

# BURGESS & NIPLE

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4424 Emerson Avenue, Parkersburg, WV 26104 | 304.485.8541

West Virginia Department of Administration,  
Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130  
c/o Josh Hager

Re: Expression of Interest  
West Virginia DNR Parks and Recreation Section  
North Bend State Park  
Wastewater Treatment Plant Improvements

May 28, 2024

Dear Mr. Hager,

Burgess & Niple, Inc. (B&N) is greatly interested in providing engineering services to the West Virginia DNR Parks and Recreation Section for the Wastewater Treatment Plant Improvements at North Bend State Park. The design of these improvements will require the services of an experienced cohesive engineering team. B&N's team will be led by Lee McCoy, PE who will provide the experience and commitment necessary to make this project successful.

We have prepared the attached statement of qualifications for your consideration. As our qualifications demonstrate, B&N is uniquely positioned to provide the professional services needed to meet the project goals.

If selected, the work for this project will come out of our Parkersburg Office, which is only 30 minutes west of North Bend State Park. B&N has experience working for and with State of West Virginia agencies which will be involved in a permitting role with your project. We look forward to the opportunity for an interview where we will discuss our approach for the design of your sanitary sewer project.

Respectfully Submitted,



Lee McCoy, PE  
Senior Project Manager/Client Service Manager



Michael P. Davis, PE  
Client Services Manager

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WV PURCHASING  
DIVISION

**B&N**  
burgessniple.com

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# Part 1

## Qualifications of Firm

### Overview

Burgess & Niple, Inc. (B&N) was established in 1912 in Columbus, Ohio and began providing professional engineering services in West Virginia in the 1920s. We are excited to announce the opening of our new Charleston, WV Office this year. Combined with our Parkersburg Office, which celebrated its 50<sup>th</sup> anniversary in 2022, B&N's West Virginia operations provide services to municipal, State and private sector clients throughout West Virginia and southeast Ohio. We are continuously engaged in a vast array of simple and complex projects involving roads, streets, bridges, storm sewers, wastewater systems, and water systems throughout the geographic areas served by the firm.

B&N is a full-service engineering firm of 549 professionals that can provide planning, design and construction services on water, wastewater, storm water, roadway and street improvements projects. Our capabilities include support staff comprised of civil, mechanical, electrical and structural engineers, which provides us with the convenience of relying upon in-house staff without the need to utilize and coordinate the services of subconsultants.

We are proud of our longevity as a business and the extensive array of services we offer. However, we understand that our experience and resources are only part of the equation. The other part is your confidence in us. At B&N, we work hard to provide the highest quality service to meet our clients' objectives. Our staff understands that B&N's success is dependent on a strong team commitment to project schedule, budget, quality of work, and communications, which is our method for ensuring that the expectations of our clients are met.

### Primary Office Location & Contact

We anticipate all management for the professional services provided by B&N on the Sewer Improvements Project will be provided by our Parkersburg Office. However, if the need arises, we will draw upon staff from other offices to provide the needed expertise.

#### **BURGESS & NIPLE, INC.**

4424 Emerson Avenue  
Parkersburg, WV 26104  
www.burgessniple.com  
304.485.8541, Ext 7655

#### **Primary Contact**

Lee McCoy, PE  
Cell: 304.539.0910  
Email: lee.mccoy@burgessniple.com

### Recognition by Our Peers

The size and diversity of B&N's services can be measured by our inclusion in the *Engineering News-Record* list of top 500 design firms in the United States. In 2023, *ENR* ranked B&N 194<sup>th</sup> based on 2022 total revenues of \$108.2 million.

**B&N is Ranked**  
**194<sup>th</sup>**  
ENR ENGINEERING NEWS-RECORD'S 2023  
**TOP 500**  
**Design Firms List**  
BASED ON 2022 TOTAL REVENUES OF  
**\$108.2 M**

## Professional services offered by B&N

### Architecture

- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Campus Planning
- Programming
- Building Design
- Interior Design
- Landscape Architecture
- Civil Engineering

### Environment

- Site Assessment
- Archaeological Studies
- Hazardous Waste Management
- Environmental Engineering
- Water & Wastewater Treatment
- Geotechnical Services
- Wetlands
- Air Quality

### Transportation

- Street and Highway Design
- Stadium Inspections
- Bridge Design and Inspections
- Safety Studies
- Traffic Engineering
- Railway Design
- Transportation Planning
- Street Lighting

### Utility Infrastructure

- Water Distribution System
- Water Treatment Plants
- **Sanitary Sewer Systems**
- **Wastewater Treatment Plants**
- Biosolids Handling Systems
- Watershed Planning
- Stormwater Management
- Reservoir and Dam Studies
- Hydraulic Structures
- Land Development
- Surveying
- Construction Services

### Land Development

- Project Feasibility
- Master Planning
- Site Plan Design
- Traffic Studies
- Utility Systems
- Landscape Architecture
- Boundary and Topo Surveys
- Geology and Hydrology
- Grading and Drainage Design
- Wetland Delineation
- Environmental Assessment
- Zoning and Permit Assistance



Utilities



Environment



Transportation



B&N is proudly ranked 23<sup>rd</sup> on [Trenchless Technology Magazine's](#) 2023 list of Top 50 Trenchless Design Firms. This ranking demonstrates B&N's dedication to the use of trenchless methods that help eliminate or minimize the need for surface excavation in construction and rehabilitation projects. Trenchless methods also help reduce the environmental damage and costs associated with underground work.

