



# Transylvania County Schools

Rosman High School (RHS)  
Football Field





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## PREPARED FOR

Kerry Putnam, Director of Facilities  
Transylvania County Schools  
225 Rosenwald Lane  
Brevard, NC 28712

## PREPARED BY

McGill Associates, PA  
55 Broad Street  
Asheville, NC 28801  
828.252.0575  
mcgillassociates.com

February 2, 2024

Kerry Putnam, Director of Facilities  
Transylvania County Schools  
225 Rosenwald Lane  
Brevard, NC 28712

RE: Statement of Qualifications  
Rosman High School (RHS)

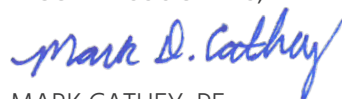
Dear Mr. Putnam:

We understand that Transylvania County Schools (TCS) requires a trusted and reliable engineer to provide design and construction administration for the RHS Football Field drainage project. The McGill Associates, PA (McGill) team offers comprehensive experience in a range of services that coincide with your needs. Our expertise in design, permitting, field replacement, bidding and award, surveying, and construction administration makes us well suited for this project. As you review our Statement of Qualifications (SOQ), please consider the following points:

- **Familiarity with TCS:** Since our firm's founding in 1984, McGill has built a working relationship with a range of clients in Western North Carolina. We have assisted TCS with several important projects, including several heating, venting, and air conditioning (HVAC) facilities and sports field projects. The McGill team offers the unique opportunity to provide a one-stop-shop for most required services, and we have a strong familiarity of the area, staff, and several local school campuses.
- **Overcoming Challenges:** The McGill team has significant technical knowledge and experience guiding clients through the challenges of administration for infrastructure projects while ensuring compliance with all local, state, and federal grant regulations. We are confident that we have the ability to overcome any challenges TCS may face with this project.
- **Disciplines:** While the McGill team is fully capable of assisting TCS with the specific disciplines identified above (civil engineering, landscape design, surveying, and construction administration), we have worked with other professional service providers and contractors in Western North Carolina for 40 years. This allows us to successfully partner with TCS and potential subconsultants to identify efficient solutions to your needs and complete projects successfully. We understand that any required borings or material testing associated with this school project will be executed by the school systems' on-call geotechnical firm.

Finally, our team's interest in this project goes beyond the professional gratification of performing excellent consulting work. North Carolina is our home, and we are proud of our long history of commitment to our clients. Our team would be pleased to grow our already successful relationship with TCS and would be happy to discuss our qualifications with you further. If you have any questions, please do not hesitate to contact us by phone at 828.252.0575 or by email at [mark.cathey@mcgillassociates.com](mailto:mark.cathey@mcgillassociates.com) or [ben.cathey@mcgillassociates.com](mailto:ben.cathey@mcgillassociates.com). Thank you for your consideration.

Sincerely,  
MCGILL ASSOCIATES, PA

A handwritten signature in blue ink that reads "Mark D. Cathey".

MARK CATHEY, PE  
Principal / Vice President / Regional Manager

A handwritten signature in blue ink that reads "Ben Cathey".

BEN CATHEY, PE  
Civil Practice Area Leader



# 01 | Firm Overview

## Contacts



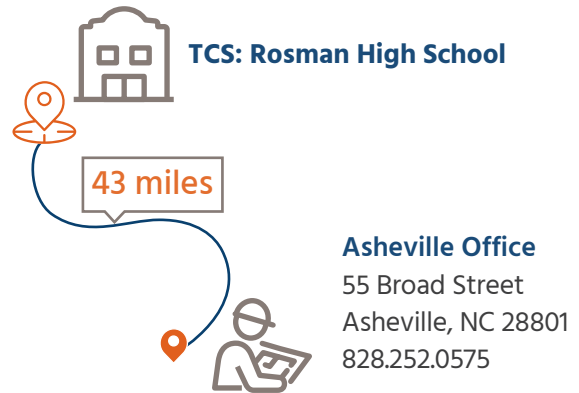
**Mark Cathey, PE**

**Principal / Vice President / Regional Manager**  
[mark.cathey@mcgillassociates.com](mailto:mark.cathey@mcgillassociates.com)



