

Sonia M. Sotomayor Learning Academies
Los Angeles, CA



Tab I.

Additional Information

The following Evaluation Criteria are addressed in this section:

9.1.12. Other Relevant Criteria – Any relevant information, included or not included in the proposal, deemed to be in the best interest of the Owner may be evaluated in determining whether or not to accept a Proposer's submission. For example, the evaluation may also consider any additional references or experience with other Falls Church City Public Schools projects when determining acceptability of an applicant.

9.1.13. Optional Information – Information not covered above, that the Proposer deems relevant, may be provided and may be considered by the Owner.

In this section we have provided the following

- Additional information on Turner's K-12 Portfolio
- Additional Information for the Design-Build Team's Experience Together
- All Additional Resumes for the Lead Contractor and Lead Designers of the Design-Build Team
- Additional Subconsultant Information for
 - Rathgeber/Goss Associates, P.C. - Structural Engineer
 - Sustainable Building Partners - Sustainability Consultant

TABLE I-1 LISTING OF TURNER K-12 FACILITY WORK IN THE MID-ATLANTIC REGION

Project	Owner	Current Revenue (\$)	Project Location	
*Coolidge Senior High School	DC Department of General Services		Washington	DC
*Eastern Senior High School Modernizations	DC Department of General Services		Washington	DC
*Phelps Architecture, Construction, and Engineering High School	DC Department of General Services		Washington	DC
*Jefferson-Houston PreK-8th School	Alexandria City School Board		Alexandria	VA
*Friendship Public Charter School Technology Preparatory Academy	Friendship Public Charter School		Washington	DC
James Blair Middle School	Norfolk Public Schools		Norfolk	VA
Stratford Middle School Addition and Renovation	Arlington Public Schools		Arlington	VA
George Washington Middle School	Arlington County Public Schools		Mount Vernon	VA
Francis C. Hammond Middle School	Alexandria City Public Schools		Alexandria	VA
The Collegiate Lower School	The Collegiate Lower School		Richmond	VA
G30 Project	Confidential Client		Washington	DC
On-Call Maintenance/Added Task Orders and MEP Upgrades - Multiple Schools	DC Department of General Services		Washington	DC
Hearst Elementary School	DC Department of General Services		Washington	DC
School Without Walls	DC Department of General Services		Washington	DC
Stanton Elementary School	DC Department of General Services		Washington	DC
Kramer Middle School	DC Department of General Services		Washington	DC
Shepherd Elementary School Phases I,II, and III	DC Department of General Services		Washington	DC
Takoma Education Campus	DC Department of General Services		Washington	DC
John Philip Sousa Elementary School	DC Department of General Services		Washington	DC
Kipp Douglas Campus	DC Department of General Services		Washington	DC
D.C. Playground Improvements - Multiple Schools	DC Department of General Services	Washington	DC	
Paul Public Charter School	DC Department of General Services	Washington	DC	
Langley Education Campus	DC Department of General Services	Washington	DC	

* Denotes Project was showcased in Tab G - Contractors Experience, contract values are escalated to 2018

TABLE I-1 LISTING OF TURNER'S K-12 FACILITY WORK IN THE MID-ATLANTIC REGION (CONT'D)

Project	Owner	Current Revenue (\$)	Project Location	
Bruce Monroe at Parkview	DC Department of General Services		Washington	DC
Southeast Elementary Academy	DC Department of General Services		Washington	DC
Kipp DC Will Academy	DC Department of General Services		Washington	DC
J.O. Wilson Elementary School Renovations	DC Department of General Services		Washington	DC
Truesdell Education Campus Renovation	DC Department of General Services		Washington	DC
Ferebee Hope Elementary School	DC Department of General Services		Washington	DC
Woodridge Elementary and Middle School	DC Department of General Services		Washington	DC
Janney Elementary School Addition	DC Department of General Services		Washington	DC
Two Rivers Public Charter School	DC Department of General Services		Washington	DC
Ballou High School	DC Department of General Services		Washington	DC
Whittier Education Campus	DC Department of General Services		Washington	DC
British International School	DC Department of General Services		Washington	DC
Stanton Elementary School Annex	DC Department of General Services		Washington	DC
Appletree Early Learning Center	DC Department of General Services		Washington	DC
Dunbar High School Turf and Field Revitalization	DC Department of General Services		Washington	DC
Bancroft Elementary School	DC Department of General Services		Washington	DC
Bell-Lincoln Multicultural Middle School	DC Department of General Services		Washington	DC
Houston Elementary School Playground	DC Department of General Services		Washington	DC
Eaton Elementary School Play Area	DC Department of General Services		Washington	DC
D.C. Athletic Field Renovations - Multiple Schools	DC Department of General Services		Washington	DC
Amidon-Bowen Elementary School	DC Department of General Services		Washington	DC
Thurgood Marshall Elementary School	DC Department of General Services		Washington	DC
Bruce-Monroe Elementary School	DC Department of General Services		Washington	DC
Payne Elementary School	DC Department of General Services		Washington	DC

TABLE I-1 LISTING OF TURNER'S K-12 FACILITY WORK IN THE MID-ATLANTIC REGION (CONT'D)

Project	Owner	Current Revenue (\$)	Project Location	
Adams Elementary School	DC Department of General Services		Washington	DC
New Bennings Elementary School - Security Upgrades	DC Department of General Services		Washington	DC
McKinley Technology High School	DC Department of General Services		Washington	DC
Meyer Elementary School	DC Department of General Services		Washington	DC
Lafayette Elementary School	DC Department of General Services		Washington	DC
Tubman Athletic	DC Department of General Services		Washington	DC
Shaed Elementary School	DC Department of General Services		Washington	DC
Malcolm X Elementary School	DC Department of General Services		Washington	DC
H.D. Cooke Elementary School	DC Department of General Services		Washington	DC
Gage Eckington Elementary School	DC Department of General Services		Washington	DC
Eaton Elementary School	DC Department of General Services		Washington	DC
Stuart-Hobson Middle School	DC Department of General Services		Washington	DC
Drew Elementary School	DC Department of General Services		Washington	DC
Webb Elementary	DC Department of General Services		Washington	DC
Walker Jones Education Campus	DC Department of General Services		Washington	DC
Prospect Learning Center	DC Department of General Services		Washington	DC
Mamie D Le School	DC Department of General Services		Washington	DC
Benning Elementary Campus	DC Department of General Services		Washington	DC
C.W. Harris Elementary School	DC Department of General Services		Washington	DC
Seaton Elementary School	DC Department of General Services		Washington	DC
Clark Elementary School	DC Department of General Services		Washington	DC
Garrison Elementary School	DC Department of General Services		Washington	DC
New Beginnings Vocational School	DC Department of General Services		Washington	DC
Murch Elementary School	DC Department of General Services		Washington	DC

TABLE I-1 LISTING OF TURNER'S K-12 FACILITY WORK IN THE MID-ATLANTIC REGION (CONT'D)

Project	Owner	Current Revenue (\$)	Project Location	
Chevy Chase Ball Field	DC Department of General Services		Washington	DC
Roosevelt High School	DC Department of General Services		Washington	DC
Ganton Elementary School	DC Department of General Services		Washington	DC
Palisades Playground	DC Department of General Services		Washington	DC
Sousa Middle School	DC Department of General Services		Washington	DC
Sidwell Friends Campus	DC Department of General Services		Washington	DC
Lyndhurst Elementary School	Baltimore City Public Schools		Baltimore	MD
Arlington Elementary/Middle School	Baltimore City Public Schools		Baltimore	MD
German School of Washington	German School of Washington		Potomac	MD
Hampstead Hill Elementary School	Baltimore City Public Schools		Baltimore	MD
Grace Episcopal Day School	Grace Episcopal Day School		Kensington	MD

TABLE I-2 DESIGN-BUILD TEAM RELEVANT EXPERIENCE TOGETHER

Project Name	Relevancy			Firm Involvement							
	K-12	\$80+	D-B	Lead			Consultants				
				Turner	Architecture, Inc.	Fanning Howey	RDA (Civil)	CMTA (MEP)	RGA (Structural)	SBP	C&W
FEATURED IN PROPOSAL											
Coolidge Senior High School	•	•	•	•	•	•				•	
Phelps AEC High School	•	•	•	•		•					
Eastern Senior High School Modernization	•		•	•		•					
Friendship Public Charter School, Technology Preparatory Academy	•		•	•	•					•	
W.T. Woodson High School	•				•		•		•		
West Springfield High School	•				•		•		•		
ADDITIONAL LOCAL PROJECTS											
British International School of Washington	•		•	•	•	•				•	
Salamander Inn Resort and Spa		•		•	•					•	
Hilton Washington DC National Mall at L'Enfant Plaza		•									
Summerville Assisted Living Facility				•	•					•	
City of Alexandria Department of Health				•	•						
CES-Powerspace				•	•						
Charles E. Smith - EOIR - Phase 1				•	•						
CES - EOIR - Phase 2				•	•						
Washington Mystics Locker Room Renovation				•	•						
Sequoia Plaza Renovation				•	•					•	
Intel Fairfax				•	•						
Mckinley Technical High School				•		•					
Takoma Education Center	•		•	•		•					
Janney Elementary School	•		•	•		•					
2007 Athletic Fields - Replacement of Football Turf and New Track at 6 Schools			•	•		•					

TABLE I-2 DESIGN-BUILD TEAM RELEVANT EXPERIENCE TOGETHER (CONT'D)

Project Name	Relevancy			Firm Involvement									
	K-12	\$80+	D-B	Lead			Consultants						
				Turner	Architecture, Inc.	Fanning Howey	RDA (Civil)	CMTA (MEP)	RGA (Structural)	SBP	C&W		
2008 Athletic Fields - Continuous Improvemebts			•	•		•							
Houston Elementary School, New Playground	•			•		•							
DC Summer Renovation Projects				•		•							
VanNess, Eiot Schools - Hardware Improvements				•		•							
McKinley Technical High School - TV Studio				•		•							
2009 Athletic Fields - 6 Schools				•		•							
Spingarn HS ADA Improvements				•		•							
Graham Road Elementary School, Classroom Addition.	•				•		•			•			
Annandale Terrace Elementary School Classroom Addition and Renovation	•				•		•			•			
Belle View Elementary School, Classroom Addition and Renovation	•				•		•			•			
Terraset Elemenary School Classroom Addition and Renovation	•				•		•			•			
McLean High School, Mechanical Equipment Support.	•				•					•			
Orange Hunt Elementary School, Classroom Addition and Existing Renovation.	•				•		•			•			
Lanier Middle School, Classroom Additions and Renovation.	•				•		•			•			
Riverside Elementary School, Addition and Renovation.	•				•		•			•			
Woodbridge Middle School, Building Renovations.	•				•					•			
Garfield High School, Building Renovations	•				•					•			
Rockledge Elementary School, Addition and Renovation.	•				•					•			
Kerrydale Elementary School, Addition and Renovation.	•				•					•			

TABLE I-2 DESIGN-BUILD TEAM RELEVANT EXPERIENCE TOGETHER (CONT'D)

Project Name	Relevancy			Firm Involvement								
	K-12	\$80+	D-B	Lead			Consultants					
				Turner	Architecture. Inc.	Fanning Howey	RDA (Civil)	CMTA (MEP)	RGA (Structural)	SBP	C&W	
Godwin Middle School- Addition and Renovation.	•				•					•		
Galway Elementary School, Gymnasium and Health Room Additions.	•				•					•		
Sargent Shriver Elementary School, Renovation and Additions.	•				•					•		
Leonardtown Elementary School, Pre-K Classroom Addition.	•				•					•		
Whitemarsh Elementary School, Classroom Addition.	•				•					•		
Town Creek Elementary School, Gymnasium Addition.	•				•					•		
Freedom High	•				•		•					
ADDITIONAL NATIONAL PROJECTS												
Middle School/Princeton High School/Viking Village	•	•		•		•						
Morgan County High School	•					•		•				
Eastview Elementary School Addition/Renovation	•			•		•						
Erievew Elementary School Addition/Renovation	•			•		•						
Redwood Elementary School Addition/Renovation	•			•		•						
Westview Elementary School Addition/Renovation	•			•		•						
Troy Intermediate School Renovation	•			•		•						
Learwood Middle School Addition/Renovation	•			•		•						
Avon Lake High School Additions/Renovations	•			•		•						
H.S. Incorp. of Adden. Items into Drawings & Specs	•			•		•						
Masonry Legal Issues for Avon Lake High School	•			•		•						
Bellevue Elementary School	•			•		•						
School for Creative and Performing Arts	•			•		•						

TABLE I-2 DESIGN-BUILD TEAM RELEVANT EXPERIENCE TOGETHER (CONT'D)

Project Name	Relevancy			Firm Involvement								
	K-12	\$80+	D-B	Lead			Consultants					
				Turner	Architecture, Inc.	Fanning Howey	RDA (Civil)	CMTA (MEP)	RGA (Structural)	SBP	C&W	
Hughes Center Renovation	•			•		•						
New Chase Elementary	•			•		•						
New Winton Montessori School	•			•		•						
Clinton-Massie High School	•			•		•						
Existing PK-8 Additions & Renovations	•			•		•						
Carlisle Elementary School Additions and Renovations	•			•		•						
Smith Elementary School Additions and Renovations	•			•		•						
Woodward Elementary School Additions and Renovations	•			•		•						
Conger Elementary School Additions and Renovations	•			•		•						
Eaton High School	•			•		•						
Hollingsworth East Elementary School Additions & Renovations	•			•		•						
Bruce Elementary School Renovations	•			•		•						
Elgin K-12 School	•			•		•						
Colonel Smith Middle School Complex	•			•		•						
Hilliard Third High School	•			•		•						
Hilliard Bradley High School	•			•		•						
Additions & Renovations to Milford High School	•			•		•						
Oak Hills High School Additions/ Renovations	•			•		•						
Bridgetown Middle School Additions/ Renovations	•			•		•						
Delhi Middle School Additions/ Renovations	•			•		•						
Delshire Elementary School Renovation	•			•		•						
Dulles Elementary School Renovation	•			•		•						
Harrison Elementary School Renovations	•			•		•						

TABLE I-2 DESIGN-BUILD TEAM RELEVANT EXPERIENCE TOGETHER (CONT'D)

Project Name	Relevancy			Firm Involvement								
	K-12	\$80+	D-B	Lead			Consultants					
				Turner	Architecture, Inc.	Fanning Howey	RDA (Civil)	CMTA (MEP)	RGA (Structural)	SBP	C&W	
Oakdale Elementary School Renovations	•			•		•						
Springmeyer Elementary School Renovation	•			•		•						
Olentangy Liberty High School	•			•		•						
Indian Springs Elementary School	•			•		•						
Park Tudor Middle School	•			•		•						
Physical Education Facility (Phase II) - Additions/Renovations	•			•		•						
Diley Middle School	•			•		•						
Heritage Elementary School Renovations	•			•		•						
Pickerington High School North	•			•		•						
St. Henry High School/Middle School Additions & Renovations	•			•		•						
Burkettsville Elementary School - Razing	•			•		•						
Montgomery Elementary School -	•			•		•						
Blue Ash Elementary School	•			•		•						
New Montgomery Elementary School - Redesign	•			•		•						
Troy High School Additions & Renovations	•			•		•						
Concord Elementary School Addition & Renovations	•			•		•						
Forest Elementary School Additions & Renovations	•			•		•						
Van Cleve Elementary School - Elevator Addition	•			•		•						
Upper Arlington High School Renovation	•			•		•						
Hastings Middle School Renovation	•			•		•						
Barrington Elementary School Renovation	•			•		•						
Wickliffe Elementary School Additions/Renovations	•			•		•						
Greensview Elementary School Additions/Renovations	•			•		•						

TABLE I-2 DESIGN-BUILD TEAM RELEVANT EXPERIENCE TOGETHER (CONT'D)

Project Name	Relevancy			Firm Involvement								
	K-12	\$80+	D-B	Lead			Consultants					
				Turner	Architecture, Inc.	Fanning Howey	RDA (Civil)	CMTA (MEP)	RGA (Structural)	SBP	C&W	
Tremont Elementary School Renovation	•			•		•						
Windermere Elementary School Renovation	•			•		•						
Burbank Building Renovation	•			•		•						
Administration Building Renovation	•			•		•						
Wyoming High School Addition/ Renovation	•			•		•						
Wyoming Middle School - Renovations	•			•		•						
Elm Elementary School - Renovations	•			•		•						
Hilltop Elementary School - Renovations	•			•		•						
Vermont Elementary School - Renovations	•			•		•						
Elm Elementary School - Additions/ Renovations	•			•		•						
Turkey Foot Middle School	•			•				•				

Joe Swanson

Project Executive

TURNER CONSTRUCTION COMPANY



EDUCATION

BS, Civil Engineering, Virginia Polytechnic Institute and State University

CONSTRUCTION EXPERIENCE

20 years

LAST EMPLOYER

Turner Construction Company

LAST POSITION

Project Executive

CERTIFICATIONS

LEED AP

Virginia RDL

Maryland Green Card

OSHA- 30 Hour

First Aid/CPR

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

With almost two decades of experience in the construction industry, Joe is one of Turner's premier K-12 education builders. Having worked on all of our larger K-12 school projects in the past 10 years, Joe has developed a unique understanding of school facilities and has a great working relationship with many school districts within the DC Metropolitan Area.

