Review Available Data and prepare Initial Condition Plan and Report	$2,166.00 Woodland
Task 10: Prepare Wetland Delineation Report	$2,313.00 Woodland
Task 11: Prepare initial conceptual sketch solution	$1,230.00 Woodland
Task 12: Present Deliverable #1 to MCCD and PAGC	$762.00 Woodland

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* Topographical Survey will be conducted using available lidar information and spot checking using a transit on site.

** recommended hand and auger study by Geotech Engineer, if drill rig is desired, cost will increase

Subtotal: 30,699.00

Deliverable #2 – Preliminary Design

Task 1: Perform initial Hydrology and Hydraulics Design	$2,500.00 Reilly
Task 2: Develop Initial Grading Plan	$3,102.00 Woodland
Task 3: Prepare Preliminary Design Drawings and Riparian Planting Plan	$4,038.00 Woodland
Task 4: Finalize any Pennsylvania Natural Heritage Program (PNDI) hits	---Cost Included in cost of NPDES permit (Del. #3)
Task 5: Prepare initial E&S Plan Approach	$2,166.00 Woodland
Task 6: Present Deliverable #2 to MCCD and PAGC	$762.00 Woodland

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Subtotal: 12,568.00

Deliverable #3 – Final Design and Permitting

Task 1: Develop (apply feedback and finalize) Hydrology and Hydraulics Design.	$4,500.00 Reilly
Task 2: Develop (apply feedback and finalize) Grading Plan	$2,166.00 Woodland
Task 3: Pre-application Meetings for Permitting	$602.00 Woodland
Task 4: Develop (apply feedback and finalize) Erosion and Sediment Control Plan	$4,038.00Woodland
Task 5: Prepare and Submit NPDES Permit Application	$4,102.00 Woodland
Task 6: Prepare and submit Section 404/ Chapter 105 Joint Permit Applications	$4,038.00 Woodland*
Task 7: Present Deliverable #3 to MCCD and PAGC	$762.00 Woodland

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* depending on PNDI, PHMC, and wetland findings, selected approach, and construction timing; the project has potential to qualify for a Chapter 105 GP-3 permit, reducing this cost. Additional information is needed.

Subtotal: 20,208.00

Deliverable #4 – Construction Documents

Task 1: Prepare Technical Specifications	$2,166.00 Woodland
Task 2: Prepare Construction Drawings	$2,166.00 Woodland
Task 3: Prepare Long-Term Monitoring/Operation & Maintenance Plan	$2,166.00 Woodland
Task 4: Present Deliverable #4 to MCCD and PAGC	$762.00 Woodland

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Subtotal: 7,260.00

Anticipated Fee Grand Total: $70,735.00

Appendix A.

Table of Contents

1. Non-collusion affidavits
2. Riley Associates Resumes, response
   to qualifications, list of projects and contacts.
3. Midlantic Engineering Resumes,
   response to qualifications, list of projects, and contacts.

NONCOLLUSION AFFIDAVIT

MCCD Project Name: Sand Spring Run Stream Bank Restoration Project - C990000726

State of : Pennsylvania
County of: Monroe:

I state that I am the Sec/Treas (Title) of Woodland Design Assoc. Inc. (Name of Firm) and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the prices(s) and the amount of this proposal.

I state that:

1. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other contractor, proposer, or potential proposer.

2. Neither the price(s) nor the amount of this proposal, and neither the approximate price(s) nor approximate amount of this proposal, have been disclosed to any other firm or person who is a proposer or potential proposer, and they will not be disclosed before the proposal submission date.

3. No attempt has been made or will be made to induce any firm or person to refrain from proposing on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.

4. The proposal of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.

5. Woodland Design Assoc. Inc. (Name of Firm) its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last three years been convicted or found liable for any act prohibited by state or federal law in any jurisdiction, involving conspiracy or collusion with respect to proposing and/or bidding on any public contract, except as follows: —

I state that Woodland Design Assoc. Inc. (Name of Firm) understands and acknowledges that the above representations are material and important, and will be relied upon by the **Monroe County Conservation District (MCCD)** in awarding the contract(s) for which this proposal is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from the **MCCD** of the true facts relating to the submission of this proposal.

Amy D. Wood
(Signature)

Amy D. Wood
(Signatory's Printed Name)

Sec/Treas. Woodland Design Assoc. Inc.
(Signatory's Title)

SWORN TO AND SUBSCRIBED BEFORE ME THIS 20 DAY OF September, 2019.

Stephanie Jean Tasker
Notary Public

My Commission Expires

January 26, 2021

Commonwealth of Pennsylvania – Notary Seal
STEPHANIE JEAN TASKER – Notary Public
Wayne County
My Commission Expires Jan 26, 2021
Commission Number 1305201

NONCOLLUSION AFFIDAVIT

MCCD Project Name: Sand Spring Run Stream Bank Restoration Project - C990000726

State of : Pennsylvania
County of: Monroe:

I state that I am the Vice President (Title) of Reilly Associates (Name of Firm) and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the prices(s) and the amount of this proposal.

I state that:

1. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other contractor, proposer, or potential proposer.

2. Neither the price(s) nor the amount of this proposal, and neither the approximate price(s) nor approximate amount of this proposal, have been disclosed to any other firm or person who is a proposer or potential proposer, and they will not be disclosed before the proposal submission date.

3. No attempt has been made or will be made to induce any firm or person to refrain from proposing on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.

4. The proposal of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.

5. Reilly Associates (Name of Firm) its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last three years been convicted or found liable for any act prohibited by state or federal law in any jurisdiction, involving conspiracy or collusion with respect to proposing and/or bidding on any public contract, except as follows: None

I state that Reilly Associates (Name of Firm) understands and acknowledges that the above representations are material and important, and will be relied upon by the Monroe County Conservation District (MCCD) in awarding the contract(s) for which this proposal is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from the MCCD of the true facts relating to the submission of this proposal.

(Signature)

Joseph S. Dvalin
(Signatory's Printed Name)

Vice President
(Signatory's Title)

SWORN TO AND SUBSCRIBED BEFORE ME THIS 20th DAY OF September, 2019.

Karen A. Coco
Notary Public

My Commission Expires

June 11, 2023

Commonwealth of Pennsylvania
County of Luzerne

Commonwealth of Pennsylvania - Notary Seal
Karen A. Coco, Notary Public
Luzerne County
My commission expires June 11, 2023
Commission number 1352378
Member, Pennsylvania Association of Notaries

NONCOLLUSION AFFIDAVIT

MCCD Project Name: Sand Spring Run Stream Bank Restoration Project - C990000726

State of : Pennsylvania
County of: Monroe:

I state that I am the President (Title) of Midlantic Engineering, Inc. (Name of Firm) and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the prices(s) and the amount of this proposal.

