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VOLUME 96 · ISSUE 2 · NOVEMBER-DECEMBER 2023



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American School & University (USPS Permit 023-180, ISSN 0003-0945 print, ISSN 2161-7791 online) is published 7x a year (Jan/Feb, Mar/Apr, May/Jun, July, August, Sep/Oct, Nov/Dec) by Endeavor Business Media, LLC. 1233 Janesville Ave., Fort Atkinson, WI 53538. Periodicals postage paid at Fort Atkinson, WI, and additional mailing offices. POSTMASTER: Send address changes to American School & University, PO Box 3257, Northbrook, IL 60065-3257. SUBSCRIPTIONS: Publisher reserves the right to reject non-qualified subscriptions. Subscription prices: U.S. (\$ 123.75); Canada/Mexico (\$ 98.75); All other countries (\$ 123.75). All subscriptions are payable in U.S. funds. Send subscription assistance or questions.

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Designs That Deliver

By Mike Kennedy

hen I was in fifth grade many years ago, I was envious of the students in the school's other fifth-grade classrooms. I was assigned to a classroom in the main building, the same one I had been in the previous four years. But the students in the other two fifth-grade rooms were pioneers, chosen to travel across the street to classrooms in the gymnasium building. (Who knew there were classrooms there?)

But aside from fleeting moments of jealousy, I never thought much about why our class was split between two buildings a block apart, and no one ever gave a reason to the students. I'm sure there was no academic purpose for it; more likely, it was a simple space issue: The school had all of us Baby Boomers to educate, and it crammed us into every available classroom.

School design has come a long way in the intervening decades. Architects and education administrators work together, with input from faculty, students, community members and other stakeholders, to design and build modern facilities that can make instruction more effective and enhance student learning. Beyond just providing adequate classroom space, the best modern school designs are likely to incorporate factors like security, health and safety, durability, aesthetics, sustainability, and the flexibility to accommodate various teaching and learning styles. For more than 40 years, American School & University's Architectural Portfolio competition has sought to identify and honor the educational facilities that have been most successful in creating state-of-the-art learning spaces. The 2023 jury of five education administrators and design professionals reviewed dozens of outstanding projects from across the nation; readers can peruse them in the pages that follow.

Jurors decided that seven of the project entries were worthy of Citations. The William W. Caudill Citation—the top recognition for preK-12 facility designs—was bestowed upon Hightower Middle School at The Branch School in Houston, Texas (pp.18-19). The Louis I. Kahn Citation the top honor for higher education facility designs—was awarded to the Richard and Norma Small Athletic and Wellness Center at Cornell College in Mount Vernon, Iowa (pp. 20-21).

In addition to recognizing exemplary education facilities, this issue of AS&U features design solutions that may help architects and educators deliver successful 21st-century facilities for their communities.

Mike Kennedy, senior editor, has written for AS&U on a wide range of educational issues since 1999.



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Contact Heather Buzzard, hbuzzard@asumag.com, for additional information.

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Embracing Excellence

n September, five educational design professionals came together via videoconference to form the jury for American School & University's 2023 Architectural Portfolio. Over several days, the panel—architects and education administrators—reviewed digital entries submitted on behalf of preK-12 schools and higher education institutions. After each juror ranked the projects individually, the group reconvened to discuss their findings and come to a consensus about which of the entries were examples of the best in 21st-century educational facilities. Those projects that stood out from the others were awarded citations.

As a guide to help them evaluate the entries, the jurors brainstormed a list of some of the key design characteristics they would be looking for as they identified the projects worthy of citations. Among them:

- Designs that create inclusive environments
- Spaces that convey a sense of identity
- Use of wayfinding to create a sense of place
- A design that responds to its site
- A space that supports the mental and physical health of users
- Spaces that embrace and even push the bounds of sustainability
- Designs that prioritize student safety.



Kelsey Jordan



Richard Boyd



Katie Vingelen



Danny Davy



Michael A. Hacker

"Using the building as a shading element to amplify the outdoor classrooms is brilliant. It is clear that the design supports educators and students throughout the interior and exterior environments."

WILLIAM W. CAUDILL CITATION, PP. 18-19

"Strong modern exterior design... A great example of how to blend the traditional feel of a college building with a modern sleek look. It is aesthetically pleasing with the three elements of glass, stone, and black brick combined."

LOUIS I. KAHN CITATION, PP. 20-21

"Great interior learning environments, strong daylighting strategies. The passive solar fins provide for texture and interest in the facades. The student spaces are inviting and appropriately scaled to encourage collaboration."

SPECIAL CITATION, PP. 22-23

"Nice exterior massing, materials and color. The secured courtyard created from the building massing is a good example of how a safety feature can support a feeling of comfort and belonging."

ELEMENTARY SCHOOLS CITATION, P. 30

"An excellent example of integrating building with the site. Using green roofs for student experiences is a great use of space. The stair-stepping use of color throughout the environments is a fun wayfinding piece."

WORK IN PROGRESS CITATION, PP. 126-127

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KELSEY JORDAN, WELL AP, AIA

Project Architect

Legat Architects

Kelsey Jordan is a designer, activist, and leader who is experienced as an educational design professional with an emphasis on education and wellness. She utilizes her passion daily to design stimulating, future-focused learning environments for Legat Architects as a Project Architect and Educational Planner. Nationally, Kelsey's been recognized for her research. Most recently, she received the EdMarket NexGen Rising Star Award for her visions for the future of architecture involving strongly embedded ideologies on designing for equity in the built environment. During speeches and articles, she has engaged audiences on how to put listening and empathy first in the design process. Through nationally recognized research, she's an expert on how health and wellness can be used for positive change within communities.

RICHARD BOYD

Director, Design and Construction

DeKalb County (Georgia) School District

Richard Boyd has been with the DeKalb County School District since 2012. The district currently enrolls about 92,000 students in 138 schools. With over 15 million gross square feet in building space, DeKalb has the largest number of school facilities in Georgia. Richard has served as the Design Manager, Director of Design and Construction, and Interim Chief Operating Officer. During his 11 years with the district, Richard has been involved in the design and/or construction of 15 elementary, middle and high schools, and multiple large additions and capital improvement projects throughout the county. Prior to the DeKalb County School District, Richard worked as a Project Architect and Project Manager at O'Neal, Inc., and Lord Aeck Sargent for 27 years on higher education and research facilities. Richard is a licensed architect in the state of Georgia and holds a Master of Architecture degree from Georgia Tech.

DANNY DAVY Project Architect

Lake Flato Architects

Danny Davy is passionate about creating spaces that reframe how people perceive and interact with the landscape. He is most drawn to the collaborative aspect of design, and enjoys working on challenging projects with a dedicated, integrated team. Danny has 15 years of industry experience, specializing in primary and higher education projects and development work. Having graduated from North Dakota State University with a Bachelor of Science in Environmental Design and a Master of Architecture, outside the studio Danny is an epicurean explorer who will travel far and wide to experience new cuisines and renowned restaurants.



KATIE VINGELEN, AIA, IIDA

Associate Principal | Designer Integrus

Katie Vingelen, AIA, IIDA is an Associate Principal at Integrus, playing a key role in firm design leadership. She is passionate about elevating the understanding of how the built environment affects human experience and behavior and believes in a "people first" approach to design. Through her years of experience, she has learned the art of connecting with people and asking the right questions to better understand their needs and goals, translating that vision into design solutions that strike a thoughtful balance between form, function and experience. Katie is a licensed Architect and holds a bachelor's degree in interior design from Washington State University.

MICHAEL A. HACKER, AIA, LEED AP, NCARB Principal

Cadence Consulting

Michael A. Hacker is a licensed Architect, educator and advising consultant within the architectural design and construction industry. He is the founding member and Principal of Cadence Consulting, a design and construction advising firm specializing in the K-12 educational market. Michael's areas of expertise are rooted in the belief that strategically developed and thoughtfully executed processes lead to the most successful projects. As an educator and professional adviser, he has a passion for helping communities define and solve the problems worth solving. Cadence Consulting is a design and construction advising services firm with expertise in civic and educational projects. Through thoughtful guidance, education and collaboration, Cadence supports clients in clearly defining their needs and crafting the right combination of processes needed to successfully complete their building projects. The firm provides a wide range of consulting, administering and facilitation services focused on developing project strategies, building the right team of experts, developing and managing budgets, creating and tracking schedules, and ensuring accountability.



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Q&A with Arti Lyde, Global General Manager, Air Quality Management at Fellowes

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pressures created by lower enrollments and greater budgetary scrutiny are changing how institutions manage and maintain their campus. These changing expectations were significantly heightened by the COVID-19 pandemic, when everyone became acutely aware of the importance of air quality to human health and wellness. In this new education economy, colleges and universities will need to meet these new expectations of clean indoor air at all times while also managing their bottom line. Fellowes® Array™, the most advanced networked air quality system, makes it possible.

*https://www.facilitiesnet.com/iaq/tip/ Campus-IAQ-Ranks-High-Among-Prospective-College-Students-Parents--48621 August 30, 2021; https://www.us.jll.com/en/newsroom/JLL-Higher-Education-Survey

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> gether for every building on campus. The first system of its kind, Array's networked air purifiers, sensors, and monitors track the air quality across all spaces and automatically adjust units to ramp up or down to address any change in contaminants. The Fellowes Array[™] Viewpoint provides continuous environmental monitoring allowing effective air purification and energy savings even in areas with dynamic occupancy, such as classrooms or lecture halls. A Community Dashboard shares these valuable insights with occupants.

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WILLIAM W. CAUDILL CITATION



KIRKSEY ARCHITECTURE THE BRANCH SCHOOL, HIGHTOWER MIDDLE SCHOOL

HIGHTOWER MIDDLE SCHOOL Houston, Texasp. 18-19

"Using the building as a shading element to amplify the outdoor classrooms is brilliant. It is clear that the design supports educators and students throughout the interior and exterior environments."

— 2023 JURY

LOUIS I. KAHN CITATION



KAHLER SLATER

CORNELL COLLEGE, RICHARD AND NORMA SMALL ATHLETIC AND WELLNESS CENTER Mount Vernon, Iowa......p. 20-21

"Strong modern exterior design... A great example of how to blend the traditional feel of a college building with a modern sleek look. It is aesthetically pleasing with the three elements of glass, stone, and black brick combined."

— 2023 JURY

SPECIAL CITATION



ENNEAD ARCHITECTS

SEOUL FOREIGN SCHOOL. HIGH SCHOOL Seoul, South Korea.....p. 22-23

"Great interior learning environments. strong daylighting strategies. The passive solar fins provide for texture and interest in the facades. The student spaces are inviting and appropriately scaled to encourage collaboration "

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MIDDLE SCHOOLS

THE BRANCH SCHOOL, HIGHTOWER MIDDLE SCHOOL

HOUSTON, TEXAS



he Branch School is an independent private school in west Houston for preschool, elementary, and middle school students. Its 21st-century



learning approach focuses on developing skills that "enable future leaders to communicate effectively, listen to other points of view, collaborate, and empathetically respect the dignity of all." The goal was to create a middle school building that accommodates the school's growth and approach to project-based learning. The building, now known as Hightower Middle School, is designed to achieve LEED Silver certification.

The building is climate-responsive and addresses wind, water, and energy through its design. Exterior and interior spaces use passive ventilation and have several wind strategies—wind scoop, "wind hearth," breezeway, and operable windows—that create comfortable areas.

Kirksey Architecture

Client

The Branch School

Area 22,930 sq. ft.

Total cost \$9,237,590

Cost/square foot \$403

Completion September 2022

Images Slyworks Photography; Aker Imaging







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Water is collected for irrigation and experiments, and runoff is cleaned through native bioswales before leaving the site. Geothermal wells under the playing field create clean energy that helps reduce

emissions.

The site consists of a playing field, a detention pond, a walking/running trail, EV charging parking, and an educational courtyard with working gardens.



"Using the building as a shading element to amplify the outdoor classrooms is brilliant. It is clear that the design supports educators and students throughout the interior and exterior environments."

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SPORT STADIUMS/ATHLETIC FACILITIES

CORNELL COLLEGE, RICHARD AND NORMA SMALL ATHLETIC AND WELLNESS CENTER

MOUNT VERNON, IOWÁ







ith a mission to better serve its students' health and wellness needs, Cornell College engaged Kahler Slater to design an updated home for its athletic and wellness programs. The

"Strong modern exterior design... A great example of how to blend the traditional feel of a college building with a modern sleek look. It is aesthetically pleasing with the three elements of glass, stone, and black brick combined." two-level Health and Wellness Center creates a vibrant hub for campus life and fosters a sense of community.

The design concept brings modern and unique athletics and recreation programming to Cornell College; it provides a balance of new construction and costsaving renovation. The addition, which houses an expanded lobby and gathering space, the Health and Wellness Center, Athletic Offices, and Athletic Training space, is specifically situated to take advantage of as much of the existing building as possible. This initial planning move not only saved construction dollars, but also provides a finished facility where many spaces are visually open to one



- 2023 JURY

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another. The openness and transparency showcase the vibrancy of the facility to everyone who enters; it is an experience vastly different from the existing building. Updated locker rooms also serve studentathletes, visiting teams, and the entire community.

Since the center's opening, Cornell College has seen a 30% increase in enrollment. ■

Kahler Slater

Design team

Jeff Piette, AIA; Adam Bastjan, AIA, LEED AP; Chad Bloedel, AIA; Scott Lousier, AIA, LEED AP BD+C; Justin Hageman, AIA, LEED AP, BD+C; Justin Hageman, AIA, LEED AP, Mary LaFrombois, ASID, IIDA, LEED AP, WELL AP; Matt Winder; Whitney Wright; Mortenson (Construction Manager); Design Engineers (Mechanical, Electrical, Plumbing, and Fire Protection); Raker Rhodes Engineering (Structural); MMS Consultants (Landscape/Civil)

Client

Cornell College

Area 44,624 sq. ft. (renovation); 21,689 sq. ft. (addition)

Total cost \$19,500,000

\$294

Cost/square foot

Capacity 1,000 Completion

October 2022

Images Peter McCullough



"The best part of the new facility is the flexibility we have to serve the entire campus community. Our athletes are certainly excited about this, and everyone who walks into the door can't believe how nice it is, how big it is, how many different spaces we have, and it's going to benefit not just Cornell athletics but the campus in general."

- JEFF MEEKER, DIRECTOR OF ATHLETICS









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HIGH SCHOOLS

SEOUL FOREIGN SCHOOL, HIGH SCHOOL

SEOUL, SOUTH KOREA





- 2023 JURY

"Great interior learning environments, strong daylighting strategies. The passive solar fins provide for texture and interest in the facades. The student spaces are inviting and appropriately scaled to encourage collaboration." South Korea, had an outdated high school building that hindered modern teaching methods. A new high school aimed not only to replace the old facility but also to create a fresh learning environment that combines collegiate and high school experiences, incorporating collaborative spaces for peer-to-peer engagement within the building and throughout the surrounding site.

Ennead Architects

Associated firms:

BAUM Architects (Architect of Record); Andropogon Associates (Landscape Design); Atelier 10 (Lighting Design); HMBA (Technology)

Client

Seoul Foreign School

Area	Total cost
185,000 sq. ft.	\$35,300,000
Capacity	Cost/square foot
501	\$190
Space per student 370 sq. ft.	Completion
•	//ugu3t 2010

The design embraces the school's exceptional location, integrating natural materials, scenic views, and multiple outdoor learning spaces to blur the boundaries between the classroom and the landscape. Following the traditional Korean architectural concept of balancing openness and privacy, the design modulates every space, indoors and out, for different types of learning. The building features two wings with well-organized classrooms and labs, connected by central hubs on each floor. These hubs include collaboration zones and adjacent faculty workspaces strategically situated to foster meaningful interactions between students and teachers. Classrooms were meticulously developed in collaboration with educators to ensure flexibility and accommodate various teaching styles and desk configurations.





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Our new high school is doing what every piece of architecture should do - help us to be inspired and to be aspirational."

- COLM FLANAGAN, HEAD OF SEOUL FOREIGN SCHOOL









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PRE-K/EARLY CHILDHOOD

CITATION



RDG PLANNING & DESIGN

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CITATION PRE-K/EARLY CHILDHOOD

PORTER-LEATH EARLY CHILDHOOD ACADEMY | FRAYSER

MEMPHIS, TENNESSEE



he creation of this early learning academy reinforces the importance of quality education and development of children ages six weeks to five years in the underserved Memphis community of Frayser. The high visibility on the property helps convey this message of early childhood to the surroundings. A "Common Language of Music" is the theme for the building and site design, highlighting the fundamentals of music composition to

child-friendly design leverages daylight and views, lush natural landscapes, bold forms and colors and musical elements to enrich learning engagement. The program organizes the 16 classrooms into age-focused neighborhoods with community support and gathering areas placed at the center.

Ample physical space and daylight in the classroom interiors support the children's ability to explore, learn and develop. These measures are integrated throughout the academy, adapting the spaces in between as engaging moments for the cognitive and social-emotional development of children, and as community collaboration areas supporting the development of parents, staff and other childcare providers.

RDG Planning & Design

Associated firms:

Alvine and Associates (MEP Engineer); Olsson (Structural Engineer); Pickering Firm (Civil Engineer); RDG Planning & Design (Landscape Architecture)

Client

Porter-Leath Area

35,400 sq. ft. Capacity 248

Space per student 143 sq. ft.

Images AJ Brown Imaging Completion March 2021

\$289

Total cost

\$10,230,000

Cost/square foot



"Good use of color on the exterior and interior. Multiple areas for play and learning."

- 2023 JURY



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JEFFERSON EARLY CHILDHOOD CENTER

HOUSTON, TEXAS







lief ISD is a diverse, urban district spanning 36.6 square miles on the west side of Houston. More than 82% of students in the district qualify for free or reduced-price lunch, and the median household income is \$46,655. The Jefferson Early Learning Center campus is organized into two villages that provide students with a sense of community and place. Each village consists of three neighborhoods: Discovery, Inquiry, and Voyage. Each neighborhood includes four houses or experiences with a shared collaboration area. Following the theme of connecting children to nature and a sense of place, each village has unique outdoor learning environments; a centralized courtyard and two outdoor exploration courtyards. The villages surround a central building spine that shares administrative spaces, instructional support, and shared core enrichment spaces like indoor play, art, and music.

Many students in Alief ISD do not have access to nature or the benefits it provides for health and academics. Outdoor learning spaces at the new early childhood center provide students an opportunity to safely enjoy time outside and experience the benefits of learning in nature.

The early childhood center features an alternative approach to site development. In lieu of a flat site with Bermuda grass and city-required landscaping, this site will use low-impact development ideas with sheet flow, bioswales, pocket prairies and even some reforestation.



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Paths and outdoor classrooms are situated throughout the undulating site to encourage student and community engagement with nature. They enable students to safely enjoy time outside to explore and play with water, plant, and harvest vegetables in an edible garden, and observe the nature and prairies in their backyard.

PBK

Client Alief Independent School District Total cost Area 80.557 sa. ft.

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Capac	ity
558	

22,432,184	
· ·	

Cost/square foot \$278

Space per student Completion 144 sq. ft.

August 2022

Images Wade Griffith

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CITATION



"Nice exterior massing, materials and color. The secured courtyard created from the building massing is a good example of how a safety feature can support a feeling of comfort and belonging."

— 2023 JURY

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SPRUCE ELEMENTARY SCHOOL

CITATION

LYNNWOOD, WASHINGTON



pruce Elementary School was designed with a focus on connecting students to nature while ensuring a safe and adaptable learning environment for its diverse community. A promi-

"Nice exterior massing, materials and color. The secured courtyard created from the building massing is a good example of how a safety feature can support a feeling of comfort and belonging." - 2023 JURY nent feature of the design is the secondfloor library, which serves as a secure and inviting haven that encourages reading and provides a covered student entry below. The school expansion effectively addressed capacity needs, enhanced safety measures, and resolved traffic issues.

The project was executed in two phases. Phase one involved the addition of a new building that houses a gymnasium, commons, stage, music room, administrative offices, kitchen, and learning support offices. In phase two, the existing classroom building was demolished, and a two-story main building with 28



classrooms was attached to the phase one structure. The new library, with its west-facing wall of windows, illuminates the school like a welcoming beacon for students and the community. The result is a modern and secure school that fosters inspiration and readily accommodates the growing student enrollment.