Joe, as Project Executive, is ultimately responsible for all operational planning and financial management activities, and he will ensure that proper resources are dedicated for quality control and effective project management. Joe has great sensitivity to client's needs and incorporates scheduling around neighboring residents and occupants of facilities in order to minimize impacts. He oversees a respected, core group of K-12 project managers and superintendents who strive to maintain a high level of quality, service and dedication to our clients. We believe his value management regarding materials and methods, systems, schedules, labor and a host of other conditions will be beneficial to the contracting, development and ultimately the successful construction of this project.

RELEVANT EXPERIENCE

COOLIDGE SENIOR HIGH SCHOOL WASHINGTON, DC



Project Executive. Turner is providing design-build services for the modernization to the \$135 million, 359,080 SF school in Washington, DC. The scope of work includes renovations to the existing 271,300 SF school originally built in 1940 and the adjoining 190,000 SF activity center built in 1987 to hold over 800 high school students. The scope also includes the addition of a new middle school which will be added to the site, holding over 650 students. The project is designed to achieve LEED Gold Certification and is expected to be completed in time for the Fall 2019 school year.

G30 PROJECT WASHINGTON, DC



Project Executive. This \$150 million project is an adaptive reuse of an 800,000+ SF office building and garage into a high-performance K-12 private school with residence halls and staff apartments neighboring Embassy Row in Washington, DC. The project is expected to break ground in September of 2017 and be completed in August 2019. The Project has been designed to achieve LEED Gold Certification.

EASTERN SENIOR HIGH SCHOOL WASHINGTON, DC



Project Manager. This project consisted of the total interior demolition and hazardous materials abatement; with new construction foundations, sheeting/shoring, and underpinning occurring within the foot print of the facility. The new construction included two new interior 3- story atriums with 6' ficus trees and landscaped planting, performing arts stages and state-of-the-art electronics. The renovation was accomplished by selective demolition, leaving only the building facade and structure with a few historic interior architecture features. LEED Silver was targeted, however, it achieved Gold.

RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

Joe Swanson

Project Executive cont'd

PHELPS ARCHITECTURE, CONSTRUCTION AND ENGINEERING HIGH SCHOOL



WASHINGTON, DC

Project Manager. Phelps Engineering Academy consisted of 140,000 SF of fast-track new campus style construction and renovation. This design-build project, was a phased modernization of three previously abandoned school buildings, and addition of a new administrative building with a Welcome Center. Construction on all phases ran simultaneously. The new academy also included high-bay construction trades, engineering training laboratories, 24 classrooms, a gymnasium, auditorium, a full service kitchen, cafeteria, art classroom, offices, conference rooms, a cistern, a greenhouse, horticulture labs, and science laboratories.

SCHOOL WITHOUT WALLS WASHINGTON, DC



Project Manager. This project entailed design development through completion and turnover for the design-build of the existing 38,000 SF facility of the original Grant School building, built in the 1800's. This historic brick and wood framed structure underwent a total interior demolition and renovation. This brick and frame structure required new finishes throughout and replacement of existing mechanical, electrical, plumbing, life safety and systems in order to adhere to current building codes and standards. New construction included an "L" shaped building surrounding the east and south sides of the building. The total building area, including the historic portions and the modern new addition, totaled 75,000 SF. The new addition was built on a tight site in Foggy Bottom on the campus of George Washington University. The existing building foundation received underpinning and bracket piles to stabilize the foundation. Additionally, BIM was used for trade coordination and schedule control. Upon completion, the project achieved LEED Gold Certification.

JEFFERSON HOUSTON PREK - 8 SCHOOL



ALEXANDRIA, VA

Project Executive. This project was a 124,000 SF school built adjacent to the existing Jefferson-Houston School in historic downtown, Alexandria, Virginia. The new facility houses 700-800 students in an innovative 21st century learning environment incorporating energy efficient equipment and the latest technological advancements while simultaneously preserving the historic architecture of the facility. Designed with a focus on STEAM (Science, Technology, Engineering, Arts, and Mathematics), the facility featured a white box theater and media center. New sports fields and play areas were installed in the place of the existing school. Upon completion, the project achieved LEED Gold Certification.

JANNEY ELEMENTARY SCHOOL

WASHINGTON, DC



Senior Project Manager. The Janney Elementary School Addition, a design-build project for the Department of General Services in Washington, DC, included a new 2-story addition atop an existing 1-story addition to Janney Elementary School. The existing addition was constructed in 2011 as part of a larger modernization effort. The new, 2-story addition was 9,012 SF and duplicated three Pre-K classrooms on top of an existing single-story wing of the school. The project also included MEP upgrades and the relocation of the equipment to the roof.

LYNDHURST ELEMENTARY SCHOOL RENOVATION AND ADDITION BALTIMORE, MD



Project Executive. The project included restoring 15,000 SF of the original 1926 building and constructing a new 90,000 SF addition forming the new academic wing, gymnasium, cafeteria and kitchen. The existing building was restored to serve the administrative offices, community spaces, and media center. The school addition serves students in Pre-K through eighth grade. Site work included the construction of a new multi purpose playing field, new playgrounds, athletic courts, a parking lot, and other site enhancements. The project was completed on-time and on-budget.

PRINCE GEORGE'S COMMUNITY COLLEGE QUEEN ANNE PERFORMING ARTS CENTER LARGO, MD



Project Executive. Turner is providing a 33,455 SF renovation and 136,545 SF addition, which will transform the existing 1960's-era Queen Anne Fine Arts Building into a new state of the art educational facility serving both the College and the greater community of Prince George's County. These new spaces will improve the curriculum's of Music, Theatre, Speech, and Mass Communications. Beyond needed offices and classrooms, the renovated Queen Anne building will feature the 759-seat (renovated) Hallam Theatre, a 304 seat Proscenium Theatre, a 152-seat Blackbox Studio, Recital Hall, Instructional Theatre and Entertainment Technology Labs, Instructional Conference spaces, Mass Communications Broadcast and Production Labs, Music rehearsal spaces, Dance studios, an Art Gallery, and a Cafe.

Joe Swanson

Project Executive cont'd

SOUTHWEST LIBRARY WASHINGTON, DC

Project Executive. Turner, in association with Perkins + Will, are delivering the replacement Southwest Library, located at 900 Wesley Pl, SW, Washington DC in the newly revitalized Southwest waterfront neighborhood of DC. Turner is tasked with developing a design and constructing a state-of-the art, high performance facility on the same site of the existing library, which opened in 1965. Part of the scope includes construction of a temporary library facility while the existing structure is razed. The Southwest Library shall be designed to maximize site responsiveness, energy and water conservation strategies, include both passive and active systems to reducing energy need, and solar photovoltaic panels or other on-site energy generation.



2: a steel framed addition to the original building (3-story add on, plus a one story wing, 21,000 SF), demo of the annex (which Turner had previously renovated), and inclusion of site work (new tie-ins for domestic & fire water, parking lot, landscaping, SWM system, etc.). The building addition was completed at the end of December 2015. Substantial completion for Phase 2 sitework was completed in December of 2016.

SHEPHERD ELEMENTARY SCHOOL

PHASES I, II AND III WASHINGTON, DC

Project Executive. This project included a \$30 million complete renovation and addition to the school that consisted of the modernization of (3) existing buildings (27,367 SF) constructed in 1931, 1956 and 1970 (expansion of 22,985 SF). The three phased project started in summer 2013 and has been under construction since running concurrent with school activities. Phase I modernization scope entailed excavating the unfinished basement in the 1931 building to be used for new facilities such as a mechanical room, IT closet, language classrooms, media center and a computer lab. Additionally, it consisted of the construction of a new kindergarten playground, right-sizing of classrooms, new HVAC systems, installation of new lighting fixtures, new ceilings, new flooring and new classroom furniture. Phases 2 and 3 consisted of IT upgrades, including an intercom system, intrusion detection system, smartboards, wireless data drops and sound enhancement systems in the classrooms. New roofing and MEP upgrades were also included. This project is set to achieve LEED Gold Certification.



STANTON ELEMENTARY SCHOOL ANNEX

WASHINGTON, DC

Senior Project Manager. This project was a 14,000 SF fast-track design-build renovation and fitout of the existing annex adjacent to the existing Stanton Elementary School in Southeast, Washington, DC. The original annex was converted into 8 large classrooms, 11 individual restrooms, a welcome center, a community circle, offices, a kitchenette, and a mechanical room. The majority of the work required selective interior demolition and follow on fit-out work, including new interior walls, finishes, ADA compliant restrooms, plumbing, sprinkler, fire alarm, new doors and door hardware, new HVAC equipment and piping, furniture, low-voltage IT data cabling and infrastructure, electrical equipment and fixtures, and new windows. This work was completed in two months and completed on-time to allow for the students to begin the school year in the renovated classrooms.



STANTON ELEMENTARY SCHOOL

PHASE I AND PHASE II WASHINGTON, DC

Project Executive. This \$34 million phased renovation & addition included a complete gut of the existing school (62,000 SF, concrete framed building) including re-sizing of classrooms as well as the hallways, restrooms, lobby and entrances in Phase 1. Work also included the replacement of windows, exterior doors, roof, mechanical system, electrical upgrade and life safety systems throughout the existing structure. This extensive work took place in 56 days over the school summer break in 2014. Turner, due to their performance on Phase 1, was awarded additional work, Phase



PRINCE GEORGES COMMUNITY COLLEGE - CENTER FOR HEALTH STUDIES LARGO, MD

Project Manager. This project involved the construction of a 3-story structural steel building with a mechanical penthouse and 112,000 SF of laboratory, classroom and collaboration space, as well as the demolition of an existing building. The new building includes 25,000 SF of classroom space including 10 smart classrooms, a smart-tiered lecture classroom, 26 state-of-the-art simulation labs, a computer lab, and 71 faculty, staff and administrative offices. Additionally, three conference rooms, a 2,000 SF auditorium and a technology data center are included in the building and serve the entire campus. The building's structure required auger-case pile foundations and a slab-on-grade. The exterior is a steel structure with a facade comprised of metal panels, glazing, curtain-wall and brick.

Ty Pate

Lead Estimator

TURNER CONSTRUCTION COMPANY



EDUCATION

MS, Electrical Engineering, Old Dominion University 2002

BS, Electrical Engineering, Old Dominion University

CONSTRUCTION EXPERIENCE

15 years

LAST EMPLOYER

Turner Construction Company

LAST POSITION

Lead Estimator

CERTIFICATIONS

OSHA, 30-Hour

First Aid/CPR

LEAN Construction

EPA Stormwater Pollution Prevention

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

Ty, has been one of Turner's most prestigious K-12 education Preconstruction Managers for the last 14 years. Ty brings experience with successful design-build delivery, including projects that have been completed on a fast track basis.

Ty will support the design-build team throughout all of the required preconstruction deliverables. Ty possesses immeasurable experience working closely with Owners and Architects. Doing so, allows him to ensure budget, schedule and design objectives are aligned. He is able to reach these goals with support from his team of estimators who develop preliminary cost estimates, perform schedule analyses, constructability reviews, value engineering and track current cost trends using a database of historical information. Ty and his preconstruction team will use BIM to validate estimates as drawings progress, and use trade contractors to validate the cost estimates for this project. Lastly, Ty will work closely with Brad Schulz, the Design/Build PM.

RELEVANT EXPERIENCE

COOLIDGE SENIOR HIGH SCHOOL WASHINGTON, DC

Preconstruction Manager/Estimator. Turner is providing design-build services for the modernization to the \$135 million, 359,080 SF school in Washington, DC. The scope of work includes renovations to the existing 271,300 SF school originally built in 1940 and the adjoining 190,000 SF activity center built in 1987 to hold over 800 high school students. The scope also includes the addition of a new middle school which will be added to the site, holding over 650 students. The project is designed to achieve LEED Gold Certification and is expected to be completed in time for the Fall 2019 school year.



G30 PROJECT WASHINGTON, DC

Preconstruction Manager/Estimator. This \$150 million project is an adaptive reuse of an 800,000+ SF office building and garage into a high-performance K-12 private school with residence halls and staff apartments neighboring Embassy Row in Washington, DC. The project is expected to break ground in September of 2017 and be completed in August 2019. The Project has been designed to achieve LEED Gold Certification.



EASTERN SENIOR HIGH SCHOOL WASHINGTON, DC

Preconstruction Manager/Estimator. This project consisted of the total interior demolition and hazardous materials abatement; with new construction foundations, sheeting/shoring, and underpinning occurring within the foot print of the facility. The new construction included two new interior 3-story atriums with 6' ficus trees and landscaped planting, performing arts stages and state-of-the-art electronics. The renovation was accomplished by selective demolition, leaving only the building facade and structure with a few historic interior architecture features. LEED Silver was targeted, however, it achieved Gold.



RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

Ty Pate

Lead Estimator cont'd

PHELPS ARCHITECTURE, CONSTRUCTION AND ENGINEERING HIGH SCHOOL



WASHINGTON, DC

Preconstruction Manager/Estimator. Phelps Engineering Academy consisted of 140,000 SF of fast-track new campus style construction and renovation. This design-build project, was a phased modernization of three previously abandoned school buildings, and addition of a new administrative building with a Welcome Center. Construction on all phases ran simultaneously. The new academy also included high-bay construction trades, engineering training laboratories, 24 classrooms, a gymnasium, auditorium, a full service kitchen, cafeteria, art classroom, offices, conference rooms, a cistern, a greenhouse, horticulture labs, and science laboratories.

SCHOOL WITHOUT WALLS WASHINGTON, DC



Preconstruction Manager. This project entailed design development through completion and turnover for the design-build of the existing 38,000 SF facility of the original Grant School building, built in the 1800's. This historic brick and wood framed structure underwent a total interior demolition and renovation. This brick and frame structure required new finishes throughout and replacement of existing mechanical, electrical, plumbing, life safety and systems in order to adhere to current building codes and standards. New construction included an "L" shaped building surrounding the east and south sides of the building. The total building area, including the historic portions and the modern new addition, totaled 75,000 SF. The new addition was built on a tight site in Foggy Bottom on the campus of George Washington University. The existing building foundation received underpinning and bracket piles to stabilize the foundation. Additionally, BIM was used for trade coordination and schedule control. Upon completion, the project achieved LEED Gold Certification.

STANTON ELEMENTARY SCHOOL

PHASE 1 & PHASE 2 WASHINGTON, DC



Preconstruction Manager. This \$34 million phased renovation & addition included a complete gut of the existing school (62,000 SF, concrete framed building) including re-sizing of classrooms as well as the hallways, restrooms, lobby and entrances in Phase 1. Work also included the replacement of windows, exterior doors, roof, mechanical system, electrical upgrade and life safety systems throughout the existing structure. This extensive work took place in 56 days over the school summer break in 2014. Turner, due to their performance on Phase 1, was awarded additional work, Phase 2: a steel framed addition to the original building (3-story add on, plus a one story wing, 21,000 SF), demo of the annex (which Turner had previously renovated), and inclusion of site work (new tie-ins for domestic & fire water, parking lot, landscaping, SWM system, etc.). The building addition was completed at the end of December 2015. Substantial completion for Phase 2 sitework was completed in December of 2016.

JEFFERSON HOUSTON PREK - 8 SCHOOL

ALEXANDRIA, VA



Project Executive. This project was a 124,000 SF school built adjacent to the existing Jefferson-Houston School in historic downtown, Alexandria, Virginia. The new facility houses 700-800 students in an innovative 21st century learning environment incorporating energy efficient equipment and the latest technological advancements while simultaneously preserving the historic architecture of the facility. Designed with a focus on STEAM (Science, Technology, Engineering, Arts, and Mathematics), the facility featured a white box theater and media center. New sports fields and play areas were installed in the place of the existing school. Upon completion, the project achieved LEED Gold Certification.