**Ben Cathey, PE**

**Civil Practice Area Leader**  
[ben.cathey@mcgillassociates.com](mailto:ben.cathey@mcgillassociates.com)



## How We're Different

McGill serves public and private clients throughout the Southeast. The range and depth of McGill's expertise includes a wide spectrum of engineering services, land planning and recreation, as well as consulting services.

Our foundation is built on creating comprehensive solutions in a personal way. Collaboration is the key to our success and clients are an integral part of every project at McGill. By building lasting relationships with communities, we understand our clients' visions and project goals. Our dedicated project team focuses on delivering a customized solution for each unique community.

We help our clients identify challenges, formulate responsive solutions, and manage successful project completion. Through partnership, we shape the best results for each client and community.

## What We Do



Water and Wastewater



Civil Engineering



Water Resources



Land Planning and Recreation



Electrical Engineering



Mechanical, Electrical, and Plumbing



Surveying



Construction Administration



Solid Waste



Environmental



Consulting Services

## At a Glance

**Legal Name: McGill Associates, PA**  
**Incorporated / Year: 1984**  
**Business Type: Corporation**

**Number of Offices: 8**  
**Number of Employees: 160**

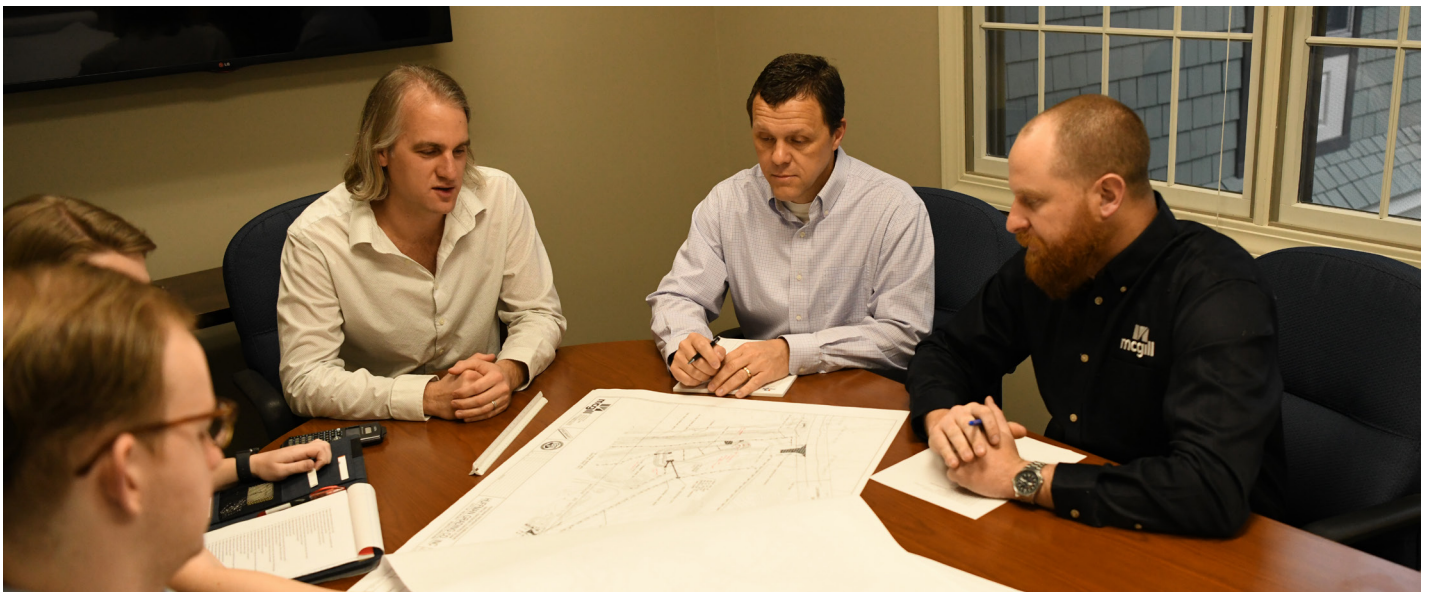




## 02 | Key Personnel

### Team Overview

Our goal in assembling the proposed team outlined below is matching the individual and team qualifications with the expertise and experience appropriate for this project. Our comprehensive project team approach is particularly appropriate for projects where coordination, scheduling, and efficiency are important considerations.



McGill's civil team members



#### Education

BS, Civil Engineering,  
Clemson University

#### Professional Licensure

PE NC #24993  
PE SC #28749  
PE VA #0402054639

#### Professional Associations

- APWA
- SWANA



*Throughout his career, Mark has many years of project leadership with drainage projects.*

## Mark Cathey, PE

### Principal / Vice President / Regional Manager

Mark Cathey has over 29 years of design and management experience with a strong background in civil and environmental engineering. He has managed a substantial number of engineering projects from concept to completion — including parks and recreation, storm drainage, roadways, sidewalks, utilities, solid waste, and geographic information system (GIS)-related projects. Mark has developed a noteworthy reputation for his ability to adhere to the client's needs and complete projects in a timely, yet efficient manner. His vast background in Western North Carolina enhances his ability to understand the value of effective communication with local officials and communities for the projects he serves.