## Part 2 Project Summary

### Project Introduction

Development of North Bend State Park began in 1951 when the state Legislature allotted funds to purchase land in Ritchie County. By 1954, the state had purchased 1,405 acres for the park. The park is in West Virginia's historic oil and gas fields. About 50 wells, dating from the 19th century, were once active in the present park area, and visitors may still see a few still standing around the park. As the park grew in popularity over the years, the lodge, campgrounds and recreational facilities were added to accommodate the growing number of visitors. Named for the horseshoe curve of the North Fork of the Hughes River, this year-round park is lush with hiking trails and abundant wildlife. Located near Cairo and Harrisville, North Bend State Park is best known for its family atmosphere and the 72-mile North Bend Rail Trail, which follows a rail-banked B&O Railroad corridor with several tunnels along the way.

It is our understanding that West Virginia Division of Natural Resources (WVDNR) Parks and Recreation Section wants an engineer to evaluate the existing wastewater treatment plant and design improvements to the plant or design a new wastewater treatment plant. An evaluation of the existing collection system and design of improvements as necessary are also included in the project scope.

### System Challenges

Following a site visit with Brent Smith, plant operator, the following challenges were identified:

Treatment Plant: The existing treatment plant exhibits numerous deficiencies including but not limited to:

- Lack of screen system to remove grit and other debris,
- Rusted holding tanks,
- Failing sides of holding tanks; the tanks are metal, rusting and starting to buckle on some sides,
- Sand filters have new filter material and discharge system.
- Dated and only partially functioning electrical controls.

By reason that most of the treatment plant is in disrepair, it is likely that a new plant is more feasible than rehabilitation of the existing plant.



Wastewater Treatment Plant

Collection System - The park owns and operates a collection system consisting of a manholes and gravity lines serving the cabins, a lift station serving the education center and a main pump station that collects flow from the camping area bathhouse, the educational center pump station, and the cabin gravity system. The flow is then pumped to the treatment plant via force main. The following deficiencies were observed/discussed during the site visit:

- Inflow and Infiltration (I/I) throughout the gravity system and at both pump stations,



- Nonworking alarms at both pump stations,
- Flooding of the main pump station during wet weather events,

It is recommended that improvements to the collection system be addressed along with the construction of a new treatment facility.



Main Pump Station

## Project Approach

### Obtain Existing Data & Site Investigation

It is important to start off the project by establishing a good communication network between WVDNR, North Bend State Park and the B&N project team. *Our experience has taught us that a kickoff meeting allows the respective team members to discuss the park's goals, submittal milestones, scheduling, and budgets for the project.* We want to know what factors you believe are critical for success. This is an opportunity for project team members to gain a good understanding of individual roles and responsibilities. We will decide on how often you want to have progress meetings, who should be included, and if they will be in person, by phone, or virtual. We frequently host meetings using Microsoft TEAMS and Zoom with screen sharing to quickly convey thoughts and make decisions faster.

B&N will gather information about the project site that will be needed to produce drawings for

the planned improvements. The information includes topographic survey information, existing utilities, existing wastewater treatment system components and floodplain data. B&N will conduct a survey to gather additional topographic data. B&N will review the NRCS soils data for the site and if necessary, coordinate soil borings being conducted and the development of a geotechnical report.

### Identify Permits and Environmental Clearances

B&N will perform environmental screening for jurisdiction streams/wetlands, threatened and endangered species, cultural resources, and hazards wastes. If it is determined environmental investigations are needed, then we will provide those necessary in-house services.

### Preliminary Construction Documents

B&N will start developing preliminary Construction Documents necessary for the construction of the project. These documents will include drawings and technical specifications necessary for bidding the project. In addition, B&N will prepare a construction cost estimate for the proposed improvements. These Preliminary Construction Documents will be submitted to the WVDNR and North Bend State Park for internal review. After you have had time to review these documents, a meeting will be scheduled to allow B&N to discuss your comments and plan the next phase of the project. Any necessary adjustments to the plans and specifications will be made as the project moves into the final design phase. Coordination with State and Federal regulatory agencies will begin while the Preliminary Construction Documents are prepared.

### Final Construction Documents

Based on comments and discussions in the previous review meeting, B&N will prepare final construction documents and finalize the construction cost estimate. *We use a QA/QC process which includes internal technical and*

*constructability reviews from a quality assurance manager.* After corrections are made, these final documents will be submitted for final internal review. After you have had time to review these documents, a meeting will be scheduled to discuss any final revisions that may be necessary. The final permit applications will be submitted in conjunction with the park's desired start of construction.