RIDGE ROAD RECREATIONAL CENTER WASHINGTON, DC



Preconstruction Manager. The Ridge Road Recreation Center project consisted of demolishing the existing play structures, renovating the existing pool house and construction of a 19,500 SF of new recreation center and site improvements. The new structure includes a gym, multipurpose rooms, classrooms, a computer lab, swimming pool, locker and fitness rooms, commercial grade kitchen and senior lounge. Outdoor facilities included a parking lot, basketball courts, updating age appropriate playground equipment, and landscaping. Additionally, this project was designed for LEED Silver certification. Renovations to the pool house included a new pump house enclosure.

Ty Pate

Lead Estimator cont'd

STANTON ELEMENTARY SCHOOL ANNEX

WASHINGTON, DC



Preconstruction Manager. This project was a 14,000 SF fast-track design-build renovation and fitout of the existing annex adjacent to the existing Stanton Elementary School in Southeast, Washington, DC. The original annex was converted into 8 large classrooms, 11 individual restrooms, a welcome center, a community circle, offices, a kitchenette, and a mechanical room. The majority of the work required selective interior demolition and follow on fit-out work, including new interior walls, finishes, ADA compliant restrooms, plumbing, sprinkler, fire alarm, new doors and door hardware, new HVAC equipment and piping, furniture, low-voltage IT data cabling and infrastructure, electrical equipment and fixtures, and new windows. This work was completed in two months and completed on-time to allow for the students to begin the school year in the renovated classrooms.

Mike Whearty

Director of Technical Services

TURNER CONSTRUCTION COMPANY



EDUCATION

MS, Construction Engineering & Management, University of Maryland

BS, Civil Engineering, Villanova University

CONSTRUCTION EXPERIENCE

32 years

LAST EMPLOYER

Turner Construction Company

LAST POSITION

Director of Technical Services

CERTIFICATIONS

Design Build Institute of America (DBIA)

OSHA 30-Hour

OSHA 10-Hour

First Aid/CPR

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

RELEVANCY LEGEND

-  Over \$80 million
-  Design-Build
-  K-12 Facility
-  Team Experience Working Together

PROJECT RESPONSIBILITIES

Mike, as Director of Technical Services will be responsible for the conceptual, re-evaluation, and final estimating services required by the project team. Mike will be responsible for oversight of all estimating and procurement operations throughout Virginia, Maryland and DC. Working with the leads for Preconstruction and Procurement, Mike will be responsible for coordination of resources for estimating and procurement work. He will also continue to lead preconstruction efforts for specific projects.

RELEVANT EXPERIENCE

COOLIDGE SENIOR HIGH SCHOOL WASHINGTON, DC



Preconstruction Manager/Estimator. Turner is providing design-build services for the modernization to the \$135 million, 359,080 SF school in Washington, DC. The scope of work includes renovations to the existing 271,300 SF school originally built in 1940 and the adjoining 190,000 SF activity center built in 1987 to hold over 800 high school students. The scope also includes the addition of a new middle school which will be added to the site, holding over 650 students. The project is designed to achieve LEED Gold Certification and is expected to be completed in time for the Fall 2019 school year.

G30 PROJECT WASHINGTON, DC



Director of Technical Services. This project is an adaptive reuse of an 800,000+ SF office building and garage into a high-performance K-12 private school with residence halls and staff apartments neighboring Embassy Row in Washington, DC. The project is expected to break ground in September of 2017 and be completed in August 2019. The Project has been designed to achieve LEED Gold Certification.

EASTERN SENIOR HIGH SCHOOL WASHINGTON, DC



Director of Technical Services. This project consisted of the total interior demolition and hazardous materials abatement; with new construction foundations, sheeting/shoring, and underpinning occurring within the foot print of the facility. The new construction included two new interior 3- story atriums with 6' ficus trees and landscaped planting, performing arts stages and state-of-the-art electronics. The renovation was accomplished by selective demolition, leaving only the building facade and structure with a few historic interior architecture features. LEED Silver was targeted, however, it achieved Gold.

PEHELPS ARCHITECTURE, CONSTRUCTION AND ENGINEERING

HIGH SCHOOL WASHINGTON, DC



Director of Technical Services. Phelps Engineering Academy consisted of 140,000 SF of fast-track new campus style construction and renovation. This design-build project, was a phased modernization of three previously abandoned school buildings, and addition of a new administrative building with a Welcome Center. Construction on all phases ran simultaneously. The new academy also included high-bay construction trades, engineering training laboratories, 24 classrooms, a gymnasium, auditorium, a full service kitchen, cafeteria, art classroom, offices, conference rooms, a cistern, a greenhouse, horticulture labs, and science laboratories

Mike Whearty

Director of Technical Services cont'd

D.C. UNITED AUDI FIELD WASHINGTON, DC

Director of Technical Services. This Project is a 360,000 SF soccer stadium for the D.C. United Soccer Team. The stadium will be located on a 13-acre parcel on Buzzard Point in southwest D.C. The stadium is expected to include an initial capacity of 20,000 seats. Premium amenities shall include 20-24 suites, 1,500 club seats, and two clubs/lounge areas for total capacity of 750-1,000. Additional facilities will include a team store, merchandise stands, one restaurant/bar, and concessions facilities.



CONRAD HILTON CITY CENTER DC WASHINGTON, DC

Director of Technical Services. This project is being constructed in portions as follows: Portion (1) Ground level entrances and lobby of approximately 10,000 GSF (2) Below grade ballrooms, conference rooms, parking, and back-of-house of approximately 204,000 GSF (3) Levels 3 through 11 of the Project containing approximately 260,000 GSF of hotel main lobby, restaurants, spa/fitness, hotel amenities, and 361 hotel rooms, ballrooms, and conference rooms. Ground level and Level 2 will contain approximately 75,000 GSF of retail shell space. Additional above grade landscaping and hardscaping of the surrounding streets, alleys, and sidewalks are also included in the scope of work. This element will contain approximately 20,000 GSF of new construction plus protection and the renovation of existing surface pavings, walks, and parks.



JEFFERSON HOUSTON PRE-K- 8 SCHOOL

ALEXANDRIA, VA

Director of Technical Services. This project was a 124,000 SF school built adjacent to the existing Jefferson-Houston School in historic downtown, Alexandria, Virginia. The new facility houses 700-800 students in an innovative 21st century learning environment incorporating energy efficient equipment and the latest technological advancements while simultaneously preserving the historic architecture of the facility. Designed with a focus on STEAM (Science, Technology, Engineering, Arts, and Mathematics), the facility featured a white box theater and media center. New sports fields and play areas were installed in the place of the existing school. The project achieved LEED Gold Certification.



THE NEW SIBLEY AT SIBLEY MEMORIAL HOSPITAL

WASHINGTON, DC

Director of Technical Services. This 469,000 GSF, 7-story Sibley Hospital includes 200 private patient rooms with shell space for a 48-bed expansion, 100 medical/surgical suites, 44 ICU rooms and connects to the existing building by a walkway. Pre and Post-Partum facilities included room for over 4,500 newborn deliveries, a special care nursery, 50 post-partum rooms, 18 new labor, delivery & recovery suites, 3 new "C-Section" rooms, an 18-bay special care nursery. A new medical oncology and 35-bay infusion center complement the Radiation Oncology Center. The project also included a new decontamination facility, inpatient pharmacy and an expanded emergency department sized for 45,000 projected visits. The ED has new treatment bays including a new fast-track area and new waiting areas. The hospital is designed to achieve LEED Silver Certification.



FORT BELVOIR COMMUNITY HOSPITAL FORT BELVOIR, VA

Director of Technical Services. Turner provided preconstruction and construction management services for this state-of-the-art six-story, multipurpose facility for engineering, research, and development containing offices, a broad range of laboratory and support spaces. Other special components of the building are a include an operations center, disaster recovery center, conference center, computer laboratory, classrooms, food service cafeteria, fitness center, recreation center, and medical clinic. The building also includes a 2-story connecting bridge to an adjacent building.



3 WHITE FLINT NORTH (3WFN) BETHESDA, MD

Director of Technical Services. This project consisted of a new 660,000 SF build-to-suit office building and tenant fit-out for the Nuclear Regulatory Commission. Project is LEED-NC® Silver certified and complies with security requirements for a level IV facility under the ISC Security Standards for leased space. Adjacent to the White Flint Metro Station, the project consists of 14 office levels and 5 underground parking levels.



Ken White

VP, Coordination/Specifications

ARCHITECTURE, INCORPORATED



EDUCATION

B. Arch., Architecture, Virginia Tech

EXPERIENCE

30 years

LAST EMPLOYER

Architecture, Incorporated

LAST POSITION

Project Manager

CERTIFICATIONS

American Institute of Architects (AIA), Associate Member

Virginia Educational Facilities Planners (VEFP)

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design

PROJECT RESPONSIBILITIES

As a partner at Architecture, Inc. with over 30 years of architectural experience, Ken is responsible for developing schematic design, managing contract documents, administering construction, and overseeing project coordination as well as maintaining the highest level of quality throughout the office. He has detailed experience with new elementary schools, as well as renovations and additions to existing elementary schools, middle schools, and high schools. Mr. White's talents are focused on meeting the needs of each and every client.

RELEVANT EXPERIENCE

FRIENDSHIP PUBLIC CHARTER SCHOOL WASHINGTON, DC

Quality Assurance. Delivered via design-build with Turner Construction, The Friendship Charter located in Washington, DC, underwent major transformations that underscored their presence within the community. The new building houses six grades and features three levels of education space totaling 80,630 SF, supporting the 600 student population. Comprising 27 classrooms, this technical school contains a cafeteria, engineering/robotics lab, computer lab, chemistry lab, a physics lab and underground parking. The school required several multi-function spaces and conference-type spaces to accommodate an education philosophy that provides students with many hands on applications and learning environments. The spaces are envisioned as collegiate in feel providing various locations for the students to congregate and peer learn in a comfortable atmosphere. The project is LEED Gold certified.



WEST SPRINGFIELD HIGH SCHOOL WEST SPRINGFIELD, VA

Quality Assurance. The project is a comprehensive 288,000 SF renovation to the existing building. Additions totaling 109,000 SF include a new science wing constructed as a new third floor, administration, library, classrooms, and Music Department wing. The main gym is being enlarged to accommodate additional bleachers and an additional exercise room. Several spaces including the weight, gymnastics, dance, and art rooms will be housed within the existing building, however the existing roof structure will be removed and replaced with a higher structure to provide greater room volume. Site work includes reorganizing traffic flow and parking to provide better on-site circulation. Two new press boxes and a combined central concessions/ storage/ restrooms building round out the project. Construction is scheduled to be completed in 2019.



RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

Ken White

VP, Coordination/Specifications cont'd

W.T. WOODSON HIGH SCHOOL FAIRFAX, VA

Quality Assurance. The project consisted of a comprehensive renovation to the 301,000 SF school, and additions totaling 105,000 SF. Additions include Fairfax County Public School's largest auditorium, capable of seating all 2,000 of the school's students, as well as a new science classroom wing, weight room, administration wing, gymnastics dance studio and locker rooms. The additions along the front facade are punctuated with brick, precast and glass on a grand scale to pronounce the main and secondary entries and primary public venues. Existing playing fields, stadium and multiple press boxes were all renovated and/or newly constructed. All portions of the school were renovated including the media center, two gymnasiums, two cafeterias and an adult education center. All mechanical, electrical and sprinkler systems were upgraded during the complex, 36-month phasing of the project.



WEST POTOMAC HIGH SCHOOL ALEXANDRIA, VA

Quality Assurance. West Potomac High School was a five-phase addition and renovation project completed over three years. The project scope consisted of the complete renovation of 337,000 SF of existing facilities and the new 54,000-SF addition. All educational program spaces were evaluated for conformance with the education specification standards. Technology in the classroom was expanded and enhanced by a fiber-optic network. The library was replaced with a modern media center thus establishing a focal point for the school. All interior finishes have been renovated to include new paint, acoustic ceilings, ceramic tile, carpet, etc. All areas of the school comply with ADA standards, and the mechanical systems were replaced with modern, energy efficient systems.



GARFIELD HIGH SCHOOL WOODBRIDGE, VA

Quality Assurance. This project was the renewal of a 373,000 SF high school. Interactive, individual classrooms were created by enclosing the open teaching pods. All new rooms were furnished with casework, visual display boards and upgraded finishes. The work and family studies, art and science labs received specialized casework along with new finishes. Accessibility upgrades were made throughout the facility including all doors and hardware, locker showers and toilet rooms. The existing mechanical system duct work was reworked to serve the new areas as well. The existing electrical system was modified to provide the power and lighting conforming with the current standards. New data lines, TV cable, fire alarm, clocks, intrusion alarm and public address systems were included in the project.



LOUDOUN VALLEY HIGH SCHOOL PURCELLVILLE, VA

Principal-in-Charge/Project Manager. Master planning and schematic design concepts for the proposed renovations and additions to the school's athletic facilities. The design for the comprehensive renovations and additions to the building based athletic program areas includes: revised circulation to the main gym, locker room renovations, weight room addition, wrestling room addition, expanded athletic storage areas and ADA access to the cheerleading mezzanine. Renovations and additions to the remainder of the building include window replacements, electrical and mechanical system upgrades, orchestra addition, auditorium storage addition, auditorium dressing rooms addition, restroom renovations and teacher workroom renovations. The design team's efforts included design and coordination of LCPS program requirements and LVHS design requirements, as well as creation of master planning designs. The final design solution for the site and building were presented to, and approved by, LCPS and LVHS.



Ken White

VP, Coordination/Specifications cont'd

PARK VIEW HIGH SCHOOL STERLING, VA



Principal-in-Charge/Project Manager. This project included the creation of a new black box theater with supporting spaces to enhance the Park View High School Drama Department's educational capabilities. The 1,840 SF addition consists of a masonry bearing structure complimented by a CMU-backed brick façade to match the existing facility's architectural character. The addition incorporated two new entrances with one specifically dedicated to the Black Box and one providing access to and from the Drama Department corridor within the existing building. The project also included limited alterations within the existing facility such as comprehensive bleacher replacement to better equip the school's main gymnasium. Construction was completed in the fall of 2014.

WOODGROVE HIGH SCHOOL PURCELLVILLE, VA



Principal-in-Charge/Project Manager. Construction of the new Woodgrove High School in Purcellville, VA sparked the need for two new press boxes and a ticket booth to accompany the school's new baseball and softball fields. The two-story press boxes were designed to complement the school's architectural character and to provide a commanding view of the athletic action on the fields. The upper levels provide spacious accommodations for members of the press and the game announcers as well as providing a central control hub for the sound system and game scoring. The lower levels provide athletic storage for each of the teams.

LANIER MIDDLE SCHOOL FAIRFAX, VA



Project Manager. Lanier Middle School was an existing 117,000 SF school with a capacity of 850 students, yet, prior to renovations and additions, the school housed 1,000 students. The design team's mission was to create an environment that would allow the school to team-teach in "houses" and to expand the school to a true capacity of 1,125 students. The project comprised 70,000 SF of additions including: administration, media center, core classrooms, music rooms and a new gymnasium. The project also included comprehensive renovations to update the existing facility and provided new casework, doors and hardware, lockers, windows, roof, and finishes. The building's infrastructure was replaced to facilitate energy efficient and economical operation of the building systems. Low voltage systems were also comprehensively renovated to enhance the learning environment by including a state-of-the-art IT backbone and supporting hardware.

Elizabeth Paradine, AIA, LEED AP

Project Designer

ARCHITECTURE, INCORPORATED



EDUCATION

B. Arch., Architecture, Virginia Tech

EXPERIENCE

25 years

LAST EMPLOYER

Architecture, Incorporated

LAST POSITION

Project Designer

CERTIFICATIONS

Registered Architect

American Institute of Architects

(AIA), Professional Member

LEED Accredited Professional

Association for Learning

Environments (A4LE)

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design

PROJECT RESPONSIBILITIES

As a Project Designer, Liz manages the design through construction phases for renovation projects. Ms. Paradine provides experience in complex construction from preliminary design through construction phases, as well as construction administration for several historic renovations. Liz works closely with the engineering consultants, construction professionals, and owners to effectively coordinate projects with the Principal-in-Charge.