I state that:

1. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other contractor, proposer, or potential proposer.

2. Neither the price(s) nor the amount of this proposal, and neither the approximate price(s) nor approximate amount of this proposal, have been disclosed to any other firm or person who is a proposer or potential proposer, and they will not be disclosed before the proposal submission date.

3. No attempt has been made or will be made to induce any firm or person to refrain from proposing on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.

4. The proposal of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.

5. Midlantic Engineering, Inc. (Name of Firm) its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last three years been convicted or found liable for any act prohibited by state or federal law in any jurisdiction, involving conspiracy or collusion with respect to proposing and/or bidding on any public contract, except as follows:

_____

I state that Midlantic Engineering, Inc. (Name of Firm) understands and acknowledges that the above representations are material and important, and will be relied upon by the Monroe County Conservation District (MCCD) in awarding the contract(s) for which this proposal is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from the MCCD of the true facts relating to the submission of this proposal.

(Signature)

Timothy Burns, P.E.
(Signatory's Printed Name)

President
(Signatory's Title)

SWORN TO AND SUBSCRIBED BEFORE ME THIS 19th DAY OF SEPTEMBER, 2019.

Eva M. White
Notary Public

My Commission Expires

12/15/2021

Commonwealth of Pennsylvania - Notary Seal
Eva M White, Notary Public
Luzerne Co. Pittston TWP
My Commission Expires Dec. 15, 2021
Commission Number 1177920

Reilly ASSOCIATES SINCE 1930

ENGINEERING / ENVIRONMENTAL / SURVEYING

September 20, 2019

Woodland Design Associates
119 Lincoln Street
Honesdale, PA 18431
ATTN: Jayson Wood

Dear Mr. Wood,

Thank you for letting us be part of your team! Reilly Associates is pleased to join Woodland Design Associates as a subconsultant to provide surveying, H&H design and engineering support as needed for the Sand Spring Run Stream Bank Restoration Project – C990000726. We firmly believe that our expertise in these engineering disciplines intertwined with our commitment to diligence and quality that we will further the success of the Woodland Design team regarding the proposed project mentioned above.

Sincerely,

REILLY ASSOCIATES

Thomas J. Reilly, Jr., P.E.
President

REILLY ASSOCIATES

Christopher McDermott, P.E.
Branch Manager

49 South Main Street, Suite 200, Pittston, PA 18640 | 570 654 2473 | FAX 570 654 6880

A. **Respondent Information Form Statement of Bidder Qualifications**
(*RFQ, Rev 08/2019 1-8*)

Reilly Associates

1. Company name, bidder email, mail address and branch office address:

Team Lead: Woodland Design Associates, Inc.
119 Lincoln Street
Honesdale, PA 18431
(mikewood@woodlanddesign.com)

Survey and Engineering Support: Reilly Associates, Inc.
411 Main Street, Suite 102 D
Stroudsburg, PA 18360
(cmcdermott@reillyengineering.com)

Additional information attached.

Geotechnical Support: Midlantic Engineering, Inc.
120 Commerce Road
Pittston, PA 18640
(rheeder@midlanticengineering.com)

Additional information attached.

2. Type of business entity (corporation, non-for-profit, proprietorship, etc.) and Federal Tax Identification Number:

Reilly Associates Fed Tax ID #23-1978013.

3. If company is a corporation, state the date and place of incorporation and give a brief history of company's operations. Please include if your firm is affiliated with Minority, Women, Small, or Disadvantaged Business Enterprises.

Reilly Associates Pennsylvania Corporation. Provided Professional Engineering Services Since 1930.

4. List directors, officers, owners, managerial employees or partners, and identify the ownership interest of each:

Thomas J. Reilly – 100% Owner.

5. Total number of employees and total number of licensed professionals:

Reilly Associates has 58 employees with 18 licensed professions.

6. Identify locations from which services will be performed:

Reilly Associates, Inc. - Stroudsburg Branch Office
411 Main Street, Suite 102 D
Stroudsburg, PA 18360

7. Identify or attach license or certificates to perform the work in each jurisdiction where the work will take place. All work will take place in the Commonwealth of Pennsylvania.

   Reilly Associates' license information is as follows: Thomas J. Reilly, Jr., PE, PE038652E; Joseph Durkin, PE, PE039815E; Christopher McDermott, PE, PE043178E; Jerry Sitko, PLS, PE, PE043178E, SU075270.

8. Has any director, officer, owner or managerial employee had any professional license suspended or revoked? If yes, list the name of the individual, license held and disposition of the issue.

   Reilly Associates: No.

9. Has any director, officer, owner or managerial employee been convicted or the subject of criminal indictment during the past five (5) years? If yes, summarize the matter and its disposition.

   Reilly Associates: No.

10. Is the company currently involved in bankruptcy or similar proceedings? If yes, explain.

    Reilly Associates: No.

11. During the past three (3) years, has the company been found guilty of any OSHA, EPA or State environmental or safety violation(s)? If yes, describe the nature of the violation and steps taken to remediate the condition(s).

    Reilly Associates: No.

12. During the past five (5) years, has company been charged with retaliation or discrimination against any employee on the basis of race, ethnicity, national origin, disability, gender or other violation of equal employment opportunities? If yes, summarize each claim and its disposition.

    Reilly Associates: No.

13. During the past five (5) years, has company been named as a party in any action involving a claim for personal injury or wrongful death arising from performance of work on any project? If yes, summarize the claim and its disposition.

    Reilly Associates: No.

14. During the past five (5) years, has company been the subject of an investigation or proceedings before the city, state or federal Departments of Labor for any alleged violation of any wage or labor law? If yes, summarize each such instance and its disposition.

    Reilly Associates: No.

15. Has the company ever been terminated from a project by the Owner? If yes, list the projects on which the bidder was terminated, the nature of the termination (e.g., convenience, suspension, for cause), and the date of said termination.

    Reilly Associates: No.

16. List the technical and professional staff to be employed on this project; describe general and specific specialties/expertise and overall resources; provide title, role and work resume of each team member, including principals.

Reilly Associates: Thomas J. Reilly, Jr. PE, Principal in Charge; Joseph Durkin, PE, QAQC; Christopher McDermott, PE, Project Manager, Grading/Drainage/Permit Assistance; Jerry Sitko, PLS, PE Survey and H&H. See attached resumes.

17. Indicate your understanding of the scope of work involved in the project and potential problems to be addressed. Summarize how you will respond to specific phases of the work, identifying any innovative or creative design approaches or strategies that the company proposes.

Please refer to question 17 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates, as they are the project team leader for this RFQ.

18. Describe the nature and level of communications company will maintain with MCCD staff during the various project phases.

All communication will be done through Woodland Design Associates, as they are the project team lead. Please refer to question 18 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates.

