

QUALIFICATIONS FOR

Architectural Services

Transylvania County

November 1, 2017

MOSELEYARCHITECTS

11430 N. Community House Road
Suite 225
Charlotte, NC 28277
P: (704) 540-3755

October 30, 2017

Re: Request for Qualifications for Architectural Services

Mr. Norris Barger
Transylvania County Schools
225 Rosenwald Lane
Brevard, NC 28712

Dear Mr. Barger and Members of the Transylvania County Board of Education,

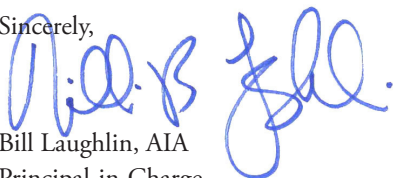
Having worked with public school systems like Transylvania County for more than 48 years, we know that tackling capital improvement projects present a variety of opportunities. Modernizing your facilities will provide improved instructional spaces for your students and staff, while addressing building system and envelope shortcomings can benefit your maintenance and operational budgets.

Recently ranked as one of the country's top 12 educational planning and design firms, you can rely on our team for pragmatic design solutions. Our team offers you the following:

- Expertise gained through the design of more than 14.8M square feet of K-12 facility spaces in North and South Carolina. This experience and in-depth knowledge of issues that apply specifically to public schools will allow us to provide you with information you can trust as you make critical decisions.
- Seasoned planners and designers collectively offer more than 65 years of educational facility experience across four states, which includes partnering with school boards and administration to address unique curriculum needs with cost-effective solutions.
- Our consensus workshops maximize engagement and input from project stakeholders. This collaborative approach is focused on strong communication, budget worthiness, schedule compliance, and sound technical execution. This fosters an outcome that is focused on your goals and priorities.
- Local knowledge gained through our recent work on your county's new courthouse. This experience provides us with a familiarity of your county's design expectations and personnel, which will be advantageous to our partnership with you.
- And most importantly, passion about design! Our planners and designers feel privileged to create learning environments that shape young minds. Nothing gives us greater joy than watching students, teachers, and parents walk into an updated school for the first time.

We look forward to working with your school system. If you have any questions about our submittal, or wish to schedule an interview, I can be reached at (704) 540-3755 or blaughlin@moseleyarchitects.com.

Sincerely,



Bill Laughlin, AIA
Principal-in-Charge

TABLE OF CONTENTS

Section 1	Description of the Firm	1
Section 2	Organizational Chart	10
Section 3	Narrative	11
Section 4	Relevant Experience	33

DESCRIPTION OF THE FIRM

Moseley Architects is one of the region's most trusted architectural and engineering firms, offering exceptional experience and service to educational clients gained through the design of more than 710 educational projects. Over our 48-year history, we have earned a reputation for quality, reliability, and responsiveness.

We understand that great design is only one component of a project's success and strive to deliver high-quality, value-based, and timely service for projects both large and small. Our success is based in large part to our inclusive design workshop process stemming from the belief that the active involvement of our clients and facility users leads to better design solutions.

Moseley Architects' broad base of skills and experience allows our firm to respond to client needs with comprehensive services. Our staff includes architects, interior designers, structural engineers, mechanical engineers, plumbing engineers, electrical engineers, security designers, specification writers, quality control specialists, and environmental impact planners. This multi-disciplined structure stems from the strong belief that the best building design is achieved through the efforts of a highly-integrated team of design professionals who share common goals.

Our experience working on K-12 projects enables us to share our extensive design, cost database, and programming knowledge. We can provide reliable cost data associated with our proposed options based on our similar past experience. This experience and knowledge of issues that apply specifically to planning and designing schools will allow our team to provide you with information you can trust as you make critical decisions to address your facilities.

1

Moseley Architects is currently partnering with Moore County Schools to create a new Advanced Career Center High School, which includes maker spaces and labs for skilled trades.



Home Office
11430 North Community
House Road
Charlotte, NC 28277
moseleyarchitects.com
P (704) 540-3755
F (704) 697-2902

Branch Offices
Raleigh, NC
Columbia, SC
Fairfax, VA
Harrisonburg, VA
Richmond, VA
Roanoke, VA
Virginia Beach, VA
Warrenton, VA

DESCRIPTION OF THE FIRM

Firm History

Moseley Architects provides architecture, engineering, interior design, high performance design, and construction administration services to clients seeking responsive and reliable facility planning and design services — and has been doing so since 1969. The following summarizes our firm's evolution.

1969 William Ward Moseley establishes his practice in Richmond.

1974 William Ward Moseley and James Hening join to form Moseley Hening & Associates.

1988 Bob Mills becomes president. The firm is re-named the Moseley Group.

1993 Virginia Beach office opens.

1995 The Moseley Group merges with the McClintock Group to become the Moseley McClintock Group

1997 The Moseley McClintock Group merges with I.V. Harris to become Moseley Harris & McClintock.

1999 Warrenton office opens.

2000 Raleigh office opens.

2002 Charlotte office opens through merger with Wilkins Wood & Mace. Firm name in North Carolina and South Carolina changes to Moseley Wilkins Wood.

2002 Firm name in Virginia changes from Moseley Wilkins Wood to Moseley Architects.

2004 Firm name in North Carolina and South Carolina changes from Moseley Wilkins Wood to Moseley Architects.

2011 Stewart Roberson becomes president.

2012 Fairfax office opens through merger with BeeryRio.



Honors and Awards

Many of Moseley Architects' K-12 projects have been recognized for design excellence. The following list summarizes these honors over the past 10 years.