RELEVANT EXPERIENCE

FRIENDSHIP PUBLIC CHARTER SCHOOL WASHINGTON, DC

Project Designer/Manager. Delivered via design-build with Turner Construction, The Friendship Charter located in Washington, DC, underwent major transformations that underscored their presence within the community. The new building houses six grades and features three levels of education space totaling 80,630 SF, supporting the 600 student population. Comprising 27 classrooms, this technical school contains a cafeteria, engineering/robotics lab, computer lab, chemistry lab, a physics lab and underground parking. The school required several multi-function spaces and conference-type spaces .



WEST SPRINGFIELD HIGH SCHOOL WEST SPRINGFIELD, VA

Project Architect. The project is a comprehensive 288,000 SF renovation to the existing building. Additions totaling 109,000 SF include a new science wing constructed as a new third floor, administration, library, classrooms, and Music Department wing. The main gym is being enlarged to accommodate additional bleachers and an additional exercise room. Several spaces including the weight, gymnastics, dance, and art rooms will be housed within the existing building, however the existing roof structure will be removed and replaced with a higher structure to provide greater room volume. Site work includes reorganizing traffic flow and parking to provide better on-site circulation. Two new press boxes and a combined central concessions/ storage/ restrooms building round out the project. Construction is scheduled to be completed in 2019.



W.T. WOODSON HIGH SCHOOL FAIRFAX, VA

Project Designer. The Project consisted of a comprehensive renovation to the 301,000 SF school and additions totaling 105,000 SF. Additions include Fairfax County Public School's largest auditorium, capable of seating all 2,000 of the school's students, as well as a new science classroom wing, weight room, administration wing, gymnastics dance studio and locker rooms. The additions along the front facade are punctuated with brick, precast and glass on a grand scale to pronounce the main and secondary entries and primary public venues. Existing playing fields, stadium and multiple press boxes were all renovated and/or newly constructed. All portions of the school were renovated including the media center, two gymnasiums, two cafeterias and an adult education center.



WEST POTOMAC HIGH SCHOOL ALEXANDRIA, VA

Project Designer/Manager. West Potomac High School was a five-phase addition and renovation project completed over three years. The project scope consisted of the complete renovation of 337,000 SF of existing facilities and the new 54,000-SF addition. All educational program spaces were evaluated for conformance with the education specification standards. Technology in the classroom was expanded and enhanced by a fiber-optic network.



RELEVANCY LEGEND

-  Over \$80 million
-  Design-Build
-  K-12 Facility
-  Team Experience Working Together

Brian Ulbrich

Production Coordinator

ARCHITECTURE, INCORPORATED



EDUCATION

M. Arch., Architecture, Virginia Tech

B. Arch., Architectural History,
University of Pittsburgh

EXPERIENCE

26 years

LAST EMPLOYER

Architecture, Incorporated

LAST POSITION

Production Coordinator

CERTIFICATIONS

Association for Learning
Environments (A4LE)

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design

PROJECT RESPONSIBILITIES

Brian has been a leader within Architecture, Inc.'s education studio for more than 20 years. The depth and breadth of his portfolio of renovation and addition projects within the educational sector is significant, spanning numerous counties as well as project types. Working closely with the client in all phases of the project, he is a seasoned architect who exceeds client expectations through excellent communication, creative problem solving, and a standard of excellence.

RELEVANT EXPERIENCE

WEST SPRINGFIELD HIGH SCHOOL WEST SPRINGFIELD, VA

Production Coordinator: The project is a comprehensive 288,000 SF renovation to the existing building. Additions totaling 109,000 SF include a new science wing constructed as a new third floor, administration, library, classrooms, and music department wing. The main gym is being enlarged to accommodate additional bleachers and an additional exercise room. Several spaces including the weight, gymnastics, dance, and art rooms will be housed within the existing building, however the existing roof structure will be removed and replaced with a higher structure to provide greater room volume. Site work includes reorganizing traffic flow and parking to provide better on-site circulation. Two new press boxes and a combined central concessions/ storage/ restrooms building round out the project. Construction is scheduled to be completed in 2019.



W.T. WOODSON HIGH SCHOOL FAIRFAX, VA

Production Coordinator: The project consisted of a comprehensive renovation to the 301,000 SF school and additions totaling 105,000 SF. Additions include Fairfax County Public School's largest auditorium, capable of seating all 2,000 of the school's students, as well as a new science classroom wing, weight room, administration wing, gymnastics dance studio and locker rooms. The additions along the front facade are punctuated with brick, precast and glass on a grand scale to pronounce the main and secondary entries and primary public venues. Existing playing fields, stadium and multiple press boxes were all renovated and/or newly constructed. All portions of the school were renovated including the media center, two gymnasiums, two cafeterias and an adult education center.



WEST POTOMAC HIGH SCHOOL ALEXANDRIA, VA

Production Coordinator: West Potomac High School was a five-phase addition and renovation project completed over three years. The project scope consisted of the complete renovation of 337,000 SF of existing facilities and the new 54,000-SF addition. All educational program spaces were evaluated for conformance with the education specification standards. Technology in the classroom was expanded and enhanced by a fiber-optic network. The library was replaced with a modern media center thus establishing a focal point for the school.



STONEWALL JACKSON HIGH SCHOOL MANASSAS, VA

Project Manager: Renewal of 310,000 SF high school for Prince William County Public Schools. Typical enclosed individual classroom spaces in the primary teaching areas were created on the second and third floors. Finishes and casework in these classrooms were updated as well as the wooden casework in science labs, art department, and work and family studies programs.



RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

Michael Hall, AIA, REFP, LEED AP

Design Principal

FANNING HOWEY



EDUCATION

University of Cincinnati

EXPERIENCE

45 years

LAST EMPLOYER

Fanning Howey

LAST POSITION

Design Principal

CERTIFICATIONS

Architect - AR, GA, LA, MI, MT, NJ, NY, NC, OH, PA, TX, WV

LEED AP

National Council of Architectural Registration Boards

Recognized Educational Facility Planner

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

RELEVANCY LEGEND



Over \$80 million



Design-Build



K-12 Facility



Team Experience Working Together

PROJECT RESPONSIBILITIES

Michael Hall is the president of Fanning Howey and is the firm's leading educational facility planner and designer. His 40-year career includes a strong focus on advocating for 21st Century learning environments in our nation's communities. Michael has been involved in multiple planning projects for high-performing school districts in the Mid-Atlantic and across the United States, including his recent work on the design of two new innovative high schools in Salt Lake City, Utah. Michael offers exceptional insights into innovative high school planning and design. He recently partnered with the Department of Defense Education Activity to design a cutting-edge replacement school on the campus of West Point Military Academy. The school's innovative flexible learning environments and world-class security design will be a rich source of inspiration during early visioning sessions.

RELEVANT EXPERIENCE

COOLIDGE SENIOR HIGH SCHOOL WASHINGTON, DC

Design Principal. Turner, Architecture, Incorporated and Fanning Howey are providing design-build services for the modernization to the \$135 million, 359,080 SF school in Washington, DC. The scope of work includes renovations to the existing 271,300 SF school originally built in 1940 and the adjoining 190,000 SF activity center built in 1987 to hold over 800 high school students. The scope also includes the addition of a new middle school which will be added to the site, holding over 650 students. The project is designed to achieve LEED Gold Certification and is expected to be completed in time for the Fall 2019 school year.



GRANITE SCHOOL DISTRICT HIGH SCHOOLS SALT LAKE CITY, UT

Key Knowledge Leader. Fanning Howey is serving in a Key Knowledge Leader role, in association with the Salt Lake firm Naylor Wentworth Lund, to design two replacement high schools for Granite School District. The team was chosen after a national search for thought leaders in innovative high school design. Per the client's vision, the two replacement high schools will set a new standard for 21st Century design in the state of Utah, providing learning environments unlike any that exist in the state today. Together the new Skyline High School and the new Cyprus High School will total \$140 million in construction costs and over 500,000 SF of cutting-edge educational space.



MURRELL DOBBINS HIGH SCHOOL PHILADELPHIA, PA

Design Principal. The \$36 million renovation and expansion of Murrell Dobbins High School will bring new Career Technical Education opportunities to the urban community. The design involves the integration of 21st century learning environments with advanced flexibility and the development of concepts to support construction phasing on an occupied site.



BOOKER T. WASHINGTON HIGH SCHOOL FOR THE ENGINEERING PROFESSIONS HOUSTON, TX

Design Principal. The design of a new replacement high school for the engineering professions marks the next chapter in that story. Fanning Howey's collaboration with several industry partners has led to the donation of equipment. The design of the building has made accommodation for these "yet to be determined" elements.



Michael Hall

Design Principal cont'd

Unique elements of the physical building – the science and engineering laboratories – are blended into each academic neighborhood, allowing for the integration of engineering, science, and technology, and traditional general studies.

PATTERSON-MILL MIDDLE/HIGH SCHOOL BEL AIR, MD

Educational Facility Planner. The 1,600-student Patterson Mill Middle/High School is designed with a “Main Street” theme which juxtaposes common areas such as the school office and auditorium with academic wings, called “houses,” at the rear of the school. One of the main concerns of planners and parents was providing separate spaces for high-schoolers and their younger counterparts. The middle school grades are grouped on the lower floor, while the high school grades are housed upstairs. The plan features a wing for ninth-graders, to ease them into high school while giving them a separate home base. The designs “houses” create interesting learning environments and add flexibility for the future, when the school is likely to be converted into a high school for grades 9-12. The wings offer opportunities to create career clusters as well as academic departments



V. SUE CLEVELAND HIGH SCHOOL RIO RANCHO, NM

Design Principal. The \$113 million V. Sue Cleveland High School is a showcase for the latest research on how to positively affect teaching and learning outcomes. Designed as a series of six schools-within-a-school, the building supports learning academies for Liberal Arts, Environmental Studies and other career paths. Each academy is self-contained and equipped with its own administrative offices, guidance areas, rest rooms, teacher planning areas, group areas, lockers and computer labs. Classrooms are extremely flexible and include movable furniture to support unlimited teaching configurations. The building explores the latest trends in technology and sustainability. Each classroom takes advantage of a complete wireless network, interactive whiteboards, overhead projectors and audio enhancement systems. The LEED® Silver certified high school employs ground-source heat pumps, extensive natural lighting, low maintenance materials and heat-reflecting roof materials.



LAKE AREA HIGH SCHOOL NEW ORLEANS, LA

Design Principal. Lake Area High School is part of an ambitious effort to rebuild the city of New Orleans. Located on a four-acre site that once sat under eight feet of water, the new school is home to the state's first Early College High School program. A compact, three-story floor plan encourages collaboration and cross-disciplinary learning. On the second and third floors, central technology suites provide large breakout spaces for the surrounding classrooms. Student commons areas on each floor act as social centers and create a small school environment. The flexible approach accommodates a host of exciting technology systems. Lake Area High School follows the New Tech High School principles. Design and construction took place in just over two years.



NEW ORLEANS CHARTER SCIENCE AND MATH HIGH SCHOOL NEW ORLEANS, LA

Design Principal. The \$30 million new high school will house a high-performing math and science curriculum in a dynamic urban school setting. Design concepts will include 21st century learning environments and advanced flexibility.



NORTHWOOD HIGH SCHOOL MODERNIZATION

ROCKVILLE, MD

Design Principal. The \$11.5 million modernization established an identifiable main entrance; incorporated flexible computer labs with the latest technology and networking; established a ninth grade academy/program curriculum; created an aesthetically pleasing building and site; incorporated energy-efficient design features; encouraged community use; improved internal building circulation; provide air-conditioning; and provided safe, on-site vehicular and pedestrian circulation patterns.



Michael Hall

Design Principal cont'd

NOVI HIGH SCHOOL MODERNIZATION NOVI, MI



Design Principal. The \$32.8 million modernization created new wings and clusters for academics, performing arts, and career technology education. The academic cluster is designed around a central media center and includes science laboratories and a child development center. The performing arts wing features a black box theater, a vocal music room, and a dance studio, while the new career technology education wing houses an auto tech lab, power lab, and materials science lab. Construction also saw the creation of a new atrium and commons space. Intended to give the school a dynamic new point of entry, this 12,000-square-foot area is punctuated by a dramatically sloped glass roof designed to flood the commons with natural light.

COLONEL SMITH MIDDLE SCHOOL

FORT HUACHUCA, AZ



Design Principal. The planning and design of the new Colonel Smith Middle School - Arizona's first Net-Zero K-12 school - is a case study in the latest trends in middle school instruction and futuristic learning environments. A Quick Start planning and design process for the new replacement middle school allowed the Owner and design team to address issues related to flexibility, project-based learning, sustainability, and technology, as well as develop an abbreviated design schedule. The Owner and the design team attempted to rethink the role of the learning environment and its relevance to today and tomorrow's students. The resulting concept challenged even the language used by today's schools - instead of classrooms, the school has Flexible Learning Environments, with STEM labs taking the place of science labs. Open collaboration areas and data hubs/hot spots support project-based learning and collaboration, while movable tables, chairs, and partitions allow the learning environment to take on whatever form is needed.

Steve Herr, AIA, LEED AP

Lead Project Designer

FANNING HOWEY



EDUCATION

Bachelor of Architecture,
University of Cincinnati

EXPERIENCE

23 years

LAST EMPLOYER

Fanning Howey

LAST POSITION

Project Architect

CERTIFICATIONS

Architect - IN

LEED AP

National Council of Architectural
Registration Boards

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

RELEVANCY LEGEND

-  Over \$80 million
-  Design-Build
-  K-12 Facility
-  Team Experience
Working Together

PROJECT RESPONSIBILITIES

Steve Herr combines his in-depth knowledge of cutting-edge trends in Next Generation Schools with extensive experience working on some of the most complex new construction and renovation school projects in the Mid-Atlantic region. Steve was integral in the development of creative design solutions for Phelps High School in Washington, DC, that resulted in an \$8 million reduction in the budget, the delivery of additional programmatic space, and the receipt of 10 different regional and national awards for planning and design excellence.

RELEVANT EXPERIENCE

EASTERN SENIOR HIGH SCHOOL WASHINGTON, DC

Project Architect. This project consisted of the total interior demolition and hazardous materials abatement; with new construction foundations, sheeting/shoring, and underpinning occurring within the foot print of the facility. The new construction included two new interior 3- story atriums with 6' ficus trees and landscaped planting, performing arts stages and state-of-the-art electronics. The renovation was accomplished by selective demolition, leaving only the building facade and structure with a few historic interior architecture features. LEED Silver was targeted, however, it achieved Gold.



PHELPS ARCHITECTURE, CONSTRUCTION AND ENGINEERING

HIGH SCHOOL WASHINGTON, DC

Project Architect. Phelps Engineering Academy consisted of 140,000 SF of fast-track new campus style construction and renovation. This design-build project, was a phased modernization of three previously abandoned school buildings, and addition of a new administrative building with a Welcome Center. Construction on all phases ran simultaneously. The new academy also included high-bay construction trades, engineering training laboratories, 24 classrooms, a gymnasium, auditorium, a full service kitchen, cafeteria, art classroom, offices, conference rooms, a cistern, a greenhouse, horticulture labs, and science laboratories.



TAKOMA ELEMENTARY SCHOOL WASHINGTON, DC

Project Architect. This design-build effort involved repairing a school which was severely damaged in a fire in December of 2010, destroying most of the building's interior. The brick exterior that survived the fire was retained and the interiors were renovated in time to open for the spring of the 2011 school year. Takoma Elementary is a Visual and Performance Arts Academy for Pre-K through 8th grade. The owner reinforced the curriculum and program of the school through the use of the existing 5-pod building design. We provided preconstruction and construction services for the 82,000 SF facility with a core capacity of 450 students. LEED Silver was targeted however, it achieved Gold.



EAST ENGLISH VILLAGE PREPARATORY SCHOOL DETROIT, MI

Bridging Document Design Architect. Fanning Howey developed Bridging Documents and early design concepts for the new East English Village Preparatory Academy, a replacement high school located on a constricted urban site.



Steve Herr

Lead Project Designer cont'd

MUMFORD HIGH SCHOOL DETROIT, MI

Bridging Document Design Architect. Fanning

Howey developed Bridging Documents and early design concepts for Mumford High School, a replacement high school located on a constricted urban site.



MARTIN LUTHER KING, JR. HIGH SCHOOL

DETROIT, MI

Bridging Document Design Architect. Fanning Howey developed Bridging Documents and early design concepts for the new Martin Luther King Jr. Senior High School. The two-story building supports a Science, Technology, Engineering and Mathematics (STEM) curriculum for more than 1,500 students. The new high school is a state-of-the-art facility that combines high-tech classrooms with collaborative venues such as a cyber cafe and media center. Shared use spaces include an athletic complex with a swimming pool and competition gymnasium and a performing arts wing with a dramatic auditorium and dedicated spaces for dance, band, and choir. The entire project was delivered for less than \$190 a SF. Martin Luther King Jr. Senior High School was planned, designed, and constructed in only 14 months.