#### Related Experience

- Rosman High School Baseball Field, TCS
- Brevard Middle School Athletic Fields, TCS
- Rosman Elementary School HVAC Improvements, TCS
- Owen High School Tennis Court Renovation, Buncombe County Schools



#### Education

MS, Civil Engineering,  
Clemson University  
  
BS, Civil Engineering,  
Clemson University

#### Professional Licensure

PE NC #034476

#### Professional Associations

- APWA
- ASCE



*Ben has successfully managed many significant engineering projects from concept to completion.*

## Ben Cathey, PE

### Civil Practice Area Leader

At a young age, Ben Cathey knew he wanted to build. Now, having over 24 years of experience, he is living out his childhood dream as a civil / site engineer. With over 11 years at McGill, Ben has earned the title of civil / site practice area leader at the firm. His experience with various types of construction projects, in addition to his real-world approach, results in practical solutions for clients — both municipal and private. Ben enjoys the satisfaction of improving or building new facilities or infrastructure, making a difference in the communities in which we serve and live, and knowing that he was a part of a project that makes a difference to society.

#### Related Experience

- Fletcher Town Park Drainage, Town of Fletcher
- Fletcher Multi-Use Courts, Town of Fletcher
- North Buncombe County High School Softball Complex, Buncombe County Schools
- T.C. Roberson Stormwater and Water System Improvements, Buncombe County Schools



#### Education

BS, Construction Engineering and Management, North Carolina State University (NCSU)

#### Professional Licensure

PE NC #039177

#### Professional Associations

- NCAFPM
- SWANA



*Scott has partnered with multiple schools to customize drainage solutions that effectively meet their needs.*

## Scott Burwell, PE

### Senior Project Manager

Scott Burwell has 16 years of experience managing engineering design and construction administration for industrial sites. His construction engineering and management education and design expertise enables him to fully understand all aspects of the project to provide seamless coordination and oversight from concept to closeout. Scott understands the importance of protecting the client's interests and ensures that plans and specifications are developed that can be constructed within budget and on schedule.