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Bassetti Architects

Caroline Lemay (Principal in Charge); Jean Stolzman (Project Manager); Steve Zang (Technical Project Architect); Thomas Cohen, Ed Noland, James Moehring (Designers); Elaine Danielson (Experiential Graphic Design); Theresa Barnett (Interior Design)

Client

Edmonds School District

Area	Total cost
81,000 sq. ft.	\$20,192,500
Cost/square foot	Completion
\$249	July 2022
Images	
Moris Moreno	



ANNEHURST ELEMENTARY SCHOOL

WESTERVILLE, OHIO



nspired by a "treehouse" theme chosen by local students, the architects transformed a traditional 1960s school building into an immersive learning environment seamlessly integrated with the school's natural park surroundings. The building now provides windows, fullheight walls between classrooms, and breakout learning areas at each grade band. All learning areas also feature modern amenities such as touchscreen televisions and enhanced audio systems.

The theme is woven throughout the school with a focus on the media center as the central hub. Suspended green

Triad Architects Associated firm:

Osborn Engineering

Design team

Bob Gibson (Project Manager); Morgan Mitchell (Interior Designer); Osborn Engineering (M-E-P, Structural, Civil, and Technology Engineering)

Total cost

\$7,240,200

August 2022

\$132

Cost/square foot

Client

Westerville City Schools

Area 54,826 sq. ft.

Capacity 450

Space per student Completion 122 sq. ft.

Images Kate Horgan and wood clouds, along with pops of yellow furniture, emulate sunlight filtering through a forest canopy. A serene reading nook features illuminated panels depicting flowing streams in a dense forest.

"The Treehouse" resides in the corridor connecting the original building to the addition. This playful structure includes a spiral staircase leading to a mezzanine platform. Students ascend through sus-



pended ceiling clouds, arriving at a panoramic window offering breathtaking park views. The treehouse fosters imagination, exploration, and play.

The completed project is a school that celebrates nature, encourages curiosity, and fosters connections across subjects. It provides students with a nurturing environment to discover, grow, and embark on their individual paths of learning.







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BOLEY ELEMENTARY SCHOOL

WEST MONROE, LOUISIANA



fter a devastating fire that resulted in a total loss of the facility in 2019, Boley Elementary School was rebuilt on the existing site in 2022, taking full advantage of a clean slate. Boley's innovative design creates a safe and stimulating learning environment for over 200 students through colorful windows, slant-

TBA Studio

Associated firms:

Lazenby & Associates (Civil Engineer); Schultz & Wynne (Electrical Engineer); Engineering Resource Group (Mechanical and Plumbing Engineer); Futch Design Associates (Kitchen Consultant)

Design team

Tim Brandon, Hannah Terrell, Hannah Burch, Clint Whittington

Client

Ouachita Parish School Board

Area	Total cost
46,925 sq. ft.	\$9,861,000

Capacity 2,437

Space per student 19 sq. ft. Completion August 2022

Cost/square foot

\$210

Images Matthew Cassity

ing walls, and cutting-edge interior finishes. The school is nearly 47,000 square feet with classrooms, a multipurpose room, administration area, library, computer lab and cafeteria. The large support spaces (multipurpose room, library, and cafeteria) were strategically designed facing north to where natural light floods into the spaces without a sharp glare or high heat gain. Acoustical panels were used in these areas to absorb sound while incorporating pops of color. Throughout the school, the rooms are filled with colors to promote the playfulness and positivity that is ideal for elementary school environments. In its first year in the new facility, Boley Elementary School was awarded as a Louisiana Comeback Campus after making significant gains in math and English language arts.











BRIGHTWOOD-LINCOLN ELEMENTARY SCHOOL

SPRINGFIELD, MASSACHUSETTS



he city of Springfield sought to consolidate a small school built in 1898 with another antiquated school that was also inadequate as a learning environment. The two schools now share a combined facility. Each school maintains its own separate identity while sharing a gym, cafeteria, and media center that are large enough for simultaneous use. During educational programming, priority was given to adjacencies, location of services, and efficiency to preserve a small school feel. Maximizing every space, including corridors, for diversified learning was an important goal for the project. Educational opportunities include flexible spaces for universal design for learning, makerspaces, project-based learning, and outdoor learning through educational gardens. Play areas were carefully planned to



make the most efficient use of the site, and the building was designed to be expandable were that to become necessary. The



DiNisco Design

Design team

Richard Rice, Timothy Cooper, Jon Oxman, Trisha Johnson, Ann Davis-Woodacre, Alex Liousas

Client

150,500 sa. ft.

Area

City of Springfield Division of Capital Asset Construction

Total cost \$65,648,182

Capacity 920 (800 K-5, 120 pre-K)

Cost/square foot \$436

Space per student 164 sq. ft. Completion July 2021

Images Peter Vanderwarker

LEED-S Gold building prioritized neighborhood development, energy and water efficiency, indoor environmental quality and daylighting. The school has become a source of civic pride for its neighborhood and a true community center.





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COTTRELL ELEMENTARY SCHOOL

DAHLONEGA, GEORGIA





Blue Ridge Mountains in Dahlonega, Georgia, Cottrell Elementary School is the Lumpkin County School System's new two-story school designed to accommodate up to 885 students in 57 instructional units. Designed to replace and modernize an aging facility, Cottrell Elementary School is home to grades K-5. Tasked to create a space that felt dynamic, uplifting, and vibrant, Breaux & Associates









Architects prioritized adaptable, flexible learning spaces and a confident and playful use of color throughout the facility.

Cottrell Elementary School features a welcoming brick and stone exterior. Energy-efficient systems were incorporated to reduce operating costs, and the facil-

Breaux & Associates Architects

Design team

Jo Ann Johnson (Project Manager); Jessica Winstead (Lead Designer)

Client Lumpkin County School System

Area

113,400 sq. ft.

Total cost \$21,600,000

Capacity 885

Cost/square foot \$190

Space per student 128 sq. ft.

Completion July 2023

Images Karl. L Moore/ Mooreshots LLC



ity was designed to include sustainable materials, locally sourced where practical.

The main entrance corridor boasts a stunning 24-foot arched ceiling with elegant linear wood paneling and abundant natural light, leading to a grand stairway that serves as a secondary presentation platform, and overlooks a built-in commons area.

The jewel of Cottrell Elementary is without a doubt the school's media center. It features a cheerful hanging art installation meant to resemble flying books, as well as beautiful jewel-toned custom casework, a sleek all-glass breakaway makerspace, and a whimsical twisty slide in the Lumpkin County School System's signature purple.

Classrooms wings are subdivided into neighborhoods, consisting of four classrooms within each cluster, and feature diffused skylights that provide daylight to the surrounding spaces. Each wing has its own color identity, helping students and faculty with easy wayfinding.

Cottrell Elementary's STEM hands-on learning lab and art design lab overlook the mountain view and provide an envi"Cottrell Elementary is creating excitement about coming to school! Our students and staff want to be in this bright, cheerful, and dynamic environment."

- DR. ROB BROWN, SUPERINTENDENT, LUMPKIN COUNTY SCHOOLS

ronment where the school mission "Challenge, Educate, Succeed" is nurtured, and the vision to develop responsible, lifelong learners is easily achieved. ■



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FALES ELEMENTARY SCHOOL

WESTBOROUGH, MASSACHUSETTS







HMFH Architects

Design team

Pip Lewis AIA, NOMA, LEED AP (Project Director); Vassilios Valaes AIA, LEED AP (Project Manager); Andrea Yoder AIA, LEED AP BD+C, Caitlin Osepchuk AIA (Project Architects)

Client Westborough Public Schools Area Total cost

Area 70,000 sq. ft.

Capacity 400

Space per student Completion 175 sq. ft. November 2

November 2021

\$654

\$45,750,000

Cost/square foot

Images Ed Wonsek Artworks The first net-positive-energy public school in New England, the Annie E. Fales Elementary School is a showcase of energy-efficient design. On track to achieve LEED Platinum certification, the all-electric facility generates 11.6% more energy than it uses. The lower-level public spaces—cafetorium, gymnasium, and administrative offices are built into the hillside to reduce heat loss and gain. An extensive geothermal well field heats and cools the building, and north-facing clerestories support a 25,000-square-foot rooftop PV array.

Creating a welcoming and intimate

scale for young students was an important community design goal. To promote academic, social, and emotional well-being, each child-centric learning environment features a strong visual connection to the outdoors and whimsical graphics depicting local ecosystems. The design clusters classrooms by grade level within two academic wings, providing easy access to the centrally situated music and art classrooms, makerspaces, and media center. The sculptural sawtooth roof design creates unique interior architecture throughout that fills the school with natural light.



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HILDRETH ELEMENTARY SCHOOL

HARVARD, MASSACHUSETTS



The new Hildreth Elementary School fulfills a 16-year effort to build an innovative school for future generations. Already a highperforming district, Harvard Public Schools worked with the design team to create learning spaces that support socio-emotional learning, foster community connections, and provide



equitable access to encourage intellectual and social development.

Situated near the center of the historic village, the project restores a large, open field and links the new building to the neighborhood and town commons. The building orientation optimizes daylight and solar gain and creates a sheltered outdoor play space. An open, two-story library is the heart of the school. A large window frames the view of the town library across the street. Flexible learning spaces accommodate group and individual learning, and an Innovation STEM lab encourages scientific exploration.







Arrowstreet

Design team

Arrowstreet (Architect); GGD Consulting Engineers (MEP Engineering); EDG (Structural Engineering); Epilson Associates (Environmental Permitting); Lahlaf Geotechnical Consulting (Geotechnical Engineering); Ransom Consulting (Geo-Environmental); Universal Environmental Consultants (Hazardous Materials); Crabtree McGrath (Kitchen/Food Service); Kalin Associates (Specifications); Soden Sustainability Consultant (Sustainability); PM&C (Cost Estimating); Building Fire & Access (Code); New Vista Design (Educational Programming); DVS Security (Security); Todd Tsiang (FF&E)

Client

Harvard Public Schools

Area	Total cost
85,214 sq. ft.	\$44,053,000
Capacity 445	Cost/square foot \$517
Space per student 191 sq. ft.	Completion November 2021
Images	

William Horne; Arrowstreet



FORT BEND ISD, LAKEVIEW ELEMENTARY SCHOOL

SUGAR LAND, TEXAS



Since its opening in 1918, Fort Bend ISD's Lakeview Elementary School campus has grown alongside the city of Sugar Land, having been added to and altered in nearly every decade of the 20th century. A 2018 bond allocated funds for the district to replace the 100-year-

Kirksey Architecture

Client

Fort Bend ISD

Area 92,302 sq. ft.

Cost/square foot \$275

Completion March 2022

Total cost

\$25,400,000

Images @2023 Slyworks Photography old campus. The new facility maintains the school's history and traditions while incorporating innovative design concepts to inspire future generations of learners. Views of nature, opportunities for movement, outdoor learning spaces, and inclusive design features reflect the goal of the project, activated learning and play.

Throughout the project's design, the focus was on making sure the diversity of the community was expressed, ensuring the important aspects of the school's history were celebrated, and creating a school that is innovative and inspiring for students. The gym and natatorium space were seen as important elements to be preserved. The wood gym floor was repurposed in the new elementary gym, the bleachers were repurposed as a social stair and wood trim around the windows in the cafeteria and library, and











the natatorium was removed to provide more street frontage.

Wellness is intrinsic with the integration of interior and outdoor learning spaces. Collaboration zones open into covered porches, outdoor classrooms, and a courtyard space. A covered canopy



at the cafeteria allows for outside dining, and the raised deck that protects the roots of the heritage trees is used for learning, performance, and play.

The new front entry is visible and welcoming, and the integrated car dropoff provides cover without looking like



an add-on. Asphalt walks and derelict canopies are replaced by wood decks and native grasses where old trees are given new life. Once a disconnected and open school, the new campus is transformed into a connected, safe, and inspired campus in Sugar Land.





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JACKSON PREP LOWER SCHOOL

FLOWOOD, MISSISSIPPI







Ferguson and Associates Architecture

Design team

Ferguson and Associates Architecture; Schultz and Wynne (Electrical Engineers); ERG (Mechanical Engineers); The Pickering Firm (Civil Engineers); Second Moment (Structural Engineers); McCrory and Associates (Landscape Architect)

Client

Jackson Preparatory School

Area 25,146 sq. ft.

Capacity

500 \$475

Space per studentCompletion50 sq. ft.June 2023

Total cost

\$11,950,000

Cost/square foot

Images Sully Clemmer Photography; Hubert Worley ackson Preparatory School has had a renowned reputation as one of the state's finest college prep institutions for over 50 years. The school has excelled in academics and athletics throughout its history. Until now, Jackson Prep has been a school for grades six to 12. Ferguson & Associates Architecture was commissioned to help add a K-5 component to the campus.

Initial desires were to have a separate facility with a connection to the school proper. The site plan called for separation for the carpool traffic with distinct characteristics needed to keep the student safe and make the egress and entry efficient. The elementary school location provides a 60-car carpool line that does not interfere with the rest of the campus. The middle school and high school are situated along a campus promenade. The lower school is at a roundabout inserted at the end of the promenade. This reinforces the promenade as the main axis of the campus where a future academic building will be sited. The main design concept for this facility was to emphasize a collegiate atmosphere and interweave a fun, creative and colorful whimsy into the facility. The design uses a strict grid layout incorporating curves that imitate other areas of the campus. The lower school site also includes outdoor "labs" for students, and two age-specific play spaces. It has space for future classroom growth with a gymnatorium and cafeteria. The facility is made up of 20 classrooms, media room, art room, STEM lab, tech lab





and creative studies area with support spaces and administration. The building is broken into four halls: Wonder Hall, Explore Hall, Create Hall and Discover Hall. The Wonder Hall serves the young student with a focus on growth and wonder. The media room in the Explore Hall is set up to mimic a woodland scene with tree and cloud ceiling structures and earth and river floor coverings. A large art room anchors the Create Hall to serve the entire facility. This area is focused on creative color. The STEM and tech areas anchor Discover Hall. This area focuses on space and exploration.









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KELLOGGSVILLE CENTRAL ELEMENTARY

GRAND RAPIDS, MICHIGAN









worked with Kelloggsville Public

Schools to replace an outdated building to help benefit students, staff, and visitors. The new elementary school contains tall ceilings, separate

wings for each grade level, and plenty of natural light. The two design schemes generated for the project were named

owerPinkster "Playful Skies" and "Ready to Launch." The design team was inspired by Kelloggsville's "Rocket Pride" mantra and wanted the building design to inspire students to look upward toward bright futures.

> The two-story foyer, the "Rocket Silo," hosts a skylight and a curved staircase to the second floor. The staggered brick texture creates visual interest above the stair that reinforces the idea of upward movement. The shadows created by the brick wall paired with the light fixture and skylight above vary slightly from day to day, creating an ever-changing and

dynamic effect. The first floor includes 19 general education classrooms, three special education classrooms, a standalone cafeteria, a gym, and a large media center. The media center furniture is reconfigurable, enabling the space to be arranged for various group sizes and event types.



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TowerPinkster

Design team

John DenBoer (Design Architect); Shelbi Iseminger (Interior Designer)

Client Kelloaasville Public Schools

Area 63,815 sq. ft.

Total cost

\$14,500,000 Capacity

475

Cost/square foot \$227

Space per student 134 sq. ft.

Completion September 2021

Images Jason Keen Photography





LINCOLN SCHOOL

EAST RUTHERFORD, NEW JERSEY



The Lincoln School project emerged from an addition to the Alfred S. Faust Middle School. It evolved into a dedicated facility for 4th and 5th graders. The school has 10 general-use classrooms, a special education classroom, occupational and physical therapy rooms, music, art, STEM and computer labs, and a gymnasium. Color is used throughout the building as wayfinding that identifies each floor. At the second and third floor corridors, a lounge space was created for students and classes to use.

The most notable design challenge led

to a unique feature: a walkway bridge connecting the Lincoln School to the existing building's 3rd floor. A town ordinance allowed us to expand the addition across Grove Street to a vacant lot. However, the need to maintain an underground utilities easement prevented construction atop the former road. As a result, the innovative solution of connecting the sites with a bridge was conceived. Beneath this bridge, a pedestrian walkway adorned with landscaping, artificial turf, and tiered seating create a functional yet appealing outdoor learning commons.

Di Cara | Rubino Architects

Design team

Allison Sroka, AIA; Germano Rubino, AIA; Valdemar Fracz, RA; Natalie Fariello

Client East Rutherford School District

Area 46,000 sq. ft.

Total cost \$16,500,000

Cost/square foot \$359

Completion September 2022

Images James Gleason, Joseph Di Cara











NOELANI ELEMENTARY SCHOOL, I.D.E.A. CENTER

HONOLULU, HAWAII









The I.D.E.A. Center ("Innovate, Discover, Explore, Achieve") is a multipurpose building featuring a modern school library and makerspace. The main library space is designed to foster a love of books and learning among young readers. Clerestory windows in the large, high-ceilinged room provide ample daylight as well as views of the green ridges surrounding the school. Noelani's large print book collection is held in built-in bookshelves, which flank reading nook window seats. A cozy story area with a colorful rug, movable shelving, and a technology classroom supports the library's current needs and has the flexibility to accommodate future needs.

Floor plan efficiencies and the use of outdoor walkways and generous lanai spaces for student circulation enabled the I.D.E.A. Center's required program to include a makerspace, an open, flexible space for gatherings and project-based learning.



Urban Works

Design team

Urban Works; WCP; Ki Concepts; Sam O. Hirota; Nagamine Okawa Engineers; Interface Engineering; Nash Architectural Solutions; Lensa Consulting; BRC Acoustics & Audiovisual Design; J. Uno & Associates; Geolabs; Garcia and Associates

Client

State of Hawaii Department of Education

Area

7,699 sq. ft. (building); 1,618 sq. ft. (covered walkway)

Total cost \$5,922,000 Capacity 398

Cost/square foot \$635 Space per student 19 sq. ft.

Completion November 2021

Images Kevin Loo-Chan

Climate-sensitive design features include a naturally ventilated space, open to the outdoors.

The I.D.E.A. Center's distinctive sawtooth roof was designed to be ready for photovoltaics and provide a way to highlight the building's strategies for sustainable water management, which include cisterns, bioswales, and a rain garden (infiltration basin).



OUR LADY OF GUADALUPE CATHOLIC SCHOOL

HERMOSA BEACH, CALIFORNIA



onstructed over parking, Our Lady Of Guadalupe School (K-8) is a raised bar building that hovers, covers, zigs and zags as it responds to existing buildings and its corner hillside site. Situated in the dense residential beach community of Hermosa Beach, the new Catholic school's program includes two classrooms for STEM and music, faculty areas and administrative offices. Concrete support walls create a lightness that seems to defy gravity. Zoning restrictions for parking and

height were turned into design opportunities by raising the building off the ground and placing gathering areas underneath. Stairs anchor each end of the building and reinforce the site's slope with two different access experiences. One is light, open and sculptural, and the second is carved into the hillside. New interior corridors have long, uninterrupted windows that enable faculty to watch children at recess. Just as important, students can now observe faculty as they work in the building.









ROBERT KERR architecture design

Design Team

Robert Kerr, AIA (Principal); Chris Cortez: Jessica Gardner

Client

Area

Our Lady of Guadalupe Catholic School

6,000 sq. ft.