Carrboro High School, Chapel Hill-Carrboro Schools

- Architectural Design Award—Best in Category (high school), CEFPI Southeast Region, 2009
- Gold Medal Building of America Award in the Carolinas, *Real Estate and Construction Review*, 2008
- Outstanding Designs: High School, *American School & University Architectural Portfolio*, 2008

Northside Elementary School, Chapel Hill-Carrboro Schools

- Award for Excellence in Architectural Design (people's choice award), NCSBA, 2013
- Outstanding Design: Elementary School, *American School & University Architectural Portfolio*, 2014
- Award—Gold, The Greater Triangle Stewardship Development Association, 2015

Whiteside Elementary School, Charleston County School District

- Excellence in School Building and Design—Honor Award, CEFPI - South Carolina Chapter, 2011

Charlottesville High School Sigma Lab, Charlottesville City Public Schools

- Silver Design Award, Virginia School Boards Association, 2014
- Special Recognition Award 2014, Virginia Educational Facility Planners, 2014
- Best Design Award for Adaptive Reuse, CEFPI, Southeast Chapter, 2015

Indian River High School, Chesapeake Public Schools

- Gold Design Award, Virginia School Boards Association, 2013
- Honor Award of Excellence—Public & Private Schools, Associated Builders & Contractors, Virginia Chapter, 2014

Dinwiddie High School, Dinwiddie County Public Schools

- Best in Category, Rural Design Award, CEFPI, Southeast Region, 2010
- Distinguished Design Award, Virginia School Boards Association, Exhibition of School Architecture, 2009

DESCRIPTION OF THE FIRM

Sutherland Elementary School, Dinwiddie County Public Schools

- Gold Design Award, Virginia School Board Association, 2009

Fairfax High School, Fairfax County Public Schools

- Best Renovation Project, CEFPI, Southeast Chapter, 2008
- Exhibition of School Architecture, National School Boards Association, 2005
- Honorable Mention, Virginia School Boards Association, 2008

Mary Ellen Henderson Middle School, Falls Church City Public Schools

- Honorable Mention for New Construction, CEFPI, 2006
- Honor Award for New Construction, Virginia Educational Facility Planners, 2007
- Best New Construction—Middle School, CEFPI Southeast, 2007

Nation Ford High School, Fort Mill School District

- Outstanding Designs: High School, *American School & University* Architectural Portfolio, 2008

James Monroe High School, Fredericksburg City Schools

- Merit Award for Design Excellence, Virginia Chapter—CEFPI, 2007

Abingdon Elementary School Addition and Renovation, Gloucester County Public Schools

- Outstanding Renovation/Addition in the Building Design Category, Virginia Chapter—CEFPI, 2010

4

Nation Ford High School



Glen Allen High School



Green Intermediate School, Greene County Schools

- Excellence in Architectural Design—Top Award, North Carolina School Boards Association, 2012

Hunter B. Andrews PK-8 School, Hampton City Public Schools

- Platinum Design Award, Virginia School Boards Association, 2010
- Other Category Award, CEFPI, Southeast Region, 2011

Kersey Creek Elementary School, Hanover County Public Schools

- Board of Education Excellence Award, Virginia Board of Education, 2010
- Governor's Award for Educational Excellence, 2010

Jackson School, Kershaw County School District

- Exemplary Project Award, USGBC South Carolina Chapter, 2011

Glen Allen High School, Henrico County Public Schools

- New Construction, High School Award, CEFPI, Southeast Region, 2011
- Platinum Design Award, Virginia School Boards Association, 2010
- Exhibition of School Architecture—Platinum Design Award, Virginia School Boards Association, 2010
- Exhibition of Public School Architecture—New Construction, High (9-12 grades), CEFPI, Southeast Region, 2011

DESCRIPTION OF THE FIRM

Holman Middle School, Henrico County Public Schools

- Connect The Dots Leadership Award, James River Green Building Council, 2011

Crossroads PK-8 School, Norfolk Public Schools

- Gold Design Award, Virginia School Boards Association, 2012
- Outstanding Design, Combined School Level, *American School & University*, 2013

Northumberland Combined Middle/High School, Northumberland County Public Schools

- Platinum Design Award, Virginia School Boards Association, 2009

Charles J. Colgan Sr. High School, Prince William County Schools

- Award of Merit Institutional Facility \$20 million and Above, Best of NAIOP Northern Virginia Awards, 2016

Loch Lomond Elementary School, Prince William County Schools

- Gold Design Award, Virginia School Boards Association, 2013

Piney Branch Elementary School, Prince William County Schools

- Silver Design Award, Virginia Educational Facility Planners, 2015

6

Loch Lomond Elementary School



DESCRIPTION OF THE FIRM

Patriot High School, Prince William County Schools

- Best New High School Design, CEFPI, Virginia Chapter, 2012
- Outstanding High School Design, *American School & University*, 2011

Piney Branch Elementary School, Prince William County Schools

- Outstanding Elementary School Design, *American School & University*, 2012

Triangle Elementary School, Prince William County Schools

- Outstanding Elementary School Design, *American School & University*, 2011

Huguenot High School, Richmond Public Schools

- Gold Design Award, Virginia School Board Association, 2015
- Architectural Exhibit: Special Jury Award, A4LE South East Conference, 2016

Warhill High School, Williamsburg-James City County Public Schools

- Outstanding High School Design, *American School & University*, 2008

Huguenot High School



DESCRIPTION OF THE FIRM

Principal Officers of the Firm



Moseley Architects is a professional corporation led by Stewart Roberson, President; Jim McCalla, Vice President, Chief Financial Officer; Bill Laughlin, Vice President, Director of Operations; and Jeff Hyder, Vice President and Secretary. Our firm's Board of Directors includes Stewart, Bill, and Jeff as well as Tony Bell, Vice President; Jason Forsyth, Vice President; Dan Mace, Vice President; Bill Brown, Vice President; and Steve Ruiz, Vice President—all of whom are licensed professionals, with the exception of Stewart Roberson.

Major Consultants

Timmons Group — Civil Engineering, Survey, and Landscape Architecture

Founded in 1953, Timmons Group has been recognized for over 25 years as one of Engineering News Record’s Top 500 Design Firms in the Country. Timmons Group’s operate 12 offices located throughout north Carolina, Virginia, and Maryland. Timmons Group specilizes in a varitey of areas including: site/civil engineering, stormwater infrastructure, environmental services, survey and mapping, traffic and transporttion, structures and bridges, econoic development, landscape architecture, right of way services, geotechnical engineering and testing, water and wastewater engineering, geographic information ststems (GIS), and LEED and envision sustainable design. Moseley Architects and Timmons Group routinely partner to assist public school clients. Our past collaborations include more than 400 projects.