19. Discuss any special or specific qualifications company has for this project.

Reilly Associates is experienced with all of the Hydrologic and Hydraulic models required for stream analysis. Reilly Associates has performed H&H studies for bridges and culverts throughout northeastern PA. Our experience with computer models and techniques includes HEC_HMS, HEC-RAS, HEC-1, HEC-2, TR-55, EPA-SWWM, WaterCAD, StormCAD, PondPack, PSRM, Rational Method, CulvertMaster, FlowMaster. Reilly Associates has also successfully prepared hundreds of plans and permit applications for Soil Erosion and Sediment Pollution Control Plans, Joint Permit applications, NPDES and General Permits for private and public clients across the Commonwealth.

As Woodland Design is the team leader, please refer to question 19 on the "Respondent Information Form Statement of Bidder Qualifications" they have provided for information on our team's approach.

20. Describe how company will ensure Project performance, quality and consistency through adequate management, supervision and control techniques.

Reilly Associates will use its internal quality control procedures to gather data and provide the reports requested. Please refer to question 20 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates, as they are the project team leader for this RFQ, and will provide additional review and organization for the project.

21. Describe company's system of monitoring and oversight to ensure maintenance of complete and accurate work, payroll and invoicing records.

Please refer to question 21 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates, as they are the project team leader for this RFQ.

22. Does company have any projects ongoing at the time of the submission of this bid? If yes, list the projects on which the bidder is currently working, the percentage now complete and the expected dates of completion.

Reilly Associates' Stroudsburg office staff are currently in the final stages of several land development projects (90% complete) and in the early stages of 3 land development projects (25% complete). Municipal work is also on-going. We do not expect that our effort on this project, as indicated in our hours estimate, will be impacted by our current work load. Estimated completion dates varies.

Currently we are working on the following three major projects:

Olyphant Borough – Warehouse Project – Land Development Plan, E&S, NPDES, GPs. Work product is 25% complete. Expected completion in December of 2020. Reference: Mr. Shawn Langen - (610) 216-9500.

Blue Ridge Real Estate – 1,000,000 SF Warehouse Project Land Development Plan, E&S, NPDES, Joint Permit, HOP, Traffic Study. Work product is 70% complete. Expected completion in July of 2020. Reference: Mr. Tom Allman - (215) 356-3542.

New Ventures Park – Lot 100 and Lot 110 Warehouse Land Developments, E&S, NPDES, HOP, Highway improvements, Traffic Studies. Work products are 95% complete. Expected completion in December of 2019. Reference: Mr. Mark Sincavage - (570) 650-7996 and Mr. Tom Allman - (215) 356-3542.

23. Attach company's most current certified financial statement or, if a certified statement has not been issued within the past 12 months, the company's latest internal financial statement.
Reilly Associates has been providing engineering consulting services since 1930, and has currently been authorized to bid and work on numerous state-funded projects for PENNDOT, DCNR, DCED, County, and Local government projects. If chosen, Confidential Financial Statements can be provided upon request.

By: _____
(Signature)

Joseph J Durkin
Vice President Reilly Associates
(Print Name, Title, and Company)

Commonwealth of Pennsylvania
County of Luzerne

Dated:

Sworn to before me this 20th **day of** September**, 20**19.

Karen A Coco
Commonwealth of Pennsylvania
Notary Public

Commonwealth of Pennsylvania - Notary Seal
Karen A. Coco, Notary Public
Luzerne County
My commission expires June 11, 2023
Commission number 1352378
Member, Pennsylvania Association of Notaries

Qualifications

Thomas J. Reilly, Jr., P.E.
Principal Engineer

Experience: 30 years

Education: B.S.C.E. Cornell University,
M.B.A. Columbia University

Registrations: Professional Engineer, Pennsylvania & New York;
License Nos.: PA-PE038652-E, NY 084263

Mr. Reilly has over thirty years of experience in the management and design of a broad range of flood protection, structural, and transportation projects. His recent experience includes management of several complex multi-million-dollar projects with coordination with government agencies, utilities and technical specialists. Mr. Reilly has extensive experience utilizing Army Corp, DEP and Department of Transportation procedures and design standards. Relevant projects include the following:

Flood Control and Sewer Separation Project, City of Pittston, PA – Principal Engineer for the project included master planning and design for the construction of a new 6 ft x 7 ft reinforced concrete box culvert to convey the Broad Street Creek approximately 2,500 feet through Pittston City's main business district to the Susquehanna River. The project extended Reilly Associates' successful repair and replacement work on the same creek culvert under FEMA PWs for emergency repairs and replacement of the City's aged stormwater culvert. This project evaluated the existing combined sewer system in the City of Pittston and developed a plan that eliminated the discharge of untreated combined sewage overflows and optimized the use of existing collection systems in a feasible and environmentally acceptable manner. The storm sewer system is comprised of approximately 10,000 feet of 18 inch to 48-inch diameter storm lines and 120 inlets. The sanitary sewer system is approximately 11,500 lineal feet of 8 inch through 15-inch diameter of new sanitary mains and 54 manholes. The project required application for Joint Application for Water Obstruction and Encroachment Permit & US Army Corps of Engineers Section 404 Permit, Categorical Exclusion, PennDOT Highway Occupancy Permits, and Railroad License Agreements. In addition to project management and design services, Reilly Associates provided surveying, prepared easements, coordinated with PennDOT and the railroad, and provided construction inspection and contract administration.

Flood Control and Stormwater Management Project, West Pittston, PA - Principal Engineer for the design of approximately one-third of West Pittston Borough from localized flooding. A 60-inch diameter stormwater culvert up to thirty feet deep was designed to convey stormwater from the center of the borough's 3,000 feet to the Susquehanna River, providing relief from flooding problems which damaged residential properties for decades. In addition, the existing 100-year-old combined sewer system consisting of clay pipes and brick manholes was replaced, and a separate sanitary sewer system was constructed. Approximately 6,700 feet of collection storm sewers ranging in size from 12-inch to 36-inch diameter were installed with new inlets throughout the drainage basin to collect and convey stormwater into the main culvert. Approximately 16,000 lineal feet of sanitary sewage mains were constructed. New sanitary sewer laterals were installed in the streets, and new watertight sanitary manholes were constructed. The project also included boring of the ***60-inch culvert under US Route 11***, as well as other storm and utility borings beneath railroads and highways.

Luzerne County Bridges, Hillside Road and Main Street, PA - Principal Engineer for replacement of 2 bridges including Hillside Bridge over Huntsville Creek, which is a replacement of a two-span structure with a single 60 ft. span prestressed concrete adjacent box beam bridge in a historic district and Main Street Bridge over Toby Creek, which is a bridge replacement with 40 ft. span spread box beam bridge.