Total cost \$3,000,000

Cost/square foot \$500

Completion

Images Art Gray June 2022

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PINE ELEMENTARY SCHOOL

OMAHA, NEBRASKA



Pine Elementary School revitalized a three-acre urban site of a former university near downtown Omaha. The site has been a place of education for over 100 years. One of the project's goals was to be a good steward of natural resources through the preservation of the existing collegiate gymnasium building, and reuse of the building structure of the connected student center. The compact site, with a 34-foot drop across the site, enabled the new three-story facility to have exits onto grade from all levels. The spaces were organized to maximize both the efficiency of students moving throughout the building and the daylighting of classrooms and interior spaces. The site design along 10th Street intentionally preserved the historic landscape of old tree growth and urban park for the community. The building's exterior design pulls elements from the surrounding neighborhood, which has 100-plus-year-old homes and structures as well as modern build-



Jackson-Jackson & Associates

Design team

Eileen Korth, AIA, CSI, A4LE (Project Manager & Designer); Nolan Stevens, AIA, A4LE (Project Architect); Alvine Engineering (Mechanical, Electrical & Technology); InfraStructure (Structural); i.e. Design (Interior Design); Big Muddy Workshop (Landscape Architect); Ehrhart Griffin & Associates (Civil)

Client

Omaha Public Schools

Area	Total cost
77,924 sq. ft.	\$16,271,976
Capacity	Cost/square foot
600	\$209
Completion May 2022	Images Tom Kessler Photography

ings. The interior color palette plays off the landscape with elements of green, yellow, and blue throughout the building.







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PLEASANT VIEW ELEMENTARY SCHOOL

JOSHUA, TEXAS





leasant View Elementary School is a new campus within a master planned community. This two-sto-

ry facility has seven academic houses and is designed for 700 students. Large collaboration areas are situated within each academic house. Nearby, small group areas and an open science lab are used for breakout instruction. Outdoor space on the first and second floor, including a large amphitheater, enhance the learning environment.

The Center for Learning and Innovation (CL&I) at the heart of the campus functions as a library, large group area, staff development space and for dining and assembly. It mimics a park with winding pathways, green space, organic forms, tree-like structures and a cloud-inspired

Huckabee

Client Godley ISD

Area 109,345 sq. ft.

Total cost \$32,435,414

Capacity 700

Cost/square foot \$297

Space per student 156 sq. ft.

Completion August 2022

Images Truitt Rogers

ceiling motif. This aesthetic is carried through into academic houses to create a welcoming, comfortable and imaginative space for students.

The CL&I is anchored at one end with a multipurpose stage/flex classroom and at the other end with a learning stair that can seat two classes. Spaces around the perimeter use trellises to bring down the scale of the space.





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RAYMOND E. SHAW ELEMENTARY SCHOOL

MILLBURY, MASSACHUSETTS



he Raymond E. Shaw Elementary School serves 550 students in grades 3 to 6 in a suburban town along an historically important regional river that provided irrigation and transportation initially, and later water power to various industries. The mills were known for man-

ufacturing filaments and string, including the string used in baseball manufacturing. The site is 14 acres within a parcel of over 200 acres, removed from the context of

Turowski2 Architecture

Design team

Nitsch Engineering; Dodson & Flinker; Engineers Design Group; GGD Consulting Engineers; Good Harbor Techmark: PEER Consultants: Crabtree McGrath Associates: Architix: Lahlaf Geotechnical Consulting; James Carr Architecture & Design; Thornton Tomasetti; Hastings Consulting; Acentech; Todd Tsiang

Client

Millbury Public Schools

Area
90,257 sq. ft
Capacity
550

\$48,924,792 Cost/square foot \$542

Total cost

Space per student Completion 164 sq. ft.

September 2022

Images Ed Wonsek Art Works













"The new Shaw Elementary School is a bright, vibrant space with spaces like state-of-the-art classrooms, front porches, innovation lab, flexible spaces, and so much more that provides our students, staff, and community with inspirational learning environments that encourage growth and promote 21st-century work."

- ANDREW TUCCIO, LEADERSHIP TEAM, SHAW ELEMENTARY

rounded mostly by woods and wetlands. The theme of the river, the mills and their product are "woven" into the design of the site and building. Molded red brick is the predominate material of the structure, a material commonly used in many New England mill buildings. Large windows formerly used for lighting the workspace

the town up a long driveway, and sur- of mill interiors illuminate the interior learning spaces, saving energy, promoting health, and increasing learning retention. "Strings" and "meandering rivers" weave learning spaces together, through elements and patterns of the site and internal application of finish materials and playful lighting. The building is seeking LEED Gold certification.







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WALLED LAKE CONSOLIDATED SCHOOLS, DUBLIN ELEMENTARY

WHITE LAKE, MICHIGAN



nowing the district wanted to relate high-impact instructional practices with high-impact learning, the design team led several visioning and community engagement sessions, as well as group meetings to provide feedback on how to proceed. As the team looked for solutions, it also investigated research and found nature and play were crucial in child development; those became the design cornerstones of Dublin, supporting social, emotional, deep, and hands-on learning for all students. Learning spaces are not only empowering, welcoming, and developmentally appropriate, but also inclusive and equitable.

The interior is organized as a colorful tapestry of learning communities for each grade level, surrounding the main spine of the school on two levels, Dublin



Avenue and its focal point: the Learning Stair. This space brings students together and is a gathering place at the heart of the school. Grade levels are designed as small learning communities, providing a sense of belonging and identity. Each community is themed around nature, with the first floor around animals and plants found in the ecosystem and the second floor around elements of the ocean and



Associates; Commtech Design; Auch Construction

Design team

David Larson, AIA (Chief Design Officer); Nandita Mishra, Int'l. Assoc. AIA, ALEP, LEED AP (Project Leader); Galina Mihaylova, Assoc. AIA, LEED AP (Project Designer); Amy Rydleski, AIA (Project Architect)

TMP Architecture

Associated firms: Peter Basso Associates; William A. Kibbe Associates;

Spalding DeDecker

Client

Walled Lake Consolidated Schools

Area	Total cost
84,374 sq. ft.	\$24,856,993
Capacity	Cost/square foot
700	\$295
Space per student	Completion
121 sq. ft.	September 2022
Images	

Christopher Lark Photography

sky. This storyline is graphically communicated with unique community logos and accent colors identifying each community where the colors are delineated through the interior and expand into the exterior of the building.

Classrooms within each learning com-



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munity are designed with sliding glass partitions for easy collaboration, flexible furnishings, dedicated restrooms, student cubbies, and interactive technology with



dry-erase and magnetic creativity walls. A reading nook in each classroom provides space for refuge and faces the outdoors. The interior elements and finishes are critical for creating a sense of place, wayfinding, and curiosity. Using whimsy and play to define the grade levels, the colors, graphics, and imagery create a sense of adventure and wonder among students and a world-expanding learning journey at Dublin.

With a focus on integrating architecture and learning, these elements produced adaptable spaces that help foster collaboration, peer accountability, and collective participation among students.



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WEST FELICIANA "BAINS" ELEMENTARY SCHOOL

ST. FRANCISVILLE, LOUISIANA



ains Elementary School is on a fully forested site of about 35 acres in rural West Feliciana Parish. The complex is situated along a central concourse that serves as an expanded media center, technology lounge, and various learning spaces. Administrative and multipurpose assembly spaces anchor





opposing ends of the concourse, and food service and academic "schoolhouses" are situated along its length. On the first floor, grades one through three each have a separate schoolhouse; also at this level is the academic center and arts/music area. At the upper level are the fourth- and fifth-grade schoolhouses. Each grade level schoolhouse is designed with 10 standard classrooms, a teacher resource room, restrooms, and a multifunction "flex" learning space. The plan and layout consider the primary automobile/traffic challenges that exist and create separate entrances, access ways, and patterns for buses, carpool, and staff/visitor vehicles. Because of the sloping terrain, the south end of

Coleman Partners Architects

Design team

Thompson Luke & Associates; Wardlaw Lasseigne & LeBouef; Parish Engineering; Quality Engineering; Reich Landscape Architecture; Futch Design Associates

Client

West Feliciana Parish Schools

Area 128,755 sq. ft.

Capacity 1,200 Space per student 107 sg. ft. Cost/square foot \$189 Completion August 2022

Total cost

\$24,377,500

Images Eye Wander Photo



the building is situated 15 feet higher than the administrative wing at the north end; the concourse serves as both horizontal and vertical transition space, linking the schoolhouses and wings as the building follows the natural slope of the site.



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OUTSTANDING DESIGNS

THENDESIGN ARCHITECTURE

BRUNSWICK MIDDLE SCHOOL

Brunswick,	Ohiop	1. {	54

WRA ARCHITECTS

CRANDALL MIDDLE SCHOOL	
Crandall, Texasp. 58	5

HUGHES GROUP ARCHITECTS AT LITTLE

LANGSTON HUGHES MIDDLE SCHOOL Reston, Virginia......p. 56

MOSELEY ARCHITECTS

POTOMAC SHORES MIDDLE SCHOOL, PRINCE WILLIAM COUNTY PUBLIC SCHOOLS Dumfries, Virginia......p. 57



OUTSTANDING DESIGNS

HARVARD JOLLY ARCHITECTURE

FLANSBURGH ARCHITECTS



BEHAR PETERANECZ ARCHITECTURE BERKELEY CHAPEL Tampa, Florida
BSHM ARCHITECTS BERKSHIRE PK-12 SCHOOL Burton, Ohio
FLEISCHMANGARCIAMASLOWSKI ARCHITECTURE DOROTHY THOMAS EXCEPTIONAL CENTER Tampa, Florida
BOCKUS PAYNE FRANCIS TUTTLE TECHNOLOGY CENTER , DANFORTH CAMPUS Edmond, Oklahoma p. 64
ISG MAPLE RIVER SCHOOLS Mapleton, Minnesotap. 65



MIDDLE SCHOOLS

BRUNSWICK MIDDLE SCHOOL

BRUNSWICK, OHIO



he newly consolidated Brunswick Middle School replaces three older middle schools, two of which were previously on the site. The school's architectural design aligns with the district's educational vision, fostering a collaborative learning environment with a strong focus on personalized learning. The LEED Silver-certified project has six pods, organized by grade level and connected by a central collaborative area. Each pod has four classrooms dedicated to core

curricular subjects: math, language arts, science, and social studies. The central hub houses student dining, a media center, and "Project Lead the Way" STEM classrooms. Additionally, the school boasts two gymnasiums, an auditorium with music rooms, and a connected athletic field and stadium.

Addressing challenges presented by the complex site, the design incorporates a 34-foot vertical grade across three plateaus to accommodate parking, athletics,





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the school building, and district-wide bus storage and maintenance facilities. A visually striking entry bridge provides a large public entrance and exterior windows for the STEM classrooms. Moreover, it creates a unique exterior plaza that extends the student dining area, offering a collaborative outdoor space.

ThenDesign Architecture

Design team

Edward Rawdon Shearson RA, LEED AP; Derek Behm; Melissa Blask; Alek Bosoy, Lindsey Burke, NCIDQ, LEED Green Associate; Abby Twarek Rainieri, RA, LEED AP; Telicious Robinson

Client

Brunswick City School District Area

243,000 sq. ft.

Total cost \$65,000,000

Capacity 1,660

Cost/square foot \$267

Space per student 146 sq. ft.

Completion September 2020

Images ThenDesign Architecture



MIDDLE SCHOOLS

CRANDALL MIDDLE SCHOOL CRANDALL, TEXAS









randall Middle School, situated on a 27-acre site in the Heartland Development, is a unique facility for Crandall ISD. Flexibility and adaptability were major design themes from the early phases of conception and design. Focusing on fine arts, this facility features a double-sided stage flanked by a cafeteria and gymnasium. The gymnasium is designed to double as an auditorium space and will seat 1,900 occupants. Flexible labs are centered in the academic wing. These are able to transform into science labs, computer labs or makerspaces. The library shelving is distributed throughout the academic wing, and the circulation desk guards entry at the two-story student commons.



WRA Architects

Client Crandall ISD

Area 195,000 sq. ft. **Total cost**

\$55,039,601

Capacity 1,171

Cost/square foot \$282

Space per student 167 sq. ft.

Completion August 2022

Images Parrish Ruiz De Velasco



MIDDLE SCHOOLS

LANGSTON HUGHES MIDDLE SCHOOL

RESTON, VIRGINIA









angston Hughes Middle School, a 137,111-square-foot prototype design from the early 1980s, has undergone a remarkable transformation establishing a new identity. A two-level, 54,166-square-foot addition was strategically placed at the front, facing south, lending the school a fresh outlook. Enhancing safety and efficiency, a new bus loop and expanded parking were integrated into the site, including the "Kissand-Ride" drop-off on the north side.

Central to the design is an innovative "Hall of Nations" concept, serving as the school's main circulation spine. The addition includes essential elements like the administration suite, a two-level classroom/science lab wing, and a library. Cafeteria expansion provides additional seating and an inviting outdoor patio. The core was reconfigured



to accommodate the collaboration court, lecture hall, auxiliary gym, and main gym.

Notably, the school adheres to Collaborative for High Performance Schools standards, embracing sustainable practices throughout. These include the reuse of existing building shell, regional building materials, upgraded insulation and thermal components, stormwater management, increased daylighting, enhanced indoor air quality, exterior solar shading, reduced water consumption, lowemission construction materials, recycling of construction waste, and a dedicated outdoor learning courtyard.

Hughes Group Architects at Little

Design team

Hughes Group Architects at Little (Design Architect); BC Consultants (Civil Engineering); Ehlert Bryan (Structural Engineering); Strickler Associates (MEP/FP Engineering)

Client

Fairfax County Public Schools

Area
191,277 sq. ft.
Capacity
1,022
Space per student
187 sq, ft.

Images ©Helmuth Humphrey Total cost \$41,183,464 Cost/square foot \$215 Completion January 2022



POTOMAC SHORES MIDDLE SCHOOL. PRINCE WILLIAM COUNTY PUBLIC SCHOOLS

DUMERIES, VIRGINIA





hen booming enrollment required additional educational and community space, Prince William County Schools and the design







team collaborated to reimagine the middle school experience. Potomac Shores Middle School signifies a major departure from the district's previous school prototype to a 21st-learning environment designed for world-class education.

With capacity for 1,450 students, the three-story configuration dedicates a floor level for each grade, allotting them their own distinctive classrooms, extended learning spaces, makerspaces, and collaboration spaces. All makerspaces have direct access to outdoor learning environments for experiments, testing, and group work.

A STEAM (science, technology, engineering, art, and math) lab provides three connected spaces for preparation, production, and material storage.

The school focuses on musical and

Moseley Architects

Associated firms:

IMEG: Foodservice Consultants Studio: Johnson, Mirmiran, Thompson; V.F. Pavone Construction Company; Studio HDP

Design team

William H. Riggs, AIA (Managing Principal); Kenny Durrett (Design and Project Manager); Jackie Miller, PE (Structural Engineer); Brian Winchester, PE (Mechanical Engineer); Russell Roundy (Electrical Designer); Josh Landis (Plumbing Designer); Katelyn Garay (Interior Designer); Patrick Mesich (MEP Construction Contract Administrator); Sumita Carpenter (Construction Contract Administrator)

Client

Prince William County Public Schools

Area	Total cost
197,000 sq. ft.	\$52,541,298
Capacity	Cost/square foot
1,450	\$267
Space per student	Completion
136 sq. ft.	March 2021
Imagaa	

theatrical education, which is supported by a large performance auditorium for community events and productions. The design also demonstrates a commitment to the community by placing the gymnasium at the perimeter of the school with secure, after-hours access and parking directly adjacent to the gymnasium.



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COMBINED-LEVEL SCHOOLS

A.D. HENDERSON UNIVERSITY SCHOOL & FAU HIGH SCHOOL - PHASE 1 BOCA BATON, FLORIDA



The design hypothesis for this project was to provide facilities that enhance this developmental research lab school, established in 1968. The school is a national exemplary model for school systems and teacher preparation programs improving education for diverse student populations through innovative, faculty-developed research and curriculum. The goal was to create a dynamic and collaborative learning environment that integrates best practices in teacher education, fostering innovation in curriculum

development, providing students with a challenging curriculum, and offering innovative academics while supporting emerging educational research.

The facility incorporates flexible and collaborative spaces to promote teamwork, peer learning, and collaboration among teachers. Shared classrooms, open work areas, and designated meeting rooms facilitate idea exchange, discussions, and collaboration.

State-of-the-art technology infrastructure, including smart boards, interactive



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displays, and multimedia tools, are integrated. Teachers will receive training and support to effectively integrate technology into their teaching practices, enabling innovative instructional methods and multimedia-rich learning experiences.

The facility features adaptable learning spaces that can be easily reconfigured to accommodate various teaching styles and activities. Movable furniture, adjustable lighting, and versatile classroom layouts

Harvard Jolly Architecture

Client Florida Atlantic University

Area	
107,000 sq. ft.	
Capacity	
825	

Total cost \$27,700,000

Cost/square foot \$259

Space per student 130 sq. ft. Completion August 2022

Images Chad Baumer; Jay Christopher



"In my 33 years in public education, I have never experienced the impact a facility can directly have on student engagement and achievement more than this past year in our new facility. Our faculty, staff, and community are indebted to Rene Tercilla and the entire Harvard Jolly team for bringing imagination to life."

- JOEL HERBST, SUPERINTENDENT

encourage creativity, adaptability, and personalized learning experiences.

Mentorship and coaching programs will be established to support teachers' professional growth. Experienced educators and researchers will provide guidance, feedback, and mentorship to help teachers refine their practices and stay updated with research-based best practices.

The facility promotes the development of an innovative curriculum that aligns





with current educational trends and research.

Curriculum design teams, consisting of educators, researchers, and specialists,

collaboratively create a challenging and engaging curriculum that integrates interdisciplinary approaches and real-world applications.



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AMERICAN INTERNATIONAL SCHOOL OF ZAGREB | NEW COMBINED PK-12 FACILITY **ZAGREB. CROATIA**









his new high-perfor- The simple, orthogonal plan mance K-12 International ized learning environment with Bundek Park, an iconic park at the center of yards, green roofs, and com- dence. munity space form the heart of the school. It has achieved the highest level of sustainability among buildings in Croatia.



weaves outdoor and indoor School unites a personal- spaces to engage students with the outdoors, promote wellness, and foster an atmosphere where success is Novi Zagreb. Multiple court- achieved through interdepen-

The school provides an aspirational and welcoming community setting where both foreign dignitaries and elementary students can feel at home. The school uses the dining commons as an arrival, gathering, and meeting space. The west wall is wood, and the east wall is glass along two interior courtvards. Black window mullions, light grey floor, and white ceiling give the space a simple elegance. Daylight pours in from all directions, and views to courtyards evoke a natural landscape.

These elements, combined with a simple plan, provide a calming space that resonates with our innate human emotions.

Flansburgh Architects

Associated firm: Sangrad + AVP

(Local architect)

Design team

David Croteau (Principalin-Charge); Jenni Katajamäki (Project Architect)

Client

American International School of Zagreb

Area 90,000 sq. ft.

Total cost \$16,600,000

Completion October 2018

Images Robert Benson; Miljenko Bernfest



COMBINED-LEVEL SCHOOLS

BERKELEY CHAPEL TAMPA, FLORIDA







Behar Peteranecz Architecture

Client Berkeley Preparatory School

Area 8,650 sq. ft.

Total cost \$3,295,688

Capacity 541

Cost/square foot \$381

Space per student 16 sq. ft.

Completion April 2023

Images Gabriel Caldwell, Krew City Media hen Behar Peteranecz Architecture began work on Berkeley Preparatory School's Chapel, it focused on creating a house of prayer for all members of the school's community, through an Episcopalian lens. Throughout the design process, the firm worked closely with the chaplain and faculty to imagine a sacred space that represents and embraces a myriad of expressions of the divine.

The playful and awe-inspiring stainedglass windows provide a glimpse into the holy, the Baptismal font offers a sign of cleansing and renewal, the layout of



pews encircling the main altar serve as a reminder of God's presence in the heart of Berkeley's community, and the chapel itself, situated in the heart of the campus, boasts a campanile with an arched belfry that further connects all of Berkeley and represents its cultural heritage.



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COMBINED-LEVEL SCHOOLS

BERKSHIRE PK-12 SCHOOL

BURTON, OHIO



he new PK-12 school, on Kent State University's Geauga Campus, embodies student-centered learning design principles while accommodating 1,200 PK-12 students, including career tech. This facility replaces three separate buildings and provides a unified space for



all grade levels.

The topography of the site, a sloping hillside with a 20-foot grade change, played a vital role in the site's design. The change in elevation initially posed a challenge, but it provided an opportunity to create distinct points of entry for the building. On the lower level are the bus drop-off area, main assembly entrance, school entry, parent drop-off, and mainlevel parking. The slope of the hillside also allows for certain rooms to be seamlessly integrated, while ensuring an abundance of natural light throughout the facility.