TRANSYLVANIA COUNTY SCHOOLS

MOSELEY ARCHITECTS

Bill Laughlin
Principal in Charge

Kevin McDade
Project Manager

Craig Dobyns
Project Architect

Ashley Dennis
Design Collaborator

Justin Carlson
Mechanical Engineer

William Cary
Electrical Engineer

Steven Cooke
Structural Engineer

John Nichols
Energy and Analytics

Betsy Woodlief
Interior Designer

TIMMONS GROUP

Brian Crutchfield
Civil Engineer

Michael Miller
Survey Project Manager

Blake Hall
Landscape Architect

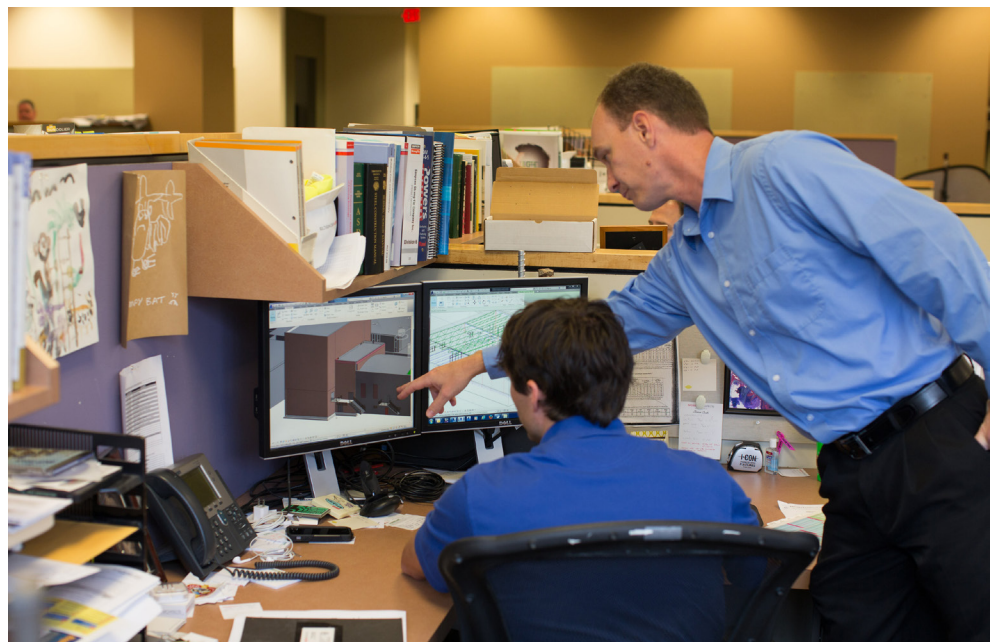
Design Philosophy

Moseley Architects, a full service architectural, engineering, planning, and interior design firm, is committed to making a positive difference in the communities we serve. We enthusiastically embrace the challenge of developing creative facility solutions in collaboration with our clients. Our commitment to a culture of quality, responsiveness, and integrity earns the trust of those we work with and fosters long term, productive relationships. We value the deep sense of satisfaction gained from the knowledge that our work plays a role in enriching the day-to-day experiences of those who live, work, learn, and play in the buildings we design.

Moseley Architects requires that one of its principals remain actively involved in every project, regardless of the size or scope. Our management structure allows the principal's full participation to maintain strict attention to our clients' expectations. We believe this practice has contributed to our reputation for quality, reliability, and responsiveness. Our architects, engineers, interior designers, and other professionals collaborate within a unified, multi-disciplinary studio setting. This approach, facilitated by state of the art building information modeling (BIM) technology, results in integrated facility designs tailored to our clients' needs and priorities.

In addition, Moseley Architects has also emerged as a leader in sustainable and high-performance design, having completed 92 LEED certified projects ranging from platinum to basic certification with another 40 registered for certification. This accomplishment reflects a strong commitment to green design at the core of the firm's practice.

11



Experience with Projects of Similar Scale and Complexity



Carrboro High School



Mooresville High School



Ragsdale High School

Moseley Architects has been serving public school systems for more than four decades. In this time, we have distinguished ourselves as a leader in K-12 school design with experience on over 140 projects serving 28 school districts in North and South Carolina. This experience includes the following North Carolina projects:

- Carrboro High School, Chapel Hill-Carrboro City Schools
- Oak Grove High School, Davidson County Schools
- Advanced Career Center High School, Moore County Schools
- Carrboro High School Fine Arts Addition, Chapel Hill-Carrboro City Schools
- Goldsboro High School Addition, Wayne County Public Schools
- Hobbton High School Addition, Sampson County Schools
- Mooresville High School Addition and Renovation, Mooresville Graded School District
- Charles B. Aycock High School Addition and Renovation, Wayne County Public Schools
- Page High School Addition and Renovation, Guilford County Schools
- Ragsdale High School Addition and Renovation, Guilford County Schools
- North Henderson High School/Apple Valley Middle School Addition/Renovation, Henderson County Public Schools
- Morehead High School Renovation, Rockingham County Schools
- Chapel Hill High School Modernization, Chapel Hill-Carrboro City Schools
- Greene County Intermediate School, Greene County Schools
- Kannapolis Middle School, Kannapolis City Schools
- Reidsville Middle School Addition, Rockingham County Schools
- Troutman Middle School Addition and Renovation, Iredell-Statesville Schools
- Dillard Middle School Gym Renovation, Wayne County Public Schools
- Culbreth Middle School Structural Improvements, Chapel Hill-Carrboro City Schools
- Barton Pond Elementary School, Wake County Public Schools
- Bethany Elementary School, Rockingham County Schools
- Buckhorn Elementary School, Wake County Public Schools
- Cloverleaf Elementary School, Iredell-Statesville Schools
- Coddle Creek Elementary School, Iredell-Statesville Schools
- Douglass Elementary School, Rockingham County Schools
- East Rockingham Elementary School, Richmond County Schools



- Green Elementary School, Wake County Public Schools
- Highland Elementary School, Alamance-Burlington Schools
- Hillandale Elementary School, Henderson County Schools
- Huntsville Elementary School, Rockingham County Schools
- Mills River Elementary School, Henderson County Schools
- Monroeton Elementary School, Rockingham County Schools
- New Town Elementary School, Union County Public Schools
- Northern Elementary School, Guilford County Schools
- Northside Elementary School, Chapel Hill-Carrboro City Schools
- Oakview Elementary School, Wake County Public Schools
- Odell Elementary School, Cabarrus County Schools
- Pearson Elementary School, Durham Public Schools
- Pleasant Grove Elementary School, Wake County Public Schools
- Williamsburg Elementary School, Rockingham County Schools
- Woodland Heights Elementary School, Iredell-Statesville Schools
- Stallings Elementary School, Union County Public Schools
- Third Creek Elementary School, Iredell-Statesville Schools