### Construction Phase Support

B&N will provide bidding support for the project. This includes:

- Assistance with advertisements
- Conducting a pre-bid meeting with potential contractors
- Assist with the bid opening, preparing a tabulation of bids received
- Provide a review letter for bids received

B&N will serve as the owner's representative during the construction phase of the project. Tasks associated with the construction phase include:

- Conduct pre-construction meeting and other meetings as necessary during construction
- Review of shop drawings, schedules, and other submittals
- Perform periodic site visits, prepare pay estimates, and consult with owner on noncompliance
- Provide full time/part time resident project representative (RPR) as necessary.
- Perform substantial completion and final inspection

## Part 3

# Technical Expertise

### Highlights of Project Team

B&N builds its project teams by drawing from experienced engineers, scientists, architects, surveyors, and technicians to specifically meet the needs of our clients. Our West Virginia clients range from small public service districts to the largest municipalities. We understand the challenges faced by small municipalities, which translates into providing the right level of service to successfully complete projects. Our staff remains abreast of technological advances from trenchless pipe installation to AutoCAD design practices.

By functioning as part of your team, our Project Team will be responsive and sensitive to your needs. We will respond quickly to urgent issues, collaborate to develop innovative strategies to solve problems, and design improvements that meet your requirements. We excel in meeting client expectations and keeping them informed of progress.

Key Project Team members and their expertise related to your project area identified in a matrix on the following page. The highlights of our Project Team include:






















- **Extensive experience in wastewater rehabilitation projects.** Within the past 10 years, B&N's West Virginia Operations has assisted West Virginia communities with completing more than \$150 million of water and wastewater system improvements. Many of the members of those successful teams are included in the Project Team.
- **A single firm that will provide all your engineering service needs.** B&N is a full-service engineering firm that can provide planning, design and construction services on your Wastewater Treatment and Sanitary Sewer Improvement Projects. We have assembled a Project Team that will provide engineering services without outsourcing to subconsultants, which will provide single-source responsibility and ensure greater efficiency in completing your projects.
- **Proximity to project location.** B&N's Parkersburg Office is approximately 30 minutes from North Bend State Park. In addition, four of our office staff are Ritchie County natives.
- **Excels in Communications.** Our team is led by **Lee McCoy, PE**, who has been involved with planning, design and construction of numerous wastewater projects since 1996. He excels at communications with our clients and project teams, which is one of the primary factors influencing his successful completion of water distribution and treatment plants, pump stations, and wastewater collection systems for many of our West Virginia clients. Lee will keep WVDNR and North Bend State Park apprised of progress by holding routine status meetings and providing written status reports.



## Experience of Key Personnel

Having personnel with the right level of practical knowledge and expertise is one of the keys to any successful project. B&N's Project Team has those traits. We are comprised of specialists who will execute tasks successfully and will efficiently complete the Wastewater Treatment and Sanitary Sewer Project. We are ready to meet the unique challenges of your Project!

*B&N's commitment to successful projects means having the right personnel on-board, including technical specialists. Our Team of engineers and technicians who will efficiently & successfully complete the Park's Project!*

Experience Matrix of B&N Project Team Members		Lift Stations	Wastewater Collection System	Contract Administration	Wastewater Treatment Facilities
Team Member	Total Years' Experience				
Lee McCoy, PE	28				
Mike Davis, PE	27				
Timm Utt, PE	32				
David Dye	32				
Matt Newlon, PE	11				
Vince Amato, PE	39				
Colleen Nelson	22				
Mike Spear	48				

## Part 4

# Management & Staffing Capabilities

### Availability of Staff

As one of the largest consulting firms in the West Virginia region, B&N can accomplish multiple assignments within our clients' schedules as a direct result of our large and diverse staff resources, effective project management, and our commitment to clients.

The Project Team will have at their disposal B&N's corporate resources. Our staff understands that success is dependent on a strong team committed to project schedule, budget, communications, and quality of work. Depending upon our client's needs and their deadlines, it is sometimes necessary for our project teams to draw upon the vast resources of our firm. With a company-wide staff of approximately 580 persons, the ability to provide the resources and expertise necessary to complete assignments should be an important factor when considering B&N for fulfilling professional engineering service needs.

### Project Management

Good management is the key to smooth-running, cost-effective, and on-schedule assignments. For each assignment undertaken, a project leader and staff members are assigned to the project team based on their experience and capabilities. Project team members remain committed to their assignments throughout the duration of the project. Open and frequent client and staff communications are maintained, and meetings are held to ensure proper direction, control, and scheduling of the assignments.

Conscientious effort is applied by management and staff to control cost and ensure timely execution and satisfactory completion of all assignments.