The building is organized into wings dedicated to elementary, middle, and high school students. A central hub houses an auditorium, two gymnasiums, a library/

BSHM Architects

Associated Firm: Holabird + Root

Design Team

Byron Manchester (Senior Management Lead); Jay Crafton (Project Management Lead); Eric Risinger (Project Design Lead - Architecture); Ben Fierman (Collaborative Development); Mary Dennis (Project Architect); Tim Thomas (LEED Coordinator); Brett Hendricks (Quality Control Lead); Mike Ruscitti (Architect)

Client

Berkshire Local School District

Area 204,700 sq. ft.	Total cost \$50,801,000
Cost/square foot	Completion
\$248	August 2022

Images

Eric Hanson

makerspace, student dining area, and office space. The school board offices are at the southeast corner of the building. Throughout the duration of the project, the team faced challenges posed by the Covid-19 pandemic and supply chain disruptions. However, these obstacles were overcome, and the project was brought to fruition.

The school has been designed and built to achieve LEED Silver certification. 🔳







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DOROTHY THOMAS EXCEPTIONAL CENTER

TAMPA ELORIDA





he new Dorothy to K-12 students with Thomas Exceptional Center is a school dedicated



ing students with challenging and increasingly complex needs, the school is designed for students who learn best in supportive and safe environments free of auditory and visual distractions. Davlighting, nature views, and areas for outdoor learning help increase attention and retention of information and reduce disciplinary incidents.

The building is orgaemotional and behav- nized around a series ioral disorders. Serv- of "sensorial hinges" at corridor nodes, providing different texture on walls, floor, ceiling, and specialty lighting to help students cope with their disorders. On the west side, the new building contour follows the canopy of the existing trees. On the east side, the design is organized around a courtyard with a sensory garden embracing existing trees while simultaneously creating



a safe zone for students. The sensory garden creates a transitional space before entering the main school. The site includes

a growing garden and an existing gymnasium, connected by an east/ west axis through the school.

FleischmanGarciaMaslowski Architecture

Associated firms:

Campo Engineering; Master Consulting Engineers; Engineering Matrix: Skanska Construction

Design team

Sol J. Fleischman AIA, NCARB (Principal-in-Charge); Ken Zuker (Project Manager); Marcel Maslowski AIA (Project Architect); Keenan Johnson LEED® Green Associate (Interior Designer); Lauren Campo PE (Civil Engineer); James Mehltretter PE (Structural Engineer); Gregory Bowen PE, LEED® AP BD+C (MEP Engineer)

Client

Hillsborough County Public Schools

Area 40,000 sq. ft.

Completion August 2023 Total cost \$17,800,000 Images

Chad Baumer Photography





FRANCIS TUTTLE TECHNOLOGY CENTER, DANFORTH CAMPUS

EDMOND, OKLAHOMA



t first glance, the split-level building is set back from the main road, nestled into a site that drops 55 feet from the northwest corner to the southwest corner, to minimize the impact of



the height of the building on the adjacent residential neighborhoods. The exterior materials are honest in nature—a mixture of wood, concrete, and stone that flow naturally into the interior of the building.

Students and visitors enter and are directed by clerestory windows into a main circulation hub, met by a glass-railed bridge overlooking a light-filled rotunda.

The rotunda mimics a restful zone with space to work, connect, and enjoy an abundance of natural light, while encouraging instructors to break out and make use of the grand stairs for student seating—a unique option for energized learning.









The program encourages and facilitates the STEM Focused+Design Thinking process, an approach that centers on the principles of empathy, expansive thinking, and experimentation.

Transparency into the building reveals activities, and exposed natural elements inspire inquisitive minds.

Bockus Payne

Associated firms:

Allen Consulting (MEP Engineer); KFC Engineering (Structural Engineer); T Scott Construction (General Contractor/Construction Manager); Scott Rice (Furniture Vendor)

Client

Francis Tuttle Technology Center

Area	Total cost
155,000 sq. ft.	\$42,900,000
Capacity	Cost/square foot
308	\$276
Space per student	Completion
38 sq. ft.	July 2021
Imagas	

Justin Miers



COMBINED-LEVEL SCHOOLS

MAPLE RIVER SCHOOLS MAPI FTON. MINNESOTA







The Maple River school district engaged ISG to design one preK-12 facility to replace four decaying schools situated in separate towns. The group wanted the new school to accommodate 21st-century learning, improve efficiencies, address declining enrollment, and provide a renewed sense of pride in the community. The team oversaw a comprehensive design process with input from the community, teachers, administration, parents, and students. Creative strategies resulted in a collaborative design that aligns with the district's learning, inclusivity, and sustainability

goals. Because the facility was to operate as three separate buildings, the design has separate wings for the elementary, middle, and high schools and shared core spaces in the center.

Features include open areas, commons space, special education spaces, gender-neutral restrooms, music classrooms, a state-of-the-art auditorium, gymnasium, media center, student lounges and private locker rooms, and STEM and trades learning spaces. The site also has a playground, outdoor classrooms, a stormwater pond and separate areas for parking, buses, and student drop-off and





pickup. Safety and security measures are found throughout the campus, including a storm shelter.

ISG

Client Maple River Schools

Area 195,900 sq. ft.

Total cost \$48,443,590

Capacity 1,000

Cost/square foot \$247

Space per student 195 sq. ft.

Completion September 2022

Images Troy Thies Photography; Dan Moen, ISG



COMBINED-LEVEL SCHOOLS

MOUNTAIN VIEW SCHOOL

EASTHAMPTON, MASSACHUSETTS



ountain View School consolidates three aging elementary schools and a middle school under a single roof, providing educational equity to the Town of Easthampton through a state-of-the-art learning environment designed to serve its community for many years.

Through focused discus-

Caolo and Bieniek Associates

Client Easthampton Public Schools

Area 177,370 sq. ft.

Total cost \$88,244,292

Capacity 1,063

Cost/square foot \$498

Space per student 167 sq. ft.

Completion January 2023

Images Chodos sions, the design team translated stakeholders' visions into a light-filled, inspiring collection of collaborative spaces that support diverse personalities and learning styles. By organizing the building into grade-level communities, the school conveys a comfortable scale for its students, enabling them to better connect with their teachers and peers as they build agency within a safe environment. Community-shared program spaces, such as the gymnatorium, wellness center and two cafeterias, are situated at

the heart of the building. They serve as a buffer between the age groups during the



school day.

Nestled against parklands and with Mount Tom as a backdrop, the school's location is both beautiful and calming. Large windows and glazed entrance walls welcome visitors, and open, welllighted classrooms strengthen connections between the building, its occupants and the surrounding nature.





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OUTSTANDING DESIGNS

MHTN ARCHITECTS

SPROTTE + WATSON ARCHITECTURE AND PLANNING

PBWS ARCHITECTS

GROVER CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION Reseda, California......p. 72-73

MOSELEY ARCHITECTS

INDIAN LAND HIGH SCHOOL	
Lancaster, South Carolina p. 74	



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MOSELEY ARCHITECTS J.R. TUCKER HIGH SCHOOL, HENRICO COUNTY PUBLIC SCHOO

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DLR GROUP

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BRAY ARCHITECTS

SUN PRAIRIE WEST HIGH SCHOOL Sun Prairie, Wisconsin......p. 78

SCHRADERGROUP ARCHITECTURE

UPPER MERION AREA HIGH SCHOOL King of Prussia, Pennsylvania......p. 80



HIGH SCHOOLS

BRIGHTON HIGH SCHOOL

COTTONWOOD HEIGHTS, UTAH



Prighton High School is a phased onsite school replacement that offers stunning views of the surrounding mountains and valley. Designed for the district's curriculum, flexible and adaptable spaces provide opportunities for multidisciplinary student group collaboration, key in enhancing critical thinking,





creativity, and overall student experience. The school is organized along a central corridor that connects learning communities with amenities across campus, creating a comprehensive educational experience.

The use of color, natural light, and pattern inside the school strengthens wayfinding while creating comfortable and inviting spaces. Each level is branded with ideas that reference nature: trails, peaks, and waterways. Innovative spaces include an enhanced social commons,

MHTN Architects

Design team

Brian Parker (Project Executive); Scott Later (Project Manager); Tyson Stevens (Project Architect); Ben Hansen (Architectural Design Lead); Tammy Munson (Interior Designer); Vince Olcott (Landscape Architect); Hogan Construction (General Contractor)

Client

Canyons School District

Area	Total cost
409,500 sq. ft.	\$107,000,000
Capacity	Cost/square foot
2,500	\$261
Space per student	Completion
164 sq. ft.	December 2022
Images Paul Richer/Richer I	Images

CTE makerspaces, performing arts suite, and a media commons with multipurpose capacity. The athletic complex features include an arena-style main gymnasium, indoor turf fieldhouse, and outdoor rally plaza.

With over 50 years of history, the school has its culture and tradition embedded in the local community. As a next-generation learning facility, Brighton High School provides an educational environment that honors the school's legacy of excellence and academic success.



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CRAWFORD HIGH SCHOOL PERFORMING ARTS CENTER

SAN DIEGO, CALIFORNIA



"It is humbling to be a part of a community that values public education, and it is incredibly rewarding to see the results of that investment."

 DR. LAMONT JACKSON, SUPERINTENDENT, SAN DIEGO UNIFIED SCHOOL DISTRICT The new Performing Arts Center (PAC) for Crawford High School provides students a high-quality, college-like environment for them to thrive. The three-story steel moment frame structure is spacious and full of natural light. It is colorful, bright and has an inviting openness. The geometries of the space not only accommodate the specialty spaces and traditional classrooms, but also provide a multitude of areas for multisized







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Sprotte + Watson Architecture and Planning

Associated firms:

Wiseman & Rohy Structural Engineers (Structural); Pocock Design Solutions (Mechanical & Plumbing); Turpin & Rattan Engineering (Electrical); Jensen Hughes (Fire Protection & Smoke Evacuation); Salas O'Brien (Theater/Acoustic Consultant): Snipes Dye Associates (Civil Engineers); Simpson Gumpertz & Heger (Curtain Wall & Exterior Envelope Consultants); Parron Hall (Furniture Consultants); George Mercer Associates (Landscape Architect)

Design team

Patricia Sprotte (Principal/AOR); Russell Watson (Principal); Karyn Malmgren (Project Designer/Project Architect)

Client

Area

San Diego Unified School District

82,854 sq. ft. **Cost/square foot** \$724

Completion December 2022

Total cost \$60,000,000

Images Pablo Mason





groups or individual use. The main entry is a dynamic three-story atrium space that creates a three-tiered gathering area and offers visibility into the remaining sections of the building. The facility is an exciting commitment to the community, expanding personal education choices and opportunities while encouraging social interaction in a post-Covid era. It enhances learning and serves as a source of civic and community pride.

The facility has a 450-seat theater, drama/black box, stagecraft, band, choral classrooms, 15 standard classrooms, a law court classroom and campus administrative offices. Students and staff have specialized learning environments in which to grow and teach. Spaces are optimized for learning and health—providing indoor air quality (MERV13/CO2 monitors), acoustic comfort (with floating concrete slabs), high-efficiency HVAC (for



thermal comfort), and wide use of interior daylight through storefront, curtainwall and clerestory glazing. Building materials are selected for their design appropriateness, recycled content, durability, ease of maintenance and recyclability when replaced. The PAC provides the community with a valuable resource for education and a venue for community events, speakers, programs and theater.







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HIGH SCHOOLS

GROVER CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION

RESEDA, CALIFORNIA



The comprehensive modernization of Grover Cleveland Charter High School transforms the 1961 campus into a modern learning environment that respects its mid-century roots while strengthening campus life. The facilities were overcrowded and needed a major expansion to address educational & safety needs. The district's master plan called for replacing portable classrooms with 176,200 square feet of new construction for

PBWS Architects Associated firm:

Kemp Bros Construction

Client Los Angeles Unified School District

Area 176,200 sq. ft. (new construction)

Total cost \$105,000,000

Capacity 1,700

Cost/square foot \$597

Space per student 104 sq. ft.

Completion August 2022

Images Benny Chan performing arts, general & special education classrooms, science labs, drafting & engineering labs, media classroom, food services, child development, and support services. The project modernized two existing classroom buildings and completed a seismic upgrade of the gymnasium. We refinished 187,000 square feet of existing buildings remaining on campus to refresh and integrate them with the new construction. The solution focused on four design goals: 1) respecting the campus' mid-century design and site planning; 2) creating environments that promote and foster relationship building through seren-



dipitous social interaction, collaboration, extracurricular activities, and self-directed problem solving; 3) employing the tenets of biophilic design to improve cognitive






function, psychological and physiological health; and 4) emphasizing security, ease of maintenance, durability, and long-term performance.











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INDIAN LAND HIGH SCHOOL

LANCASTER, SOUTH CAROLINA





estled in one of the fastest-growing regions of the Charlotte Metro area, Indian Land High School combines innovative architecture with future-



focused education. Accommodating 2,000 students, the two-story facility offers a vibrant atmosphere that encourages students' enthusiasm for learning and brings to life a comprehensive, standards-based curriculum.

The expansive commons area welcomes students and visitors, leading them past the double-height administration suite, auditorium entrance, and dining area. This path is accentuated by the circular media center that hovers above.

Dynamic, multiuse spaces encourage students' overall development. The Career and Technology Building is an incubator for the next generation of professionals, hosting courses in automotive technology, agriculture science, JROTC, and vocational life skills. The school also offers expansive areas for arts and athletics, including a 1,000-seat auditorium and a 2,000-seat gymnasium.

An enclosed courtyard provides a se-



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cure environment for learning, dining, and socializing while also funneling natural light into the building. Sustainable features throughout the design enabled the school to achieve LEED Silver certification.

Moseley Architects Associated firms:

Cleveland Construction; KLG Jones; Foodesign Associates; Thorburn Associates; Campco Engineering

Design team

Bill Laughlin (Managing Principal); Garian Baker (Project Designer); Barbara Boykin, Eric Garcia (Architects); Justin Carlson (Mechanical Engineer); William Cary (Electrical Engineer); Robert Jones (Electrical Designer); Michael Caudle (Structural Designer); Steven Cooke (Structural Engineer); Ronald Crouch (RediCheck/Quality Control Reviewer); Nzinga Hawkins (Construction Contract Administrator)

Client

Lancaster County School District

Area	Total cost
311,432 sq. ft.	\$90,449,000
Capacity	Cost/square foo
2,000	\$290
Space per student	Completion
156 sq. ft.	August 2021
Images Peter Brentlinger	



J.R. TUCKER HIGH SCHOOL, HENRICO COUNTY PUBLIC SCHOOLS HENRICO, VIRGINIA



thoughtful update to Henrico County Public Schools' high school design to create parity between educational facilities across the district and a carefully choreographed phased



construction plan on a tight timeline moved J.R. Tucker High School into the 21st century. The updated design considered the many ways that the interior spaces needed to support several of the county's specialty programs. The design team captured additional square footage on the second floor above the culinary arts lab and serving lines to meet rising capacity needs without changing the building footprint. Flexible and multipurpose design criteria shaped the advancement of the prototype with a vertically connected library through the learning stair and extended learning spaces throughout the building.







Moseley Architects

Associated firms

Timmons Group; Downey & Scott; Foodservice Consultants Studio; Polysonics; France Environmental; Malone Photography; S.B. Ballard Construction

Design team

Stephen Halsey AIA REFP (Managing Principal); Corey McCalla AIA (Project Manager); Scott Shady (Construction Contract Administrator), Jackie Hall CID, Yvonne LeFrancois CID (Interior Designers); Kathy Brown (Architectural Support); Stephen Lyons PE (Mechanical Engineer); Russell Roundy (Electrical Designer); Josh Landis (Plumbing Designer); Michael Zazzaretti (Structural Designer); Chris Deker PE (Structural Engineer)

Client

Henrico County Public Schools

Area 265,000 sq. ft.

Capacity 2.000 \$99,950,430 Cost/square foot

\$377

Space per student 133 sq. ft.

Completion August 2021

Total cost

Images Maylone Photography



LIBERTY HIGH SCHOOL WINCHESTER, CALIFORNIA





iberty High School is an inviting campus centered on three academic concepts: small learning communities (SLCs); centers for applied learning; and the center for advanced science exploration. For the first time in its history, the district introduced SLCs as the organizing component for a campus. Four SLCs personalize the learning experience and create an intimate place where students can connect with their administrative team. Each of the four SLCs is composed of decentralized administration, a teacher professional center, and instructional areas to ac-



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commodate centers for applied learning that are defined from student interests, community input, local labor trends, and integration with local community college programs. The center for advanced science exploration, accessible to each SLC, provides specialized lab environments for the application and exploration of the sciences.

Transparency in the design allows for ease of supervision as students move in and about campus, using the entire site for learning. The learning commons is a flexible student-centered space where students can research and investigate. It can be used for individual, small, and large group learning activities. ■

DLR Group

Associated firm: NEFF Construction

Client Perris Union High	School District
Area	Total cost
268,000 sq. ft.	\$163,000,000
Capacity	Completion

Completion August 2021

Images Zack Benson

2,600



RICHARD H. HUNGERFORD SCHOOL

STATEN ISLAND NEW YORK



he Hungerford School in Staten Island is a groundbreaking institution designed by DRG Architects and the New York City School Construction Authority. It provides a safe, nurturing

environment for 456 students ages 14 to 21 who have diverse physical, emotional, and coanitive needs.

The school's program reflects a curriculum that emphasizes vocational studies







suring efficient circulation. The school

features three high-capacity double-door elevators and expansive hallways with handrails to address this. Additional accessibility features include lower windowsills for wheelchair users, hearing loops in classrooms for those who are hard of hearing, non-flickering indirect lighting, non-reflective surfaces, and noise reduction measures to prevent overstimulation. The covered bus zone was designed to accommodate 10 buses simultaneously, making pickup and drop-off convenient for students and aides.

The Hungerford School is committed to preparing its students for life beyond their academic studies and sets the standard for special-needs educational facilities.



DRG Architects

Design team

Hany Y. Salib AIA, NCARB (President/ CEO | Principal-in-Charge); Timothy Margolin AIA, NCARB, LEED BD + C (Principal | Project Manager); Victor Rodriguez AIA, NCARB (Senior Associate | Director of Design)

Client

New York City School Construction Authority

Area	Total cost
94,575 sq. ft.	\$78,118,615
Capacity	Cost/square foot
456	\$826
Space per student	Completion
207 sq. ft.	September 2022
Images	

laylor Photo

and life skills development. Specialized learning spaces included are a teaching kitchen, life skills room, mixed media room, communal cafeteria and accessible playground to promote socialization, and physical therapy rooms. One fundamental challenge was en-



SUN PRAIRIE WEST HIGH SCHOOL

SUN PRAIRIE, WISCONSIN







n a rapidly growing school district in Wisconsin, the new Sun Prairie West High School provides numerous amenities and educational opportunities as the second high school in the district. The facility emphasizes connectivity, transparency, and flexible educational spaces to support all programs within the school.

Bray Architects

Design team

Matthew Wolfert AIA, NCARB, LEED® AP (Principal + Architect); Ryan Sands AIA, NCARB (Vice President + Architect); Steven Kuhnen AIA (Director of Design); Chris Eger AIA, LEED AP, BD+C (Project Leader, Architect + Associate); Maria Welch AIA, NCARB, WELL AP (Design Specialist, Architect + Associate); Nathan Derks AIA (Project Leader, Architect); Mark Roeder, Assoc. AIA (Project Specialist); Tim Kollar (Senior Project Specialist); Jennifer Doering, Allied ASID (Interior Designer)

Client

Sun Prairie Area School District

Area	Total cost
450,000 sq. ft.	\$119,300,000
Capacity	Cost/square foo
1,800	\$265
Space per student 250 sq. ft.	Completion August 2022
Images Bill Fritsch Harper	Fritsch

Bray Architects designed a three-story high school that supports the district's forward-thinking interdisciplinary curriculum with innovative learning communities. Each community includes collaboration areas and a central commons area equipped with a 21st-century technology bar, project area, and flexible furniture. Programs throughout the school also support students' individual talents and interests, such as the Career and Technical Education programming that are prominently placed to enhance visibility and encourage student participation.