Northside Elementary School



Oakview Elementary School



Brooks Elementary School

- Rocky River Elementary School, Union County Public Schools
- Royal Oaks Elementary School, Cabarrus County Schools
- Cool Springs Elementary School Addition and Renovation, Iredell-Statesville Schools
- Union Grove Elementary School Addition and Renovation, Iredell-Statesville Schools
- Wilburn Elementary School Addition and Renovation, Wake County Public Schools
- Glenwood Elementary School Addition and Renovation, Chapel Hill-Carrboro City Schools
- Cone Elementary School Addition and Renovation, Guilford County Schools
- N.B. Mills Elementary School Addition and Renovation, Iredell-Statesville Schools
- Northwest School of the Arts Addition and Renovation, Charlotte-Mecklenburg Schools
- Harmony Elementary School Addition, Iredell-Statesville Schools
- Scotts Elementary School Addition, Iredell-Statesville Schools
- Spring Creek Elementary School Addition, Wayne County Public Schools
- Merrick Moore Elementary School Renovations, Durham Public Schools
- Brooks Elementary School Renovation, Wake County Public Schools
- Frank Porter Graham Elementary School Renovation, Chapel Hill-Carrboro City Schools
- Carver Heights Elementary School Gym Renovation, Wayne County Public Schools
- Vane Elementary School Gym Renovation, Wake County Public Schools



Bill Laughlin, AIA, REFP — Principal in Charge

Moseley Architects

Bill's practice is exclusively focused on educational facility design. He brings over 26 years of design experience including facility planning, programming, pre-planning, facility and feasibility studies, and the development of educational facility projects at all grade levels and in four states, from South Carolina to Maryland. Bill has served on design teams for more than 110 educational projects.

Relevant Projects

- Kannapolis Middle School, Kannapolis City Schools
- Odell Elementary School, Cabarrus County Schools
- Royal Oaks Elementary School Replacement, Cabarrus County Schools
- Northwest School of the Arts Addition and Renovation, Charlotte-Mecklenburg Schools
- Old Statesville Road Elementary School Evaluation, Charlotte-Mecklenburg Schools
- New Indian Land High School, Lancaster County School District
- New Swansea High School Fine Arts Building and Renovation, Lexington School District Four
- Nation Ford High School Expansion, Fort Mill School District
- Paint Branch High School Modernization, Montgomery County Schools
- Newberry High School 400 Wing Renovation, School District of Newberry County
- High School, City of Harrisonburg Public Schools
- Camden Elementary School, Kershaw County School District
- Lugoff Elementary School, Kershaw County School District
- Watertree Elementary School, Kershaw County School District
- Jackson School, Kershaw County School District
- Stallings Elementary School, Union County Publis Schools
- Harrisburg Elementary School, Lancaster County School District
- Oakridge Elementary School, Clover School District/York District 2
- Language Immersion Academy at Sullivan Middle School, Rock Hill School District 3
- Rock Hill Schools 2015 Bond Program, Rock Hill School District
- Parkland Middle School Modernization, Montgomery County Schools
- Herbert Hoover Middle School Modernization, Montgomery County Schools

Education

Bachelor of Architecture,
1992

Registrations

Architect: NC, SC, VA
LEED Accredited Professional
Recognized Educational
Facility Planner

Affiliations

American Institute of
Architects
Association for Learning
Environments



Kevin McDade, AIA, LEED, AP — Project Manager

Moseley Architects

Kevin has served as a project manager and architect for more than thirty educational facilities. With over 16 years of experience in the design and management of educational facility projects, he has completed new facilities as well as additions and renovations. His responsibilities have included preliminary design, production of working drawings and specifications, cost estimating, field investigations, construction administration and coordination of consultants. Kevin produces well-organized, accurate, and fully coordinated drawings and specifications.

Relevant Projects

- Ragsdale High School, Addition and Renovation, Guilford County Schools
- Northwest School of the Arts Addition and Renovation, Charlotte-Mecklenburg
- Odell Elementary School, Cabarrus County Schools
- New Indian Land High School, Lancaster County School District
- Mooresville High School Addition and Renovation, Mooresville City Schools
- Nation Ford High School, Fort Mill School District
- Nation Ford High School Expansion, Fort Mill School District
- Swansea High School Master Plan, Lexington School District Four
- Swansea High School Roof Replacement, Lexington School District Four
- Camden Elementary School, Kershaw County School District
- Lugoff Elementary School, Kershaw County School District
- Watertree Elementary School, Kershaw County School District
- New Clover Elementary School, Clover School District Two
- Cloverleaf Elementary School, Iredell-Statesville Schools
- Coddle Creek Elementary School, Iredell-Statesville Schools
- Congaree Elementary School Addition and Renovation, Lexington School District Two
- Griggs Road Elementary School, Clover School District Two
- Harrisburg Elementary School, Lancaster County Schools
- New Town Elementary School, Union County Public Schools
- Rocky River Elementary School, Union County Public Schools
- Spring Creek Elementary School Addition, Wayne County Schools
- Stallings Elementary School, Union County Public Schools
- Northside Middle School Renovation, Lexington School District Two

16

Education

Bachelor of Architecture,
2000

Registrations

Architect: NC, SC
LEED Accredited Professional

Affiliations

American Institute of
Architects
U.S. Green Building Council



Craig Dobyns, AIA — Project Manager

Moseley Architects

Craig has 17 years of educational facility planning experience that includes programming, pre-planning, feasibility studies, and the design of numerous educational facility projects. He will assist our team in site surveys, capacity evaluations, and establishing a prioritized improvement plan.

Relevant Experience

- Kannapolis Middle School, Kannapolis City Schools
- Northwest School of the Arts, Charlotte-Mecklenburg Schools
- New Indian Land High School, Lancaster County School District
- Kettle Run High School, Fauquier County Public Schools
- Glen Allen High School, Henrico County Public Schools
- Paint Branch High School Modernization, Montgomery County Schools
- Language Immersion Academy, Rock Hill School District Three
- Rock Hill Schools 2015 Bond Program, Rock Hill School District
- Locust Grove Middle School, Orange County Public Schools
- Skyline Middle School and Smithland Elementary School, City of Harrisonburg Public Schools
- Cedar Lee Middle School Renovation, Fauquier County Public Schools
- Wilbur Pence Middle School Renovation, Rockingham County Public Schools
- Hillyard Middle School Renovation, Rockingham County Public Schools
- Watertree Elementary School Replacement, Kershaw County School District
- Camden Elementary School Replacement, Kershaw County School District
- Lugoff elementary School Replacement,
- Kenneth W. Culbert Elementary School, Loudoun County Public Schools
- Johnson Elementary School, Henrico County Public Schools
- Varina Elementary School Addition, Henrico County Public Schools
- Cub Run Elementary School, Rockingham County Public Schools
- Piney Branch Elementary School, Prince William County Public Schools

Education

Bachelor of Architecture,
1998

Registration

Architect: SC, NC, VA
LEED Accredited Professional

Affiliations

American Institute of
Architects
U.S. Green Building Council



Ashley Dennis, AIA, LEED AP — Design Collaborator

Moseley Architects

Ashley has 12 years of educational facility planning experience that includes programming, pre-planning, feasibility studies, and the design of numerous educational facility projects at all levels. She serves as a operational manager for our educational studio in Raleigh.