All B&N employees endeavor to the success of our projects through our **Core Values**, which are:

- > Integrity
- > **Respect**
- > **Client Focus**
- > Excellence
- > **Collaboration**
- > Innovation



### Resumes of Project Team Members

We understand that the scope of the Sewer Improvements Project will require the services of WWTP process engineers and civil engineers. However, to provide WVDNR and North Bend State Park with a broader understanding of our capabilities, we've added the resumes of a few additional staff who have experience in the various aspects of wastewater treatment facilities. Their resumes are included on the following pages:

## Resumes

Lee McCoy, PE  
Project Manager



### BURGESS & NIPLE

Total Years of Experience: **28**

Education: **West Virginia Institute of Technology | Bachelor of Science, Civil Engineering**

Registration: **Professional Engineer – West Virginia, Kentucky, and Ohio**

## Background

Lee joined B&N in March 2024 as a project manager/client service manager. Lee has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, planning and surveying. These projects have included power substations, industrial laydown yards, water and wastewater, streets/highways, retail/commercial site preparation, airports, retaining walls/foundations, as well as recreational facilities. His responsibilities have included field surveying, drawings and specification preparation, design, design drafting, permitting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation. *He will be the primary contact and will lead all assignments involving the evaluation, design, and construction of improvements to the pump stations.*

## Relevant Experience

- **City of Moundsville Sanitary Sewer Projects** – Lee is working with the Moundsville Sanitary Board on several projects throughout the City, including sanitary sewer replacements, pump station evaluations and sanitary sewer/storm sewer evaluations.
- **City of Elkins Sanitary Board Georgetown Road Evaluation** – Lee is working with the Elkins Sanitary Board to determine the best way to extend sewer service to a new development in the City. This includes new pump station design, existing pump station evaluation, force main design and gravity sewer design.
- **Town of Alderson Storm Sewer Investigation and Repair, Alderson, WV** - Lee was the Project Engineer and Project Manager for subsidence investigations and storm/sewer system replacements throughout the Town of Alderson.
- **Town of Belle West Reynolds Avenue Sewer and Storm Sewer Improvements, Belle, WV** - The Town of Belle experiences excessive inflow/infiltration during wet weather events in the West Reynolds area of Town. As the Project Engineer, Lee was responsible for preparing the plans, specifications, bid/contract documents, and for construction management for new sanitary sewer and storm sewer systems to help alleviate the problem.
- **Child Development Center Sewer Line Extension, Hanging Rock, OH** - As Project Engineer and Project Manager, Lee was responsible for the initial study to determine the most feasible and cost-effective method for upgrading the existing sanitary sewer collection system. The project includes several thousand feet of 3-inch diameter force main line, booster stations, and road and creek crossings.

**Michael P. Davis, PE**  
Principle/WWTP Design



## **BURGESS & NIPLE**

Total Years of Experience: **27**

Education: **West Virginia Institute of Technology | Bachelor of Science, Chemical Engineering**  
**West Virginia University | Master of Science, Civil Engineering**

Registration: **Professional Engineer – West Virginia, Florida, Texas, and Ohio**

### **Background**

Mike joined B&N in 2008 and is currently the West Virginia Utility Infrastructure Group Director. His 27 years of experience includes assignments as a civil/sanitary engineer and project manager. He has been involved in a variety of projects involving water and wastewater preliminary investigations, process designs, detailed facility designs, and construction phase services. Mike will assist Lee with *obtaining regulatory approvals for the project, and be responsible for assuring staff and resources are adequately assigned to complete your project on-time and will lead the treatment plant evaluation and design.*

### **Relevant Experience**

- **City of Elkins Sanitary Board** – WWTP Sludge Storage Improvements; CSO Long-Term Control Plan development; assisted with negotiating terms of federal Consent Decree; two phases of sewer separation water and sewer Needs Assessment.
- **Moundsville Sanitary/Stormwater Utility Board** – WWTP UV System Replacement and Anaerobic Digester Improvements, Long-Term Control Plan development.
- **City of Philippi** – Philippi WWTP and Lift Station Improvements and Tygart Glen WWTP Improvements; Long-Term Control Plan.
- **City of Pennsboro** – WWTP Improvements, Phases 1 through 3, involving upgrades to all components of the WWTP. Two phases of sewer rehabilitation/replacement.
- **The Sanitary Board of the City of Charleston** – Lift Station Improvements (total of 33 lift stations) and force main replacements.
- **City of Point Pleasant** – WWTP Headworks Improvements, WTP improvements, Long-Term Control Plan, Sewer Separation Project.
- **Vienna Utility Board** – Lift Station Improvements, sewer system master plan.
- **New Martinsville Water & Sanitary Sewer Board** – WWTP review document, including ammonia-nitrogen study; Long-Term Control Plan.