#### Related Experience

- Rosman High School Baseball Field, TCS
- Owen High School Tennis Court Renovation, Buncombe County Schools
- T.C. Roberson Stormwater and Water System Improvements, Buncombe County Schools
- North Buncombe High School Softball Complex, Buncombe County Schools
- Owen High School Drainage Issue, Buncombe County Schools



#### Education

BS, Civil Engineering, Purdue University

BS, Land Surveying and Geomatics Engineering, Purdue University

#### Professional Licensure

PE NC #49336  
PE SC #33251  
PE TN #123067  
PE GA #PE0044939  
PE IL #062067442  
PE AR #19115  
PE AL #38668



*Rob's ability to dissect complex issues and formulate effective solutions makes him a valuable team member.*

## Rob Will, PE

### Project Manager

Rob Will is a skilled project manager with a background in civil engineering, land surveying, and geomatics. Rob is noted for his critical problem-solving capabilities. He is proficient in AutoCAD Civil 3D, Hydraflow Hydrographs and Storm Sewers Extension, Autodesk Storm and Sanitary Analysis, Trimble Survey Controller, Trimble Business Center, and Bluebeam. Rob has a passion for serving his clients and producing high-quality designs. He understands the importance of strong relationships and thrives in a team environment.

#### Related Experience

- Rosman High School Baseball Field, TCS
- North Buncombe High School Softball Complex, Buncombe County Schools
- Sewer and Storm Drainage Improvements, MB Haynes Corporation, Buncombe County
- Avery's Creek Elementary Car Rider Improvements, Buncombe County Schools





#### Education

BS, Civil Engineering,  
Clemson University

#### Specializations

- Stormwater conveyance
- Erosion control measures
- Underground utilities
- Site layout and grading



*Gage was a student at RHS and played football on this field, so he has a deep understanding of the field and a personal investment in this project.*

## Gage Orr

### Engineering Technician

As a member of McGill's civil engineering team, Gage Orr helps design new infrastructure in communities across the state. He has worked on a wide variety of projects, designing stormwater conveyance, erosion control measures, underground utilities, and site layout and grading, in addition to visiting project sites for quality control. Gage finds satisfaction in completing a project, seeing the completed project in person, and knowing that he played a crucial role behind the scenes. With no two projects ever being the same, he takes what he learns from previous projects and applies those same principles to each new project he is assigned.

#### Related Experience

- Rosman High School Baseball Field, TCS
- Sewer and Storm Drainage Improvements, MB Haynes Corporation, Buncombe County
- Avery's Creek Elementary Car Rider Improvements, Buncombe County Schools



#### Education

BS, Landscape Architecture, NCSU  
BS, Environmental Design in  
Architecture, NCSU

#### Professional Licensure

PLA NC #1048  
PLA SC #1016

#### Professional Associations

- NCRPA
- TNRP



*Mike's expertise in land planning and recreation has helped shape communities for over 26 years.*

## Mike Norris, PLA

### Director of Land Planning and Recreation

Mike Norris is an award-winning, registered landscape architect with extensive experience in landscape and gateway design services. His experience includes projects of all sizes, working with community groups, municipal staff, city and county boards, and special interest groups to gain approval for a multitude of projects. Mike aims to maintain cultural, historical, and sustainable aspects in each of his design endeavors. He embraces the full-circle concept and strives to create designs that satisfy the needs of the stakeholders, users, and owners. Under Mike's leadership, the land planning and recreation team has won several awards for landscape architecture projects.

#### Related Experience

- South Caldwell, Hibriten, and West Caldwell County High School Track Renovations, Caldwell County Schools
- West Caldwell High School Property Expansion, Caldwell County Schools
- Soccer Field Design Permitting and Construction Administration, Lenoir Community College



#### Education

BS, Landscape Architecture,  
University of Georgia

BS, Civil Engineering, North  
Carolina Agricultural and Technical  
State University

#### Professional Licensure

PLA	NC #915
PLA	VA #0406001727
EI	NC #A-19104



*Carrie possesses experience in both landscape architecture and civil engineering, which benefits not only our team but our clients as well.*

## Carrie Cranwill, PLA, EI

### Project Manager

Carrie Cranwill has over 31 years of experience in land development for public and private projects. She has experience with project management, site investigation, site planning, construction documents, engineering design, permitting, construction observation, and graphics renderings for planning and construction projects. Carrie has performed a variety of tasks associated with parks and recreation, educational facilities, medical facilities, industrial sites, and site development associated with business parks, commercial centers, and residential neighborhoods. She brings a unique blend of landscape architectural and civil engineering skills to her projects.