S.R. 0924 Sec. 301 and 305 - Principal Engineer for the studies, preliminary and final design of 4.5 miles of roadway widening with an estimated cost of $24.5 million. Work included an advanced final right-of-way plan with extensive property involvement, revision of plans to accommodate new NPDES stormwater requirements without increases in right-of-way involvement, coordination of traffic studies, driveway issues, and utility relocations.

Qualifications

Joseph S. Durkin, P.E.

QAQC

Mr. Durkin is an experienced project manager who has completed numerous flood control and storm water management projects. Mr. Durkin has prepared numerous Hydrologic and Hydraulic Studies, stormwater reports and designed intersection and highway improvements. Mr. Durkin is also an experienced financial analyst. He has performed Value Engineering analysis on a number of projects.

Experience: 34 years

Education: B.S. Princeton University, M.B.A. University of Chicago

Registrations: Professional Engineer, Pennsylvania; License No.: PE039815E

Stormwater and Flood Control Project, City of Scranton, PA – Project Manager for the $8 million project involved the design of new stormwater pipes, concrete box culverts, concrete channels, stormwater detention basins and debris basins as well as the evaluation and rehabilitation of the existing stormwater conveyance systems. The work was designed in utility-congested urban roadways, in the backyards of homes and alongside operating commercial facilities.

Earth Conservancy, Bliss Bank Area, Espy Run Stream Restoration Project Mine Scar Mitigation, Nanticoke, PA – Project Manager for project involving construction of a segment of Espy Run to its historic alignment, including associated E&S facilities, and wetland mitigation and restoration on a portion of land located in the City of Nanticoke, Luzerne County, Pennsylvania. The project will reduce some of the mine drainage runoff that currently contaminates the existing storm water system and local streams and creeks and will address sediment pollution and associated issues from historic mine activities. The project is located within the Bliss Bank Area, the area through which Espy Run originally flowed. A Joint Permit was obtained from the Army Corps of Engineers and the first phase of the project has been completed.

PADEP/Army Corps of Engineers Joint Permit, City of Pittston, PA - Principal Manager for the preparation of plans and supplemental information for Stream and Waterway Encroachment for the repair and partial replacement of Laurel Run Creek including a Hydraulic and Hydrologic (H&H) Report and StormCAD modeling and analysis. The Creek runs underground through the downtown portion of The City of Pittston, including a railroad crossing and permanent discharge to the Susquehanna River.

Hydrology and Hydraulic (H&H) Report, Toby Creek, in Kingston Township, Luzerne County, PA – South Main Street Bridge replacement project work included preparation of HEC-RAS models for duplicate HEC-2 model, existing and proposed conditions. Analyzed impacts on stream velocities and adjacent floodways. Prepared alternatives analysis.

Hydrology and Hydraulic (H&H) Report for on Huntsville Creek, in Kingston Township, Luzerne County, PA – Project Manager for Hillside Road Bridge replacement project. Responsible for calculated and compared hydrologic design flows from three design methodologies, Regional Regression Analysis from PennDOT's Design Manual – 2, FEMA Flood Insurance Study (FIS) and the Toby Creek Act 167 Stormwater Management Plan's peak discharges. Prepared HEC-2 duplicate models in HEC-RAS of the FIS hydraulic analyses. Prepared HEC-RAS models for the existing and proposed conditions including alternatives.

Christopher McDermott, P.E.

Project Manager/Branch Manager

Qualifications

Experience: 32 years

Education: B.S. Pennsylvania State University

Registrations: Professional Engineer, Pennsylvania; License No.: PE043178E

Mr. McDermott is the Senior Project Manager and Branch Manager for the firm's Stroudsburg office. He is responsible for providing municipal clients with a variety of services including subdivision land development plan review; general consulting for road, water, and sewage facility projects; and resident representative services during construction projects. Mr. McDermott also serves private clients by providing services such as the development of subdivision and land development plans, as well as site engineering for commercial and residential projects. Mr. McDermott administers all functions of the Stroudsburg office, including hiring and assigning personnel, overseeing proposal and contract preparation, overseeing quality control and client relations, and marketing functions.

New Ventures Park, Tobyhanna Township, Monroe County, PA – Reilly Associates provided professional land development and related services for a 207-acre (1.3 Million SF building) and a 66-acre (600,000 SF) building industrial sites, grading, stormwater management, and E&S in special protection watershed with three stream crossing individual permits, wetlands, mitigation, NPDES permit and Act 167 stormwater approval with Township, County and PA DEP review/approval. Including a Joint permit to permit a wetland crossing over 1,500 feet long, and two arch culvert crossings of stream and wetlands affect 0.9-acres of regulated wetland. Designed and obtained permit for the required wetland mitigation area on adjacent land. Permitting was through PA DEP and The Army Corps of Engineers. Reference: Mr. Mark Sincavage (570) 650-7996.

Side Corporation New Ventures Park, Lot 100 and Lot 110 (SR 115 at I-80), Blakeslee, Monroe County, PA – Mr. McDermott coordinated with PennDOT District 5 Traffic Engineer and Permit Unit and municipal officials to resolve alignment and configuration of upgrade of intersection for Industrial Park entrance. Traffic Impact Study and HOP plan were prepared and approved by PennDOT. Site design for two warehouse buildings was conducted. Site design included site planning, grading, stormwater controls, site lighting, signalized entrance driveway onto state road, and utility connections. Prepared all municipal and state approval plan applications for land development approval, PennDOT highway occupancy and signal permits, local erosion and sediment pollution control, and post-construction stormwater management and NPDES permits. Reference: Mr. Mark Sincavage (570) 650-7996 and Mr. Tom Allman (215) 356-3542.

Warehouse Facility, Olyphant Borough, Lackawanna County, PA – Mr. McDermott is currently preparing site design for a 1,000,000 SF warehouse building. Site design includes site planning, grading, stormwater controls, site lighting, and utility connections. He is responsible for preparing all municipal and state approval plan applications for land development approval, local erosion and sediment pollution control, and post-construction stormwater management and NPDES permits. Reference: Mr. Shawn Langen - (610) 216-9500.

Qualifications

Jerry Sitko, P.L.S., P.E.
Project Manager/Civil

Mr. Sitko is a Project Engineer responsible for all aspects of design associated with the preparation of site feasibility studies, utility design, subdivision, land development, H&H analysis, post construction stormwater, and erosion and sediment pollution control plans. Mr. Sitko's experience includes site layout, grading, drainage, utility and erosion control plans and calculations for utilities, industrial, commercial and residential projects. Tasks required to successfully carry out these duties include translation of client programming goals and objectives into proposed improvements of physical features on the land, while complying with complex regulatory regulations and requirements.