The building's footprint centers on the unique courtyard designed to maximize natural light, provide views of the surrounding nature, and continue learning



outside. Interior design elements infused with neutral tone material provide a sense of place where students feel connected as well as wayfinding environmental branding graphics that evoke school pride and reinforce the school's identity.



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Q&A with Ecore

How does Ecore's wide range of indoor/outdoor surface solutions benefit schools and universities?

Our broad portfolio of products, from outdoor tracks and multi-purpose courts to indoor flooring for weight rooms, locker rooms, classrooms, corridors, common areas, dorms and more, allows customization in each space—aesthetically and functionally—to deliver long-lasting looks and needed performance.



Featuring a synthetic wood-grain surface fusion bonded to a 5mm performance backing, Ecore's Bounce 2 delivers the look of real wood in a product that is more economical, ergonomic, safe and durable.

Our patented itsTRU[™] technology allows us to fusion bond any wear layer, including vinyl and non-PVC surfaces, rubber and turf, to a rubber backing. This results in tailor-made floors that support every area of an educational facility providing safety, comfort and durability while surpassing industry standards for impact absorption and noise reduction.

Aesthetically, specifiers can choose from natural wood-grain visuals in a sheet product for basketball courts or performance vinyl tile (PVT) for dorm rooms and corridors that are durable and easy to install and maintain. With a broad range of colors and visuals to choose from, our ability to create custom school logos is icing on the cake.

Why is it important to choose the right flooring for applications like weight rooms, courts, locker rooms, classrooms, corridors, common areas and administrative offices within schools and universities?

The right flooring enhances performance, creates a conducive learning and working environment, aligns with sustainability and compliance goals, and provides comfort to reduce fatigue where students and staff spend long hours—all while supporting the design of each space. Helping to ensure the safety of students and staff by meeting ergonomic requirements and offering slip-resistant surfaces to reduce falls go beyond how typical floors perform. Choosing durable, easyto-maintain materials keeps floors looking newer longer, even in heavy traffic areas, and reduces maintenance and replacement costs. Flooring can also positively impact the acoustics within a space, reducing footfall and other noise to improve productivity and align with a school's sustainability goals by providing a truly circular flooring solution. Finally,



Ecore can work with K-12 schools, as well as colleges and universities, to install flooring with custom logos and school colors. For example, the company customized its Performance Beast Plus floor for Arizona State University's student fitness center.

by choosing the flooring to meet the specific needs of each space, schools can avoid unnecessary expenses and reduce the total cost of ownership.

In an era where environmental responsibility is crucial, how does Ecore ensure that its flooring solutions align with the sustainability goals of educational institutions?



Ecore's Monster Roll was installed in the free weight and heavy training areas at Spooky Nook Sports, the largest indoor sports complex in North America, located in Manheim, PA. The inlaid Ecore logo serves as another example of the kind of custom creations the company can manufacture.

At Ecore, we've worked for over 40 years to upcycle rubber, keeping this extraordinary, renewable material out of landfills and transforming it into high-performance surfaces for every area of an educational facility, including gyms, classrooms, sports courts, wet areas and outdoor spaces. These surfaces help people live healthier, safer and stronger lives—and provide safety, comfort and durability for users.

In 2023, Ecore will have diverted more than 300 million pounds of truck tires from landfills, avoiding more than 3,300 tons of CO2 emissions. On average, our products contain 62% post-consumer recycled content.

Circularity is our passion, and we want you to be a part of it. After your surfaces have lived a good, long life, we want to recycle your old rubber into new Ecore products, ensuring no rubber is wasted, burned or discarded. We call this the Ecore TRUcircularity Program. Join us in going full circle!



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UPPER MERION AREA HIGH SCHOOL

KING OF PRUSSIA, PENNSYLVANIA



pper Merion Area High School offers students career-oriented and higher education-level spaces where they can actively participate in 21st-century learning activities focused on "research, develop, and present!" The facility seamlessly integrates with the existing middle school, connecting through athletic and performing arts components. Student services, technology distribution, and support spaces are situated between the commons

SCHRADERGROUP architecture

Design team

Snyder Hoffman Associates (MEP Engineering); Renew Design Group (Site/Civil Engineering and Landscape Architecture); William H. Lane (Construction Manager); Wallover Architects (Aquatic Design Consultant)

Client

Upper Merion Area School District

Area 345,000 sq. ft. **Capacity** Total cost \$138,000,000 Cost/square foot \$400

Space per student

230

1,500

Completion

August 2022 (building); August 2023 (site)

Images

Todd Mason, Halkin Mason Photography space and the academic area.

The student commons is a two-story open space with learning resources on the second level to enhance the research and project-based components mixed with dining and food-based opportunities. After hours, the "commons" space provides pre- and post-activity support for both the athletic and the performing arts complexes.

A three-story academic wing supports the core academic programs with a STEAM-based center, multiple project and team-based spaces, and a three-story learning stair. The learning stair connects all core programs vertically to enhance the cross-pollination of learning activities.







Transparency is a key aspect of the facility's design and is used to promote the visual connection between the learning activities.



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TBA STUDIO

HARLEY ELLIS DEVEREAUX

LYNDA AND STEWART RESNICK STUDENT UNION Fresno, California......p. 88-89







STANTEC

FLEISCHMANGARCIAMASLOWSKI ARCHITECTURE

UNIVERSITY OF SOUTH FLORIDA JUDY GENSHAFT HONORS COLLEGE Tampa, Florida......p. 92-93

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ADVERTORIAL

Q&A with Amanda Vigneau IIDA, NCIDQ, Director, Shepley Bulfinch



Who is Shepley Bulfinch and what is your expertise within education?

Shepley Bulfinch is a national architecture and interior design firm that tackles complex challenges, focus-

ing on visionary design in education, healthcare, urban development and science and technology.

My expertise in higher education has lived primarily within student life and learning environments. Student life spaces are about creating interior environments and programs that are interconnected and reflect what students really need outside of classrooms. We approach each of our student life projects with deep empathy to result in institutional aesthetics that reflect their unique identity. For learning spaces, it's heavily routed in project-based learning, adapting technology to facilitate learning and understanding, and achieving the right amount of flexibility in an environment to connect students and faculty. It takes time to understand where an

Innovation and Collaboration

institution is with this type of learning integration, how faculty and staff are supported to teach in that modality, and what level of in person, hybrid, or virtual learning experiences they want to create students' best academic experience.

What emerging trends is Shepley Bulfinch seeing from the education projects you work on?

We have seen a rise in spaces and buildings needing to do more than one thing: classrooms and faculty meeting spaces doubling as group study and student ora meetina rooms, buildinas supporting one type of activity during the day and another at night. Colleges and universities are acknowledging the need for spaces and buildings to be multifunctional. Many are looking to renovations or additions to repurpose, reimagine and rethink the way existing buildings are used to get the best utilization, academically and programmatically. We've seen further blending of typologies coming from the fact that students' campus experience depends on their ability to feel fully supported and to be their most authentic self in areas to live, learn and those third spaces in





Wabash College, Student Engagement

holistic sustainability, student life and academic success need to be layered into all the spaces we are thinking about.

What is the driving force behind your involvement in education?

I have always loved learning. I'd be the first to raise my hand in class and enjoyed the schoolmate comradery as we took on new learning moments together. As a college student at Wellesley College, I was challenged in ways I could not have imagined and watched as the school made commitments to create a sense of student belonging, not only in the services they offered but also in their shaping of interior spaces. I've always deeply felt and understood my own openness to learning and connecting with my classmates, instructors, and the school itself. You need to be comfortable enough to bring your whole self to an experience to get the most out of it. Finding my way to the Interior Design profession, I knew I had to be a part of the design world that shaped student spaces to help them feel connected, inspired, excited to learn and most of all, supported completely.

SHEPLEY BULFINCH

99 Chauncy Street, Boston, MA www.shepleybulfinch.com press@shepleybulfinch.com

Credit: Anton Grassl



POSTSECONDARY SCHOOLS

BINGHAMTON UNIVERSITY SCIENCE II RENOVATION

BINGHAMTON NEW YORK



he building's existing hollow metal, single-glazed window system was removed, and a rain screen system with punched openings of thermally







curred at all transitions between the new rain screen system and the existing exterior masonry walls. The renovated interior considers future use of the space and opportunities for

program changes. Centralized accessible toilet rooms, new labs, and accessible entrances support building occupants. Building systems were upgraded for

energy efficiency. The exhaust system was redesigned from an individualized exhaust system to a central heat recovery exhaust system. LED lighting with daylighting controls was installed throughout the building. The design provided collaboration spaces outside of learning spaces, with natural light and views of the exterior courtvards.

Material, color, and furniture selection optimized work/study conditions, using natural materials with a mixture of seating options.

Popli Design Group

Associated firm: M/E Engineering

Design team

Michael Short AIA; David Giovine AIA; Rohit Agrawal AIA

Client

Area

State University Construction Fund on behalf of Binghamton University

Total cost 167,748 sq. ft. \$19,200,000

Cost/square foot Completion January 2021 \$114

Images Gene Avallone; Michael Short

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THE CHESS (COMMUNICATION AND HEALTH, EXERCISE & SPORTS SCIENCE) BUILDING

RAI FIGH NORTH CAROLINA



n fall 2022, Meredith College

Exercise & Sport Sciences proudly opened its newest (CHESS). The decision to build academic/athletic build- this facility was based on ining: Communication, Health, creased enrollment in these







areas of study.

Entering the building, one is immediately drawn to a water wall featuring the college's insignia. The high ceilings and furnishings make this a popular gathering space for students.

The new facility houses instructional space for the growing communication program, including a news media studio, podcast studio, editing suite, and agency-style classroom. The Health, Exercise & Sport Science space offers a state-of-the-art physical testing lab and instructional space. Athletic offices are also housed here.

The CHESS building has several interior and exterior energy-saving features, including window and door frames insulated to prevent thermal transfer, roof insulation that is on average three times the basic building code requirement, LED lighting, daylighting, and a super-high-efficiency central air-cooling system.

This space allows for cre- in the digital age.

Design Development Architects

Design team

Jim Sherrer, Jr. AIA (Principal In Charge); Tom Wells AIA, LEED AP (Project Architect); Trevor Cundiff (REVIT Modeler); Fluhrer-Reed (Structural); Crenshaw Consulting Engineers (MEP); Inland Construction Company-NC

Client Meredith College

Area 13,120 sq. ft.

Total cost \$4,255,950

Capacity 130

Cost/square foot \$324

Space per student 101 sg. ft.

Completion September 2022

Images Meredith College; Design Development Architects

ativity, collaboration, and flexibility in the ever-changing landscape of communication

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LOUISIANA DELTA COMMUNITY COLLEGE, RUSTON CAMPUS RUSTON, LOUISIANA







BA Studio was selected to design a new nursing, welding, and workforce training campus in Ruston, Louisiana. These facilities were a full rebuild of the previous Louisiana Delta Community College Ruston Campus off Interstate 20. The new campus provides general education space, classrooms, collaboration spaces, administrative, security and support areas. The campus also includes a separate building that houses the vocational welding facility. The new campus provides improved facilities as well as new collaboration opportunities for students and faculty. TBA designed designated spaces for each specific educational concentration. These spaces range from a simulation hospital to a vocational training lab. There are areas for student lounge and collaboration spaces. These spaces fill the two-story building as well as the vocational welding shop. Large double-height glass greets the students and faculty in a large lobby. The use of ACM and wood grain finished metal panels gives the building a sophisticated and modern appearance while mixing with the traditional brick elements that complement the existing Louisiana Delta Community College campuses.



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TBA Studio

Associated firms: Lazenby & Associates (Civil Engineer); Purtle & Associates (MEP Engineer); Smith Engineering (Structural Engineer)

Design Team

Tim Brandon, Hannah Terrell, Hannah Burch, Clint Whittington, Kade Brandon, Michael Bozeman, Dale Demoss

Client LCTCS Facilities Corporation

Area 26,270 sg. ft.

Total cost \$8,000,000

Cost/square foot \$305 Completion

Images Matthew Cassity ADVERTORIAL

Q&A with Will Haas Sr. Product Manager - Handwashing, Bradley Corporation



What are the benefits of using a lavatory system in my school's restroom?

Lavatory systems are designed to be highly durable, hygienic and customizable, making them ideal for school applications. Bradley's lav systems are made of resilient and repairable materials including Terreon® solid surface and Evero® natural quartz surface. These resilient, yet beautiful, materials withstand everyday use and high traffic, and are easy to maintain. Terreon and Evero are sustainable and Greenguard certified.

These materials also help prevent bacteria and mold accumulation since they are nonporous, smooth and seamless. With no tight corners, caulk lines or crevices, they are easily cleaned, disinfected, repaired, reused, and have a longer lifecycle than china or laminated products.

Bradley lavatory systems are castformed into a single basin with a single drain rough-in and single set of supplies, saving time and money.

What design options are available with Bradley lavatory systems?

Bradley's lavatory systems made of Terreon and Evero materials come in a multitude of sizes, modern shapes, attractive styles, and popular colors for maximum design flexibility. An array of



New multi-user models like Express TLX 4-Station lavatory systems provide durability, value and hygiene while delivering long-lasting performance.

touchless handwashing fixture options in a selection of finishes add even more versatility.

Evero is featured in Verge[®] washbasins, which are cast into a variety of round and curved shapes with no fabrication or seams. Terreon basins, including Express[®] lavatories and custom OmniDecks[™] are also seamless, vandal resistant and last the life of the building.

Our newest model, the Express® TLX 4-station lavatory system, has an extended multi-user design featuring an elongated basin made of Terreon that comfortably provides handwashing space for up to four users. Economical, easy to specify and ADA compliant, its longer, open trough design is compact enough to save on wall space, expanding flexibility.

What type of handwashing fixtures are recommended for Bradley lavs?

Bradley's matching Verge[™] soap and faucet sets beautifully complete the look of a lavatory with a uniform and harmonious aesthetic. These touch-free handwashing pairs are available in four modern styles and six attractive finishes to complement the look of any school washroom. Advanced sensor technology eliminates false activations and optimizes power consumption. Cast brass spout construction with thoughtful spout designs increase space for handwashing and cleaning while hidden sensors deter tampering.

Verge handwashing sets are designed with soap options above the deck for



Top fill multi-feed soap systems enable staff to easily refill multiple soap dispensers through a single top fill port.

easy access. In addition to spout refills, an innovative top fill multi-feed soap system is available. This system features a large capacity 1.3-gallon (5.0 L) tank that accepts foam or liquid soap. Its smart sense system with LED light allows maintenance staff to efficiently refill multiple soaps through a single top fill hub. Audible and visual alerts aid the refill process to prevent overfilling and spills.



Bradley Corporation www.bradleycorp.com will.haas@bradleycorp.com

POSTSECONDARY SCHOOLS

LYNDA AND STEWART RESNICK STUDENT UNION

FRESNO, CALIFORNIA



The Lynda and Stewart Resnick Student Union is sited on an open area of about 3.5 acres created by the demolition of the 1957 Keats Campus Building and an open amphitheater built in 1967.

The program is sculpted into two distinct building masses. The multipurpose ballroom is a one-story element on the east side of the complex, and the other uses are stacked into a three-story structure aligned along the western edge of the site, facing the library and the University Student Union. Indoor WOW spaces open directly to outdoor landscaped spaces surrounding the building's large two-story eastern curtain wall glazing.

The primary exterior surface is com-







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posed of structurally insulated concrete panels that provide both gravity and lateral resistance. These cost-effective, premanufactured panels provide structural support and exterior finish consistent with Fresno State vernacular; they promote sustainability by reducing materials, providing sun-shading and improving interior flexibility with fewer shear walls or braces.

Site improvements include outdoor plazas, an amphitheater, and lawn areas that provide engaging spaces accommodating a wide range of uses. The ballroom plaza on the east complements indoor programming and provides additional spill-out space. The amphitheater and lawns offer their own unique programmable space while complementing and enlarging the indoor Town Center space to accommodate larger groups and programmed events. The north, south, and west plazas are designed as potential locations for mobile concessions.

This project achieves Leadership in Energy and Environmental Design (LEED) Gold equivalency. Sustainable design fea-

Harley Ellis Devereaux

Associated firm:

McCarthy Building Companies (Design-Build Contractor)

Design team

Blair, Church & Flynn; Quadriga; Miyamoto; Intech Mechanical; The Engineering Enterprise; Cosco Fire Protection; Ricca Design Studios; CTU Precast

Client

California State University, Fresno

Area 84.000 sa. ft.	Total cost \$60.000.000
Capacity	Cost/square foo
2,813 Completion	\$715

October 2022

Images Cary Edmondson





tures include environmentally responsive stormwater management systems; reuse of existing amphitheater concrete; recycle & composite trash yard; water-efficient landscaping; high-efficiency irrigation system for water reduction measures; integrated sun shades; photovoltaic panels for 25% of building energy load; energyefficient LED lighting fixtures; indirect daylighting; low-flow plumbing fixtures; and incorporation of a cool roof.





"Together with Lynda and Stewart Resnick, this partnership represents a shared commitment to empower students to use their passions to ignite change in our community, and beyond, for years to come."

– SAÚL JIMÉNEZ-SANDOVAL, PRESIDENT, FRESNO STATE UNIVERSITY



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POSTSECONDARY SCHOOLS

SAN ANTONIO COLLEGE SCIENCE BUILDING

SAN ANTONIO, TEXAS



he new Science Building at San Antonio College offers contemporary laboratories to support the college's multiple science education programs with a focus on biology, microbiology, anatomy and physiology.

Because of the placement of under-

O'Connell Robertson

Gessner Engineering; IES (Intelligent Engineering Services); True North Consulting; Coleman & Associates; Vaughn Construction

Design team

Chris Narendorf (Principal); Misela Gonzalez-Vandewalle (Project Manager/Architect); Jayna Duke (Project Designer); Cindy Villarreal (Laboratory Planner and Designer); Davis Eubanks (Project Architect); Patricia Runge (Interior Designer)

Client

Alamo Colleges District, San Antonio College

Area	Total cost
19,000 sq. ft.	\$15,600,000
Capacity	Cost/square foot
400	\$821
• · · · ·	- I.I.
48 sq. ft.	Completion September 2022

ground utilities, the building was limited to half the site. In response, the team maximized flexibility of the labs with efficient design and by adding utilities to equip select labs for microbiology. Outdoor space was put to use with plentiful power stations, marker boards, and Wi-Fi.

The purpose of the building was embedded in every detail. Organized into seven labs and three prep rooms combined into a linear equipment corridor, the design centers on the students and employs strategies from research facilities. The corridor enables techs to prep materials while classes are in progress for efficiency of time and space. Labs were designed from the benches up based on







student needs. Utilities were positioned to provide students with a clear view of the teacher at the front. The teaching space includes a sink, whiteboard and display screens for clear demos.





THE SCIENCES & ENGINEERING CENTER AND THE COMMONS

WEST CHESTER, PENNSYLVANIA



he president of West Chester University (WCU) challenged the design team to find the highest, best use for the last developable spaces on cam-





pus with a resource that promotes impactful research, campus life, and meaningful education for the growing community while restoring programs that had been relegated to satellite locations.

Institutional and student success comes from cross-disciplinary discovery and ideation, opening avenues to new programs, innovations and areas of research. The architect examined alternative spatial strategies to support WCU's academic mission for a synergistic intercollaborative learning laboratory in the heart of campus.

Collocating Physics, Health Sciences and Biomedical Engineering programs, the Sciences & Engineering Center and The Commons creates an intersection of disciplines, breaking down traditional academic silos. This transformative facility puts learning on display in a setting accessible to the entire student population, increasing interest in the burgeoning fields of sciences and engineering, and





offering a broad range of general-use classrooms, lecture facilities, and student services such as board dining.

A bleak part of campus, previously defined by surface parking and a decommissioned boiler plant, has been transformed into a student-centered hub of scientific inquiry abuzz with social connections.