### Related Experience

- South Caldwell, Hibriten, and West Caldwell County High School Track Renovations, Caldwell County Schools
- West Caldwell High School Property Expansion, Caldwell County Schools
- Tennis Court Renovation South Caldwell High School, Caldwell County Schools



#### Education

MS, Landscape Architecture, NCSU

BS, Horticulture / Landscape  
Design, NCSU

AAS, Horticulture Technology,  
NCSU

#### Professional Licensure

PLA	NC #2278
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#### Certifications

- Outdoor Learning Environment
- Permaculture



*Kurtis provides clear instructions to contractors to ensure McGill's designs come to fruition.*

## Kurtis Durrant, PLA

### Planner

Kurtis Durrant has been in the design field for eight years as a landscape designer, working on residential outdoor environments. During his tenure as a graduate student, he took an interest in how the outdoors can affect childhood development, as well as looking at how the outdoors can impact the health and well-being of people. Kurtis has taken a particular interest in motivating people, especially families, to get outdoors for physical, social, and mental health. He is a firm believer that when people get outside — whether in natural or built environments — that the health benefits will make them stronger, physically and emotionally.

### Related Experience

- South Caldwell, Hibriten, and West Caldwell County High School Track Renovations, Caldwell County Schools
- West Caldwell High School Property Expansion, Caldwell County Schools
- Chatham Field Improvements, Chatham Charter School
- Soccer Field Design Permitting and Construction Administration, Lenoir Community College



#### Education

MS, Landscape Architecture,  
Florida Agricultural and Mechanical  
University

BS, Physical Education and Sports  
Management, Florida State  
University

#### Certification

Occupational Safety



*Jim is skilled at connecting with community members  
and identifying viable designs for our clients.*

## Jim Ford

### Planner

Jim Ford is an experienced planner who creates sustainable designs through environmentally conscious, open-space and low-impact development concepts. Jim has attained LEED Gold and Platinum designations for numerous landscape plans. He serves public interests through quality landscape design and ecologically sensitive planning to help protect and restore native habitats, improve water and air quality, and provide educational opportunities for persons of all ages. Jim's professional focus includes technical and site detailing, plants and ecology, parks planning, and site design and building material use. Having a great deal of experience in graphic layout and design, he excels at producing high-quality hand- and computer-generated presentations, as well as animated 3D site models.

### Related Experience

- Rosman High School Baseball Field, TCS
- Chatham Field Improvements, Chatham Charter School
- Tarheel Middle School Site Improvements, Bladen County Schools



#### Education

AAS, Surveying Technology, Wake  
Technical Community College  
(Wake Tech)

AAS, Civil Engineering Technology,  
Wake Tech

#### Professional Licensure

PLS	NC #24271
PLS	VA #0403002826
PLS	SC #L-4220



*Chad has received 13 awards from the North Carolina  
Society of Surveyors Annual Statewide Plat Contest.*

## Chad Howard, PLS

### Surveying Services Practice Area Leader

Chad Howard has worked in the surveying field for over 28 years. During this time, he has managed over \$20 million worth of successful land surveying and subsurface utility engineering (SUE) projects. In his role, at McGill Chad has been responsible for project estimating, contract negotiation, billing, client relations, quality control and quality assurance (QA / QC), computing and adjusting boundary problems, and drafting and reviewing finalized plats. His dedication to his field is evident in the work ethic and enthusiasm he demonstrates with his team members and clients.