Experience: 13 years; 11 years with Reilly Associates

Education: B.S. Pennsylvania State University

Registrations: Professional Engineer, Pennsylvania (PE085287); Professional Land Surveyor, Pennsylvania, (SU075270)

Stroud Township Brodhead Creek H&H and Stream Stabilization Project, PA – Mr. Sitko developed a design solution to stabilize an eroding streambank along the Broadhead Creek that contained sheer 10' side slopes as a result of a flood event. An H&H model of the Brodhead Creek was developed and a design solution for slope stabilization was prepared. Project submitted to the Army Corps of Engineers. Project pending acceptance and funding. Reference – Mr. Ed Cramer, Supervisor 570- 994-0444.

Snydersville Development Group, LLC, Hamilton Commons, PA - This project proposes a commercial development in Hamilton Township, Monroe County consisting of 6 retail buildings totaling 135,860 square feet. Mr. Sitko's responsibilities included the design of stormwater management and sediment pollution control facilities to obtain an Individual NPDES Permit for the project. Mr. Sitko also prepared and H&H analysis for the preparation of a CLOMAR submission to FEMA. Reference: Dan Henning - (570) 421-3021.

Bloomsburg University Waller Building, Bloomsburg, PA – Mr. Sitko is the civil project manager and lead design engineer for the new Waller Building at the corner of East 2nd St and Chestnut St. Mr. Sitko coordinated with university personnel, the project architect, and approval agencies to develop a site design that incorporated the requirements of the university including sidewalk/plaza configuration, bus lane and drop off, truck loading/unloading driveway, and parking. The approvals obtained for the project include FAA, zoning variance, land development, NPDES permit, sewage authority, and DGS approval. Reference: Mr. Ed Gunshore - 570-389-4944.

Fairfield Crossing, Montoursville, PA - Mr. Sitko prepared the subdivision and land development plans for a 10-acre, mixed use development in Montoursville. His responsibilities included the layout, grading, and complex stormwater management systems that included a pervious paver system, subsurface infiltration and detention systems, raingardens and surface stormwater basin. He prepared all permit documents, calculations and applications for PA DEP approval of the earth disturbance permits, coordinated the stormwater design with the adjacent highway design plans and continues to support the project in obtaining funding and final permit documents. Reference: Mr. Gene Bushyeager 570-505-2434.

MIDLANTIC ENGINEERING

PROJECT MEMORANDUM

September 20, 2019

Woodland Design Associates, Inc.
119 Lincoln Street
Honesdale, PA 18431

ATTENTION: Mr. Mike Wood
mikewood@woodlanddesign.com

SUBJECT: Request for Qualifications for Professional Services
Sand Spring Run Stream Bank Restoration - Project – C990000726
PA Game Lands 38
Jackson and Pocono Township, Monroe County, PA

Mr. Wood:

In response to your request please find enclosed the Respondent Information Form, Non-Collusion Affidavit and resumes of our team.

We recently completed two geotechnical projects similar in scope to the referenced project.

1. Forest Lake Club Dam Improvements
   Rowland, Pike County, PA
   Prepared for: Tompkins Engineering, LLC
   Mr. Nate Tompkins, P.E.
   email: nate@tompkinsengineering.com
   570-237-5709
   Contract Amount $14,500.00

2. Cadjaw Pond Dam Improvements
   Texas and Cherry Township, Wayne County, PA
   Prepared for: Lake Cadjaw Watershed Association
   Mr. Tom Tallman - President
   email: tctallman@yahoo.com
   570-840-5032
   Contract Amount $16,810.00

Based on the Scope of Work and our conversations, we recommend a minimum allowance of $6,000 for a basic surficial field investigation, laboratory testing and report. If a geotechnical investigation which includes test borings is considered necessary, significant additional costs will be incurred.

Thank you for the opportunity to be part of your test. If you have any questions or comments, please don't hesitate to call us.

Sincerely,

MIDLANTIC ENGINEERING, INC.

Timothy Burns, P.E.
President

A. **Respondent Information Form Statement of Bidder Qualifications** (*RFQ, Rev 08/2019 1-8*)

Midlantic Engineering, Inc.*

1. Company name, bidder email, mail address and branch office address:

Team Lead: Woodland Design Associates, Inc.
119 Lincoln St.
Honesdale, PA 18431
(mikewood@woodlanddesign.com)

Survey and Engineering Support : Riley Associates, Inc.
PO Box 667
Stroudsburg, PA 18360
(cmcdermott@reillyengineering.com)

Additional information attached.

Geotechnical Support: Midlantic Engineering, Inc.
120 Commerce Rd.
Pittston, PA 18640
(midlaneng@aol.com)

Additional information attached.

2. Type of business entity (corporation, non-for-profit, proprietorship, etc.) and Federal Tax Identification Number:

S-Corporation
Federal Tax ID # 25-1537577

3. If company is a corporation, state the date and place of incorporation and give a brief history of company's operations. Please include if your firm is affiliated with Minority, Women, Small, or Disadvantaged Business Enterprises.

Midlantic Engineering Inc is a PA. 1987 Small Business

Midlantic Engineering, Inc. is a small business firm located in Pittston Township, Pennsylvania that specializes in construction inspection and documentation, materials testing services, and geotechnical engineering design.

Our staff members are experienced in all aspects of construction inspection and laboratory testing. They have received technical certifications from a wide range of organizations including the National Institute for Certification in Engineering Technologies (NICET), the American Concrete Institute (ACI), the Pennsylvania Department of Transportation (PennDOT), and the Office of Surface Mining (OSM). The technical staff is attentive to the specific demands and challenges of each construction project. Through meeting these demands, we have built a strong track record of service on both public and private projects.

Midlantic Engineering, Inc. is staffed and equipped in accordance with ASTM E-329 and is approved for laboratory testing services by the U.S. Army Corps of Engineers, the U.S. Department of Agriculture, the General Services Administration, and the Pennsylvania Department of Transportation. We have provided construction phase engineering services to Lackawanna County, Luzerne County, the Department of the Interior's Office of Surface Mining, the Pennsylvania Department of Transportation, and the National Park Service.

4. List directors, officers, owners, managerial employees or partners, and identify the ownership interest of each:

   Timothy Burns, P.E.
   President/Owner

5. Total number of employees and total number of licensed professionals:

   Total Employees: 37 – 4 licensed professional engineers
   Professional/Construction Services:20
   Administrative: 4
   Project Specialists –PennDOT HOP Inspectors: 13

6. Identify locations from which services will be performed:

   120 Commerce Road
   Pittston Township, PA 18640

7. Identify or attach license or certificates to perform the work in each jurisdiction where the work will take place.

   Timothy Burns, P.E. – PA – PE 042338R
   Richard Heater, P.E. – PA – PE 050602-E
   Daniel Hartigan, P.E. – PA – PE 074891

8. Has any director, officer, owner or managerial employee had any professional license suspended or revoked? If yes, list the name of the individual, license held and disposition of the issue.