Stantec

Design team

Studio Sustena (Landscape Architecture); Stantec (Civil, MEP Engineering and Lab Planning); Thornton Tomasetti (Structural Engineering); Corsi Associates (Food Service); Shen Milsom Wilke (AV/IT/Security); Re:Vision Architecture (LEED Consultant); Mark Harris Lighting Design (Lighting Consultant); Becker & Frondorf (Cost Consulting); Tim Haahs & Associates (Parking Garage Consultants)

Client

West Chester University

Area 175.000 sq. ft	Total cost
Capacity	Cost/square foot
1,800	\$463
Completion May 2023	Images @TomHoldsworth

POSTSECONDARY SCHOOLS

UNIVERSITY OF SOUTH FLORIDA, JUDY GENSHAFT HONORS COLLEGE TAMPA, FLORIDA



he new University of South Florida (USF) Honors College is a six-level facility on the main USF campus in Tampa, FleischmanGarciaMaslowski designed this facility in collaboration



with Morphosis. The design includes an enclosed but transparent ground level, event spaces, classrooms, including an art classroom, art display spaces, music room, video and sound recording rooms, and offices. Communal spaces are provided on the first and second level, including an exterior covered terrace. More Honors College programs are on the third, fourth, fifth and sixth levels. A centrally situated atrium connects all users into a single spatial experience with collaborative spaces hanging around the atrium. The transparency of the lobby and the exterior amphitheater interface with the active pedestrian Sessums



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Mall as students approach the building from the rest of the campus. Enclosed with full-height glass for maximum views on the south side, the interior café space extends to an outdoor space for additional outdoor seating. The new Honors College strives to achieve LEED Silver certification.

FleischmanGarcia-Maslowski Architecture

Associated firms: Morphosis Architects, Walter P. Moore, Campo Engineering, Nichols Landscape Architecture

Design team

Sol J. Fleischman Jr. (Principal In Charge); Thom Mayne (Lead Designer); Marcel Maslowski (Project Manager); Ung-Joo Scott Lee, Edmund Kwong (Project Architects); Stacey Johnston (Interior Designer); Richard J.A. Temple PE (Structural Engineer); Bill McGuirk (Electrical Engineer); Timothy Thierault (Mechnical Engineer); Lauren Campo (Civil Engineer); Celia R. Nichols (Landscape Engineer)

Client

University of South Florida

Area	Total cost
86,000 sq. ft.	\$47,300,000
Completion	Images













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UNIVERSITY OF TENNESSEE ZEANAH ENGINEERING COMPLEX KNOXVILLE TENNESSEE



n collaboration with SmithGroup, Mc-Carty Holsaple McCarty designed the University of Tennessee Zeanah Engineering Complex to contain flexible laboratory spaces, laboratory support spaces, general-purpose classrooms,



reconfigurable collaborative spaces, innovation labs, makerspaces, and administrative spaces. The facility is a new gateway to the Tickle College of Engineering and home to the top-ranked Department of Nuclear Engineering. It provides stateof-the-art instructional spaces along with research and development spaces for the department, including safe and secure laboratories handling isotopes.

Three floors of Active Learning Class-

McCarty Holsaple McCarty Architects

Associated firm: SmithGroup

Design team

Civil & Environmental Consultants (Civil); Newcomb & Boyd (MEP); Ross Bryan Associates (Structural); Ross/Fowler (Landscaping); West, Welch, Reed Engineers (Mechanical Engineering)

Client

University of Tennessee Total cost

Area 232,250 sg. ft.

Capacity 3 269

71 sq. ft.

Completion Space per student August 2021

\$107,490,000

\$463

Cost/square foot

Images Denise Retallack



rooms are dedicated to Engineering Fundamentals. A robust audiovisual infrastructure and an AV control interface are carefully planned for flexible space usage. The design and function are focused on innovative hands-on learning, student and faculty research needs, technology-rich learning spaces, and long-term flexibility to optimize adaptation to emerging programs and technologies.

This facility incorporates sustainable elements such as the university's first major green roof. Adhering to the university's sustainability goals, the facility meets the Tennessee Higher Performance Building Requirements and the State of Tennessee Sustainability Design Guidelines.





SPECIALIZED FACILITIES

CITATION



MOODY NOLAN

The Parr Center Charlotte, North Carolina......p. 96 "The unique shape of the building engages outdoor space on both levels. A thoughtful approach to site location that leverages circulation pathways to expose students to the unique programs housed in the building."

—2023 JURY

OUTSTANDING DESIGNS

PBK

ANGLETON HIGH SCHOOL CTE	
Angleton, Texasp. 9	7

KINGSCOTT

GULL LAKE CENTER FOR THE FINE ARTS
Richland, Michiganp. 98

BAKER BARRIOS ARCHITECTS

HILLSBOROUGH COMMUNITY COLLEGE	
NEW ADMINISTRATION BUILDING	
Tampa, Floridap.	99

SVIGALS + PARTNERS & LITTLE DIVERSIFIED ARCHITECTURAL CONSULTING



SPECIALIZED FACILITIES

THE PARR CENTER

CHARLOTTE, NORTH CAROLINA

CITATION



s the largest community college in the area, Central Piedmont endeavored to expand on-campus amenities. Guided by student input, the programs are centered on creating a unified space for the commuting student body to gather. The resulting program features a range of services from dining to a student art gallery, wrapped with a multitude of study spaces equipped with technological resources for students who may not otherwise have access.



Nestled within a hillside, the multilevel site positions the building as an interior street, connecting the upper campus quad to the street level below. With four front doors across two stories, the building unites circulation patterns with terrazzo flooring, used in contrasting colors to resemble a social media hashtag—a metaphorical representation of the social activity within.

The interior design strategy sought to create a modern environment for today's students that harmonizes with the traditional architectural language of the campus. Balancing the brick-clad exterior with a transparent glass facade activates the building and connects students to the social activity outside. Playful geometric angles within the space help create continuous sightlines within the building while visually connecting activity between levels.



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"The unique shape of the building engages outdoor space on both levels. A thoughtful approach to site location that leverages circulation pathways to expose students to the unique programs housed in the building."

-2023 JURY

Moody Nolan

Associated firms: Morris-Berg Architects, AOR

Design team

Mark Bodien AIA, NCARB, LEED AP (Project Manager); Julie Cook AIA, LEED AP (Project Architect); Paul Milar (Project Designer); Stacie Gilliland NCIDQ, Isoke Miller-Harris NCIDQ (Interior Designers); Earl Lee and Todd Nichols LEED AP (Experiential Designers). Morris-Berg: Todd Berg AIA (Principal in Charge); Matthew Hart AIA (Project Manager); Tarik Hameed AIA (Project Architect)

Client

1,200 to

Г

Central Piedmont Community College

Area	Total cost
182,650 sq. ft.	\$79,000,000
Capacity	Cost/square foot

y (Cost/square too
1,500	\$433

ompletion	
ecember 2021	

Images Mark Herboth



ANGLETON HIGH SCHOOL CTE

ANGLETON, TEXAS



s part of a 2019 bond package for Angleton ISD, PBK was tasked with designing a new Angleton Technology Education (CTE) Center. The new 127,715-square-foot center is on Angleton ISD High School's campus and was built to accommodate an enrollment increase in the district's CTE curricula of over 1,100 additional students in one academic year. The new building houses programs for culinary arts, horticulture, vet tech, ag fabrication, engineering/robotics, welding, construction sciences, digital design/AV production, health sciences, information technology, entrepreneurship, education, and law enforcement. Cosmetology, vet tech, and culinary arts accommodate direct patronage access from the community.









PBK

Client Angleton Independent School District

Area 127,715 sq. ft.

Total cost \$43,181,779

Capacity 650

Cost/square foot \$338

Space per student 196 sq. ft.

Completion June 2022

Images Jud Haggard



SPECIALIZED FACILITIES

GULL LAKE CENTER FOR THE FINE ARTS

RICHI AND, MICHIGAN



physical manifestation of the district's commitment to arts education and performance, the Gull Lake Center for the Fine Arts (GLCFA) provides a comprehensive pre-K-through-12 experience in the arts. This premium performance and teaching venue features an 880-seat auditorium alongside a full art gallery space.

Built with state-of-the-art technologies, the GLCFA has a performance stage and orchestra pit as well as dressing rooms with hair and makeup stations, a green room, a costume and staging area, and a scene shop. Industry standard lighting, acoustics, sound and technology are managed by a control/ effects room. The lobby area doubles



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Kingscott

Design team

Brendon Pollard (Project Director); Rob Atkins (Project Manager); John Davids (Design Architect); Jessica Rousseau (Project Architect); Dana McClellan (Interior Design)

Client

Gull Lake Community Schools

Area 29,012 sq. ft. Capacity

\$11,300,000 Cost/square foot \$389

880 seats Completion April 2022

Images Jason Keen;

Kristin Keirns

Total cost

as an art gallery space with seating areas and display lighting to accentuate the artwork and enhance the viewer's experience.

The front exterior is designed with three symmetrical outsets from the brick building that feature large windows and blue tiling in the district's school colors. A custom-designed logo sculpture graces the entrance façade and repeats the forms in the building's exterior outsets.







HILLSBOROUGH COMMUNITY COLLEGE NEW ADMINISTRATION BUILDING TAMPA, FLORIDA



A new administration building is on the Hillsborough Community College Dale Mabry Campus. A public lobby spans the width of the building and provides access to the north, east, and west. The office departments are accessible beyond a security checkpoint adjacent to the main lobby. The ground floor includes a board room and conference room conveniently situated off the public lobby, reducing the need for the public to proceed past the security checkpoint. This building has three stories and is 52 feet high to the top of the tallest parapet.

One of the main features of this project is the curved metal screen wall. The wall curves toward and frames the main entry of the building. It is the featured architectural moment in the building, providing a contrast to the rectilinear office building beyond.

The facades of this project are tilt-wall concrete, finished and painted with gray tones to provide a neutral background to the metal screen wall feature at the front of the building. The corners on the east and west facades have a distinct finish that appears as though the north and south facades are separated.







Baker Barrios Architects

Associated firms

Stantec; Master Consulting Engineers; TLC Engineering Solutions

Design team

Kris Young (Project Architect); Sydney Moeller (Interior Designer); Stantec (Civil); Master Consulting Engineers (Structural); TLC Engineering Solutions (MEP)

Client Hillsborough Community College

Area 45,000 sq. ft.

Total cost \$12,928,000

Cost/square foot \$287

Completion January 2023

Images John Jernigan



SOUTHERN CONNECTICUT STATE UNIVERSITY, HEALTH & HUMAN SERVICES BUILDING

NEW HAVEN, CONNECTICUT



The demand for well-trained health and human services (HHS) professionals has never been greater, and increasingly, these professionals are called upon to work together to best serve their patients, clients, and communities.

The new Southern Connecticut State University Health & Human Services Building delivers on an overarching university goal to promote interdisciplinary teaching and research while dramatically enhancing the student experience across a variety of health-related fields.

The four-story project consolidates multiple HHS departments from across campus into one multi-departmental interdisciplinary building providing a home for the program's students and faculty. The new building houses the School of Nursing and most departments within the college, including communication disorders, health & movement sciences, public health, recreation, tourism, sport management, and health systems & innovation.

Collaboration and engagement with the state, university, and design firms identified key goals to strengthen the sense of place while enlivening the learning experience to fulfill Southern Connecticut's master plan and vision for the campus.



Svigals + Partners & Little Diversified Architectural Consulting

Associated firms

Salas O'Brien (MEP Engineer); MHA (Structural Engineer); Shen Milsom & Wilke (Technology Consulting); Richter & Cegan (Landscape Consultant)

Client

Southern Connecticut State University

Area 94,750 sq. ft. **Total cost** \$52,000,000

Completion August 2022

Images Peter Aaron/OTTO



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SPECIALIZED FACILITIES

WASHTENAW ISD, HIGH POINT SCHOOL

ANN ARBOR, MICHIGAN







igh Point School serves about 70 special needs students from each of Washtenaw ISD's nine local school districts. The building has 32 classrooms, 118,000 square feet of new space and over 12,000 square feet of renovated space, including the pool and gymnasium.

To support attending students, many design elements are unique and accessible. This includes oversized, automatic doors and wide corridors for easier traffic flow. Hallway parking considers spaces for student equipment. All building areas

feature flexible lighting with controls to calibrate lighting temperature from cool to warm colors as well as dimmers to adjust brightness.

New spaces designed for the socialemotional needs of students have features to prevent triggers, including quiet rooms where students can decompress, updated acoustics in classrooms to reduce noises, and subtle, strategic colors. Two gross motor rooms have been equipped so that students can get up and out of their apparatus with chairs



and swings.

The school is now an equitable space, and all students have access to mainstream classes.

TMP Architecture

Associated firms

Mitchell & Mouat Architects; Peter Basso Associates; IMEG

Design team

John Castellana FAIA, REFP

Client

Capacity

70

Washtenaw Intermediate School District

Area 132,894 sq. ft.

Total cost \$39,352,735

Cost/square foot \$296

Space per student 1,898 sq. ft.

Images

Completion December 2021

Christopher Lark Photography





OUTSTANDING DESIGNS

C2AE

LANSING SCHOOL DISTRICT, EVERETT HIGH
SCHOOL RENOVATION
Lansing, Michiganp. 103

FFKR ARCHITECTS

POLK ELEMENTARY SCHOOL RENOVATION
AND ADDITION
Ogden, Utahp. 104

SIZEMORE GROUP

RENOVATION AND EXPANSION OF BUILDING 100 Lawrenceville, Georgiap. 106-107







EDGE ARCHITECTURE ROCHESTER PREP HIGH SCHOOL Rochester, New York.....p. 108-109

GMB ARCHITECTURE + ENGINEERING

BASSETTI ARCHITECTS

VANCOUVER SCHOOL OF ARTS AND	
ACADEMICS	
Vancouver, Washingtonp. 7	111



LANSING SCHOOL DISTRICT, EVERETT HIGH SCHOOL RENOVATION

LANSING, MICHIGAN



www.ith the help of a \$120 million bond program, Lansing School District has carried out several projects to improve district-wide technology, program focus, security, and atmosphere. Under this program, Everett High School saw major transformations.

The first phase replaced the windows throughout the building's three-story



educational wing. In the second phase, an extensive remodel of the visual and performing arts center, stage, lobby, piano lab, and cafeteria met all-new band, dance, scene shop, and art rooms throughout the interior. Former art rooms were adapted into new video production space. Material selections use shapes, volumes, and patterns to evoke creativity and inspire movement without sacrificing durability.

Mechanical system alterations included the boiler, unit ventilator, cooling tower, and pump replacements. The auditorium's HVAC equipment had been in the basement; but the new HVAC equipment is much larger. With the help of C2AE's structural engineers, the team found a suitable location on the roof.

Outside, a new courtyard leads into the performing arts center through a







secure entry vestibule. The design blends existing architecture with new elements to add vibrancy. A canopy addition, for example, completely reinvents the building's façade without dramatically altering its structure.

C2AE

Associated firms:

ABD Engineering and Design; Great Lakes Theatrical Consulting

Design team

Steve Jurczuk (Project Manager); Jeremy Cassel (Project Coordinator);Dennis Jensen (Design Architect); Meghann Zmuda (Architectural Designer); Mandy Marsh, Aaron Deaton (Structural Engineers); James Etters, Erin Moran, Matt Jarvi, Paul Rozeboom (Electrical Engineers); Chloë Aalsburg (Interior Designer); Mark Adams, Jim Minster, Mike Seling, David McPherren (Civil Engineers) Doug Drew, Ryan Follick, Eric Rantanen, Jim Speyer, Jack Petty (Mechanical Engineers); Erik Cronk, Rusti Owens (Landscape Architects)

Client

Lansing School District

Area	Total cost
30,000 sq. ft.	\$17,000,000
Capacity	Cost/square foot
1,600	\$567
Space per student	Completion
198 sq. ft.	April 2023
Images Adam Suiter, 360 Pl	noto: Jason Keen



POLK ELEMENTARY SCHOOL RENOVATION AND ADDITION OGDEN, UTAH



he original Polk School was constructed in Ogden, Utah, in 1926. Nearly 100 years later, the community wanted to preserve the historic structure as a fabric of the neighborhood. The design team worked with all stakeholders to create a design that pays homage to the school's history, complements the existing Collegiate Gothic building style, enhances resiliency, and creates a bridge to the future of learning. To seismically upgrade the

existing building to resist an earthquake, it underwent selective demolition and steel structural reinforcement to meet the current code. A glass connector "bridges old and new" and provides a secure vestibule, front office, and light-filled lobby, bridging the existing structure with the added "splayed" academic wings. Three levels of comprehensive programs provide collaborative and innovative learning environments for modern pedagogy. The school



Design team

Greta Anderson (Senior Principal – Architect); Elizabeth Morgan (Principal – Architect); Sam Hunt, Jeremy Morgan (Senior Associates – Architects); Abram Nielsen (Principal – Landscape Architect & Planner)

Client

Ogden City School District

Area 102,103 sg. ft.

Total cost \$26,506,735

Capacity 650

Cost/square foot \$260

Space per student 157 sq. ft.

Completion August 2022

Images Tobin Rogers; Alan Blakely



celebrates inclusivity with its many murals —created by a local muralist — and biophilic principles with the application of daylight, natural materials, textures, and colors.







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RENOVATION/MODERNIZATION

REICHHOLD CENTER OF THE ARTS

ST. THOMAS, VIRGIN ISLANDS







The Reichhold Center for the Arts, built in 1978, is a natural open-air amphitheater nestled at the base of a mountain, incorporating native stone and wood, mountainous drainage guts and retention ponds for heavy surges.

September 2017 brought two category 5 hurricanes that caused significant destruction. The design process for rebuilding was lengthy. various stakeholders sought out visionary elements to improve resilience.

The acoustics are magnified into the hillside by the original steel frame projecting roof. Impressive resilience includes

self-sufficiency with a water cistern of over 85,000 gallons and redundant backup power systems.

The renovated amphitheater will be fully compliant with IBC and ADA codes. The upgrades will add sprinklers, floor-level egress lighting and unnoticeable glass handrails. Mitigation efforts rerouted downspouts, managed storm drainage, concealed hurricane shutters, and integrated internal pumps. Modern VIP suites, green rooms, dressing rooms, and advanced lighting, acoustics, and stage curtains were introduced. Natural hues of yellow, browns, tans, and





greys in stone, wood, tiles, terrazzo, stains, paints, and fixtures were selected, with a focus on non-porous finishes and black accents. When completed in fall 2024, the center will showcase its sustainability and viability.

The Bourne Group

Client University of the Virgin Islands Area 14,723 sq. ft. Total cost \$23,000,000 Capacity 1,200 Cost/square foot \$1,562 Completion September 2024 Images The Bourne Group



RENOVATION/MODERNIZATION

RENOVATION AND EXPANSION OF BUILDING 100

LAWRENCEVILLE, GEORGIA



ith an overall goal of improving admissions and student retention, Gwinnett Technical College needed to expand its academic programs in science and technology while also providing improved student gathering and study areas.

The existing Building 100 underwent a partial renovation and exterior makeover that provided state-of-the-art instructional labs, a library, student lounges, and a new admissions experience.

With a student population that commutes to campus, the college needed to create a sense of space, an open invitation to study and socialize. Natural light and open floor plans create welcoming spaces to which students would naturally flow and gather. Portions of the exterior were opened and redesigned to be inviting, showcasing informal learning and student activities. A redesigned canopy



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Sizemore Group

Design team

Sizemore Group (Architect); Nottingham Brook and Pennington (MEP Engineering); Palmer Engineering (Structural Engineering); Travis Pruitt and Associates (Civil Engineering); HERA Laboratory Planners (Laboratory Consultant); Palacio Collaborative (Cost Estimating); MaxxUnion (Specifications); TSAV (Audiovisual Consultant); Total Systems Commissioning (Commissioning Agent); The Winter Construction Company (Contractor)

Client

Georgia State Financing & Investment Commission on behalf of Technical College System of Georgia and Gwinnett Technical College

Area

38,235 sq. ft.

Total cost \$14,113,114

Capacity

1,524

Cost/square foot \$369

Space per student 25 sq. ft.

Completion May 2023

Images Dorian Shy, Framework Photographic

creates a campus front lawn where firsttime visitors enter and students gather.

From floors to walls to signage, the interior design strengthens the college's branding through use of bold colors and inspirational graphics and quotes. The wayfinding creates an inclusive environment that guides all faculty, students, and guests.