GRANITE SCHOOL DISTRICT HIGH SCHOOLS

SALT LAKE CITY, UT

Project Design Lead. Fanning Howey is serving in a Key Knowledge Leader role, in association with the Salt Lake firm Naylor Wentworth Lund, to design two replacement high schools for Granite School District. The team was chosen after a national search for thought leaders in innovative high school design. Per the client's vision, the two replacement high schools will set a new standard for 21st Century design in the state of Utah, providing learning environments unlike any that exist in the state today. Together the new Skyline High School and the new Cyprus High School will total \$140 million in construction costs and over 500,000 SF of cutting-edge educational space.



WILSON HIGH SCHOOL WASHINGTON, DC

Design Concept Team Member. The \$100 million modernization of Wilson High School created a new ground floor entrance housing the media center and administrative office. Each of the next three floors includes classrooms, offices, resource and planning rooms, and science classrooms and labs. The gym and the auditorium have switched places, with the old gym and media center becoming the new Visual and Performing Arts Center that also serves as a civic theatre. Sustainable design and preservation of the existing building is an important aspect at Wilson, which has achieved LEED Gold certification.



CARBON COUNTY HIGHER EDUCATION CAMPUS

RAWLINS, WY

Project Architect. The new Carbon County Higher Education Center (CCHC) provides vocational and industrial education programs to post-secondary students, as well as students from the nearby Rawlins High School. Fanning Howey provided the master planning services for the new campus, as well as design services for a new 34,000-square-foot facility. Early planning efforts focused on creating a campus plan that achieves maximum efficiency within the 14-acre site. Despite the 44-foot elevation change on site, the current master plan supports the long-term development of up to 150,000 SF of total building area and four hundred parking spaces.



JAMES BLAIR MIDDLE SCHOOL WILLIAMSBURG, VA

Project Architect. Fanning Howey and Virginia-based Waller, Todd & Sadler Architects are collaborated on the design of a new middle school to house 600 students in grades 6-8. The new facility embraces the concept of flexibility in an integrated design environment. The design allows teachers to switch methodologies and recombine students for short periods of time based on their mastery of stated standards. The Owner was interested in achieving a high level of environmental performance, durability and healthy indoor air quality through integrated design, best practices and incorporation of green building practices into the project.



FISHERS HIGH SCHOOL ADDITION FISHERS, IN

Project Architect. Fishers High School was designed and constructed in three phases. The first phase created a Freshman Center with two 500-student academic wings, a field house, a cafeteria, and specialized learning labs. The second phase, completed three years later, added two more academic wings, a Performing Arts Center, a competition gymnasium, and a natatorium, creating a full high school for 2,000 students. The flexible design allows Fishers High School to continue to grow. The third phase includes a new 500-student academic wing and an addition to the media center. Other additions also include the expansion of the dining commons and the development of a new fitness center, and a black box theatre.



Carla Remenschneider, RID

Interior Designer

FANNING HOWEY



EDUCATION

Bachelor of Science in Interior/
Environmental Design, Ball State
University

EXPERIENCE

30 years

LAST EMPLOYER

Fanning Howey

LAST POSITION

Interior Designer

CERTIFICATIONS

Certified Contract Interior Designer

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

RELEVANCY LEGEND

-  Over \$80 million
-  Design-Build
-  K-12 Facility
-  Team Experience
Working Together

PROJECT RESPONSIBILITIES

A talented interior designer who focuses primarily on K-12 schools, Carla was the educational interiors designer for the breakthrough Milan Center for Innovative Studies, which received the 2014 Crow Island Citation and has been hailed as, "what 21st Century learning is all about." Her ability to create inspiring and flexible interiors has led Carla to be named a featured presenter at V/S America Days in Germany and is the reason that high-performing educational communities such as the British School of Houston and Cranbrook Schools of Bloomfield Hills, Michigan, choose to work with Fanning Howey.

RELEVANT EXPERIENCE

COOLIDGE SENIOR HIGH SCHOOL WASHINGTON, DC



Interior Designer. Turner, Architecture, Incorporated and Fanning Howey are providing design-build services for the modernization to the \$135 million, 359,080 SF school in Washington, DC. The scope of work includes renovations to the existing 271,300 SF school originally built in 1940 and the adjoining 190,000 SF activity center built in 1987 to hold over 800 high school students. The scope also includes the addition of a new middle school which will be added to the site, holding over 650 students. The project is designed to achieve LEED Gold Certification and is expected to be completed in time for the Fall 2019 school year.

EASTERN SENIOR HIGH SCHOOL WASHINGTON, DC



Interior Designer. This project consisted of the total interior demolition and hazardous materials abatement; with new construction foundations, sheeting/shoring, and underpinning occurring within the foot print of the facility. The new construction included two new interior 3- story atriums with 6' ficus trees and landscaped planting, performing arts stages and state-of-the-art electronics. The renovation was accomplished by selective demolition, leaving only the building facade and structure with a few historic interior architecture features. LEED Silver was targeted, however, it achieved Gold.

PHELPS ARCHITECTURE, CONSTRUCTION AND ENGINEERING HIGH SCHOOL WASHINGTON, DC



Interior Designer. Phelps Engineering Academy consisted of 140,000 SF of fast-track new campus style construction and renovation. This design-build project, was a phased modernization of three previously abandoned school buildings, and addition of a new administrative building with a Welcome Center. Construction on all phases ran simultaneously. The new academy also included high-bay construction trades, engineering training laboratories, 24 classrooms, a gymnasium, auditorium, a full service kitchen, cafeteria, art classroom, offices, conference rooms, a cistern, a greenhouse, horticulture labs, and science laboratories.

Carla Remenschneider

Interior Designer cont'd

TAKOMA ELEMENTARY SCHOOL WASHINGTON, DC

Interior Designer. This design-build effort involved repairing a school which was severely damaged in a fire in December of 2010, destroying most of the building's interior. The brick exterior that survived the fire was retained and the interiors were renovated in time to open for the spring of the 2011 school year. Takoma Elementary is a Visual and Performance Arts Academy for Pre-K through 8th grade. The owner reinforced the curriculum and program of the school through the use of the existing 5-pod building design. We provided preconstruction and construction services for the 82,000 SF facility with a core capacity of 450 students. LEED Silver was targeted however, it achieved Gold.



HAMILTON SOUTHEASTERN COLLEGE & CAREER ACADEMIES FISHERS, IN

Interior Designer. The Hamilton Southeastern College & Career Academies in Fishers, Ind. have transformed how one community prepares students for higher education and the workforce. Fanning Howey served as Architect of Record for the \$85 million design-build project, which includes additions and renovations to two high schools – Fishers High School and Hamilton Southeastern High School. The design provides students with the opportunity to explore multiple career pathways in a collegiate setting. Highlights of the College and Career Academies include student activity centers with combined dining space, collaboration space and video production space.



GRANITE SCHOOL DISTRICT HIGH SCHOOLS

SALT LAKE CITY, UT

Interior Designer. Fanning Howey is serving in a Key Knowledge Leader role, in association with the Salt Lake firm Naylor Wentworth Lund, to design two replacement high schools for Granite School District. The team was chosen after a national search for thought leaders in innovative high school design. Per the client's vision, the two replacement high schools will set a new standard for



21st Century design in the state of Utah, providing learning environments unlike any that exist in the state today. Together the new Skyline High School and the new Cyprus High School will total \$140 million in construction costs and over 500,000 SF of cutting-edge educational space.

WILSON HIGH SCHOOL WASHINGTON, DC

Interior Designer. The \$100 million modernization of Wilson High School created a new ground floor entrance housing the media center and administrative office. Each of the next three floors includes classrooms, offices, resource and planning rooms, and science classrooms and labs. The gym and the auditorium have switched places, with the old gym and media center becoming the new Visual and Performing Arts Center that also serves as a civic theatre. Sustainable design and preservation of the existing building is an important aspect at Wilson, which has achieved LEED Gold certification.



PRINCETON MIDDLE/HIGH SCHOOL CINCINNATI, OH

Interior Designer. The design of the \$108 million Princeton S.T.E.M. Middle/High School supports the dynamic and flexible nature of the school's S.T.E.M. Curriculum. The campus features differentiated learning spaces, including double-sized learning studios, technology hubs for groups of 8 to 12 students, and breakout rooms called Think Tanks. Retractable glass, sound-proof walls aid in collaboration and visual control of the space. Former superintendent Dr. Gary Pack praised, "Fanning Howey's innovative interior design solutions (that) have helped the Princeton City School District create a Millennium Building for the 22nd Century."



MURRELL DOBBINS HIGH SCHOOL PHILADELPHIA, PA

Interior Designer. The \$36 million renovation and expansion of Murrell Dobbins High School will bring new Career Technical Education opportunities to the urban community. The design involves the integration of 21st century learning environments with advanced flexibility and the development of concepts to support construction phasing on an occupied site.



Carla Remenschneider

Interior Designer cont'd

BOOKER T. WASHINGTON HIGH SCHOOL FOR THE ENGINEERING PROFESSIONS HOUSTON, TX



Interior Designer. The design of a new replacement high school for the engineering professions marks the next chapter in that story. Fanning Howey's collaboration with several industry partners has led to the donation of equipment. The design of the building has made accommodation for these "yet to be determined" elements. Unique elements of the physical building – the science and engineering laboratories – are blended into each academic neighborhood, allowing for the integration of engineering, science, and technology, and traditional general studies.

COLONEL SMITH MIDDLE SCHOOL

FORT HUACHUCA, AZ



Interior Designer. The planning and design of the new Colonel Smith Middle School - Arizona's first Net-Zero K-12 school - is a case study in the latest trends in middle school instruction and futuristic learning environments. A Quick Start planning and design process for the new replacement middle school allowed the Owner and design team to address issues related to flexibility, project-based learning, sustainability, and technology, as well as develop an abbreviated design schedule. The Owner and the design team attempted to rethink the role of the learning environment and its relevance to today and tomorrow's students. The resulting concept challenged even the language used by today's schools – instead of classrooms, the school has Flexible Learning Environments, with STEM labs taking the place of science labs. Open collaboration areas and data hubs/hot spots support project-based learning and collaboration, while movable tables, chairs, and partitions allow the learning environment to take on whatever form is needed.

JAMES BLAIR MIDDLE SCHOOL WILLIAMSBURG, VA



Interior Designer. Fanning Howey and Virginia-based Waller, Todd & Sadler Architects are collaborated on the design of a new middle school to house 600 students in grades 6-8. The new facility embraces the concept of flexibility in an integrated design environment. The design allows teachers to switch methodologies and recombine students for short periods of time based on their mastery of stated standards. The Owner was interested in achieving a high level of environmental performance, durability and healthy indoor air quality through integrated design, best practices and incorporation of green building practices into the project.

Douglas R. Hundley, Jr., PE, LEED AP, CGD, CxAP

Lead Sustainability Engineer



CMTA

EDUCATION

Mr. Hundley received a Bachelor of Science Degree in Mechanical Engineering from the University of Louisville in 2001.

EXPERIENCE

23 years

CERTIFICATIONS

Mr. Hundley is a licensed professional engineer in the states of Kentucky (#24533) and North Carolina (#032218).

LEED (Leadership in Energy and Environmental Design) Accredited Professional

Certified GeoExchange Designer, IGSHPA

Certified Commissioning Agent, AABC Commissioning Group

EXPERIENCE WITH

- ✓ Computer modeling for energy analysis
- ✓ Computer modeling of high velocity air distribution systems

RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

PROJECT RESPONSIBILITIES

Mr. Hundley started with CMTA as an intern in 1999 and has been with CMTA full time since 2001. Before joining CMTA he worked for four years at a mechanical contractor performing estimating and project management. Mr. Hundley's experience is diverse and includes all levels of education, health care, office buildings and medical imaging. He is proficient in the design of air distribution, hydronics, medical gas, fire protection and plumbing and is well versed in the codes related to each discipline. Other skills include computer modeling for energy analysis and computer modeling of high velocity air distribution systems.

He has successfully worked in over 20 different states and Canada and adapts easily to new design requirements. He also has integrated his four years of mechanical contracting experience with design to provide owners with a finished product that is cost effective and maintenance and operation friendly.

Mr. Hundley has been involved with Jefferson County Public Schools, one of the largest school districts in the nation, and managed several, multi-million dollar, summer HVAC renovations. He was project engineer on replacement hospital facilities in Indiana, Virginia and Kentucky. Other projects include difficult renovations of existing health care facilities and central plant upgrades that require complex phasing and planning.

He is an expert in geothermal HVAC design having designed over 160 miles of vertical bores, which is 40 percent of CMTA's total. Many of his projects, whether new construction or renovations, score in the upper 10th percentile on the ENERGY STAR scoring system.

As the engineering team member responsible for sustainability, Mr. Hundley will ensure that the MEP systems meet the project's requirements for sustainability especially in the area on energy efficiency. Mr. Hundley will ensure the MEP systems provide a comfortable and sustainable environment.

RELEVANT EXPERIENCE

PAUL VI HIGH SCHOOL, CATHOLIC DIOCESE OF ARLINGTON

FAIRFAX, VA

Senior Sustainability Engineer. A new three-story, 170,000 SF replacement school, a 58,000 SF athletic building and athletic fields. Energy efficient design features include spray foam insulation on exterior walls, increased roof insulation thickness, low E glass and LED lighting. This project was designed to earn ENERGY STAR.



SHADOW CREEK HIGH SCHOOL, ALVIN INDEPENDENT SCHOOL

DISTRICT PEARLAND, TX

Senior Sustainability Engineer. A 550,000 SF, three-story academic building serving 2,500 students on a 72 acre site. Energy efficient features include LED lighting, tubular daylighting devices. The facility includes numerous nontraditional learning spaces that will allow students to develop critical thinking, creativity, collaboration, communication and citizenship. This project was designed to earn Zero Energy Capable (24 EUI).



Douglas R. Hundle

Lead Sustainability Engineer cont'd

LENAWEE CENTER FOR A SUSTAINABLE FUTURE

– AGRICULTURE HIGH SCHOOL, LENAWE



INTERMEDIATE SCHOOL DISTRICT ADRIAN, MI

Senior Sustainability Engineer. Phase I of the three-phase project on a new campus includes a new educational building consisting of 9,600 square feet of laboratory, classroom and office space. The new building integrates high performance design strategies including geothermal, DOAS, enhanced thermal envelope, daylighting, plug load control, advanced IT Systems, demand control ventilation, green roofs and renewable energy generation. The Renewable Energy, PV System is designed to completely offset 100% of the on-site energy consumption at 72 kW or less. This project was designed to earn Zero Energy Campus, LEED® Platinum.

THOMAS NELSON HIGH SCHOOL, NELSON COUNTY

SCHOOL DISTRICT BARDSTOWN, KY



Senior Sustainability Engineer. A new 146,000 SF school serving 1,000 students. Energy efficient design features include geothermal HVAC, geothermal domestic hot water, daylighting, energy efficient lighting, efficient building envelope, white roof and rainwater catchment. This project was designed to earn Zero Energy Capable (24 EUI).

LEE ELEMENTARY SCHOOL DALLAS, TX



Senior Sustainability Engineer. A new 95,633 SF, two-story 21st Century School serving 750 students. Energy efficient design features include geothermal HVAC system, rain water collection system, LED lighting, occupancy sensors and building automation systems. This project was designed to earn LEED® Gold, Zero Energy School.

Daniel R. Drake, PE, LEED AP, NCEES, CGD

Lead Mechanical Engineer



CMTA

EDUCATION

Mr. Drake has a Bachelor of Science in Mechanical Engineering from the University of Cincinnati (2004).

EXPERIENCE

17 years

CERTIFICATIONS

Mr. Drake is a licensed Professional Engineer in Virginia (#402052927), DC (#907423), Maryland (#28129), Colorado, Indiana, Kentucky, Ohio and Rhode Island.

LEED (Leadership in Energy and Environmental Design) Accredited Professional

Certified GeoExchange Designer

EXPERIENCE WITH

- ✓ Mechanical Systems
- ✓ Sustainable Design

PROJECT RESPONSIBILITIES

Mr. Drake is a Mechanical Engineer at CMTA with over 17 years of consulting engineering experience. He is responsible for supervising and performing design of the engineering components of K-12 education, higher education, healthcare, and commercial facilities. He possesses exceptional leadership and management skills for MEP engineering teams, coupled with his sustainable design expertise have helped him to lead major government and private sector modernization projects.