   No

9. Has any director, officer, owner or managerial employee been convicted or the subject of criminal indictment during the past five (5) years? If yes, summarize the matter and its disposition.

   No

10. Is the company currently involved in bankruptcy or similar proceedings? If yes, explain.

    No.

11. During the past three (3) years, has the company been found guilty of any OSHA, EPA or State environmental or safety violation(s)? If yes, describe the nature of the violation and steps taken to remediate the condition(s).

    No.

12. During the past five (5) years, has company been charged with realiation or discrimination against any employee on the basis of race, ethnicity, national origin, disability, gender or other violation of equal employment opportunities? If yes, summarize each claim and its disposition.

    No.

13. During the past five (5) years, has company been named as a party in any action involving a claim for personal injury or wrongful death arising from performance of work on any project? If yes, summarize the claim and its disposition.

    No.

14. During the past five (5) years, has company been the subject of an investigation or proceedings before the city, state or federal Departments of Labor for any alleged violation of any wage or labor law? If yes, summarize each such instance and its disposition.

    No.

15. Has the company ever been terminated from a project by the Owner? If yes, list the projects on which the bidder was terminated, the nature of the termination (e.g., convenience, suspension, for cause), and the date of said termination.

    No.

16. List the technical and professional staff to be employed on this project; describe general and specific specialties/expertise and overall resources; provide title, role and work resume of each team member, including principals.

    Timothy Burns, P.E. – Geotechnical engineering
    Richard Heater, P.E. – Construction Services, Field Investigation
    Daniel Hartigan, P.E. – Field Services
    Mari Jo Thomas – Laboratory Testing Services - Soils

17. Indicate your understanding of the scope of work involved in the project and potential problems to be addressed. Summarize how you will respond to specific phases of the work, identifying any innovative or creative design approaches or strategies that the company proposes.

    Please refer to question 17 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates, as they are the project team leader for this RFQ.

18. Describe the nature and level of communications company will maintain with MCCD staff during the various project phases.

    All communication will be done through Woodland Design Associates, as they are the project team lead. Please refer to question 18 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates.

19. Discuss any special or specific qualifications company has for this project.

    Midlantic Engineering Inc. has unique experience providing Geotechnical and Slope Analysis for Engineers and project teams in Northeast Pennsylvania. As Woodland Design is the team leader, please refer to question 19 on the "Respondent Information Form Statement of Bidder Qualifications" they have provided provided for information on our teams approach.

20. Describe how company will ensure Project performance, quality and consistency through adequate management, supervision and control techniques.

Midlantic Engineering Inc., will use its internal quality control procedures to gather data and provide the reports requested. Please refer to question 20 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates, as they are the project team leader for this RFQ, and will provide additional review and organization for the project.

21. Describe company's system of monitoring and oversight to ensure maintenance of complete and accurate work, payroll and invoicing records.

Please refer to question 21 on the "Respondent Information Form Statement of Bidder Qualifications" provided by Woodland Design Associates, as they are the project team leader for this RFQ.

22. Does company have any projects ongoing at the time of the submission of this bid? If yes, list the projects on which the bidder is currently working, the percentage now complete and the expected dates of completion.

Midlantic currently has about 6 design projects ongoing. If given the opportunity, we can absolutely accommodate the timeline outlined in the RFQ. With a 30 year history, we have never had any issues achieving work in a timely manner which satisfied our clients design and construction schedules.

Currently we are working on the following three projects:

1. IBS Industrial Park, Phase I, Olyphant, PA: 10% - October 31 2019
2. Buck Hill Falls Roadway, Buck Hill Falls, PA: 95% - October 15, 2019
3. State Police Barracks, Hanover , PA: 5% - November 15, 2019

23: Attach company's most current certified financial statement or, if a certified statement has not been issued within the past 12 months, the company's latest internal financial statement.

Not available

By: _____
(Signature)

Timothy Burns, President, Midlantic Engineering, Inc.
(Print Name, Title, and Company)

Dated:

Sworn to before me this 19th **day of** SEPT **,20**19**.**

_____
Notary Public

Commonwealth of Pennsylvania - Notary Seal
Eva M White, Notary Public
Luzerne Co. Pittston TWP
My Commission Expires Dec. 15, 2021
Commission Number 1177920

MIDLANTIC ENGINEERING, INC.
ORGANIZATIONAL CHART

ASTM D-3740 Sec. 9.1.1.3 and Sec. 0.1.2.1
Current Revision Date: September 15, 2019
Next Scheduled Revision Date: January 1, 2020

President
T. Burns, P.E.
Geotech. Engineer

Office Manager
E. White

Business Consultants
- Finance Mgr. S. Roba
- Baker Tilly J. Nealon
- FNCB J. Moffit
- Legal R.Reed, Esq.

Admin. Assistants
C. Duffy
L. Anson
L. Javick

Technical Assistant
J. Burns

Project Specialist Staff
C. Taddonio, P.E.
T. Barber
S. Micciche
G. Timlin
R. Degnan
G. Kratz
J. Pisa
D. Swirdovich (p.t.)
N. Nice
B. Niemkiewicz
T. Rubino
C. Tracy
L. Puchalski (2020)

JBC Associates
R. Mascaro
D. Aston

Supervising Engineer
R. Heater, P.E.
Civil Engineer

Project Management Staff Construction Services
D. Hartigan, P.E.
D. Thomas (p.t.)
K. Konicki

Engineering Technician Staff
T. Stang*
D. Stuart*- P
H. Strom*
J. May*
F. DeAngelis*
K. Pizzano*
J. Leoszewski*
S. Phillips*
R. Devine
P. Clifford
A. Potavin

Geotechnical Engineering Technician Staff
J. Gunning*- P
W. Bradley*- P

Director Lab Services
M.J. Thomas

Summer Interns
K. Chesniak

* Sr. Engineering Technician
P = PennDOT approved H.O.P.