"The design has helped the GTC team visualize the building and gave them a very good opportunity to weigh in with feedback and vision for the site. Hopefully this will keep us all on the same page and help us to reduce change orders and mitigate risks later on."

- RODNEY SWANN, REGIONAL PROGRAM MANAGER, TECHNICAL COLLEGE SYSTEM OF GEORGIA





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ROCHESTER PREP HIGH SCHOOL

ROCHESTER, NEW YORK



Chester Prep High School is a beacon of energy and determination, embodying its motto of "Change History." Founded in 2006 as a charter school, it is dedicated to empowering students from low-income communities to succeed in college. Despite the city's graduation rate of only 71%, Rochester Prep achieves a remarkable feat: 100% of its students not only graduate but also receive college acceptances. To accommodate its expanding student body, the school sought a larger facility and found an opportunity for urban revitalization in an impoverished neighborhood filled with abandoned homes. They purchased a building, originally a Catholic school constructed in 1928 with a 2016 addition.

The school envisioned a campus that honored the historical charm of the original brick building while enhancing functionality, accessibility, and internal circulation. This required addressing three crucial challenges: the entry, circulation, and organization of the space. The existing entry was elevated from street level,



posing security and accessibility concerns. The solution was a modern glass entry featuring a vibrant three-story stairwell, beautifully connecting the old and the new. The transparent entry provides a welcoming and secure environment,



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Edge Architecture

Design team

Allen Rossignol, Ted Butcher, Isaac Bracher, Bridget Carney, Joe Twomey, Christina Fluman

Client

Uncommon Schools/Rochester Prep

Area

35,000 sq. ft. addition; 90,000 sq. ft. total

Total cost Confidential

Completion December 2021

Images Tim Wilkes Photography; Edge Architecture


embodying the school's commitment to inclusivity.

The rhythmic exterior massing of the addition with the existing building now echoes the internal organization of the school. The undesirable maze-like corridors have been replaced by a thoughtfully planned circulation system that ensures efficiency, sight lines, and security. A main circulation hallway creates a clear path throughout the campus and promotes seamless movement.

The program layout was simplified and reorganized into distinct zones, including classrooms, administrative spaces, and multipurpose areas like the gym and cafeteria. Centralizing the school offices at the entry enhances accessibility and convenience. Learning spaces were transformed into modern, technologically advanced environments that foster creativity and productivity. Furthermore, a separate entry into the cafeteria and event spaces encourages community participation.

Since relocating to its new campus, Rochester Prep has witnessed positive changes in its surrounding community. Local police have reported a significant decrease in police calls in the area.







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SAUGATUCK PUBLIC SCHOOLS, DOUGLAS ELEMENTARY

DOUGLAS, MICHIGAN







The updated elementary school design brings new opportunities to students through modern education spaces, flexible furniture, outdoor-based learning, and collaboration-focused commons areas. This project also rethinks the main entrance to enhance hospitality and security, creating a positive and welcoming first impression that is "Uniquely Saugatuck." Two learning commons at the heart of the facility were a focal point of the renovation. With a goal of

increasing attraction to the core spaces of the elementary school, the learning commons create a welcoming environment that draws students in to engage with the extended learning areas and new technology. Throughout the facility, expanded classrooms spaces, new lockers, and refreshed aesthetics will carry on the welcoming feeling to early learners. Renovated science, music, and art spaces also give students up-to-date materials that enhance their curriculum. A large,



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outdoor classroom and playground were added to the school grounds and create an educational space focused on nature. The new outdoor area creates a place for students to learn hands-on and engage

GMB Architecture + Engineering Associated firm GDK Construction

with their natural surroundings.

Design team

364

Alex Stuckey (Project Architect); Luke Kamp (Project Manager)

Client	
Saugatuck Publ	ic Schools
Area	Total cost

Area	10
66,750 sq. ft.	\$9
Capacity	C

\$9,400,000
Cost/square foot

\$141

Space per student	Completion
183 sq. ft.	December 2022
Images	

John D'Angelo Photo



VANCOUVER SCHOOL OF ARTS AND ACADEMICS

VANCOUVER, WASHINGTON







he Vancouver School of Arts and Academics (VSAA) offers a unique educational experience, combining arts and academics for students in grades six to 12. The school's Royal Durst Theatre, the primary venue for all-school events, proved insufficient to accommodate its 640 students and staff. Safety, security, and parking concerns further complicated day-to-day operations and larger community gatherings.

To overcome these challenges, VSAA designed a new two-story addition and entry building, creating a secure enclosed

courtyard. This revamped main entry connects to the courtyard, which now houses a new outdoor theater, science lab, and the existing Peace Garden, offering safe outdoor learning spaces.

The addition increases student capacity by 200 and cleverly integrates a flexible black box theater with the commons area, using a large Sky Fold wall and telescoping bleachers. Alongside two general classrooms, two science classrooms, and several co-op spaces, the building program thoughtfully incorporates opportunities for students to



display their artwork, including rotating gallery walls at the new entry. This approach reinforces the school's dedication to nurturing the arts.



Bassetti Architects

Design team

Caroline Lemay (Managing Principal); Michael Davis (Design Principal); Alan Dodson (Project Architect); Deepa Bharatkumar (Project Manager)

Client

Vancouver School District

Area	
23,637 sq.	ft.

\$12,000,000

Capacity 600 (addition increased capacity by 200)

Cost/square foot \$507

Completion September 2022

Images Benjamin Benschneider

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OUTSTANDING DESIGNS

ESA

CALDWELL HALL	
Nashville, Tennesseep. 113	

CORDOGAN CLARK

DON AND BETTY TUCKER HALL AND	
BETTY PARKE TUCKER CENTER FOR	
NEURODIVERSITY	
Aurora, Illinoisp. 114	1

PRYORMORROW

MAGNOLIA HALL	
Fulton, Mississippip.	115

PRYORMORROW

TAU CHAPTER OF CHI OMEGA SORORITY AT
THE UNIVERSITY OF MISSISSIPPI
Oxford, Mississippip. 116





OUTSTANDING DESIGNS

ARTECH DESIGN GROUP

ARTECH DESIGN GROUP

CORE AT PIE INNOVATION CENTER	
Bradley County, Tennesseep.	118

ZERR BERG ARCHITECTS

MOORHEAD PUBLIC SCHOOLS CAREER ACADEMY Moorhead, Minnesota......p. 119



RESIDENCE HALLS

CALDWELL HALL NASHVILLE, TENNESSEE

his new, sustainable and high-performance residence hall is designed to meet the needs of a growing university through provision of as many beds as possible, and through adaptability for future pandemics.

The 10-story residence hall will comfortably house 604 students within 162 dwelling units of about 20 varying types. Through creative use of the overlaying zoning, an entire floor of townhouses was created on the 10th/attic floors. The zoning allows 10 floors above grade, and a floor is defined as "accessible by elevator," but code allows a walk-up unit

(townhouse) with upstairs bedrooms. Precautions for future pandemics are incorporated into the design through two steps. The apartments will have all-private bedrooms, providing effective self-quarantine. Secondly, a grab-and-go food distribution area, fitness facilities, a lounge, laundry facilities and a classroom will be in the basement. These measures will enable the building to be self-contained; on-campus students will be able to participate in virtual learning without leaving the building. A three-story atrium lobby will overlook the basement lounge at the elevated bridge entry.

ESa

Design team Brandon Keown, Darrell Lambert, Ginny Webb, Macy Harvell, Kylie Davis, Brad Graves

Client Belmont University

Area 270,000 sq. ft.

Capacity

Images

Gabe Ford

Total cost \$87.000.000

604 Space per student 447 sq. ft.

Cost/square foot \$322

Completion

August 2022

A collegiate-Tudor exterior, containing brick and stone elements, will be consistent contextually with the established campus architectural language. The initial site selected for the project had constraints that inhibited the maximum number of rooms. ESa's design team recommended the final site, which provides for an optimal number of beds.

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DON AND BETTY TUCKER HALL AND BETTY PARKE TUCKER CENTER FOR NEURODIVERSITY AURORA, ILLINOIS

he Betty Parke Tucker Center for Neurodiversity is a five-story student residence hall designed to support students on the autism spectrum with careful consideration of their unique

needs and sensitivities. The center provides individual sensory retreat spaces where students can relax and recharge, incorporating elements like soft lighting, soundproofing, and comfortable seating. It minimizes sensory overload by using calming muted colors, non-glare surfaces, and natural materials that promote a calming atmosphere. Designated quiet zones reduce auditory distractions and offer a peaceful environment for studying or unwinding. All residence hall rooms offer adjustable lighting and temperature control within each room to provide a personalized living environment.

Communal areas provide a range of

seating options to accommodate different preferences for personal space and social interaction. Smaller, quiet social spaces enable students to engage in more intimate conversations or participate in shared activities with peers. Dedicated spaces for support services, such as counseling or therapy rooms, ensure confidentiality and accessibility. A sensory-friendly landscaped plaza outdoors provides opportunities for relaxation and socialization in a natural setting.

Cordogan Clark

Associated firms:

The Boldt Company; CEMCON; Martin Petersen Company; Connelly Electric; W.E. Mundy Landscaping

Design team

Kelly Schomer, Nathaniel Cox, Bruce Cairns, Ana Serrano, Becky Marlow, Kinga Leja

Client

Aurora University

Area	
35,109 s	sq. f

Capacity 117 residents

July 2022

Total cost \$16,500,000

\$470 Completion Images

James Steinkamp; Jessica Maisonet

Cost/square foot

RESIDENCE HALLS

MAGNOLIA HALL FULTON, MISSISSIPPI

agnolia Hall was built to cater to the expanding housing needs of ltawamba Community College. The new residence hall provides an opportunity for an additional 250 students to immerse themselves in campus life. The exterior showcases a thoughtful blend of durable materials, such as brick veneer and cast stone. The interior is meticulously designed to cater to student needs, featuring a modern, spacious layout with contemporary finishes. Expansive storefront windows and curtain wall seamlessly connect the interior spaces with the natural beauty of the surrounding campus. The layout comprises two wings, connected by a spacious central hub. Each wing is tailored to accommodate separate male and female occupancy. In addition to double rooms, the wings incorporate an apartment for the hall director and two efficiency units intended for visiting staff. The heart of the facility is composed of interactive spaces that foster collaboration and social interaction among students. This central area encourages teamwork and camaraderie.

PryorMorrow

Associated firms

Engineering Solutions (Civil Engineer); Structural Design Group (Structural Engineer)

Design team

Michael Taylor AIA (Architect of Record); Kharma Leonard AIA (Architect); Ashley Weekly (MEP); Clay Patterson (CA); Maggie Clark (Interior Design)

Client

Itawamba Community College

Area		
71,921	sq.	ft

Completion

March 2022

250

Capacity

\$19,012,938 Cost/square foot

Total cost

\$264 **Images** Cody Moore

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RESIDENCE HALLS

TAU CHAPTER OF CHI OMEGA SORORITY AT THE UNIVERSITY OF MISSISSIPPI

OXFORD, MISSISSIPPI

■he Tau Chapter of Chi Omega at the University of Mississippi underwent a renovation and addition consisting of resident rooms, communal bathrooms, a chapter room, servery, dining room, library, living room, and study rooms. The house's additions unite the composition to create a dramatic entry sequence focusing on a central courtyard. Historical authenticity in the plan composition and massing, coupled with thoughtful detailing, were essential requirements of the project. Life safety enhancements and accessibility improvements were required to retain one-third of the area of the original sorority house. Historic buildings offer valuable lessons in sustainability. The most fundamental aspect of sustainability centers on longevity. Water-shedding roof design, management of runoff, protection of building openings, and thoughtful materials detailing are the building blocks of longevity. Daylighting and sensitive integration of HVAC systems into the structure and architecture of the building are essential sustainability elements. The most important questions a designer must ask are: Does the architecture embody intrinsic values that support long-term preservation? Do the residents value the building and treasure the memories of their interactions in the building?

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PryorMorrow Associated firms

John Lavender ASLA (Landscape Architect); Precision Engineering (Civil Engineer); Second Moment (Structural Engineer); Ann Carter (Interior Designer); WAR Construction

Design team

PryorMorrow: Charlie Watson AIA (Architect of Record); Roger Pryor, Architect AIA (Lead Designer); Kelly Bierwagen (Intern Architect) Client

Tau Chapter of Chi Omega Sorority at The University of Mississippi

Area	Total cost
36,200 sq. ft.	\$13,620,400
Cost/square foot	Completion
\$376	January 2023
Images	
Cody Moore	

ADAPTIVE REUSE

CONSTRUCTION CAREER CENTER

CHATTANOOGA, TENNESSEE

Artech Design Group

Client Building and Construction Workforce Center

Area 36,203 sq. ft.

Total cost \$6,725,668

Capacity 180

Cost/square foot \$186

students, faculty, and the pub-

lic. The building is designed

to have Earthcraft Light Com-

mercial Platinum Certification

and to be carbon net zero. This

project is an adaptive reuse of

an old elementary school.

Completion October 2022

Images Holt Webb

workforce development center was jointly developed by The Associated General Contractors and the Tennessee College of Applied Technology/Chattanooga State Community College

(TCAT/CSCC), focusing solely on the construction industry. Artech worked with TCAT personnel to develop the program and the design of this facility. It has four labs, each connected to a classroom. Each lab focuses on different trades and aspects of construction with one "high bay" and outdoor bay. There is a "construction yard" for various outdoor construction activities. The facility also houses meeting space for

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ADAPTIVE REUSE

CORE AT PIE INNOVATION CENTER

BRADLEY COUNTY, TENNESSEE

A s the focus of the overall PIE Innovation Center, the school is named CORE because it is the core of this center, providing a variety of workforce development opportunities for its students. The STEM school building consists of a recording studio, chemistry lab, nursing lab, welding lab, machining lab, mechatronics lab, classrooms, meeting space, administrative space, and a coffee shop. All instruction and labs are designed to simulate real world work environments

to provide competency training. In the main lobby, an exhibit space highlights the history of the building. This project is an adaptive reuse of a manufacturing facility and is part of a much larger picture in helping develop the lives of young adults.

Artech Design Group

Associated firm:

March Adams & Associates (Consulting Engineer)

Design team

David Hudson (Principal in Charge); Mark Wynnemer (Project Manager); Brian Locke (Project Architect)

Client Bradley County Schools

Area 51,150 sq. ft.

Total cost \$6,988,068

Capacity 300

Cost/square foot \$137

Completion August 2022

Images Holt Webb

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ADAPTIVE REUSE

MOORHEAD PUBLIC SCHOOLS CAREER ACADEMY

MOORHEAD MINNESOTA

n 2019, Moorhead district voters, with an overwhelming 70% support rate, approved a bond referendum for a new high school and separate career academy. The district was searching for an economical way to construct classroom and lab spaces for vocational trades. The Career Academy was born out of necessitv but has evolved into a facility that houses much more than vocational trades. The building has grown to house business. 3D visual arts and the district's alternative high school.

An early hurdle that the design team faced was determining how to convert

Zerr Berg Architects

Design team

Brian Berg, John Holten (Zerr Berg Architects); Chad Hansen (Martin Mechanical Design); Greg Teague (MBN Engineering)

Client

Moorhead Area Public Schools

Area	T
174,563 sq. ft.	\$

24,815,373 Cost/square foot \$142

otal cost

January 2022

Capacity 750

Space per student Completion 230 sq. ft.

Images Cody Harmon, Scratch Media

a retail building with unlimited area into school space. The facility was divided into four fire building areas. By doing so, access to the different areas can be controlled at all times of the day and after hours. Conditioning was converted from independent, single-zone rooftop units into a centralized boiler and chiller plant. These plants push conditioned fluid to six different mechanical rooms across the building. By creating these distinct conditioning areas, the design team ensured that gas fumes from the auto lab would not be smelled throughout the building.

The two key drivers of the design were learning on display and ultimate flexibility for adapting to future education needs. Both goals were accomplished with 49 glazed overhead doors. These connect

lab spaces and other large areas to the extra-wide loop circulation hallway. The student commons and multipurpose spaces are connected by two overhead doors large enough to pull a semitruck and trailer into the heart of the school for demonstrations and presentations. These doors also give passersby a view of the learning and educational pursuits taking place within the classrooms.

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SPORTS STADIUMS ATHLETIC FACILITIES

OUTSTANDING DESIGNS

DIMELLA SHAFFER PAN ATHLETIC CENTER Andover, Massachusettsp. 121

VICTOR J. LATAVISH ARCHITECT

GYRENE LOCKERS Ave Maria, Florida......p. 122

OUTSTANDING DESIGNS

DESIGN DEVELOPMENT ARCHITECTS

TY WILLIAM MEMORIAL PAVILION

Wake Forest, North Carolinap. 123

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PAN ATHLETIC CENTER ANDOVER, MASSACHUSETTS

expression of the bridging role between the historic campus and the more modern athletic campus. The historic Flemish bond brick and slate shingles are used in contemporary ways to transition visually between the old and new.

The project uses a microturbine system to support the year-round heating load of the natatorium. By generating building electricity on site, waste heat is harnessed from the turbines to cover the building's hot water load.

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he athletic center is sited between the main historic campus and a new field house at Phillips Academy Andover, an independent secondary school.

The entrance presents a welcoming face to the central campus with a twostory lobby from which the building's various activities are at once visible through glass walls and bold graphics. The natatorium, dance performance space, Hall of

DiMella Shaffer

Design team

Ed Hodges, Alex Adkins, Kenneth Hartfiel, Kathy LaDuca, Adam Westlund, Don Klema, Christian Roidt, Peter McCauley

Client

Phillips Andover Academy
Area Total cost

Area	
70,000 sq. ft.	
Completion	

Completion Imag September 2022 Robe

Images Robert Benson Photography

Confidential

Honor, and entrance lobby are expressed individually through distinct massing. Throughout the building spaces for social gatherings or quiet study create an inclusive environment, inviting students to spend time in the building beyond athletic pursuits.

The exterior material palette is an

GYRENE LOCKERS AVE MARIA, EL ORIDA

ve Maria University be- baseball teams. The univerlieves in the total forma- sity was founded by Thomas tion of body, mind, and Monaghan, a Marine, and all spirit, and needed lock- of its teams-including footer rooms for its football and ball, baseball, softball, soccer,

and lacrosse-are named the Gyrenes, the nostalgic USMC moniker for "Government Issue Marine." Even the football team's helmets sport a camouflage pattern.

Accordingly, the utilitarian structure is spartan and nostalgic. The rooms are arranged for fast team access to

the locker and shower areas. Construction is sturdy and rough, and sustainable materials used are cost-effective and durable.

Curved galvanized metal panels are bolted together to create a barrel vault; seams and fasteners are sealed and then painted with a camouflage pattern. Interior CMU walls support chilled water HVAC equipment on a mezzanine in the upper portion of the barrel arch structure. Each end of the Quonset hut has a metal canopy and an overhead garage door for the Gyrenes to quickly enter and exit as a team. 🔳

Victor J. Latavish Architect

Design team

Victor J. Latavish AIA (Architect); Michael Thomas and Tyler Thorp (Contract Documents); Q. Grady Minor (Civil Engineers); Liebl & Barrow (Structural Engineers); Mark Brant PE (Mechanical Engineer); Steven Stafford PE (Electrical Engineer)

Client

Images

Ave Maria University

Area 4,800 sq. ft.

Cost/square foot \$292

\$1,400,000 Space per student 50 sq. ft.

Total cost

96 Completion

Victoria Latavish

July 2023

Capacity

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COMMUNITY USE

TY WILLIAMS MEMORIAL PAVILION

WAKE FOREST, NORTH CAROLINA

The Ty Williams Memorial Pavilion is the latest addition to Southeastern Baptist Theological Seminary's historic campus. The venue was constructed to complement the beautiful campus and facilitate conversation while providing a space for study, fellowship, and reflection. Nestled amongst centuryold oak trees, pines, and magnolias and the Georgian campus buildings, the venue offers a park-like environment, important in our post-Covid world.

Design Development Architects

Design team

Jim Sherrer, Jr., AIA (Principal In Charge); Jonathan Medlin AIA, LEED AP (Project Architect); Trevor Cundiff (REVIT Modeler); Fluhrer-Reed (Structural); Crenshaw Consulting Engineers (MEP); Miramonte Studio (Landscape Design), Integrity Services Group

Client

Southeastern Baptist Theological Seminary

Area

1,066 sq. ft.