Relevant Projects

- Oak Grove Area High School, Davidson County Schools
- Carrboro High School, Chapel Hill-Carrboro City Schools
- Northside Elementary School, Chapel Hill-Carrboro City Schools
- Advanced Career Center, Moore County School
- Chapel Hill High School, Chapel Hill- Carrboro Schools
- Northern High School, Durham County School
- Charles B. Aycock High School Addition/Renovations, Wayne County Schools
- Goldsboro High School Commons Addition, Wayne County Schools
- Culbreth Middle School Structural Improvements, Chapel Hill-Carrboro City Schools
- Dillard Middle School Gymnasium Renovation, Wayne County Schools
- Greene County Middle School Replacement, Greene County Schools
- Elementary School Renovations, Chapel Hill-Carrboro City Schools
- Spring Creek Elementary School Addition, Wayne County Schools
- Union Grove Elementary School Addition and Renovation, Iredell-Statesville
- Carver Heights Elementary School Gymnasium Renovation, Wayne County Schools
- Cool Spring Elementary School Addition and Renovation, Iredell-Statesville Schools
- Facilities Study, Chatham County Schools
- Greene County Intermediate School, Greene County Schools
- District-Wide Facilities Assessment, Chapel Hill-Carrboro City Schools

Education

Bachelor of Architecture,
2005

Registrations

Architect: NC

LEED Accredited Professional

Affiliations

American Institute of
Architects

North Carolina Association
for Learning Environments



Justin Carlson, PE — Mechanical and Plumbing Engineer

Moseley Architects

Justin offers 22 years of experience. His responsibilities include executing calculations and energy modeling, using engineering formulas and skills for heating and cooling loads and equipment sizing. Justin will also research design options and document findings for the project manager

Relevant Projects

- Language Immersion Academy, Rock Hill School District Three
- Ebinport Elementary School Renovation, Rock Hill School District Three
- Camden Elementary School Replacement, Kershaw County School District
- Watertree Elementary School Replacement, Kershaw County School District
- Lugoff Elementary School Replacement, Kershaw County School District
- New Indian Land High School, Lancaster County School District
- Richmond Drive Elementary School Renovation, Rock Hill School District Three
- Oakdale Elementary School Addition and Renovation, Rock Hill School District Three
- Rosewood Elementary School Renovation, Rock Hill School District Three
- Facility Assessment, Alamance-Burlington Schools

Education

Bachelor of Science,
Mechanical Engineering,
1994

Masters of Mechanical
Engineering, 1999

Registrations

Professional Engineer: NC,
SC



William Cary, PE — Electrical Engineer

Moseley Architects

William has over 25 years of experience. His experience includes site investigation, power systems design, communication system design, interior and site lighting design, emergency power systems, and fire alarm system design.

Relevant Projects

- Language Immersion Academy at Sullivan Middle School, Rock Hill School District 3
- St. Matthews and Sandy Run Addition, Calhoun County Public Schools
- Patriot High School, Prince William County Schools
- Washington Henry Elementary School, Hanover County Schools
- Recreation Center, Wingate University
- Beaufort County Courthouse Addition and Renovation, Beaufort County
- New Dining Hall, James Madison University
- Aquatics Center, Northern Virginia Community College

Education

Bachelor of Science, Electrical
Engineering Technology,
1983

Registrations

Professional Engineer: NC,
VA, SC



Steven Cooke, PE —Structural Engineer

Moseley Architects

Steven offers a wide range of experience in projects of varying cost and complexity. Steven is experienced with new construction as well as various rehabilitation and restoration projects, historic preservation, and investigations and condition surveys of existing structures. He will calculate loads and stresses on different parts of a structure and advise on most suitable option. Steve will also inspect unsafe structures and make recommendations for repairs and/or demolition.

Relevant Projects

- Facilities Condition Assessment for 17 Schools, Chatham County Schools
- Apple Valley Middle School and N. Henderson High School Addition and Renovation, Henderson County Public Schools
- Byrd Elementary School Addition, Goochland County Public Schools
- Odell Elementary School, Cabarrus County Schools
- Northwest School of the Arts Addition and Renovation, Charlotte-Mecklenburg Schools
- Oak Grove High School, Davidson County Schools
- Mooresville High School Addition and Renovation, Mooresville Graded School District
- Royal Oaks Elementary School Replacement, Cabarrus County School District
- Kannapolis Middle School, Kannapolis City Schools
- New Clover Elementary School, Clover School District Two
- Clover High School Renovation, Clover School District Two
- Conversion of Clover Middle School to Ninth Grade Academy, Clover School District Two
- Fort Mill Elementary School Entrance Renovation, Fort Mill School District Four
- Glen Allen High School, Henrico County Public Schools
- Griggs Road Elementary School, Clover School District Two
- Harrisburg Elementary School, Lancaster County School
- Heritage High School, Lynchburg City Schools
- New Lancaster Elementary School, Lancaster County School District

Education

Bachelor of Science, Civil Engineering, 2003

Registrations

Engineer: NC, GA, SC, WA
NCEES Certified
LEED Accredited Professional

Affiliations

American Institute of Steel Construction
American Society of Civil Engineers
National Council of Examiners for Engineering & Surveying



John Nichols — Energy Analytics Specialist

Moseley Architects

John serves as our energy analytics specialist on high performance building projects. He has evolved into one of the firm's and the region's resident experts on integrating energy efficient strategies into educational facility designs. John contributes to the building design throughout each stage of a project, from energy modeling analyses in the earliest phases of design to post-occupancy measurement and verification plans. He also assists in the selection of building materials and technologies that improve energy and water efficiency, using a life-cycle framework to minimize both environmental impact and operational costs.