MIDLANTIC ENGINEERING INC.
120 Commerce Road • Pittston Twp., PA 18640-9552
570/655-2200 (phone) • 570/655-2212 (fax)

BIOGRAPHICAL SKETCH OF SUPERVISORY AND TECHNICAL STAFF
ASTM D-3740, Section 9.1.2.3
Current Revision Date:09/12/19
Previous Revision Date: 04/03/19
Next Scheduled Revision Date:12/30/19

Employee	Yrs. Exp./ Category	Stat.	Prof. Eng.	4-yr Degree	2-yr Degree	NICET (exp.)	NECEPT (asphalt)	PennDOT Concrete	ACI Level 1	NRC Nuclear Gauge	OSM Insp.	PennDOT TA-TCI Safety Cer.	Remarks
Gunning. John	31/d.	F				II Const. Materials 106999 01-01-21	Field-2681 01-13-22	2681 01-04-23	00978086 10-06-21	16220 02-07-22	√	√ 04/15	Geosynthetics/ Inst. /QC/QA
Stang, Todd -	18/d.	F			AA Survey Tech/CE		Field-5271 04-08-21	5271 03-28-22	00116582 12-15-21 / Lab-Str. 03-07-24	1264 02-07-22		√ 04/15	CDS NeXtGen #8EZM5S
Strom, Howard	18/d.	F			AA Comm. Art		Field-5270 04-08-21	5270 03-28-22	118762 02-14-24	1263 02-07-22		√ 04/15	Geosynthetics/ Inst. /QC/QA / CDS NeXtGen #8E6K76
Pizzano, Kevin	10/d.	F			AA Science		6362 03-13-20	6362 01-11-23	1057594 10-06-21	16885 02-07-22		√ 07/15	
Bradley, William-	6/d.	F					556693 01-13-22	556693 01-11-23	01208804 02-11-21	02-07-22		√ 03/16	Amer. Safety & Health-CPR Pro
Stuart, E. Dean	16/d.	F					Field-4291 01-26-23	4291 01-11-23	0086118 12-15-21	095633 02-07-22		√ 04/15	Geosynthetics Inst. /QC/QA
Leoszewski, Jacob	5/d.	F						557279 04-30-24	01224783 09-18-23	02-07-22			
DeAngelis, Frank-	11/d.	F		BA-Env. Studies			Field-7604 04-30-24	7604 04-30-24	01067313 09-28-22	02-07-22		√ 04/15	
Phillips, Shawn	1/d.	F						559833 03-28-22	01362407 05-10-21	02-07-22			
Tracy, Christopher	20/d.	F				088108 11-01-02	3898 04-08-21	3898 04-14-21	01356013 02-11-21	02-07-22		√ 12/15	
Devine, Ryan-		F						561829 04-30-24	01630230 09-18-23	02-07-22			
May, Joseph	31/d.	P			BA Biomedical		Field- 8223 01-13-22	8223 04-30-24	00931538 12-13-23	02-07-22			
Clifford, Patrick													
Konicki, Kris													
Chesniak, Kim													
Potavin, Amy													
Thomas, Delbert	40/a	F		BS-Geo		III Hwy Con.-73368 11/01/17		51896 03-24-20	00039415 04-09-19	9689 02-07-22		√ 05/15	
Thomas, Mari Jo	18/c.	F		BS Earth Env. Sci		II Constr. Materials 100924 08-01-21			1047233 04-17-22 Lab	02-07/22	√		OSHA Hazwoper 02/10/15
White, Eva	14/	F								RS0 02-07-22			
Heater, Richard	35/a.	F	PA PE050602-E	BS-Engr						067158 02-07-22	√	√ 03/15	
Burns, Timothy	32/a.	F	PA PE042338R	BS-Engr						RS0 02-07-22	√		
Hartigan, Dan	12/b.	F	PA PE074891	BS-Engr					expired	02-07-22			

Category:
a. Persons Charged with direct Engineering Managerial Responsibility
b. Geotechnical Investigations and Inspection

Category:
c. Supervising Lab Technician
d. Field Technicians

Notes: * scheduled re-test

Timothy Burns, P.E.

President/Geotechnical Engineer

Primary Responsibilities:

Mr. Burns has extensive experience in earthwork and foundation design, geotechnical investigations, mine subsidence abatement, and environmental site assessments. He has a thorough understanding of engineering design and construction aspects of building foundation systems, stormwater management systems, earth retention systems, and pavement designs. He has extensive field experience in instrumentation and monitoring of geotechnical construction.

As the senior geotechnical engineer at Midlantic Engineering, his responsibilities include the organization of geotechnical engineering design and assessment programs, environmental study programs, preparation of engineering reports, and supervision of construction phase engineering services. He is responsible for the quality control of all geotechnical investigation and analyses services.

He has analysis and design expertise in driven pile foundation systems, drilled piers, earth retention systems, site dewatering, ground modification programs including injection and compaction grouting, and construction inspection and documentation of these programs. He also has experience with management of special in-situ geotechnical testing techniques, unique access investigation programs, and site history research.

Years Experience:

With This Firm: 28 With Other Firms: 7

Education:

1984 BSCE Civil Engineering
Lehigh University – Bethlehem, PA

1989 Geotechnical Engineering Studies
George Washington University
Washington, D.C.

Active Registrations:

1990 Professional Engineer – Maryland
1991 Professional Engineer – Pennsylvania
License No. PE042338R exp. 09/30/19

Professional Affiliations:

American Society of Civil Engineers

Publications & Presentations:

1991 "Slurry Wall Performance Adjacent to Historic Church." International Symposium on Slurry Walls, ASTM, Atlantic City, NJ

1989 "Skin Friction of Caissons in Residual Soils." Presented to the ASCE Foundation Engineering Congress, Chicago, IL. Selected for the Excellence in Paper Presentation Award from over 100 submissions

Specialized Project Experience:

- Geologic mapping and geotechnical engineering studies for the *800-acre CenterPoint Commerce and Trade Park, and the 225-acre CenterPoint East Trade Park; in Jenkins and Pittston Townships, PA.* Geotechnical investigations involve phased studies of strip mined and subsurface mined areas to develop abatement and reclamation programs and geotechnical design of the industrial development sites. (2006-2018)

- Geologic mapping and geotechnical engineering design, and construction phase geotechnical engineering support for site developments of the *Valley View Business Park in Jessup and Archbald, PA.* The infrastructure supports over forty industrial and business building sites. (2008-2011)

- Geotechnical investigations, analyses, and report preparations for the *Lot 22B Industrial/Warehouse Complex in the Crestwood Industrial Park, Wright Township, PA.* Analyses included foundation design and earthwork recommendations, slope analyses, pavement design review, and applicable geotechnical design parameters for development of the 60-acre site. (2018)

Specialized Project Experience (continued):

- Geotechnical investigations and report preparations for the multi-story *Northampton Street Hotel facility in Wilkes-Barre, PA.* Analyses included the full geotechnical investigation and testing program, consultation for foundation designs, excavation and geotechnical construction planning for the hotel complex. (2016)

- Geotechnical investigations and report preparations for multi-story additions to *Children's Services Center of Wyoming Valley, Wilkes-Barre, PA.* Analyses included foundation design recommendations, laboratory testing and analyses, seismic classification conditions, subsurface cross-section and report preparations. (2015)

- Geotechnical investigations, mining studies, and summary report preparations for site development planning of *Lots #15 – #18, Hanover Crossing Business Park, Luzerne County, PA.* The analysis and geotechnical evaluation of strip mine areas, rock excavation, and fill areas were prepared to develop site alignment and grading plans. (2012)