**Matthew S. Newlon, PE**  
Civil Engineer



#### **BURGESS & NIPLE**

Total Years of Experience: **11**  
Education: **Marshall University | Bachelor of Science, Engineering**  
Registration: **Professional Engineer – West Virginia and Ohio**  
**Pipeline Assessment Certification Program - NASSCO**

### Background

Matt joined B&N in 2013 and his role for the project will *be responsible for leading the design of improvements to the sanitary sewer system.*

### Relevant Experience

- City of Elkins Sanitary Board
- The Sanitary Board of the City of Charleston
- Parkersburg Utility Board
- Beckley Sanitary Board
- City of Benwood
- City of Maitland (FL)
- City of St. Marys
- Mineral Wells Public Service District.
- City of Pennsboro
- Moundsville Sanitary/Stormwater Utility Board
- City of Point Pleasant

**Colleen Nelson, PE**  
Electrical Engineer



#### **BURGESS & NIPLE**

Total Years of Experience: **22**  
Education: **Old Dominion University | Bachelor of Science, Electrical Engineering, Masters, Electrical Engineering**  
Registration: **Professional Engineer – West Virginia and Ohio**

### Background

Colleen joined B&N in 2013 as an electrical engineer. She has experience in electrical engineering services for private, municipal, and military clients. Her projects include retail, commercial, educational, municipal, restaurant and multi-family residential facilities.

Colleen provides electrical design of power systems encompassing power distribution, grounding and emergency power, as well as interior and site lighting design.

### Relevant Experience

- Parkersburg Utility Board, WV
- Vienna Utility Board, WV
- Mineral Wells PSD, WV
- U.S. Fish & Wildlife Service, Northeast Region
- Parkersburg Utility
- The Sanitary Board of the City of Charleston
- City of Point Pleasant
- Moundsville Sanitary/Stormwater Utility Board



Timothy L. Utt, PE, PACP  
Civil Engineer



#### BURGESS & NIPLE

Total Years of Experience: **32**  
Education: **WV Institute of Technology | Bachelor of Science, Civil Engineering**  
Registration: **Professional Engineer – West Virginia, Ohio**

### Background

*Tim will lead construction administration efforts for this project.* Mr. Utt joined Burgess & Niple in 1997 as a civil engineer. His experience includes providing construction administration for site development, water distribution systems, and wastewater collection systems and treatment.

### Relevant Experience

- Moundsville Water Board, General Engineering Services
- Parkersburg Utility Board, Water System Improvements
- New Martinsville Water & Sanitary Sewer Board, AAA Mobile Home Park Water and Sewer Replacements
- Mineral Wells Public Service District, Pond Creek Water Main Extension
- Lubeck Public Service District, Belleville Water Extension
- Valley Falls Public Service District, Water Extensions

Charles M. Spear  
Designer



#### BURGESS & NIPLE

Total Years of Experience: **48**  
Education: **Arch A Moore Vocational Technical Center Drafting**

### Background

*Mike will assist Mr. Newlon in the design of improvements to the Sanitary Sewers System.*

He has experience involving design and related technical activities for roadway projects, street improvements, utility relocations, water distribution and wastewater collection planning and design, sewer reconstruction and lining, site planning and design, various industrial related designs, electrical designs, plumbing designs, and HVAC designs.

### Relevant Experience

- The Sanitary Board of the City of Charleston, Sanitary Sewer Replacement and Rehabilitation
- Parkersburg Utility Board, Fort Boreman Water & Sanitary Sewer Extension
- Beckley Sanitary Board, Combined Sewer System Improvements
- Lubeck Public Service District, Sanitary Sewer and WWTP Improvements
- City of Point Pleasant, Combined Sewer System Improvements
- City of Benwood CSS Improvements, Phases 1 and 2
- City of Pennsboro WWTP and Sanitary Sewer Improvements

David R. Dye  
Field Survey



#### **BURGESS & NIPLE**

Total Years of Experience: **32**  
Education: **Washington State Community College | AAS, Design Drafting**

### Background

*David will lead the team with surveying and mapping.* His 30 years of experience includes work in computer-aided design and drafting (CADD) and topographical surveys on utility relocations, water system designs, landscaping, architecture, railroad, roadway projects and street improvements. He is a trained operator of AutoCAD and MicroStation CADD software, along with Civil 3D design software packages, total station and GPS survey instruments.

### Relevant Experience

- Lubeck Public Service District
- Mineral Wells Public Service District
- Parkersburg Utility Board
- Charleston Sanitary Board Lift Stations

Vince E. Amato, PE  
Soils Engineer



#### **BURGESS & NIPLE**

Total Years of Experience: **39**  
Education: **Ohio State University | Bachelor of Science, Civil Engineering  
Master of Science, Civil Engineering**  
Registration: **Professional Engineer - West Virginia, Ohio, Kentucky, Indiana, Florida, Missouri**