Relevant Experience

- Northside Elementary School, Rock Hill School District 3
- Glenarden Woods Elementary School, Prince George's County Public Schools
- Advanced Career Center, Moore County Schools
- Heritage High School, Lynchburg City Schools
- Huguenot High School, Richmond Public Schools
- Oak Grove High School, Davidson County Schools
- New Indian Land High School, Lancaster County School District
- Glen Allen High School, Henrico County Public Schools
- Baldwin Elementary and Intermediate School, Manassas City Public Schools
- New Middle School, Prince William County Public Schools
- Kannapolis Middle School, Kannapolis City Schools
- LEED Gold Locust Grove Middle School, Orange County Schools
- LEED Silver Holman Middle School, Henrico County Public Schools
- LEED Silver Hunter B. Andrews PK-8, Hampton City Public Schools
- LEED Certified George P. Phenix PK-8, Hampton City Public Schools
- Wayside Elementary School Modernization, Montgomery County Public Schools
- LEED Platinum Northside Elementary School, Chapel Hill-Carrboro City Schools
- Loch Lomond Elementary School Addition and Renovation, Prince William County Public Schools
- LEED Gold Hillandale Elementary School, Henderson County Public Schools
- LEED Gold Mills River Elementary School, Henderson County Public

Education

Bachelor of Science, Biology,
2003

Registrations

LEED Accredited Professional,
2007

Green Classroom
Professional, 2012

Affiliations

US Green Building Council -
Triangle NC Chapter

NC Sustainable Energy
Association

US Green Building Council -
Charlotte NC Chapter

US Green Building Council -
North Carolina Chapter

Zero Energy Commercial
Buildings Consortium



Betsy Woodlief — Interior Designer

Moseley Architects

Betsy collaborates with the client and project team, assisting in developing the design concept. Betsy provides guidance on interior design and space planning. Betsy specifies finishes, materials, and products, as well as fixtures and equipment.

Relevant Experience

- Oakridge Elementary School, Clover School District
- Clover Middle School Conversion to 9th Grade Academy, Clover School District
- Bethel Elementary School Interior Renovation, Clover School District
- Nation Ford High School Expansion, Fort Mill School District
- Northwest School of the Arts Addition and Renovation, Charlotte-Mecklenburg Schools
- Indian Land Middle School Addition and Renovation, Lancaster County School District
- Congaree Elementary School Addition and Renovation, Lexington School District 2
- Royal Oaks Elementary School Replacement, Cabarrus County Schools
- Kannapolis Middle School, Kannapolis City Schools
- Language Immersion Academy at Sullivan Middle School, Rock Hill School District Three
- LCSD Multipurpose and Administration Addition and Renovation, Lancaster County School District

23

Education

Bachelor of Science, Interior Design, 2005

Registrations

NCIDQ

LEED Accredited Professional

Brian Crutchfield, PE, PLS — Principal in Charge

Timmons Group

Brian is the principal in charge for Timmons Group's Charlotte and Greensboro offices. He has almost two decades of experience providing services for public and private clients. Brian's site design and surveying experience includes higher education facilities, K-12 schools, public safety buildings, retail centers, hotels, financial institutions, office and industrial buildings, single and multi-family communities.

Relevant Experience

- Cabarrus County Schools Facility Assessments, Cabarrus County Schools
- Northwest Cabarrus High School Track and Practice Fields, Cabarrus County Schools
- Northwest Cabarrus High School Gym Addition, Cabarrus County Schools
- Odell Elementary School, Cabarrus County Schools*
- Mooresville High School, Mooresville Graded School District*
- Slewyn Elementary School Renovation, Charlotte-Mecklenburg Schools
- Ragsdale High School, Wayne County Public Schools*
- Goldsboro High School, Wayne County Public Schools*
- Charles B. Aycock High School Addition, Wayne County Public Schools*
- Third Creek Elementary School, Iredell-Statesville Schools*
- Chatham Schools Facility Assessment, Chatham County Schools
- Brawley School Road, Mooresville Graded School District
- New Salem Elementary School, Union County Public Schools
- McLeansville Elementary School, Guilford County School District
- Montgomery County High School, Montgomery County Schools
- New Salem Elementary School Addition, Union County School Public Schools

24

Asterisk denotes collaboration with Moseley Architects

Education

Masters of Business
Administration, 2006

Bachelor of Science, Civil
Engineering, 1999

Registrations

Professional Engineer: NC,
VA, TN, WV, SC, GA, KY

Professional Land Surveyor:
NC, VA

Michael Miller, PLS — Survey Project Manager

Timmons Group

Michael is the Charlotte survey group leader for Timmons Group. He has over three decades of experience in land surveying, serving both public and private sector clients throughout the Carolinas. He has extensive experience in providing multiple crew and office staff coordination, management support for projects, cost estimating, and completion and accuracy of all surveys, topographic maps and construction staking.

Relevant Experience

- Ballantyne Elementary School, Charlotte-Mecklenburg Schools
- Mint Hill High School (Rocky River High School), Queens Grant Community School District
- Hough High School, Charlotte-Mecklenburg Schools
- Tuckaseegee Elementary School, Charlotte-Mecklenburg Schools
- Olympic High School, Charlotte-Mecklenburg Schools
- Myers Park High School, Charlotte-Mecklenburg Schools*
- Newell Replacement Elementary School, Charlotte-Mecklenburg Schools*
- Nations Ford Elementary School, Charlotte-Mecklenburg Schools*

Asterisk denotes projects performed prior to joining Timmons Group

25

Education

Bachelor of Science,
Commercial Design, 1986

Registration

Professional Land Surveyor:
NC, SC, GA, FL

Blake Hall, PE, RLA — Landscape Architect

Timmons Group

Blake Hall is a proactive and detail-oriented Civil Engineer and Landscape Architect for our North Carolina offices. Blake has participated in design and construction management for several LEED and sustainable LID projects through North Carolina and Virginia. Blake's attention to the natural surroundings provides for seamless designs which lay on the land in an asthetical and environmentally sensitive manner.