Mr. Drake's effective ability to facilitate the integrated design process with other disciplines and the client, consistently supports the construction phase and the delivery of project goals. He also possesses and executes the quality check process within the engineering teams. Mr. Drake is a key team player with high integrity, technical expertise, and driven to produce high quality design.

As the lead mechanical engineer Mr. Drake will be responsible for the design of the mechanical systems for this project. He will coordinate with the Design Team to meet the expectations of this project. He will be responsible for the production of plans and specifications for the mechanical systems to ensure the design developed by the team will be executed properly.

RELEVANT EXPERIENCE

PAUL VI HIGH SCHOOL, CATHOLIC DIOCESE OF ARLINGTON

FAIRFAX, VA

Lead Electrical Engineer. A new three-story, 170,000 SF replacement school, a 58,000 SF athletic building and athletic fields. Energy efficient design features include spray foam insulation on exterior walls, increased roof insulation thickness, low E glass and LED lighting. This project was designed to earn ENERGY STAR.



RANDOLPH ELEMENTARY SCHOOL ARLINGTON, VA

Lead Mechanical Engineer. This project was an HVAC replacement for the 70,000 square foot Randolph Elementary School, Arlington Public Schools. The construction budget is \$5,000,000. Construction will be completed in 2019.



JEFFERSON STREET CENTER WINCHESTER, VA

Lead Mechanical Engineer. Winchester Public Schools requested a conceptual study to determine whether an existing underutilized elementary school could be converted to STEM and trades program. The goal of the study is to evaluate the existing facility to determine the architectural and system upgrades needed for the conversion. *With previous firm



NORTH STAFFORD HIGH SCHOOL* STAFFORD, VIRGINIA

Lead Mechanical Engineer. This was a 20,000 SF renovation of existing library and locker commons area into new media center for Stafford County Public Schools. Construction was completed in the summer of 2017.



WOODSON HIGH SCHOOL* FALLS CHURCH, VIRGINIA

Lead Mechanical Engineer. Chilled water system study for high school central chilled water plant which included two 550 ton centrifugal chillers to remediate system operational and efficiency issues. Completed in 2016.



* DENOTES COMPLETED WITH STANTEC

RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

Zachary Schneider, PE, LEED AP, LC, CxA

Lead Electrical Engineer

CMTA



EDUCATION

Mr. Hundley received a Bachelor of Science Degree in Mechanical Engineering from the University of Louisville in 2001.

EXPERIENCE

16 years

CERTIFICATIONS

Mr. Schneider is a Licensed Professional Engineer in Texas (#111244) and Kentucky (#28357)

LEED (Leadership in Energy and Environmental Design) Accredited Professional

Lighting Certified (LC) by the National Council on Qualifications for the Lighting Professions (NCQLP)

Certified Commissioning Agent, AABC Commissioning Group

EXPERIENCE WITH

- ✓ Electrical Systems

PROJECT RESPONSIBILITIES

Mr. Schneider joined CMTA's Louisville office in August of 2002 and became a partner in 2012. He has significant experience in higher education and health care. Mr. Schneider was the project manager for a recent project, Temple College's hospital simulation laboratory, which combined that experience into one facility. The Hospital Simulation laboratory was utilized to help students in the medical field train in operating rooms, patient rooms and emergency medical situations.

Mr. Schneider was the lead electrical engineer for the first school in the state of Kentucky to earn an ENERGY STAR score of 100. He was also the lead electrical engineer for the first geothermal school in Houston, Texas, which earned LEED® Gold certification.

He has performed as the project manager and/or lead electrical engineer on numerous other ENERGY STAR and LEED projects. Utilizing his LC certification, Mr. Schneider has become an expert in daylight harvesting, lighting controls and low power density lighting design.

As the lead electrical engineer, Mr. Schneider will be responsible for the design of the electrical systems for this project. He will coordinate with the Design Team to meet the expectations of this project. He will be responsible for the production of plans and specifications for the electrical systems to ensure the design developed by the team will be executed properly.

RELEVANT EXPERIENCE

PAUL VI HIGH SCHOOL, CATHOLIC DIOCESE OF ARLINGTON

FAIRFAX, VA

Lead Electrical Engineer. A new three-story, 170,000 SF replacement school, a 58,000 SF athletic building and athletic fields. Energy efficient design features include spray foam insulation on exterior walls, increased roof insulation thickness, low E glass and LED lighting. This project was designed to earn ENERGY STAR.



SHADOW CREEK HIGH SCHOOL, ALVIN INDEPENDENT SCHOOL

DISTRICT PEARLAND, TX

Lead Electrical Engineer. A 550,000 SF, three-story academic building serving 2,500 students on a 72 acre site. Energy efficient features include LED lighting, tubular daylighting devices. The facility includes numerous nontraditional learning spaces that will allow students to develop critical thinking, creativity, collaboration, communication and citizenship. This project was designed to earn Zero Energy Capable (24 EUI).



MANVEL JUNIOR HIGH SCHOOL, ALVIN INDEPENDENT SCHOOL DISTRICT

ALVIN, TX

Lead Electrical Engineer. A new 168,000 SF, two-story academic building designed to reduce overall energy consumption. Energy efficient design features include VAV air handling units for cooling of classroom spaces and intelligent digital lighting systems as the facility is an actively day lit facility. All systems will be integrated into a building reporting system that will be used as a learning tool. This project was designed to earn Zero Energy Capable (24 EUI).



RELEVANCY LEGEND

Over \$80 million

Design-Build

K-12 Facility

Team Experience Working Together

Zachary Schneider

Lead Electrical Engineer cont'd

RODEO PALMS JUNIOR HIGH SCHOOL, ALVIN INDEPENDENT SCHOOL DISTRICT ALVIN, TEXAS



Lead Electrical Engineer. A new 168,000 SF, two-story academic building designed to reduce overall energy consumption. Energy efficient design features include VAV air handling units for cooling of classroom spaces, VRV systems for cooling to administration spaces and intelligent digital lighting systems as the facility is an actively day lit facility. All systems will be integrated into a building reporting system that will be used as a learning tool. This project was designed to earn Zero Energy Capable (25 EUI) and ENERGY STAR

THOMAS NELSON HIGH SCHOOL, NELSON COUNTY SCHOOL DISTRICT BARDSTOWN, KY



Lead Electrical Engineer. A new 146,000 SF school serving 1,000 students. Energy efficient design features include geothermal HVAC, geothermal domestic hot water, daylighting, energy efficient lighting, efficient building envelope, white roof and rainwater catchment. This project was designed to earn Zero Energy Capable (24 EUI).

Gary A. Hagan, PE, LEED AP, CxA, CCP

Lead Commissioning Engineer

CMTA



EDUCATION

Mr. Hagan is a graduate of the University of Louisville with a Master of Electrical Engineering (2009), a Master of Business Administration (2009) and a Bachelor of Science in Electrical Engineering (2006).

EXPERIENCE

10 years

CERTIFICATIONS

Mr. Hagan is a licensed professional engineer in the state of Kentucky (#29451)

LEED (Leadership in Energy and Environmental Design) Accredited Professional

Certified Commissioning Agent, AABC Commissioning Group

Certified Commissioning Professional, Building Commissioning Association

EXPERIENCE WITH

- ✓ Design and commissioning of K-12 schools, higher education, and health care projects

PROJECT RESPONSIBILITIES

Mr. Hagan joined CMTA in 2012 bringing over ten years of experience in the design and commissioning of K-12 schools, higher education, and health care projects.

Mr. Hagan leads all CMTA commissioning projects. He has performed commissioning on multi-million dollar projects for the Kentucky International Convention Center, Kentucky Community and Technical College System, the University of Louisville (Kentucky), Cincinnati Public Schools (Ohio), Arlington Public Schools (Virginia), Howard County Public Schools (Maryland) and the Commonwealth of Kentucky.

Commissioning projects completed by Mr. Hagan prior to his employment with CMTA include the \$380 million Benjamin Russell Children's Hospital in Birmingham, Alabama; the \$130 million Piedmont Newnan Hospital in Newnan, Georgia; Harvard Brigham Women's Hospital in Boston, Massachusetts and Children's Medical Center of Dallas.

As Commissioning Agent, Mr. Hagan will ensure that the systems operate as intended. This minimizes energy consumption, reduces maintenance time and increases patient comfort. A commissioning agent is a pro-active method of improving system performance before problems arise.

RELEVANT EXPERIENCE

GRACELAND ELEMENTARY/MIDDLE SCHOOL, BALTIMORE CITY PUBLIC SCHOOLS BALTIMORE, MD



Lead Commissioning Engineer. A 94,000 SF replacement school serving 600 students. Energy efficient design features include geothermal HVAC, ICF walls, LED lighting and daylighting. The renewable energy will be furnished by solar photovoltaic arrays. This project was Targeted to Zero Energy.

HOLABIRD ELEMENTARY/MIDDLE SCHOOL, BALTIMORE CITY PUBLIC SCHOOLS BALTIMORE, MD



Lead Commissioning Engineer. A 94,000 SF replacement school serving 600 students. Energy efficient design features include geothermal HVAC, ICF walls, LED lighting and daylighting. The renewable energy will be furnished by solar photovoltaic arrays. This project was Targeted to Zero Energy.

LENAWEE CENTER FOR A SUSTAINABLE FUTURE – AGRI-SCIENCE HIGH SCHOOL, LENAWEЕ INTERMEDIATE SCHOOL DISTRICT ADRIAN, MI



Lead Commissioning Engineer. Phase I of the three-phase project on a new campus includes a new educational building consisting of 9,600 SF of laboratory, classroom and office space. The new building integrates high performance design strategies including geothermal, DOAS, enhanced thermal envelope, daylighting, plug load control, advanced IT Systems, demand control ventilation, green roofs and renewable energy generation. The Renewable Energy, PV System is designed to completely offset 100% of the on-site energy consumption at 72 kW or less. This project was designed to earn Zero Energy Campus, LEED® Platinum.

RELEVANCY LEGEND

- Over \$80 million
- Design-Build
- K-12 Facility
- Team Experience Working Together

Gary A. Hagan

Lead Commissioning Engineer cont'd

WILDE LAKE MIDDLE SCHOOL COLUMBIA, MD

Lead Commissioning Engineer. Completed in 2017, the \$26 million Wilde Lake Middle School is a 106,221 SF Zero Energy School designed for 750 students. CMTA was the Zero Energy Engineer and provided commissioning services for this project.



CINCINNATI PUBLIC SCHOOLS CINCINNATI, OH

Lead Commissioning Engineer. School facilities underwent energy retrofits to reduce energy consumption for an estimated savings of \$1.5 million annually. Projects included HVAC system upgrades/replacements, building automation system upgrades, lighting controls, exterior lighting improvements, interior lighting replacements, kitchen upgrades, gym lighting improvements and retro commissioning.



L. Thomas Sorrell, RCDD, LEED AP BD+C, NICET III, CHC

Lead Technology/Security Engineer



CMTA

EDUCATION

Mr. Sorrell received an AAS Degree in Electrical Engineering from the University of Louisville in 1987.

EXPERIENCE

28 years

CERTIFICATIONS

Registered Communications Distribution Designer #171229R

LEED (Leadership in Energy and Environmental Design) Building, Design+Construction Accredited Professional

National Institute for Certification in Engineering Technologies – Level III

PROFESSIONAL ACTIVITIES

Building Industry Consulting Service International (BICSI)
ASIS International
Crime Prevention Through Environmental Design (CPTED)
National Fire Protection Association
The Association for Learning Environments (formerly CEFPI)
Federal Bureau of Investigation InfraGard
DHS Cybersecurity Training

EXPERIENCE WITH

- ✓ Technology Systems
- ✓ Security Systems

RELEVANCY LEGEND

-  Over \$80 million
-  Design-Build
-  K-12 Facility
-  Team Experience Working Together

PROJECT RESPONSIBILITIES

Mr. Sorrell joined CMTA in 2015 and is leading the firm's technology and security design team. He has over 28 years of experience in the technology/security arena which includes extensive work in the design of security and technology systems for educational, institutional, health care and industrial facilities.

Mr. Sorrell has worked with the University of Kentucky (UK) Capital Projects Management Division and UK Police Department on security assessments for over 70 buildings. He co-authored the University's Campus Security Master Plan.

He is in the process of designing The University of Florida Campus Wide Security Master Plan, similar to the University of Kentucky project. A member of the BICSI Speaker's Bureau, Mr. Sorrell is a frequent speaker at conferences around the United States on the issue of campus safety. Mr. Sorrell will apply his unique knowledge of technology, security and safety to your project and will exceed the expectations of the Owner and Architect.

RELEVANT EXPERIENCE

GRACELAND ELEMENTARY/MIDDLE SCHOOL, BALTIMORE CITY PUBLIC SCHOOLS BALTIMORE, MARYLAND



Lead Technology/Security Engineer. A 94,000 SF replacement school serving 600 students. Energy efficient design features include geothermal HVAC, ICF walls, LED lighting and daylighting. The renewable energy will be furnished by solar photovoltaic arrays. This project was Targeted to Zero Energy.

HOLABIRD ELEMENTARY/MIDDLE SCHOOL, BALTIMORE CITY PUBLIC SCHOOLS BALTIMORE, MARYLAND



Lead Technology/Security Engineer. A 94,000 SF replacement school serving 600 students. Energy efficient design features include geothermal HVAC, ICF walls, LED lighting and daylighting. The renewable energy will be furnished by solar photovoltaic arrays. This project was Targeted to Zero Energy.

John D. Cummings, PE, DPE, LEED AP (BD+C)

Lead Civil Engineer

RINKER DESIGN ASSOCIATES, P.C.



EDUCATION

BS, Civil Engineering, Clemson University

EXPERIENCE

18 years

LAST EMPLOYER

Rinker Design Associates, P.C.

LAST POSITION

Senior Project Manager/Principal

CERTIFICATIONS

LEED AP (BD+C)

Professional Engineer: VA, MD NC

Advanced Work Zone Traffic Control Training: VDOT

Designated Plans Examiner: ESI, Loudoun County

Certified ESI Instructor

First Aid/CPR

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

Mr. Cummings is a partner with RDA and a licensed engineer with over 18 years of experience in site development. As a Senior Project Manager, Mr. Cummings consistently demonstrates an ability to complete projects in a timely fashion and within set budget parameters. Mr. Cummings is well-versed in the design and permitting of submissions for various governmental agencies throughout Northern Virginia.

Mr. Cummings has vast experience in various phases of site design, including site grading, typical section development, drainage design, erosion/sediment control, utility design, earthwork analysis, stormwater management (quality and quantity), parking lot design, and project cost estimating. His experience in managing projects includes project scheduling, utility relocation coordination, plan processing, public involvement assistance, bid document preparation, specifications & assistance during construction including answering or creating RFIs, PCOs, ASIs, etc.

RELEVANT EXPERIENCE

WEST SPRINGFIELD HIGH SCHOOL FAIRFAX COUNTY, VA

Lead Civil Engineer/Project Manager. WSHS is located on a 38.39-acre parcel in Springfield and was originally constructed in 1966. A total of 80,000 SF of floor area was added to the existing 281,319-square-foot building. Site design included utility layout and profiling, site grading, parking layout, athletic field layout/reconfiguration, a two phased erosion and sediment control plan and a fire lane plan. BMP/SWM was met through a combination of Low Impact Development (LID) Practices. In addition, landscaping and zoning requirements also had to be met. A request for modification of transitional screening requirements were prepared and submitted to Fairfax County. Traffic movement through the site was improved with the updated layout/design for the bus road and kiss-and-ride loop. The southern parking lot was redesigned to allow for a bus loading area at the front of the school. Further improvements were made to the trails and sidewalks. A major issue related to this school expansion was the parking situation onsite. The site had only 530 parking spaces for an enrollment of 2,100 students, and many of these spaces were inaccessible or utilized for modular trailers. Many students resorted to parking along Rolling Road, which provided to be very dangerous. In order to provide some parking relief, the tennis courts were relocated to where the grassed practice field was located, and a practice field was rotated, allowing 100 additional parking spaces. This project is currently under construction. On a project team with Architecture Incorporated.