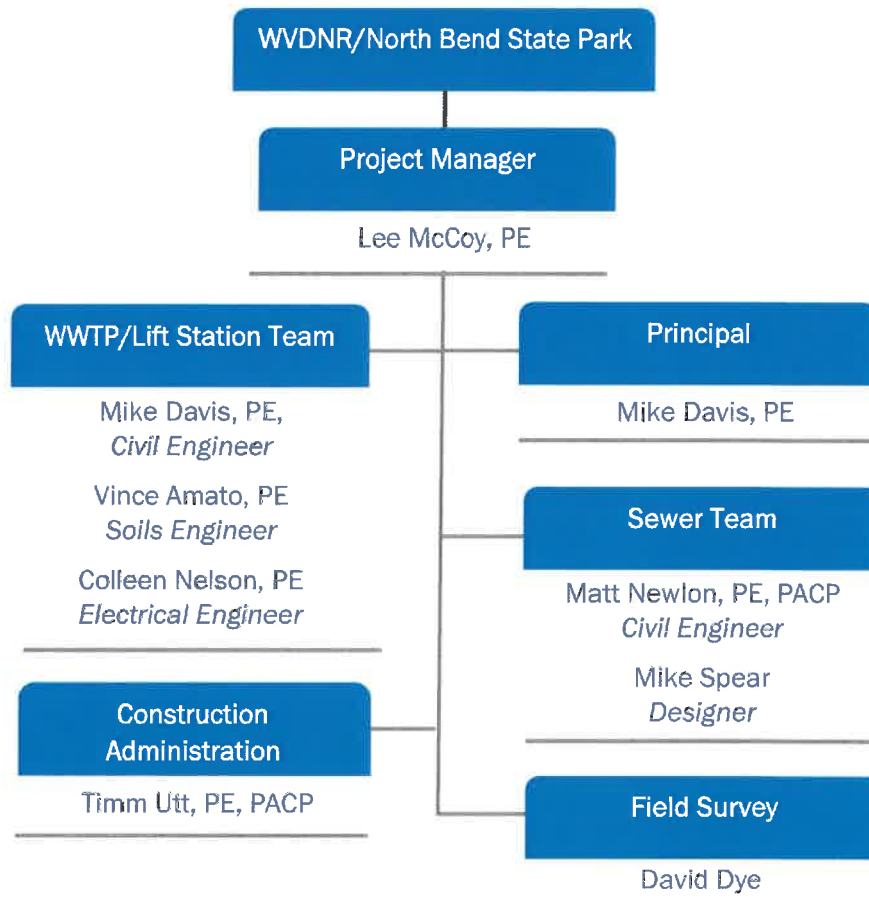
### Background

*Vince provides geotechnical services for sanitary sewers.* Vince joined B&N in 1986 as a soils engineer in the Environmental Engineering Section and he is the Chief Geotechnical Engineer for the firm. He is responsible for coordinating geotechnical engineering investigations and analyses as well as construction plans and specifications, including associated geotechnical instrumentation.

### Relevant Experience

- City of Elkins WWTP & CSS Improvements, Phases 1 and 2
- Charleston Sanitary Board Lift Stations
- City of Philippi WTP & WWTP
- Moundsville Sanitary/Stormwater Utility Board WWTP & CSS Improvements
- City of Benwood CSS Improvements, Phases 1 and 2 and High Street Road Slip
- City of Vienna Woodland Drive Landslide Evaluation
- City of Wellsburg CSS Improvements
- Beckley Sanitary Board CSS and WWTP Improvements

## Organizational Chart



## Part 5

# RELATED PRIOR EXPERIENCE

On the most fundamental level, our job is responding to clients and translating their visions into utility infrastructure that works – today and long into the future. We are innovative problem solvers with extensive knowledge, resources, and an award-winning track record.

B&N is a full-service engineering firm that provides planning, design, and construction services on water distribution and sanitary sewer improvement projects. Our diverse staff includes professionals in engineering, architectural, and scientific disciplines who are supported by experienced technicians, surveyors, drafters, construction representatives, and administrative staff. *Our ability to integrate engineering, surveying, utilities, environmental, and other project-essential services into one seamless team provides a distinct advantage to our clients.*

As a full-service engineering firm, we serve as a single resource on projects that require multiple levels of expertise. B&N's in-house environmental; electrical, structural, and mechanical engineering; construction contract administration; and other support service groups assist our project managers in providing a seamless team approach to completing the required tasks for projects.

B&N brings several distinct advantages to the project team:

- Successful track record spanning more than 110 years
- A firm with a long-term presence in West Virginia and solid relationships with agencies that provide financing and approvals for projects.
- In-house resources and expertise in essential supplemental fields

- A reputation for listening to clients and providing responsive, custom solutions
- Attention to detail and unsurpassed dedication to quality and communications.
- Long-term relationships with other professionals including accountants, attorneys, and financial advisors who have demonstrated their success in securing financing and obtaining approvals for projects in West Virginia.