Relevant Experience

- Cabarrus County Schools Facility Assessment, Cabarrus County Schools
- Northwest Cabarrus High School Track and Practice Fields, Cabarrus County Schools
- Northwest Cabarrus High School Gym Addition, Cabarrus County Schools
- Odell Elementary School, Cabarrus County Schools*
- Northside Elementary School, Chapel Hill-Carrboro City School District*
- Chapel Hill-Carrboro City Schools Assessment Study, Chapel Hill-Carrboro City School District*
- Margaret B. Pollard Middle School, Chatham County School District
- Ragsdale High School, Guilford County Schools*
- Cool Springs Elementary School, Iredell-Statesville Schools*
- Douglass Elementary School, Rockingham County Schools*
- Goldsboro High School, Wayne County Public Schools*
- Greene County Intermediate School, Greene County School District*
- Highland Middle School, Harnett County School District

26

Asterisk denotes collaboration with Moseley Architects

Education

Bachelor of Science,
Landscape Architecture,
2003

Registrations

Landscape Architect: NC,
SC, VA

Professional Engineer: NC
LEED Professional

Processes to Engage Board Staff and Other Stakeholders

Gaining consensus is also an integral part of our design process. We propose a series of design workshops to be conducted during the program confirmation and design phases of the project to encourage input from project stakeholders. These workshops have been proven to be successful consensus-building exercises, effectively moving the debate away from questions on “Why are we doing this?”, to “What do we want our school to be, and how can we best educate the children of Transylvania?”

Key members of our design team will collaborate with your personnel to determine your detailed program requirements and design guidelines. This participatory process will lead to a design solution that reflects the particular objectives and culture of Transylvania County. If desired, we can also tour similarly-sized and recently completed projects to explore design features you may want to consider. Historically, these tours help project stakeholders visualize design strategies that may meet their unique needs.

We have outlined a comprehensive approach and work plan that will be refined and tailored to meet your specific needs and objectives.

Scope Definition & Programming

- Meet with the Transylvania County Board of Education (TCBE) to discuss project goals and to begin aligning the project scope with the appropriated funding for the project.
- Meet with the county team to confirm your project program.

27

Design Workshop

- Facilitate design workshops that engage the community, TCBE, and other interested stakeholders, which may include parents, students, teachers, curriculum specialists, administrators, and local business leaders.
- Create the project vision, identifying qualitative goals.
- Work in small groups with the design team; further develop conceptual site and building diagrams to incorporate your educational specifications.
- Present each group’s options to the entire design committee, with common themes identified through consensus of the committee.
- Refine these options and present back to the committee at the end of the second day of the workshop.
- Select one or more of the options for further refinement.
- Conduct follow-up workshop to review the refined site and building plans, and through consensus discussions, select the most appropriate design option.
- Provide minutes from design workshop to the design committee.



Design workshops create the project vision, identify the qualitative goals for the project, and further develop conceptual site and building diagrams.

Community Input (if desired)

- Arrange ongoing meetings to discuss priorities, strategies, goals, and other relevant issues.
- Hold full-public participation input sessions.
- Provide minutes on progress and outcomes to the design committee.
- Develop project budgets.
- Prepare statements of probable cost for construction at the end of each design phase.
- Review total project cost budgets (statement of probable costs for construction plus other project costs).
- Review estimates with TCBE at the conclusion of each design phase.
- Adjust, if necessary, proposed scope and estimates at the end of each design phase.

Environmental Goals

- Discuss any high-performance or sustainability goals with TCBE staff.
- Develop a list of recommended strategies that may be appropriate.
- Develop life-cycle costs for recommended strategies to assist in the decision making process.

28

Finalized Designs

- Develop schematic design and design development documents.
- Incorporate the statement of probable cost into a narrative report at the conclusion of schematic design and design development.
- Present both schematic design and design development to TCBE.
- Develop Construction Documents by utilizing our Building Information Modeling (BIM) software (Revit) that provides for an integrated model of all disciplines, which not only allows for building system conflict resolution during the design process, but also allows for an accurate visualization of the virtual building during the design process. This benefits the TCBE and the Transylvania County community by providing for a virtual, “no-surprise” viewing of proposed designs, which confirms intentions prior to construction.

Bidding

- Develop drawings and construction documents for bidding.
- Prepare and facilitate distribution of bid packages to bidders.
- Attend Pre-Bid meeting.

Moseley was called upon again to design our 12th elementary school.... At the onset, Moseley conducted a visioning and design charette with the community.... Every step of the way, Moseley's representatives worked with our community and stakeholders and listened to our needs.

— Dr. Todd LoFrese,
Assistant Superintendent
for Support Services,
Chapel Hill-Carrboro City
Schools

- Assist TCBE and general contractor in answering bidding questions for sub-contractor bid packages.
- Assist TCBE in the receipt of bids.
- Assist TCBE in the evaluation of bids and in awarding the contract.

Construction Administration

- Provide contract administration services (either basic or full-time) for TCBE.
- Conduct the pre-construction conference.
- Conduct regular project progress meetings.
- Monitor the quality of work.
- Manage the review of RFIs, PCOs, and submittals.
- Review and certify the contractor's requests for payment.
- Prepare punch lists and verify substantial completion
- Assist TCBE and selected general contractor in project close out.
- Prepare record drawings and documents.

Their attention to the details of the process and the involvement of all consultants and user groups has resulted in a design solution the entire community is excited about. We would not hesitate to use Moseley Architects again on any of our projects and I encourage you to consider their services on your project.

— John Birath,
Executive Officer for
Operations,
Moore County Schools

Commitment to
Developing an Energy
Efficient and Health
Building Plan

For more than a decade, we have designed and provided construction administration services for more than 130 projects that have earned or are pursuing LEED certification, which includes our own LEED Platinum Richmond office. We are committed to educating clients about the economic and environmental implication of alternative design approaches so that, together, we can create an aesthetically pleasing and environmentally responsible project.

In-House Sustainability and Energy Analytics Team

Moseley Architects' sustainability team members contribute to the building program from very early design stages so that it cost-effectively adheres to environmentally-sensitive criteria. Our sustainability coordinator will assist in developing sustainable strategies so that project dollars are spent in the most effective way with regard to the projects' high performance goals. The coordinator will also review design decisions from life-cycle perspective to maximize results. On educational projects, our sustainability team works with school curriculum specialists to integrate the sustainable design strategies of the buildings into the academic curriculum and Standard of Learning (SOL) requirements.

Additionally, our energy analytics specialist works with our project manager to establish energy budgets, build massing phase energy models, and run comparative energy model and life-cycle cost assessments for evaluation various design alternatives for envelope, lighting, and HVAC systems.

As part of the schematic design process, our team can create a conceptual energy model, which explores ways to optimize the energy performance of your facilities. This stage of the project is crucial for determining the optimal massing and layout of each building on the project site, as well as the best locations and sizes of glass for daylighting and pas-

30

Northside Elementary School earned LEED platinum certification in 2014.



sive solar design. Modeling programs such as Sefaira Concept will analyze the physical architecture of each building and serve as the basis for investigating strategies to minimize HVAC, lighting, and plug load consumption. This modeling will also support the development of renewable energy systems such as solar hot water and bamboo pellet heating. Our team has successfully used conceptual energy modeling on 16 different projects to date, which has yielded energy savings of up to 40 percent.