### Related Experience

- Soccer Field Design Permitting and Construction Administration, Lenoir Community College
- Tennis Court Renovation South Caldwell High School, Caldwell County Schools
- Collettsville Elementary Wastewater Replacement, Caldwell County Schools





#### Education

BS, Environmental Science,  
Appalachian State University

#### Specializations

- Topographic surveying
- Environmental science



*Eric blends his knowledge of environmental science with field surveying.*

## Eric Hill

### Survey Field Technician

Eric Hill is a survey field technician who is excited about projects that allow him to explore different areas and work outside. He utilizes his environmental science background each day in his surveying work. Eric believes what sets McGill apart is creating solutions for clients that help people live better lives and doing so through innovative solutions. Prior to McGill, his favorite project was completing a topographic survey of Mingus Mill in the Great Smoky Mountains National Park. Eric learns quickly and adapts to different situations, which is an added value to our team.

#### Related Experience

- French Broad River Greenway, HNTB Corporation, Transylvania County
- Fire Station Surveying Services, City of Asheville
- South Main Street Improvement, City of Boiling Spring Lakes
- Jack Warren Park Improvements, Town of Lewisville
- Downtown Streetscape, Town of Hudson
- West 15th Street Water Line Replacement, City of Newton



#### Education

BS, Civil Engineering Technology  
and Construction Management,  
University of North Carolina (UNC)  
Charlotte

#### Professional Licensure

EI NC #A-29634

#### Professional Associations

- NCAFPM
- SESWA



*Adam brings civil engineering experience to McGill's construction operations, resulting in a streamlined process.*

## Adam Waldroup, EI

### Construction Administrator

Adam Waldroup has a strong skill set and background in civil and site design and permitting, and he has extensive experience with no-rise certifications, LOMR and CLOMR applications, stormwater system hydraulic design and analysis, erosion control, and solid waste projects. His design background allows him to quickly identify problems in construction and find the most efficient solution. Adam is an effective communicator, exhibits a high degree of professionalism, and has a strong work ethic, which allows him to successfully complete the most difficult projects.

#### Related Experience

- Fletcher Town Park Drainage, Town of Fletcher
- Swain County Schools Master Planning Services, Novus Architects, Swain County Schools
- Owen High School Drainage Issues, Buncombe County Schools
- T.C. Roberson Stormwater and Water System Improvements, Buncombe County Schools

## 03 | Relevant Project Experience



### RHS Baseball Field

#### TSC

McGill assisted TCS with surveying, design, permitting, and Federal Emergency Management Agency (FEMA) funding compliance for the RHS baseball field improvements. The baseball field was damaged during Tropical Storm Fred in August 2021. The field fencing was destroyed, and the flooding on the field surface deposited soil and debris on the infield and outfield of the playing surface. McGill developed the initial estimates that the County used to request funding from FEMA; prepared design drawings for the field improvements; permitted the project with local, state, federal authorities having jurisdiction; developed construction documents; and assisted with bidding, award, and administration of the project.

#### Client Reference

Kerry Putnam  
Facilities Director  
828.884.6173  
[kputnam@tcsnc.org](mailto:kputnam@tcsnc.org)

#### Date Completed

2023

#### Project Highlights

- Baseball field flooding recovery
- Flood recovery assistance
- Detailed damage assessment
- Play surface rehabilitation
- Fencing





## South Caldwell, Hibriten, and West Caldwell County High School Track Renovations

### Caldwell County Schools

McGill provided track and field improvements for South Caldwell, Hibriten, and West Caldwell County high schools. Renovations for each school included the demolition of existing running tracks and field event areas. Running track improvements included a synthetic surface and slopes were revised to meet current competition requirements. New high jump, long jump and triple jump event areas were installed. Each of these competition areas included synthetic surfacing and improved landing areas. Throwing event improvements included a new pole vault, as well as discus throw and shot put event areas. In addition to the facility improvements, existing stormwater systems were replaced, as necessary, to improve existing drainage problems and accommodate new drainage patterns for the relocated event areas. McGill provided design, bidding, and construction administration services for all three projects.