- Mining studies, geotechnical investigations and report preparations for the *Medallion Parking Garage complex in Scranton, PA.* Analyses included evaluation of foundation alternatives, developing underpinning and shoring design parameters, and construction considerations for a six-story parking garage in downtown area. Continued services included all construction phase inspection and documentation of the development. (2004-2005)

- Geotechnical engineering studies, mining studies, and geotechnical engineering report preparations for *Geisinger Health System Medical Office Building, Mt. Pocono, PA.* (2002)

- Geotechnical investigations, mining studies, and summary report preparations for *Target Development Site, Dickson City, PA.* The analyses and geotechnical design report address previous strip mine and fill areas within the building development site, foundation design, and grading recommendations. (2001)

- Geotechnical engineering studies, mining studies, and geotechnical engineering report preparations for *Community Medical Center Building Additions & Parking Structure, Scranton, PA.* Analyses included all design and construction alternatives for shallow spread footing and drilled piers (caissons) for specific addition areas within the complex. (2000)

- Geotechnical engineering studies, mining studies, and geotechnical engineering report preparations for *College Misericordia Mary Kintz Bevevino Library, Dallas, PA.* (1997)

- Geotechnical engineering studies, mining studies, and geotechnical engineering report preparations for the *Lackawanna County Prison Upgrades & Additions, Scranton, PA.* (1995)

- Subsurface investigation monitoring, geotechnical engineering studies and report preparation for the *U.S. Embassy and Consulate building additions, Kinshasa and Lumbumbashi, Zaire.* (1989)

- Research and data accumulation of dynamic cone penetrometer testing (DCP) for determination of in-situ soil strength parameters and application to foundation design.

- Special expertise with geotechnical investigations and geological data accumulation for outer-regional and foreign site studies.

Richard W. Heater, P.E.

Project Manager

Primary Responsibilities:

Mr. Heater has provided design studies, construction inspection, and documentation services on transportation and site development construction projects. He has been directly responsible as a project manager for design of roadway rehabilitation projects, sanitary sewer extensions, stormwater management, erosion control systems, and traffic control programs in accordance with PennDOT specifications.

Mr. Heater also serves as project engineer, managing the inspection and documentation of site development, building, and infrastructure construction projects. He has extensive experience and training in addressing construction-related problems with concrete and asphalt placement.

Mr. Heater manages the company's construction phase services including supervision and training of engineering technicians, review of field and laboratory testing and preparation of reports.

Years Experience:

With This Firm: 27 With Other Firms: 13

Education:

1979 BSCE Civil Engineering
Rutgers University – New Brunswick, NJ

Active Registrations:

1996 Professional Engineer – Pennsylvania
License No. PE-050602-E exp. 09/30/19

Certifications:

1992 NRC – Nuclear Gauge Operator

Specialized Project Experience:

§ **2016-2017 – Moxie Freedom Generation Facility – Salem Township, PA**
Project geotechnical quality control manager for construction pad development of 40-acre generator plant site. Responsible for scheduling full inspection and testing staff, coordination of all results and reporting, and client meetings.

§ **2010 - 2011 – Roamingwood Lake Dam – Lake Ariel, PA**
Responsible for supervising the quality control services for the Roamingwood Lake Dam including supervision of the assigned engineering technicians, review of QC testing of aggregates, RCC compaction, RCC compressive strength testing, and review and preparation of summary reports. Roamingwood Lake Dam included 12,000 cy of roller compacted concrete and conventional cast in-place concrete.

§ **2009 - 2010 – Toby Creek Spillway, Luzerne County, PA**
Supervised the quality control services for 4,000 cy RCC spillway for the Wyoming Levee Raising Project. This was a US Army Corps of Engineers project. Responsibilities included supervision of the quality control technicians assigned to the project, review of QC testing of aggregates and roller compacted concrete, Uniformity testing, and review and preparation of summary reports.

§ **2006 – Hampton Inn – South Waverly Borough, PA**
Prepared land development plans, stormwater management plans, NPDES permit, erosion and sediment pollution control plans, and a low volume driveway highway occupancy permit for a new 4-story hotel on a 5.1-acre site in Bradford County. Stormwater management system design included an underground detention/infiltration system, which connected to an existing stormwater system in the PennDOT right-of-way that required approval from PennDOT District 3-0.

Specialized Project Experience (continued):

§ **2004 – Perkins Restaurant and Bakery – Hemlock Township, PA**
Prepared land development plans, stormwater management plans, erosion and sediment pollution control plans for a new 6,200 ft^2 restaurant on a 1.0-acre lot in Columbia County. Stormwater planning included a 5.1-acre watershed. The stormwater management system design included an above ground detention basin, which connected to an existing stormwater system in the PennDOT right-of-way that required approval from District 3-0.

§ **2004 – Green Ridge Health Care Center – Scranton, PA**
Prepared land development plans, stormwater management plans, erosion and sediment pollution control plans, NPDES permit for a new 29,500 ft^2 health care facility on a 4.0-acre parcel in Lackawanna County. Stormwater planning included a 5.7-acre watershed. The stormwater management system design included an underground detention/infiltration system.

§ **2004 – Scranton Health Care Center – Scranton, PA**
Prepared land development plans, stormwater management plans, erosion and sediment pollution control plans, NPDES permit for a new 23,000 ft^2 health care facility on a 6.7-acre parcel in Lackawanna County. Stormwater planning included a 5.8-acre watershed. The stormwater management system design included an underground detention/infiltration system.

§ **2003 – Car Wash and Access Road – Hemlock Township, PA**
Prepared land development plans, stormwater management plans, erosion and sediment pollution control plans, NPDES permit and a low volume driveway highway occupancy permit for a new 5,000 ft^2 car wash on a 1-acre lot in Columbia County. Stormwater planning included a 3.0-acre watershed. Stormwater management system design involved re-grading and landscaping the site to reduce post-development runoff to less than pre-development. The stormwater system was connected to an existing stormwater system in the PennDOT right-of-way and required approval from PennDOT District 3-0.

§ **2002 – 400-meter Track – Lehighton, PA**
Prepared a stormwater management plan, erosion and sediment control plan and a NPDES permit for a new running track and athletic fields for the Lehighton Area School District in Carbon County. The watershed included 12.3 acres. Stormwater management design included a piped system to convey runoff to an existing detention basin and evaluating existing pipes for changes in volume.

§ **2002 – 400-meter Track – Wyalusing, PA**
Prepared a stormwater management plan and erosion and sediment control plan for the renovation of an existing running track for the Wyalusing Area School District in Bradford County. The watershed included 4.6 acres. The stormwater management system included an underground detention/infiltration system and a level spreader to eliminate point discharges.