Experience with LEED Designs

In addition to our successful history providing public school clients with well-designed schools, our firm is also extremely practiced at designing facilities that can achieve LEED certification and still maintain a project's timeliness and budget. We have found that sustainable design does not necessarily cost more, as long as the sustainable design goals are set early in the design process. Moseley Architects has wholeheartedly embraced the opportunity to provide school systems with facilities that enhance the educational experience by integrating green building practices with traditional aspects of high-quality design. Our experience features more than two dozen schools.

Examples of high performance strategies used in these facilities include:

- reducing water usage through low-flow plumbing fixtures
- incorporating rainwater cisterns to capture and reuse storm water
- using recycled-content and regionally-manufactured materials
- using light roof colors to minimize heat gain
- using efficient HVAC, insulation, glazing, and air barrier system
- using substantial daylighting with a horizontal sun shading system to better direct light and help prevent glare
- requiring enhanced building commissioning to confirm that the building systems operate as intended
- using a geothermal closed loop water source heat pump system
- diverting construction waste from landfills
- using interior materials that contain low levels of volatile organic compounds (i.e., paints, adhesives, carpet, and composite wood materials)
- establishing preferred parking areas for low-emitting and fuel-efficient vehicles
- adhering to clean construction practices
- establishing green cleaning and integrated pest management programs to reduce occupant exposure to hazardous chemicals



LEED Silver Carrboro High School



LEED Platinum Northside Elementary School

Based on all of the data we have been able to collect to-date, we have been able to calculate the following average annual savings our projects have accrued:

- \$4,381,979 (286,232 Million Btu) from energy-efficient design features, an average of 24 percent beyond LEED minimums. Reducing electric and gas usage in this way offsets the energy consumption of 2,495 four-person US households.
- \$62,346,610 gallons of water from low-flow plumbing fixtures and rainwater reuse, an average of 23 percent beyond LEED minimums. Conserving enough water to fill 98 Olympic-size swimming pools, every year.

These projects have also protected the local and global environment by:

- Diverting 114,634 tons of construction waste & demolition debris from local landfills through recycling and reuse, an average per-project diversion rate of 59 percent. This amount would fill 4.35 football fields twenty-feet deep.
- Incorporating an average of 17 percent recycled and 24 percent regional content into the building materials used during construction.

RELEVANT EXPERIENCE

Over our 48-year history, we have earned a reputation for quality, reliability, and responsiveness and have been ranked repeatedly among the top design firms in the nation by *Architectural Record*, *Building Design & Construction*, and *Engineering News-Record*. Our team's extensive history partnering with schools boards and administrators means we understand the challenges you face and work dilligently to overcome those challenges. The subsequent pages feature details on three recent projects that demonstrate our abilities to assist you with your projects.

Oak Grove High School

Project Description

The new 188,000-square-foot Oak Grove High School will serve the communities of two school districts within the county and offer all standard core classes in addition to a wide variety of career technology, performing and visual arts, and computer technology related classes. Specialty spaces will be provided for CTE, culinary arts, health occupations, STEM classroom and lab, and welding classroom and lab. The floor plan will consist of two classroom wings that run perpendicular to the main corridor. The two wings will be two stories and the space connecting these two wings will house the media center on the lower level and the science classrooms on the upper. Outdoor learning spaces increase the flexibility of 21st Century Learning.

Project Team Members

Architect	Moseley Architects
Engineers /Design Professionals	Davis Martin Powell (civil engineering), Consultant Engineering Services (MEP engineering), CLH Design (landscape architecture); Moseley Architects (structural engineering)
Cost Consultant	McDonough Bolyard Peck
Contractor	Samet Corporation

Client Contact Information

Owner	Davidson County Schools
Contact Name	Travis Smith
Address	250 County School Road, Lexington, NC 27293
Telephone Number	(336) 249-8181



Kannapolis Middle School

Project Description	
The new 175,747-square-foot Kannapolis Middle school houses seventh and eighth grade and will serve 1000 students. This project features a courtyard, a two-story media center, and a full auditorium off of the main corridor. There are several project based learning rooms near the media center, which will grant students and teachers flexibility with learning techniques. These spaces include sliding glass doors, which have the option to open up to the corridor off of the main dining area. On each floor, centered between the classroom wings, there is a STEM learning space that consists of an open collaboration studio surrounding a maker studio as well as a STEAM design studio. These spaces serve as flexible and collaborative spaces for students and teachers. Kannapolis Middle School also features an agricultural program featuring several outdoor gardens to grow vegetables. These gardens will be watered with above ground rain water cisterns.	
Project Team Members	
Architect	Moseley Architects
Engineers /Design Professionals	Davis Martin Powell & Associates (civil engineering), Optima Engineering (MEP engineering and fire protection), Food Design and Associates, Inc. (food service), Wave Engineering (acoustician)
Cost Consultant	R.M. Rutherford & Associates
Contractor	Edison Foard
Client Contact Information	
Owner	Davidson County Schools
Contact Name	Will Crabtree
Address	100 Denver Street, Kannapolis, NC 28083
Telephone Number	(704) 938-1131



Ragsdale High School Addition/Renovation

Project Description

Over the course of five decades, Ragsdale High School's enrollment surged while the building's condition deteriorated. By uniting the existing facility with an unoccupied adjacent middle school, Ragsdale High School transformed from a single 110,000-square-foot building into a state-of-the-art complex more than three times its original size. The high school buildings are now joined by an 87,000-square-foot central wing that houses administration, performing arts, a media center, and a spectator gymnasium. The former middle school gymnasium became a dining room and the former dining room became the expanded kitchen. The existing high school's auditorium was modernized and its gymnasium became an auxiliary athletic space. New construction also included a 56,000-square-foot wing to serve as a school for 110 students with autism. The two-story building was designed specifically to accommodate the sensory needs of the students.

Project Team Members

Architect	Moseley Architects
Engineers /Design Professionals	Herbin Design (food service), Optima Engineering (MEP engineering), Timmons Group (civil engineering), CLH Design (landscape architecture)
Cost Consultant	Metts Consulting Company
Construction Manager	Balfour Beatty Construction

Client Contact Information

Owner	Guilford County Schools
Contact Name	Julius Monk
Address	617 West Market Street, Greensboro NC 27402
Telephone Number	(336)-370-3500