### Client Reference

Dr. Jeff Church  
Former Assistant Superintendent  
for Auxiliary Services for Caldwell  
County Schools

828.757.2200  
[jeff.church@ci.lenoir.nc.us](mailto:jeff.church@ci.lenoir.nc.us)

### Date Completed

2019

### Project Highlights

- Synthetic surface tracks
- Stormwater system repairs
- Revised slopes to meet current competition requirements
- Replacement of irrigation systems and stormwater systems





## Fletcher Multi-Use Court

### Town of Fletcher

McGill provided civil engineering design and construction services for a new, multi-use court system located in Bill Moore Park. The project included four pickle ball courts, a tennis court, and three basketball courts. The courts are enclosed by a vinyl-coated chain link fence separating each playing area and have an ADA-compliant sidewalk system with access to all courts from the park's rear parking lot. In order to treat the new impervious area, two bio-retention cells were installed on the park's front parking area. This improves stormwater discharge quality and controls the peak flow. This project also afforded an opportunity to continue to improve identified stormwater drainage issues in the area of the courts. As the majority of the park is located in the floodway of Cane Creek, a no-rise study permit was obtained for this facility.

### Client Reference

Mark Bieberdorf  
Town Manager  
828.687.3985  
[m.bieberdorf@fletchernc.org](mailto:m.bieberdorf@fletchernc.org)

### Date Completed

2023

### Project Highlights

- Tennis courts
- Basketball court
- ADA compliance
- Flood permitting
- Pickleball courts





## Fletcher Town Park Drainage

### Town of Fletcher

McGill installed approximately 1,300 LF of storm drainage and associated inlets to eliminate areas of ponding water and provide more efficient outfalls for the storm system into Cane Creek. Numerous ditches and lawn areas were regraded following the installation of the new storm drainage system, which improved drainage to many open space areas and parking lots. Since many of the drainage issues plaguing the parking lots had been alleviated, the parking lots were subsequently sealed and restriped. This project involved permitting through USACE for the outfalls into Cane Creek and NCDEQ on erosion control.

This project has been a phased process that began with the project in 2016, additional improvements were made in 2019, and a third phase of the drainage improvements was completed in 2023 in conjunction with the multi-use court project.

### Client Reference

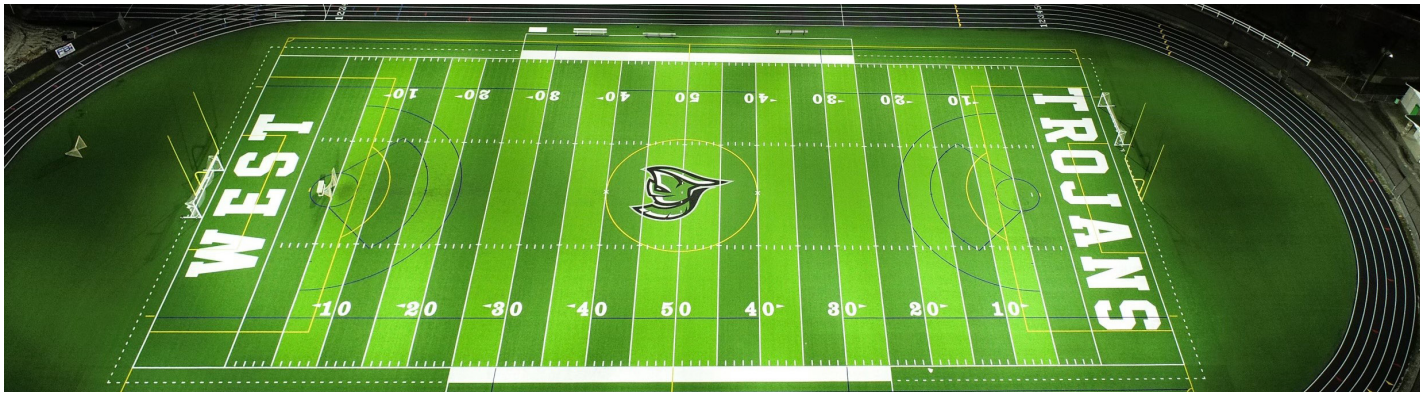
Mark Bieberdorf  
Town Manager  
828.687.3985  
[m.bieberdorf@fletchernc.org](mailto:m.bieberdorf@fletchernc.org)