We work closely with our clients and other professionals comprising their project teams to deliver quality services that result in projects that are “approvable and fundable”. *B&N's greatest value to its West Virginia clients has been the ability to provide a wide range of professional services that result in projects that meet their needs and are successfully financed and approved by State and Federal agencies including the Public Service Commission, WVDEP and the West Virginia Bureau for Public Health.*

Our experience in wastewater system projects follows:

## Wastewater Improvements

### CITY OF ELKINS SANITARY BOARD

Elkins, West Virginia



Projects Include:

- **Wastewater Treatment Plant Improvements:** B&N designed improvements to the plant, which was completed in 2007 at a cost of \$6.7 million, including components for influent screening, grit removal, septage receiving, RAS/WAS pumping, settling, and sludge handling.
- **Combined Sewer System Improvements, Phase 1:** B&N prepared Contract Documents and provided services during construction for the project. Improvements included 520 lf of sanitary sewer replacement; 5,700 lf of new storm drains, 850 lf of waterline replacement; and 4,400 lf of sewer lining.
- **Combined Sewer System Improvements, Phase 2:** B&N prepared Contract Documents and provided services during construction for the project. Improvements included 700 lf of sanitary sewer replacement and 12,800 lf of new storm sewers.
- **Long Term Control Plan:** B&N assisted the Board in negotiations with USEPA, USDOJ and WVDEP on the Consent Decree associated with the Combined Sewer System. Prepared the Combined Sewer Overflow Long Term Control Plan and assisted the Board in the required flow metering program. Prepared updated LTCP in 2022.

## Wastewater Improvements

### THE SANITARY BOARD OF THE CITY OF CHARLESTON

Charleston, West Virginia



Projects Include:

- **Sanitary Sewer Improvements:** Several projects completed since 2009 that consisted of replacing sanitary sewers experiencing high infiltration and inflow (I/I):
  - Twilight Drive (15,700 lf of sewer)
  - Kanawha Two Mile (92,000 lf of sewer)
  - Lick Branch-South Ruffner (41,300 lf of sewer)
  - Sherwood Forest (16,000 lf of sewer)
  - Porter's Hollow (46,900 lf of sewer)
- **Lift Station Improvements:** Several projects completed since 2009 that consisted of rehabilitating existing system lift stations with sizes ranging from 22 gpm to 17,600 gpm. A total of 31 lift stations have been completed.
- **Glen Street Siphon Replacement:** Design and construction phase services for the replacement of the siphon crossing the Elk River.



## Wastewater Improvements

### PARKERSBURG UTILITY BOARD

Parkersburg, West Virginia



Projects Include:

- **Preliminary Engineering Study:** Identified improvements to the wastewater collection system including working with PUB staff to perform necessary field work.
- **Phase I Sanitary Sewer Improvements:** \$2.5 million project that included 6,700 feet of new sanitary sewer and lining of 27,600 feet of sanitary sewer.
- **Phase II Sanitary Sewer Improvements:** \$2 million project that included lining of 8,500 ft. of 30-inch diameter interceptor sanitary sewer and 35 manholes.
- **Phase III Sanitary Sewer Improvements:** Project included:
  - **Wards Run Interceptor** - \$784,000 project that included 1,900 lineal feet of 18" sewer, 530 lineal feet installed by bore & jack, and 540 lineal feet of 8" gravity sewer replacements.
  - **Trunk Sewer Rehabilitation** - \$3,586,000 project that included approximately 22,000 ft. of cured-in-place sanitary sewer liner ranging in size from 15-inch through 24-inch diameter; lining of 1,150 vertical feet of manholes; and the rehabilitation of 4 siphon chambers.

## Wastewater Improvements

### VIENNA UTILITY BOARD

Vienna, West Virginia



Projects Include:

- **12<sup>th</sup> Street Lift Station Improvements:** \$1.3 million project to improve VUB's lift station that pumps wastewater to the Parkersburg Utility Board's treatment plant as follows:
  - New generator structure.
  - Replacement of three 85-horsepower pumps.
  - Replacement of emergency overflow to the Ohio River.
  - Replacement electrical and instrumentation and control systems.
- **40<sup>th</sup> Street Drainage Improvements Project:** Project that involved evaluations and design of new storm drainage system utilizing green infrastructure concepts to solve a localized flooding problem in a residential area.
- **Indefinite Delivery Contract:** Assistance in specifying flow meters, sanitary sewer investigations, and generators at various Board-owned facilities.
- **Rosemar Road SAS Extension:** Prepared plans and specifications for the extension of sanitary sewer service along Rosemar Road.

## Wastewater Improvements

### CITY OF BENWOOD

Benwood, West Virginia



#### Projects Include:

- **Combined Sewer System Improvements, Phase 1A:** Project includes separation of combined sewers by installing new sanitary sewers (approximately 10,000 lf) and using the existing combined sewers for storm sewers. \$2.5M construction cost that included \$1M in principal forgiveness (grant) through the Clean Water SRF Program administered by WVDEP.
- **Combined Sewer System Improvements, Phase 2:** Design of sewer separation project removing three CSOs from the collection system.
- **Long-Term Control Plan:** Authored the long-term control plan for combined sewer overflows for the City.
- **Sewer Flow Metering:** Helped install and maintain flow meters for each of the City's 11 CSOs.
- **Floodwall Pump Station Improvements:** Designed and provided construction services for improvements to the pump stations serving the City's floodwall system.