\$503,000 **Completion**

Total cost

April 2023

Cost/square foot \$472

Images

Design Development Architects; SEBTS Media The structure features a wood deck ceiling and slightly curved beams; they add a sculptural aesthetic reminiscent of the old trees recently removed. Large stone columns with sconce lighting, concrete flooring, metal roofing, LED lighting, ceiling fans, and interchangeable seating with tables create a space students want to visit. A fountain and landscaping add to the natural outdoor experience. The adjacent courtyard provides a venue for small campus events.

The pavilion is named for Ty Williams, who tragically died at age 11 on Nov. 12, 2020. Ty is the son of Travis and Liz Williams. Travis is a Southeastern alum and longtime staff member who serves as the associate vice president of facilities. A permanent marker is on the site.

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OUTSTANDING DESIGNS

HARGREAVES JONES

RIT CAMPUS PLAN Henrietta, New York.....p. 125

CITATION

CETRARUDDY ARCHITECTURE

The Choice School Calicut Kozhikode, India......p. 126-127 "An excellent example of integrating building with the site. Using green roofs for student experiences is a great use of space. The stair-stepping use of color throughout the environments is a fun wayfinding piece.""

OUTSTANDING DESIGNS

GALLO HERBERT ARCHITECTS

NSU ALUMNI HOUSE

Davie, Florida p. 128-129

RIT CAMPUS PLAN HENRIETTA, NEW YORK

The RIT Campus Plan envisions a physical Rochester Institute of Technology campus that supports and furthers the strategic plan mission—a place that will support academic excellence, foster diverse student life, exemplify environmental and social sustainability, and be welcoming, inclusive, and accessible. The plan sets forth a vision for the future of the campus that further strengthens RIT's brand as a leader and innovator. The campus will be a connective one that facilitates cross-disciplinary interaction, buzzes with 24-hour life, and projects a distinct physical image that will celebrate RIT's

uniqueness: its collection of significant architecture, old and new; its landscape setting; its considerable land holdings; and its connections to the community and the city of Rochester.

The plan focused on increasing density on campus to achieve six goals: sustainability; vibrant campus life; student success; connectivity; reduced emissions; and safety.

The campus landscape will become a defining characteristic of RIT as the fabric that forms a cohesive environment. Surrounding the core, natural green spaces—woodlands, creeks and wetlands—define the campus context.

Hargreaves Jones

Associated firm:

Winstanley Architects and Planners

Client Rochester Institute of Technology

Area 1,200 acres

Images The project team

THE CHOICE SCHOOL CALICUT

CITATION

KOZHIKODE, INDIA

The Choice School Calicut campus in Kozhikode, India, will house 2,500 students for grades 1 to 12. The project takes advantage of the context with green roofs integrated into the landscape, providing flexible indoor/ outdoor gathering spaces and athletic facilities like soccer fields, layered play spaces and a pool. Additional programmatic elements include a spiritual area, performing arts center, playgrounds, art rooms, music rooms, dance studios and

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multifunctional classrooms.

The client desired a school that highlights the process of learning. Another goal was to design a school that is of its culture, yet progressive, creating future global stewardship for its students. To fulfill this goal, the design team decided to emphasize the visibility of learning and social environments; a circulation hierarchy to distinguish individual school blocks and grade levels within; activity nodes laced throughout; formation of "internal" linear courts to promote social interaction; and school block "streets" to promote identity, community and security.

To support the notion of gateway and arrival, a grand exterior staircase at the center of the linear school blocks ascends the hilly terrain. This topography is the principal organizing element for each school block; younger children are at the base, and older students rise to the top. Intersecting views and vistas enable students to orient themselves visually and spatially.

The project incorporates sustainable strategies such as concrete structures for thermal mass; natural ventilation and shading for reduced air-conditioning costs; local materials; green roofs and overhangs to reduce heat gain; highly insulated walls and roofs; and ample daylighting strategies throughout the campus. Colorful vertical "fins" integrated into the elevations help reduce solar heat gain and provide identity for each section of the school.

Taking cues from the region's cultural and climatic contexts, the new Choice School in Calicut becomes part of the landscape in its massing strategy and in materiality, form and reference.

CetraRuddy Architecture

Associated firm: Kumar Group

Design team

Theresa M. Genovese, John Cetra, Nancy J. Ruddy, Ruben Cabanillas Ramos, Rei Celo

Client

Jose Thomas, Choice Estates & Constructions

Area 225,000 sq. ft.

Total cost Confidential

Completion 2028

Images CetraRuddy Architecture

"An excellent example of integrating building with the site. Using green roofs for student experiences is a great use of space. The stairstepping use of color throughout the environments is a fun wayfinding piece."

— 2023 JURY

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NSU ALUMNI HOUSE

DAVIE, FLORIDA

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he project consists of a three-story facility centralized on the Nova campus across from the main library. The purpose of the project is to create a hub for alumni members to participate, volunteer and provide community support. The program consists of a meet/ greet salon, lecture hall, library, dining, resource center, administrative offices, and a rooftop observatory that overlooks the campus. There is a large courtyard for outdoor events and a small amphitheater set on the bank of a retention pond accessible from the courtyard. The main structure is centered on an axis with the library separated by a grass plaza used for public events. The architecture pays homage to the school's history, rooted in South Florida's vernacular.

The functions are organized like a large home, with shade trees, gardens and fountains.

"The goal of the design was to accommodate the Florida lifestyle, both interior and exterior, and advance an aesthetic that supports NSU's path to preeminence. Gallo Herbert Architects has fulfilled that goal preeminently."

- GEORGE L. HANBURY II, PRESIDENT AND CEO, NOVA SOUTHEASTERN UNIVERSITY

Gallo Herbert Architects

Design team

William Gallo (Architect); Alain Dezii (Lead Designer)

Client Nova Southeastern University **Total cost**

Area	
20,000	sq. †

\$400

\$8,000,000 Cost/square foot Images GHA Architects

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Q&A with Pfluger Architects' Fine Arts Research & Benchmarking Team

What advantages does a centralized performance venue have over separate auditoriums on each campus?

An emerging trend is to build a large, centralized performing arts center at the district level and smaller, more tightly focused auditoriums for theater or music on local campuses. The benefit of this approach is to consolidate physical and fiscal resources on a larger, shared venue, allowing every campus to stage high-end theater/musical/dance productions. Then, provide a local space that supports one thing exceptionally well. For example, Austin ISD hired Pfluger to

Austin Performing Arts Center

design a performing arts center that includes a 1,200-seat main auditorium, a 250-seat black box theatre, a dance studio, multi-purpose rehearsal and meeting rooms, visual arts display space, a kiln room, a recording studio, fine arts library, and outdoor amphitheater, but continues to build small 500-seat theaters on middle and high school campuses.

We can't afford that! How can we breathe new life into an old facility?

Countless dated performance spaces await a transformative touch, ready to embrace the future of performing arts. Strategic

Spring Oaks Middle School Before (Inset) and After

design choices play a pivotal role in elevating student engagement, whether on stage, behind the scenes, or in the audience, enhancing their overall connection with and appreciation for the arts. Here are four ideas:

- Student engagement can be supercharged by fine-tuning your fine arts spaces. For instance, installing gallery spaces where student work can be integrated into the patron experience and designing appropriate practice spaces for theater and dance that put performing arts education on display.
- To improve the patron experience, you can correct poor sightlines and provide more flexible seating options.
- From the theatrical side, if you don't have a full fly loft, new motorized rigging solutions increase production options for stages with dead-hung rigging.
- Improving the acoustics of a performance by reshaping the audience chamber and using newer acoustically improved materials will give a better auditory experience.

What professional trends are finding their way into school theaters?

There are more options for fine-tuning a performance space for specific needs. Flooring manufacturers now offer tunable floors that can quickly switch from a sprung dance floor to a rigid theatre-ready surface at the push of a button. This allows one venue to meet different requirements within the same day while reducing downtime and physical labor.

Systems that heighten the immersive experience are becoming more common. Projectors can be used in the audience chamber to project images 3D-mapped to the ceilings and walls without distortion. Surround sound systems provide sound effects and can emulate famous performance halls in your local auditorium. Immersive scents can now be easily deployed with standard fog machines so audiences can smell the flowers or the butcher shop when a scene unfolds. Schools don't need to own these systems; vendors can provide the

equipment and the mapping services for a fee.

These three topics are the tip of the iceberg! Every performance venue is unique, and whether new construction or upgrading an existing facility, there are options to make performing arts a more meaningful experience.

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TAPPING INTO THE PAST

Supply-chain issues and market fluctuations put a spotlight on the benefits of renovating old spaces.

by Steve Brupbacher

eaking windows. Dilapidated roof. Outdated electrical and mechanical infrastructure. A facility beyond its useful life—rusted, old and non-functioning.

That description rings true for many academic buildings deemed historic and underused at colleges and universities. The image of ivy-laced brick buildings housing groundbreaking research and innovation often masks the realities facing facility managers and campus leaders: Should they seek to improve existing facilities or construct new, modern centers to house leading-edge programs like robotic, biomedical, and aerospace engineering? The dilemma they face is that what is often sought for technologically advanced spaces may not align with the history and legacy that has positioned education institutions as go-to centers for research and innovation. ity decisions, academia nationwide is in a position to benefit from a once-in-a-generation opportunity: a greater emphasis in policy and funding on engineering across disciplines and a more competitive landscape attracting the brightest and most curious minds. Retooling their campuses appropriately will have a significant effect on their ability to attract the faculty, students, and funding to carry their legacy forward for more generations.

Building upon legacy through adaptive reuse

Most times, the decision to build new rather than through adaptive reuse comes down to a question of economics: Will it be more cost-effective to tear down and rebuild rather than tear out and renovate? Most times, that question is easily answered; from commercial real estate to government centers and academic buildings, studies in past years

As those education institutions make their facil-

have shown that compared with new construction, savings from renovation range from 16% to 50% depending on how extensive the work.

Factor in today's supply chain obstacles, and those savings can be greater. Although doubledigit increases in construction costs through the pandemic years are expected to subside, some predictions show construction costs in 2023 will rise another 5.4%.

Monetary costs, though, measure only one aspect, albeit a significant one. Not included in that calculation is a university's history and legacy of academic rigor and collaboration, often captured in its facilities.

At the University of Texas at Austin, a university-led study of its Anna Hiss Gymnasium gave leaders an opportunity to do such calculations. Built in 1931, it was the first women's gymnasium on campus and was later named in honor of a director of women's sports who served at the university for 36 years. Through time, the building fit every description that typically is associated with such an aging facility, and by the mid-2010s, the university faced the decision to reuse the facility or replace it.

The studies found that, economically, it was more cost-effective to renovate; they also found its aesthetics added value to the campus and to the legacy of the institution that persuades many to attend the University of Texas. The gymnasium's history adds to the atmosphere on campus; preserving that history, even as the university sought a 21st-century space for academic exploration, proved a valuable factor.

Renovating also gives institutions opportunities to target and promote sustainability goals. Those updated facilities can be showcases for such efforts. Not having to ship in new materials like bricks or pour concrete, and diligently preserving details such as roofing tiles (in the case of the University of Texas project) can highlight a university's efforts to be stewards of valuable resources.

Today, the Anna Hiss Gymnasium houses Texas Robotics and a portion of the School of Design and Creative Technologies, an interdisciplinary research center that symbolizes the University of Texas' legacy for innovations and advancements.

Outfitting insides to meet the right needs

Adapting historic facilities for modern uses like engineering research and fabrication requires a balance. The renovation must preserve the details that enhance the aesthetics of a facility while updating or replacing nearly all the electrical, mechanical, and plumbing to meet the rigorous demands of an engineering facility.

This need for balance is often seen in windows and roofs. Not only do project teams have to resolve problems that result in leaks, but they must do so in The history of the Anna Hiss Gymnasium at the University of Texas at Austin adds to the atmosphere of the campus even though the facility was converted to a **21st**-century space. *Calab Tkach AIAP*

The former Anna Hiss Gymnasium now houses the Robotics Lab and a portion of the School of Design and Creative Technologies. Calab Tkach AIAP a manner that preserves that aesthetic that weaves such a facility into the fabric of the campus. For example, teams often must replace windows that are the same style and size as the original, yet those replacements need to be thermally insulated to adhere to modern codes and energy performance standards.

Adding insulation to meet an institution's goal of increasing energy efficiency also may require a meticulous approach to remove and reinstall architectural elements, like roofing tiles, in order to preserve the exterior look and feel.

Less apparent, though, is upgrading and installing a building's infrastructure to appropriately facilitate the activities required by the occupants. Engineering fields such as biomedical or robotics require specialized technology.

Modern engineering research is also collaborative and crosses disciplines; it requires a space that is flexible enough to accommodate many needs while providing easy access to the power and data needed to advance the research activities.

Adaptive reuse goes beyond repairing and upgrading. It effectively and elegantly distributes power and data to facilitate the collaboration and flexibility needed in a modern engineering environment. Differing experiments, equipment and functions require immense power location and options. Data locations are also essential for activity that is heavily dependent on data. In the Anna Hiss project, the team achieved its infrastructure goals by placing power and data locations along the perimeter of the spaces. Overhead power reels and busways are used in the lower levels of the facility to provide flexibility in the building's interior. Because the space was to serve a robotics engineering program, the project team had to carefully coordinate the infrastructure to ensure both adequate floor and air volume space for activities such as drone research and a robot soccer field.

Similarly, the University of Notre Dame's Engineering Innovation Hub housed inside the Cushing-Fitzpatrick Halls of Engineering brings together disciplines to take aerospace and mechanical engineering research from whiteboard sessions to manufacturing within minutes.

Situated in what had been an underused lab and library space, the infrastructure is designed to support collaboration and activities from design to fabrication and production all while weaving that together in the historic fabric for which Notre Dame is renowned.

The right fit for reusable spaces

Adapting buildings to new uses requires more than an eye for the historical value and acumen for upgrading the infrastructure. Giving a building a new purpose also requires an occupant who will be respectful of the building's history and legacy and

will see in it the possibilities to advance research and innovations.

Studying the purpose a building can serve before identifying an occupant may put the facilities team a step ahead when planning renovations. In the case of the Anna Hiss Gymnasium, University of Texas officials conducted such a study and found that wet labs would not work in that location. Some spaces would work well for some users but not for others.

The university decided to put out a request for proposals from departments across the university seeking ideas for using the space to the best of its capabilities as well as proposals that demonstrated a passion for wanting to raise the profile of the historic facility.

By identifying an occupant before embarking on any revitalization and upgrades, project teams can design the space to fit the new need. For the robotics engineers, this meant identifying spaces with massive volumes for drone testing; spaces where heavy equipment could be used and required a new slab on grade; and spaces that required lower ceilings for camera and sensor mounting to monitor research.

Accommodating aspects like heavy equipment is not a minor detail. Most historic campus facilities were designed for a certain function with little forecasting about how the building could be reused decades later. With such projects, analyzing areas to determine what they could support for structural loads is key to programming the entire space. Once it is determined where certain equipment can go, it becomes easier to program the rest of the functions.

The fact is that older campus buildings often have a charming character that reminds users of the historical legacy of the facility as well as the institution. Exposed decks, trusses, and brick become part of the character of the space in its new life.

Once renovated, these adapted spaces also attract new attention and audiences who may have overlooked the building in its dilapidated state. At the University of Texas, the Anna Hiss Robotics Institute is a centralized gathering research space for engineers who had been spread throughout the campus in disconnected spaces. It also has become a new oasis on campus, with a refreshed exterior and a new courtyard created from the savings incurred through the adaptive process.

Such adaptive reuse projects show respect for the legacy of the institution that may lead to a payback all on its own, in the innovations that come out of the revitalized space and the partners willing to fund such research and study.

Steve Brupbacher, AIA, is Senior Architect with BSA Life-Structures. He can be reached at sbrupbacher@bsalifestructures.com. Older buildings on a college campus often have a charming character that reminds users of the historic legacy of the facility as well as the institution. *Calab Tkach AIAP*

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UC Berkeley and NASA plan space research center in Silicon Valley

he University of California, Berkeley, and NASA's Ames Research Center have announced plans to create research space for companies interested in generating futuristic innovations in aviation and space exploration.

The Berkeley Space Center aims to accommodate up to 1.4 million square feet of research space on 36 acres of land at NASA Ames' Moffett Field in Mountain View, California.

The university says in a news release that the new buildings, some of which could be ready for move-in as early as 2027, will house not only research and development laboratories for companies and university researchers, but also classrooms for students. These students will benefit from immersion in the Silicon Valley start-up culture and proximity to the nation's top aeronautical, space and artificial intelligence scientists and engineers at Ames.

School officials hope to eventually establish housing at Moffett Field to make working at the innovation center easier for students - without a 47-mile commute each way between the center and the Berkeley campus.

Carnegie Mellon University already occupies a teaching building at Moffett Field. With the addition of UC Berkeley and the proximity of Stanford University, officials expect the intensity of academic activities in the area, both instructional and research, to increase immensely.

SKS Partners, a San Francisco-based investor and developer of commercial real estate properties, will lead the venture. Planners will pursue LEED certification for the center's buildings.

Construction is tentatively scheduled to begin in 2026, subject to environmental approvals.

6 years after fire, construction has begun to replace school for autistic students

ix years after a Santa Rosa, California, school for autistic students was destroyed in a fire, construction has begun on a replacement campus.

The Press Democrat reports that leaders of the Anova Center for Education, a K-12 school, were able to secure a loan that has cleared the way to begin building a new facility.

The Anova school was destroyed in the 2017 Tubbs Fire and is the only school destroyed in the fire that has yet to be rebuilt. In the meantime, about 150 Anova students have been learning in portable classrooms in a parking lot across from where their school once stood.

Over the past six years, Anova has been able to crowdfund nearly \$10 million of the estimated \$26.7 million cost to build a new school, which will include two 20,000-square-foot classroom buildings, outdoor pavilions, a garden and a sensory playground.

But that still wasn't enough to start construction. Sonoma County developers Cindy and Bill Gallaher of Gallaher Companies were able to set up a \$15 million construction loan for Anova.

The collaboration between Gallaher Companies and Anova also lowered the project total cost. Gallaher Companies is donating project management, architecture, design and landscaping.

What was estimated to cost nearly \$27 million will now be closer to \$20 million, Cindy Gallaher said.

If construction goes as planned, Anova students will transition to the new location for the 2024-25 school year.

Stadium shared by Drake University and the Des Moines (lowa) district has opened

he Des Moines (Iowa) school district and Drake University have opened Mediacom Stadium, a joint project of the two institutions. We are Iowa Local 5 News reports that the 4,000-seat stadium on the Drake campus will serve as the home field for four Des Moines high school football programs: Roosevelt, Hoover, Lincoln and North. It also will be the home turf for five high schools' soccer programs, and will be used as needed for other high school activities, like marching band.

For Drake, Mediacom Stadium will be the on-campus home field for its men's and women's soccer teams. The men's soccer played its inaugural game on the field n October.

The Des Moines district says the total project cost was \$24 million. The school district provided \$15 million, and Drake provided the rest.

Drake also will have responsibility for daily operations and maintenance of the stadium.



Image credit: Des Moines Public Schools

Clark Atlanta University plans 3 new campus buildings

ark Atlanta University will construct three new facilities simultaneously in an effort to enhance the student experience on the Atlanta campus.

The university says in a news release that the university administration has plans to build a freshman residence hall, a second dining hall, and a student success center.

The residence hall will accommodate 400 students. It will be the first of its kind to be built and owned by Clark Atlanta University since the 1996 construction of Brawley Hall for the Olympic Games.

In addition, the university will add a second dining hall to complement

the Bumstead/Ware site. This dining hall will provide a diverse range of culinary choices.

The new student success center will be constructed directly across SNCC Way and aims to streamline resources and programs to support student success. It will focus on fostering collaborative efforts and accelerating initiatives to enhance student persistence and completion.

To pay for these projects, Clark Atlanta University will use a combination of debt financing and contributions from a food service vendor. The facilities will enable Clark Atlanta to accommodate increased enrollment and the growing demand for on-campus student housing.

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