### Date Completed

2023

### Project Highlights

- Storm drainage
- Parking lot repavement
- Permitting assistance



## Brunswick County Schools On-Call Projects

McGill's Shallotte office staff has continued providing consulting engineering services to satisfy various needs for the Brunswick County Schools (BCS) since 2013. Under its contracted consulting services agreement with BCS, projects have included, but are not limited to:

### South Brunswick High School Football Field Drainage

McGill worked with BCS capital projects staff and the athletics department of South Brunswick High School to address poor drainage on and around the football field. Surveying and soils data collections aided in front-end design evaluations. Subsurface and surface design measures were implemented to improve stormwater management and flow. Other improvements to existing infrastructure was also part of the project scope. McGill assisted with bidding and construction observations to help ensure the final product met design needs. Coordination with the NCDEQ was necessary to follow proper permitting protocol.

### Brunswick County High School Football Field Artificial Turf Installations

In 2019, BCS converted each of its three high school football fields into artificial turf surfaces. BCS requested that McGill collect baseline survey data, provide general stormwater design assessments, and develop project bidding specifications and the RFQ package necessary for soliciting interest from qualified design-build contracting groups. McGill participated in the selection phase process, as well as design and construction phases, as BCS's Engineer, serving as a liaison with the design-build firm engineer to help ensure timely design and permitting through the NCDEQ for stormwater management.

### South Brunswick High School Baseball Field Drainage

The project involved evaluating the current ground levels in the baseball outfield and perimeter at SBHS in order to make grading improvements.

### Shallotte Middle School Soccer Field Drainage

The project involved collecting data about the current condition and topography of the area between the fence line closest to the school and parking lot, and the property boundaries on the opposite side.

### Client Reference

Larry Smith  
Chief Operations Officer  
910.782.5062  
[ljsmith@bcswan.net](mailto:ljsmith@bcswan.net)

### Date Completed

Varies by project

### Project Highlights

- Football field drainage
- Natural turf surfaces
- Artificial turf surfaces
- Stormwater management
- Permitting





## References: Connect with Our Clients

### Buncombe County Schools

#### Clark Wyatt, Director of Maintenance

175 Bingham Road  
Asheville, NC 28806  
828.232.4244  
clark.wyatt@bcsemail.org

### Town of Fletcher

#### Mark Biberdorf, Town Manager

300 Old Cane Creek Road  
Fletcher, NC 28732  
828.687.3985  
m.biberdorf@fletchernc.org

### Brunswick County Schools

#### Larry Smith, Chief Operations Officer

35 Referendum Drive  
Bolivia, NC 28422  
910.782.5062  
ljsmith@bcswan.net

### Caldwell County Schools

#### Dr. Jeff Church, Former Assistant Superintendent for Auxiliary Services for Caldwell County Schools

801 West Avenue NW  
Lenoir, NC 28645  
828.757.2200  
jeff.church@ci.lenoir.nc.us

## Communication

### Client Communication

We tailor our communication plan to the project and client's preference. At project initiation, McGill will establish the point of contact, preferred form of communication, and frequency of updates for the client. We adapt to meet our clients' needs and have the capability to communicate in multiple methods.





**McGill Associates, PA**

55 Broad Street, Asheville, NC 28801

828.252.0575 | [mcgillassociates.com](http://mcgillassociates.com)