TERRASET ELEMENTARY SCHOOL FAIRFAX COUNTY, VA

Lead Civil Engineer/Project Manager. TES is located on a 14.43-acre site in Reston. The project consisted of the design and layout of a 33,463-square-foot addition to an existing 68,880-square-foot elementary school. The first step of the expansion process was to create a PRC Plan that needed to be approved by the Fairfax County Board of Supervisors. This process required extensive coordination with the Reston Association Design Review Board and the Reston Planning and Zoning Committee prior to going before the BOS. Site design included utility layout and profiling, site grading, parking layout, athletic field layout/reconfiguration, a two phased erosion and sediment control plan and a fire lane



RELEVANCY LEGEND



Over \$80 million



Design-Build



K-12 Facility



Team Experience
Working Together

John D. Cummings

Lead Civil Engineer

plan. BMP/SWM was met through a combination of Low Impact Development (LID) Practices. In addition, landscaping and zoning requirements also had to be met. A request for modification of transitional screening requirements were prepared and submitted to Fairfax County. The practices and recommendations of the Virginia Collaborative for High Performance Schools (CHPS) were also utilized on this project. As part of this project's construction administration tasks, RDA answered RFIs, reviewed PCOs, and issued supplemental information, when necessary. On a project team with Architecture Incorporated.

ANNANDALE TERRACE ELEMENTARY SCHOOL EXPANSION



FAIRFAX COUNTY, VA

Lead Civil Engineer/Project Manager. ATES is located on a 12-acre parcel in Annandale. The project consisted of the design and layout of a 23,055-square-foot addition to an existing 86,970-square-foot elementary school. Site design included utility layout, site grading, parking layout, athletic field layout/reconfiguration, a two phased erosion and sediment control plan and a fire lane plan. BMP/SWM was met through a combination of Low Impact Development (LID) Practices. In addition, landscaping and zoning requirements also had to be met. A request for modification of transitional screening requirements were prepared and submitted to Fairfax County. On a project team with Architecture Incorporated.

GRAHAM ROAD ELEMENTARY SCHOOL AT

DEVONSHIRE FAIRFAX COUNTY, VA



Lead Civil Engineer/Project Manager. GRES is located on an 8-acre site in Falls Church. The project consisted of the design and layout for the upgrade of an existing 41,000 SF administrative building into a 77,000 SF elementary school. Site design included utility layout and profiling, site grading, parking layout, athletic field layout, a two phased erosion and sediment control plan and a fire lane plan. BMP/SWM was met through a combination of Low Impact Development (LID) Practices. In addition, landscaping and zoning requirements also had to be met. A request for modification of transitional screening requirements were prepared and submitted to Fairfax County. On a project team with Architecture Incorporated.

WHITE OAKS ELEMENTARY SCHOOL

FAIRFAX COUNTY, VA



Lead Civil Engineer/Project Manager. WOES is located on a 16.62-acre parcel in Burke. The project consisted of the design and layout for approximate 22,000 SF addition to the existing 69,000-square-foot building. Site design included utility layout and profiling, site grading, parking layout, athletic field layout, a two phased erosion and sediment control plan and a fire lane plan. BMP/SWM was met through a combination of Low Impact Development (LID) Practices. In addition, landscaping and zoning requirements also had to be met. A request for modification of transitional screening requirements were prepared and submitted to Fairfax County. Further improvements were made to the athletic facilities. A major design issue on this project was that the outfall pipe leading under Shiplett Boulevard was woefully undersized to carry the 10-year flow. Additional parking was added by the bus loop in an area that initially drained towards the undersized pipe; thus, the new parking was designed with previous pavers, and the effluent was directed to an existing pipe network with adequate capacity to solve this problem. This project is currently under construction.

LYNBROOK ELEMENTARY SCHOOL EXPANSION

FAIRFAX COUNTY, VA



Lead Civil Engineer/Project Manager. LES is located on a 10.467-acre parcel in Springfield and was originally constructed in the late 1950s. A total of 13,100 SF of floor area was added to the existing 78,910-square-foot building. Site design included utility layout and profiling, site grading, parking layout, athletic field layout, a two phased erosion and sediment control plan and a fire lane plan. BMP/SWM was met through a combination of Low Impact Development (LID) Practices. In addition, landscaping and zoning requirements also had to be met. A request for modification of transitional screening requirements were prepared and submitted to Fairfax County.

John D. Cummings

Lead Civil Engineer

DISCOVERY ELEMENTARY SCHOOL LOUDOUN COUNTY, VA



Lead Civil Engineer/Project Manager. DES is located on a 17-acre parcel in Ashburn. The first step for this project was the preparation and processing of a Commissioning Permit (CMPT) as well as a Special Exception Plat (SPEX) to allow an elementary school to be developed on this property. The Site Plan (STPL) included the design and layout of this two-story elementary school with a total gross SF of 102,000 SF. Site grading, storm and sanitary sewer layout and design, waterline layout and design, a two-phased erosion and sediment control plan layout and design, landscaping layout, and a pavement design were all performed. Extensive coordination between the architect, Loudoun County Public Schools, and local utility companies was required for the duration of the project. Although this project was not going to be processed for LEED Certification, extensive LEED related studies were performed including credit calculations. The practices and recommendations of the Virginia Collaborative for High Performance Schools (CHPS) were also utilized on this project. This project required extensive construction administration. RDA's role was to edit specifications, answer RFIs, review PCOs, and issue ASIs when necessary. RDA was on-site weekly to monitor construction and document deficiencies and also attended bi-weekly design meetings.

WILLARD MIDDLE SCHOOL LOUDOUN COUNTY, VA



Project Manager. WMS is located on a 30.38-acre site in Aldie. The first step for this project was the preparation and processing of a Commissioning Permit (CMPT). The Site Plan (STPL) included the design and layout of this two-story middle school with a total gross SF of 185,000 SF. Site grading, storm and sanitary sewer layout and design, waterline layout and design, a two-phased erosion and sediment control plan layout and design, landscaping layout, and a pavement design were all performed. Extensive coordination between the architect, Loudoun County Public Schools, and local utility companies was required for the duration of the project. The practices and recommendations of the Virginia Collaborative for High Performance Schools (CHPS) were also utilized on this project. This project required extensive construction administration. RDA's role was to edit specifications, answer RFIs, review PCOs, and issue ASIs when necessary. RDA was on-site weekly to monitor construction and document deficiencies and also attended bi-weekly design meetings.

Ryan Dreelin, L.S.

Lead Survey Engineer

RINKER DESIGN ASSOCIATES, P.C.



EDUCATION

BS, Civil Engineering, Virginia Polytechnic Institute and State University

ENGINEERING EXPERIENCE

13 years

LAST EMPLOYER

Rinker Design Associates, P.C.

LAST POSITION

Director of Surveying and Platting

CERTIFICATIONS

Professional Engineer: VA, MD NC
First Aid/CPR

EXPERIENCE WITH

- ✓ Working with this Team
- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

Ryan Dreelin is a licensed Land Surveyor in Virginia and North Carolina and has 13 years of experience in the field of surveying, all with RDA. He has served as project manager for the as-built portion of the PWCSA on-call contract since 2007. In addition to overseeing the production of the as-built deliverables, he has also provided consultation and coordination services to assist PWCSA in the development and progression of the as-built standards. He is also responsible for the production of the GIS deliverable now being required under the contract requirements.

Mr. Dreelin has provided land records research, boundary computations, and platting reviews for many capital improvement projects and large, complex route surveys for roadway improvements. Ryan has also prepared many ALTA/NSPS land title surveys to examine the feasibility of the sites for construction. He has extensive, direct experience in surveying computation for public utility placement; residential, commercial, and industrial development; and highway placement. Ryan's expertise and skills apply specifically to boundary and topography surveys, land records research, subdivision layout and platting, establishing horizontal and vertical controls for aerial/photogrammetric surveys, route surveying and plan preparation for utility and highway projects, preparation of street dedication/easement plats, and GPS control.

RELEVANT EXPERIENCE

VDOT ROUTE 29 SOLUTIONS CHARLOTTESVILLE/ALBEMARLE COUNTY, VA

Lead Survey Engineer. Project Surveyor for all three segments (Route 29 Widening, Rio Road Grade Separated Interchange, and Berkmar Road) of this Design-Build project. Mr. Dreelin's survey efforts were vital to, among other project successes, the complicated process of expanding Route 29 from its prior configuration of four lanes to its present six-lane configuration for a length of approximately 1.8 miles from Route 634 (Polo Grounds Road) to Route 1719 (Towncenter Drive) in northern Albemarle County.

WEST SPRINGFIELD HIGH SCHOOL FAIRFAX COUNTY, VA

Lead Survey Engineer. Survey Project Manager for this 39-acre site survey for a school expansion. Mr. Dreelin provided boundary determination and the QA/QC for the Plat of Consolidation which consolidated 23 parcels into one parcel and granted a perpetual street easement. Mr. Dreelin also prepared and processed the onsite easement plat through the County. This project is currently under construction. On a project team with Architecture Incorporated.

TERRASET ELEMENTARY SCHOOL EXPANSION FAIRFAX COUNTY, VA

Lead Survey Engineer. School improvements included the design and layout of a 33,463-square-foot addition to an existing 68,880-square-foot elementary school in Reston. Surveying services included comprehensive boundary and topographic surveys, as well as preparation of plats. On a project team with Architecture Incorporated.

RELEVANCY LEGEND

-  Over \$80 million
-  Design-Build
-  K-12 Facility
-  Team Experience Working Together

Ryan Dreelin

Lead Survey Engineer cont'd

WHITE OAKS ELEMENTARY SCHOOL FAIRFAX COUNTY, VA

Lead Survey Engineer. White Oaks Elementary



School is located on a 16.62-acre parcel in Burke.

Approximately 22,000 SF of floor area was added to the existing 69,000 SF building. Surveying services included comprehensive boundary and topographic surveys, as well as preparation of plats. Site improvements included site grading, updated parking layout, BMP/SWM design (met through LID practices), traffic movement improvements through the redesign of a bus road and the design of a kiss-and-ride loop, and athletic facility improvements. This project is currently under construction.

LYNBROOK ELEMENTARY SCHOOL EXPANSION FAIRFAX COUNTY, VA

Lead Survey Engineer. Lynbrook Elementary School



is located on a 10.467-acre parcel in Springfield and

was originally constructed in the late 1950s. A total of 13,100 SF of floor area was added to the existing 78,910 SF building. Surveying services included comprehensive boundary and topographic surveys, as well as preparation of plats. The site design included utility layout, site grading, and a parking lot expansion layout. BMP/SWM utilizing LID, landscaping, and zoning requirements also had to be met.

VDOT I-66/ROUTE 15 INTERCHANGE RECONSTRUCTION



PRINCE WILLIAM COUNTY/TOWN OF HAYMARKET, VA

Lead Survey Engineer. This project included the reconstruction Design-Build (VDOT Project 0066-076-074) for VDOT Northern Virginia District (Owner). This \$59 million Design-Build Project is reconstructing the I-66/Route 15 interchange to relieve congestion, enhance public safety, operations and capacity, and accommodate forecasted traffic demand in the project area. RDA is designing the reconstructed interchange as a diverging diamond interchange (DDI). Surveying tasks include boundary determinations, topographic up-dates, drainage items, and as-builts of various utilities.

I-95 AT TEMPLE AVENUE INTERCHANGE IMPROVEMENTS



CITY OF COLONIAL HEIGHTS, VA

Lead Survey Engineer. This \$13 million project reconstructed the I-95 interchange at Temple Avenue to relieve congestion, enhance public safety, operations and capacity, and accommodate forecasted traffic demand in the project area. Specific responsibilities included verification of existing topography, cross sections and topography for quantity verification, slopes stakes for construction, stakeout cut sheets for rough and fine grading, layout for intersections, stakeout cut sheets for storm structures and storm water management facilities, bridge stakeout computations, utility relocation stakeout, and final as-built cross sections.

Gary Helminski

Commercial Consultant

CUSHMAN AND WAKEFIELD



EDUCATION

MS, Real Estate
New York University

Bachelor of Architecture
Rhode Island School of Design

ENGINEERING EXPERIENCE

40 years

LAST EMPLOYER

Cushman and Wakefield

LAST POSITION

Commercial Consultant

CERTIFICATIONS

NCARB Certification
Registered Architect

EXPERIENCE WITH

- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

Real Estate executive with over 40 years of experience, including, corporate development, real estate development, business operations and strategy.

Currently Director of Development at Cushman & Wakefield, Americas, the 3rd largest commercial real estate services firm in the world. He is one of several leaders overseeing 700 staff performing development and project management services for public and private sector clients. Gary's career includes leadership roles in prominent strategic projects and initiatives developing and redeveloping office, retail, residential, industrial, hospitality, education, healthcare and life sciences projects. As both a RISD-trained architect, and a Masters of Science from NYU's Real Estate School, Gary's career has spanned Architecture, Urban Planning, Design, Real Estate and Business.

Prior to Cushman & Wakefield, he was a Managing Principal and Executive Member of JLL's Project and Development Services Americas practice. Primarily focused on major corporate development projects and managing the Mid-Atlantic team.

He previously served as a partner at Arthur Andersen, leading the Americas real estate consulting practice.

He is a registered architect, having started his career at the NY office of Skidmore, Owings and Merrill.

Gary will have primary responsibility leading the development services team in site analysis, development alternatives and best and highest use for the surrounding land parcels and the mixed-use development strategy.

RELEVANT EXPERIENCE

DEVELOPMENT CONSULTING SERVICES: CAPITAL ONE HEADQUARTERS CAMPUS, WASHINGTON, DC

Development Lead/Commercial Consultant. Led the acquisition of the original 23 acre site. Re-zoned and master planned from 2M SF FAR to 5M SF FAR to a mixed-use office, residential, retail, performing arts, hotel and sports use. Development leader for the original headquarters building at 450,000 GSF, and 850 seat auditorium complex. Managing subsequent phases of office, retail, residential and performing arts, with a project value of over \$2B and construction completion in 2022.

DEVELOPMENT CONSULTING SERVICES: CAPITAL ONE OPERATIONS CAMPUS RICHMOND, VA

Development Lead/Commercial Consultant. Led the acquisition of the original 200 acre site. Re-zoned and master planned from 2M SF FAR to 9M SF FAR to a mixed-use office, residential, and retail Development leader for the original nine building operations campus at 2M GSF. Managing subsequent phases of office, and redevelopment of existing assets.

RELEVANCY LEGEND



Over \$80 million



Design-Build



K-12 Facility



Team Experience
Working Together

Gary Helminski

Commercial Consultant cont'd

DEVELOPMENT CONSULTING SERVICES: FANNIE MAE

HEADQUARTERS

WASHINGTON, DC

Development Lead. Led the real estate strategy for consolidation from five buildings in metro DC to one facility in downtown DC, currently under construction. Overseeing both base building and tenant interiors for a 1.2M SF facility including office, retail and support facilities.

DEVELOPMENT CONSULTING SERVICES: FANNIE MAE

OPERATIONS CAMPUS RESTON, VA

Development Lead. Led the real estate strategy for consolidation from four buildings in Northern VA to one facility in Reston, currently in the design phase. Overseeing both base building and tenant interiors for a 1.2M SF facility including office, retail and support facilities.

DEVELOPMENT CONSULTING SERVICES: EXXONMOBIL

HEADQUARTERS CAMPUS FAIRFAX, VA

Development Lead. Led the real estate strategy for redevelopment scenarios and disposition of the former headquarters campus. Developed and analyzed multiple development scenarios to add value and monetize the campus to add density and additional uses. Led the sale and disposition to INOVA for healthcare uses.

DEVELOPMENT CONSULTING SERVICES: SALLIE MAE CAMPUS

RESTON, VA

Development Lead. Led the real estate strategy for consolidation from seven buildings in Northern VA to one facility in Reston, VA. Development lead for base building and tenant interiors for a 1.2M SF campus including office, retail and support facilities.

DEVELOPMENT CONSULTING SERVICES: CENTENE

HEADQUARTERS CAMPUS ST. LOUIS, MO

Development Lead. Led the acquisition of multiple sites. Re-zoned and master planned to a mixed-use office, residential, retail, hospitality and performing arts district totaling 4 M SF.

DEVELOPMENT CONSULTING SERVICES: SALAMANDER RESORT

AND SPA MIDDLEBURG, VA

Development Manager. Development management services for a 165 room resort on 280 acres in Loudon County, VA. Worked with ownership to engage Architecture, Inc., and Turner Construction to provide design, engineering and construction management services over a 3 year time frame. Negotiated agreements with the municipalities and received entitlements to construct the facility. Involvement included ongoing design and construction management services.