## Wastewater Improvements

### TOWN OF WEST UNION

West Union, West Virginia



#### Projects Include:

- **Long-Term Control Plan:** Authored the long-term control plan for combined sewer overflows for the Town.
- **Wabash Area Sewer Separation Project:** This sewer separation project includes installation of approximately 10,700 lf of sewers. Project was complicated by the existing collection system being void of manholes. Field work included resident interviews and Town staff locating of service lines. B&N assisted with completing funding applications and attending meetings of the WVIJDC.
- **WWTP Sewer Replacement:** Strong storms damaged an existing sewer adjacent to Middle Island Creek near the Town's WWTP. The Federal Emergency Management Agency provided funding to replace the sewer in a new location away from the stream.

## Wastewater Improvements

### CITY OF POINT PLEASANT

Point Pleasant, West Virginia



#### Projects Include:

- **North Point Pleasant Drainage Project:** In order to address both surcharging sewers in the North Point Pleasant area, as well as storm drainage issues that led to stagnate water in backyards, the City of Point Pleasant performed a project to separate sewers, as well as install a new drainage channel to transfer stormwater to Crooked Creek. Included three stormwater treatment structures, which assisted the City in receiving Principal Forgiveness (grant) through the Clean Water SRF Program administered by WVDEP.
- **Sewer Investigations:** Includes smoke testing and sewer televising in various locations to help identify I/I sources.
- **Long-Term Control Plan:** Authored the long-term control plan for combined sewer overflows.
- **WWTP Improvements, Phase 1:** Design of new influent screening facility at the WWTP.
- **City Engineering Services:** Includes the following:
  - Site reviews for development
  - Review of UV system for WWTP
  - Franklin Building review for demolition
  - City Building roof replacement
  - Mount Vernon Avenue paving project

## Wastewater Improvements

### BECKLEY SANITARY BOARD

Beckley, West Virginia



#### Projects Include:

- **Phase 1 Wastewater Improvements:** Includes replacement of the Whitestick Force Main.
- **Phase 2 Wastewater Improvements:** Includes improvements to the Whitestick CSO and Piney Creek Wastewater Treatment Plant.
- **Phase 3 Wastewater Improvements:** Includes a sanitary sewer extension, replacement of approximately 21,000 lf of sanitary sewers, and lining about 600 lf of sanitary sewers.
- **Indefinite Delivery Projects:** Provided assistance to the Board to address the following sewer needs:
  - Emergency repair of a slip at the Whitestick Lift Station.
  - Relocation of sanitary sewers to accommodate the new Veterans Drive roadway.
  - Relocation of sanitary sewers to accommodate a USDA-NRCS channel upgrade project.
  - Lining segments of sanitary sewer on Price Street and Woodlawn Avenue.
  - Assistance updating the CSO Long Term Control Plan.

## Part 6

# Professional References

Why B&N? Past performance with other municipal clients demonstrates our ability to understand, manage, and ultimately provide quality work.

Our clients can provide the best indication of our staff's level of experience, ability to provide professional services, commitment to projects, and compatibility with clients. In addition to the references identified in the previous section of this Statement of Qualifications, we are providing you with the names of additional clients and references familiar with our experience and qualifications. We strongly encourage you to contact the referenced individuals to help you assess B&N's ability to meet your project goals.

### Parkersburg Utility Board

Mr. Eric Bennett, General Manager  
125 19<sup>th</sup> Street  
Parkersburg, WV 26101  
304.424.8535  
e-mail: [eric.bennett@pubwv.com](mailto:eric.bennett@pubwv.com)

### City of Point Pleasant

The Honorable Amber Tatterson, Mayor  
400 Viand Street  
Point Pleasant, WV 25550  
304.675.5989  
e-mail: [mayor@ptpleasantwv.org](mailto:mayor@ptpleasantwv.org)

### Vienna Utility Board

Mr. Craig Metz, Public Works Director  
210 60<sup>th</sup> Street  
Vienna, WV 26105  
304.295.4543  
e-mail: [cm@vienna-wv.com](mailto:cm@vienna-wv.com)

### City of Benwood

Mr. Dave McLaughlin, Public Works Director  
430 Main Street  
Benwood, WV 26031  
304.232.4320  
Email: [davem201@aol.com](mailto:davem201@aol.com)

### New Martinsville Water & Sanitary Sewer Bd.

The Honorable Sandy Hunt, Mayor  
191 Main Street  
New Martinsville, WV 26155  
304.455.9120  
e-mail: [hunt1953@gmail.com](mailto:hunt1953@gmail.com)

### The Sanitary Board of the City of Charleston

Mr. Tim Haapala, Operations Manager  
208 26<sup>th</sup> Street East  
Charleston, WV 25312-1818  
304.348.1084, ext. 220  
e-mail: [thaapala@csb-wv.com](mailto:thaapala@csb-wv.com)

### City of St. Marys

Mr. Mark Dearman, City Manager  
418 Second Street  
St. Marys, WV 26170  
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### Mineral Wells Public Service District

Mr. Todd Anderson, General Manager  
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