FIRM NAME: Rathgeber/Goss Associates, PC
ROLE: MEP Engineer

Rathgeber/Goss Associates, PC provides structural engineering design and analysis services to the building industry. They provide the benefit of over 150 years of successive collective experience in the structural design of new buildings and the renovations, remodeling and additions to existing buildings.

Established in Maryland in 1991, a certified small business, they commit to the direct involvement of the firm's Principals in all phases of the project from conceptual planning and structural system studies through the construction of the project. We believe this level of involvement ensures timely decision making during a project which is essential to maintaining schedules and budgets. Rathgeber/Goss has active registration as Professional Engineers in Virginia and 26 other jurisdictions. The individual experience of their Structural Engineering staff is supplemented by the firm's computer capabilities. They operate several analysis and design programs, which provide accurate, rapid results for the evaluation or design of all the major structural materials for buildings: reinforced concrete, structural steel, wood, and masonry.

K-12 EXPERIENCE

Their previous structural engineering service for K-12 schools includes finishing projects within specified times, within a specified fixed fee, within budget, without claims and with minimal change orders.

Rathgeber/Goss has teamed with Architecture, Incorporated on more than 20 K-12 school facilities in Virginia and Maryland including the West Springfield High School Classroom Addition and Renovation.

Their significant experience with Turner Construction includes the Salamander resort and Spa in Middleburg, Virginia and the British International School in Washington, DC.

Rathgeber/Goss has teamed with Architecture, Incorporated on **more than 20 K-12 school facilities** in Virginia and Maryland including the West Springfield High School Classroom Addition and Renovation. They also bring significant experience with Turner Construction.



Rathgeber/Goss was the Structural Engineer for the West Springfield High School, with Architecture, Incorporated. They also bring experience with nearly all the members of the design-build team including Turner and Fanning Howey.

Justin Domire

Lead Structural Engineer

RATHGEBER/GROSS ARCHITECTS



EDUCATION

BA, Architectural Engineering - Structural,
The Pennsylvania State University

EXPERIENCE

15 years

CERTIFICATIONS

Professional Engineer, MD

Member of American Institute of Steel
Construction

Member of American Concrete Institute

Member/Past Chairman of the Structural
Engineers Association of Metropolitan
Washington

PROJECT RESPONSIBILITIES

Justin Domire, Lead Structural Engineer, will carry the responsibility for the day to day management of design and construction of the project. He is involved in all phases of the project from conceptual planning and structural system studies through the construction of the project. Justin will be responsible for RGA's team of Design and Project Engineer's that will be assigned to the project.

Justin is the Director of Building Information Modeling at Rathgeber/Goss Associates and has extensive experience having completed multiple projects using BIM. RGA utilizes Autodesk Revit to model all aspects of the structural system. RGA provides a comprehensive BIM model that is coordinated with all disciplines to minimize conflicts during construction

RELEVANT EXPERIENCE

BETHESDA CHEVY CHASE MIDDLE SCHOOL (SILVER CREEK ELEMENTARY)

KENSINGTON, MD

Lead Structural Engineer. The project consisted of a new four story, 165,000 SF building. The primary structural system was comprised of a structural steel frame with composite steel beams and concrete slab. The new building was cut into an existing hill and required a 20'-0" tall basement wall on the entire North side of the building. Rammed aggregate piers were utilized to limit the excavation and increase the bearing capacity of the foundations.



WEST SPRINGFIELD HIGH SCHOOL WEST SPRINGFIELD, VA

Lead Structural Engineer. The project consists of a comprehensive renovation of the existing 288,000 SF facility and includes 110,000 SF of additions. The new classroom addition was constructed of structural steel framing that was built over the existing classroom building. New columns were threaded down through the existing structure to add additional floors to the existing masonry bearing wall school.



BELLE VIEW ELEMENTARY SCHOOL ALEXANDRIA, VA

Lead Structural Engineer/Principle-in-Charge. The project includes a 76,000-SF renovation to the existing school and approximately 19,000 square of additions. The additions will be framed with masonry bearing wall with steel joist construction. The soil conditions for the project were very poor so rammed aggregate piers were utilized to increase the allowable bearing pressure and minimize the foundation excavation and ultimately the cost of the project.



TERRASET ELEMENTARY SCHOOL RESTON, VA

Lead Structural Engineer. The project includes a 70,000-square renovation to the existing school and roughly 34,000 SF of addition. The existing building is a concrete slab and frame system that will require new penetrations and support throughout the school to bring the school from 450 to 800 students. The new additions were steel framed and supported on new spread footings.



RELEVANCY LEGEND



Over \$80 million



Design-Build



K-12 Facility



Team Experience
Working Together

Justin Domire

Lead Structural Engineer cont'd

WOODSON HIGH SCHOOL FAIRFAX, VA

Project Manager. RGA was responsible for the construction of the comprehensive renovation of 310,000 SF plus 75,000 SF addition. The main structural system included both CMU masonry bearing walls and structural steel.



GAITHERSBURG HIGH SCHOOL GAITHERSBURG, MD

Project Manager. The new 400,000 SF school is three stories and is comprised of a composite concrete slab on a steel frame that utilizes steel braced frames to resist both seismic and wind loads. The new school was completed on budget and on schedule.



SARGENT SHRIVER ELEMENTARY SCHOOL

SILVER SPRING, MD

Project Engineer. RGA was responsible for the comprehensive renovation of 45,000 SF, plus 45,000 SF additions including a two story classroom wing. The primary structural system of the addition was comprised of a concrete slab on a steel frame.



GRAHAM ROAD ELEMENTARY SCHOOL AT

DEVONSHIRE FALLS CHURCH, VA

Project Manager. RGA was responsible for the design and construction for the comprehensive renovation of the 40,000 SF plus a 25,000-SF addition. The primary structural system of the existing building was masonry bearing walls. The addition expanded both vertically and horizontally.



PACE WEST SCHOOL HAYMARKET, VA

Project Manager. RGA was responsible for the design and construction of the new 40,000 SF replacement school. The main structural system was masonry bearing walls with a steel joist roof. Mansard roofs were constructed using light gage steel over the new steel joist roof.





FIRM NAME: Sustainable Building Partners

ROLE: Sustainability Consultant

Sustainable Building Partners, LLC (SBP) offers building professionals and end-users precise energy efficiency and sustainable solutions for new and existing assets. SBP will draw from extensive project experience to provide cost effective and timely investment grade solutions tailored to meet the needs of each individual project and client. SBP's ultimate goal is to provide full circle solutions addressing maintenance, reliability, durability, life cycle, and sustained energy performance while enhancing comfort and experience. SBP has four primary service offerings meeting all market segments and sectors of the built environment; Energy Modeling, Commissioning, Energy Auditing and LEED Consulting.

SBP utilizes energy modeling as an investment grade design tool to help stimulate the integrated design approach evaluating architectural concepts, HVAC, lighting, and controls alternatives, and will recommend measures to meet and/or exceed your performance goals without compromising quality. SBP has extensive experience in providing timely & comprehensive whole building energy simulations in support of:

- LEED Energy & Atmosphere Credits
- EAct Compliance
- Commercial Tax Deductions
- DOE Title 10 Federal Energy Compliance
- Building life cycle analysis
- Measurement & Verification
- 3rd party peer review of models
- Utility incentive and rebate programs

K-12 EXPERIENCE

SBP has delivered 36 school projects including the following in Virginia:

- Camp Allen Elementary School, 150,000 SF
- Campostella Elementary School, 185,000 SF
- Clover Hill Academy, 210,000 SF
- James K. Polk Elementary, 68,000 SF
- John Adams Elementary, 142,300 SF

NET ZERO EXPERTISE

Sustainable Building Partners has significant experience in assisting clients with participating in the US Green Buildings Council's Leadership in Energy and Environmental Design for New Construction, Core & Shell, and Commercial Interiors program. SBP is currently providing consulting to three Net-Zero projects in the area including American Geophysical Union in Washington, DC targeting LEED Platinum and Net-Zero, as well as the Thurgood Elementary School and Princess Anne Middle School for Virginia Beach City Public Schools, which is targeting Net-Zero and LEED Gold.

SBP has delivered 36 school projects in DC, Maryland, and Virginia. SBP is currently part of the Turner/Architecture, Incorporated/ Fanning Howey Team delivering the \$135 million Coolidge Senior High School Modernization in Washington, DC.



Sustainable Building Partners was the Sustainability Consultant on Friendship Technology Preparatory Academy Public Charter School with Turner and Architecture, Incorporated. The project achieved LEED® for Schools Gold.

Jennifer Wolf, Leed AP

Lead Sustainability Consultant

SUSTAINABLE BUILDING PARTNERS



EDUCATION

ME, Sustainable Energy Engineering, University of Maryland

MS, Civil Engineering, Virginia Polytechnic Institute and State University

BS, Civil Engineering, Virginia Polytechnic Institute and State University

ENGINEERING EXPERIENCE

11 years

LAST EMPLOYER

Sustainable Building Partners

LAST POSITION

Lead Sustainability Consultant

CERTIFICATIONS

USGBC – Company Member
USGBC National Capital Region Chapter – Member
Engineer in Training (EIT)

EXPERIENCE WITH

- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

Jennifer is responsible for facilitating the delivery of sustainable project buildings. She closely follows the design and construction team, providing guidance at important project milestones. This includes performing detailed drawing reviews, providing technical guidance to improve sustainable design elements, developing LEED credit compliance documentation, ensuring complete and accurate completion of certification documentation, and navigating the certification process.

RELEVANT EXPERIENCE

Education:

- **Cannon Road Elementary School**, Silver Spring, MD
- **Weller Road Elementary School**, Silver Spring, MD
- **James Polk Elementary School**, Alexandria, VA

Additional Projects:

- **1310 G Street**, Washington, DC
- **Lincoln Square**, Washington, DC
- **Canusa Corporation Headquarters**, Baltimore, MD
- **South Lake at Dulles Corner**, Herndon, VA
- **Brookfield Properties**, Washington, DC
- **DuPont Fabros ACC5**, Ashburn, VA
- **EMO HQ**, Falls Church, VA
- **Fairfax County Health Dept Laboratory**, Fairfax, VA
- **One Reston Crescent**, Reston, VA
- **Pharmacy Hall Addition**, Baltimore, MD
- **UMES Somerset Hall**, Princess Anne, MD
- **Victor Building**, Washington, DC
- **LMC - Wash Ops**, Bethesda, MD
- **Pocomoke Hall**, Salisbury, MD
- **1225 Connecticut Ave**, Washington, DC

- **Salisbury University TETC Building**, Salisbury, MD
- **77 K Street**, Washington, DC
- **LMC HQ DEM 1 Facility**, Bethesda, MD
- **Sailor Creek Visitor Center** Green Bay, VA
- **Manokin Hall Renovations**, Salisbury, MD
- **Salisbury University School of Business**, Salisbury, MD
- **Wicomico Hall Renovation**, Salisbury, MD
- **Ashburn Corporate Center**, Ashburn, VA
- **Decoverly**, Rockville, MD
- **Dominion Heights**, Arlington, VA
- **Salamander Resort and Spa**, Middleburg, VA
- **Army Navy Country Club**, Arlington, VA
- **2001 M Street**, Washington, DC
- **IRS 77 K Street**, Washington, DC
- **DuPont Fabros NJ1**, Ashburn, DC
- **DuPont Fabros SC1**, Ashburn, DC
- **Salisbury Mixed Use**, Salisbury, MD
- **Mount Vernon**, Alexandria, VA

Mike Babcock, CEM, LEED AP

Senior Sustainability Consultant



SUSTAINABLE BUILDING PARTNERS

EDUCATION

BS, Mechanical Engineering, Virginia Polytechnic Institute and State University

ENGINEERING EXPERIENCE

16 years

LAST EMPLOYER

Sustainable Building Partners

LAST POSITION

Senior Sustainability Consultant

SKILLS/CERTIFICATIONS

eQUEST
DOE-2.2
Lumen Designer
AutoCAD
RETScreen
Minitab
Adobe PhotoShop
DesignBuilder v1.2
PowerDOE
Solar Design Studio 5.0
TurboCAD v10
Manual J (HVAC-Calc)
TKsolver
MS Office Applications
VisualDOE
Energy Plus
PV-DesignPro
MATLAB-Simulink
Motor Master +3.0
Adobe GoLive (web)
Word Perfect Application

EXPERIENCE WITH

- ✓ Similar Type of Projects
- ✓ Similar Scope
- ✓ Education Design
- ✓ Education Construction

PROJECT RESPONSIBILITIES

Mike Babcock has been an energy efficiency and green building consultant for over a decade. With a background in mechanical engineering and a passion for holistic building design, Mike looks to find creative solutions that balance long-term performance and environmental impact with cost, health, comfort, and durability.

As co-founder and Managing Partner of Sustainable Building Partners, Mike is ultimately responsible for management of business operations, resources, finances, and quality control. He has extensive experience managing and conducting new and existing building sustainable projects, performance assessments, compliance, and other green building related services for top commercial real estate, design, and construction firms. Overall he has worked on several hundred LEED projects (active or aspiring) covering LEED-NC, CS, ID, Schools and EBOM in various capacities including extensive experience in whole building energy analysis and modeling, energy modeling peer review, LEED process management and administration, daylighting analysis, measurement & verification, life cycle analysis and others.

RELEVANT EXPERIENCE

Experience with the following Development-Community Clients:

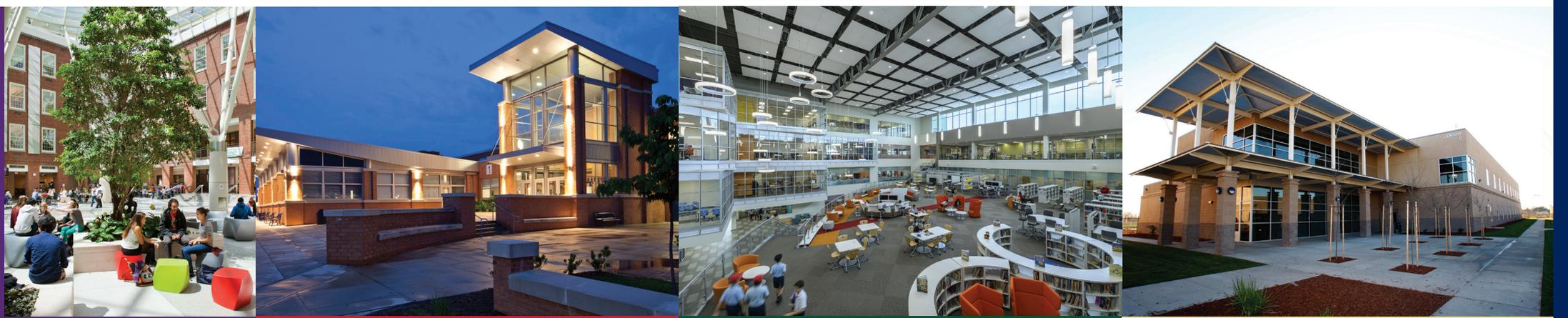
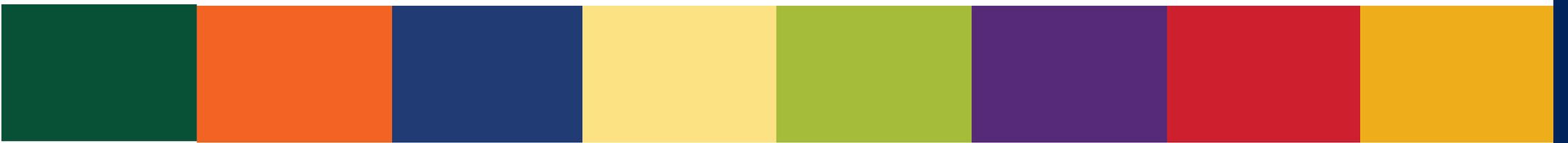
- Brookfield Office Properties
- The Tower Companies
- JBG Smith
- Carr Properties
- Corporate Office Properties Trust
- Bozzuto Development Company
- First Potomac Realty Trust
- Boston Properties
- PN Hoffman
- Roadside Development

Experience with the following Design-Community Clients:

- Gensler
- Lehman Smith McLeish
- Shalom Baranes Associates
- STUDIOS Architecture
- Ayers | Saint | Gross
- Architecture, Inc.
- Hickok Cole Architects
- WDG Architecture
- SK+I Architecture
- HKS

*Since the formation of SBP in 2010, Mike has collaborated with owners, developers, designers and property managers on over 90 million sf of existing and new projects.

Turner + **architecture**
incorporated + **FANNING**
HOWEY



Turner Construction Company
11413 Issac Newton Square
Reston, Virginia 20190