

K-12 EDUCATION

\$\$500







INTEGRATED DESIGN SERVICES

ARCHITECTURE COLUMN

Basic Design Services

Architectural Design Electrical Design Mechanical Design Structural Design Civil Design

Supplemental Services

Building Programming Existing Drawing Verification Medical Equipment Planning

Value Management

Value Engineering Life Cycle Costing Energy Analysis

Interior Services

Interior Design Space Planning + Utilization Studies Tenant Lease + Workletter Consultation Furniture + Equipment Selection / Specification

Planning + Research

Building Analysis
Feasibility Studies
Cost-Benefit Analysis
Master Planning
Historic Structural Studies
Environmental Impact
Analysis
Land Development Studies
Zoning Studies

ENGINEERING

Mechanical

Chilled / Hot Water Systems
Heat Exchangers
Energy Recovery Systems
Dedicated Outside Air Systems
Chilled Beam
Underfloor Air Distribution
Humidifiers / Dehumidifiers
Air Orientation
Variable Refrigerant Flow
Water Source Heat Pump
Geothermal
PTAC < Split + Packaged DX

Structural

Structural Steel Design
Concrete Design
Masonry Design
Wood Design
Concrete Structure Rehabilitation
Existing Floor Capacity Analysis
Foundation Design
3D Space Frame Analysis

Plumbing

Domestic Cold / Hot Water Sanitary Waste Vents Storm Water Laboratory / Chemical Waste Reverse Osmosis + Deionized Water Systems Medical Gas / Vacuum Compressed Air Natural Gas

Electrical

Lighting Design & Analysis
Power Distribution System Design
& Analysis
Grounding Systems
Lighting Protection Systems
Fire Alarm Systems
Mass Notification Systems
Public Address Systems
Video Surveillance Systems
Access Control Systems
Telecommunications Systems

Fire Protection

Wet Pipe Sprinkler Systems Dry Pipe Sprinkler Systems Pre-Actions Systems Fire Pumps Standpipe and Hose Systems

Other Services

Building Systems Commissioning
Arc Flash Hazard Studies
Fault Current Studies
Overcurrent Protective Device
Coordination Studies
Thermographic Surveys
Energy Audits
Property Condition Assessment
Peer Reviews
Value Engineering





King Springs Elementary /













Completion: 2020

Cost: \$27,400,000

Size: 162,621 SF

Services: Architecture, Engineering, Interior

Design, Construction Administration



King Springs Elementary School

Cobb County School District / Smyrna, Georgia

The King Springs Elementary School is a 67 Instructional Unit replacement school located on the same site as the current school in Smyrna, Georgia. The program is based on Cobb Co Schools standards. It includes Pre-K, Kindergarten, Primary (grades 1-3), and Intermediate (grades 4-5) classrooms, a Media Center (Learning Commons), a Cafeteria / Kitchen, and Gymnasium, as well as Art and Music programs. The new design is configured with a 3-level main classroom element, which reduces the footprint and works with the existing site topography. Site amenities include two play areas, a separate playfield, parent and bus parking, and queuing areas.













Completion: 2017

Cost: \$23,800,000

Size: 144,000 SF

Services: Architecture, Engineering,

Interior Design



Mountain View Elementary School

Cobb County School District / Marietta, Georgia

Fostering innovation and enthusiasm for learning, SSOE incorporated leading technologies and emerging trends in sustainability in designing Mountain View Elementary School. The 1% Special Purpose Local Option Sales Tax, adopted in 2013, provided funding for the \$23.4 million replacement facility.

Located on a 16- acre site on Sandy Plains Road, this project is a new 144,000 SF, two-level elementary school facility that replaces the existing Mountain View Elementary School. The facility includes 53 Kindergarten through 5th grade classrooms, cafeteria & kitchen, gymnasium, media center, two computer labs, two art labs & two music labs. The site also includes parking for 155 cars, queuing for 19 buses, playfield with track, two playgrounds and two playcourts.









New Elementary Schools

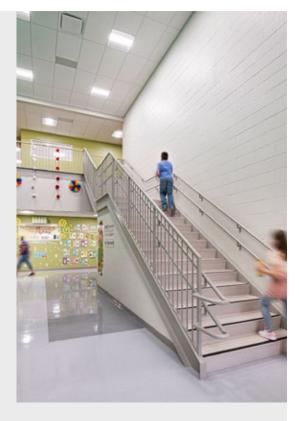
Fremont City Schools / Fremont, Ohio

As the lead design firm, SSOE, assisted the Fremont City Schools with consolidating their seven existing elementary schools into four new buildings. The team achieved simultaneous design and construction of the LEED Silver certified buildings, so they were all ready for the Fall 2022 school year.

The four construction sites contained existing buildings which needed to remain operational during construction.

District officials requested a standards package throughout the project, which was implemented across the district. The standards package includes the elementary and new high school projects. From a facilities standpoint, the district wanted to ensure everything from door hardware, plumbing fixtures, security and technology, and mechanical systems; any item relevant to more than one building was utilized through the district.

The SSOE and high school team strongly focused on teamwork and collaboration. Although each had individual design meetings, the project managers shared specifications and lists of preferred manufacturers. In addition, core team meetings with the Owner's representatives, construction manager, and design teams occurred twice a month. This open communication and trust between partners is worked seamlessly and ensured the district with an enforced standards program.



FAST FACTS:

Cost: \$100.000.000

Size: 8 schools total

Services: Architecture, Engineering





Ronald E. McNair Middle School

Fulton County Schools / College Park, Georgia











Completion: 2015

Cost: \$31,000,000

Size: 187,000 SF

Services: Architecture, Engineering,

Interior Design

Design Awards: American School & University Educational Interiors Showcase - 2016 Outstanding Design Award



Ronald E. McNair **Middle School**

Fulton County Schools / College Park, Georgia

The new McNair Middle School implements new typologies of learning and space to accommodate 21st century learning. These skills and technologies are necessary to prepare students for the changing needs of college, workforce, and future careers.

Other "neighborhood" immersive learning environments include team lecture and collaboration spaces, individual work area, tiered lecture area, teacher planning and administrative spaces. The middle school features 46 core classrooms, 12 science labs, 9 specialty labs and classrooms, music and art rooms, media center and gymnasium.





David T. Howard Middle School /













Completion: 2020

Cost: \$46,000,000

Size: 207,000 SF

Services: Architecture, Engineering, Interior

Design

Design Awards: Atlanta Urban Design Commission – 2021 Award of Excellence in

Historic Preservation

Atlanta Business Chronicle - Top Revitalization / Renovation Deal of the Year

American Institute of Architects Georgia Chapter (AIA Georgia) – 2021 Honor Design Award in Renovation / Restoration and Adaptive Reuse Over \$1M

The Georgia Trust for Historic Preservation -2021 Marguerite Williams Award



David T. Howard Middle School

Atlanta Public Schools / Atlanta, Georgia

SSOE was selected by Atlanta Public Schools for the re-design of the historical Howard Middle School. In collaboration with Lord Aeck Sargent, the project included a complete historic restoration of the existing facility, with multiple additions including a new administrative wing designed to reflect an originallydesigned element that was never built, a 4-level classroom addition, a media center, auditorium, kitchen/ cafeteria, and a music wing.

Great care was taken to design sensitively around the existing structure to highlight the historic attributes while at the same time creating a new identity for a modern middle school. The site design activates the urban setting and reconnects several pedestrian paths and bike trails that have come to define this area of the city.













Completion: 2016

Cost: \$5,700,000

Size: 26,388 SF

Services: Architecture, Engineering,

Interior Design



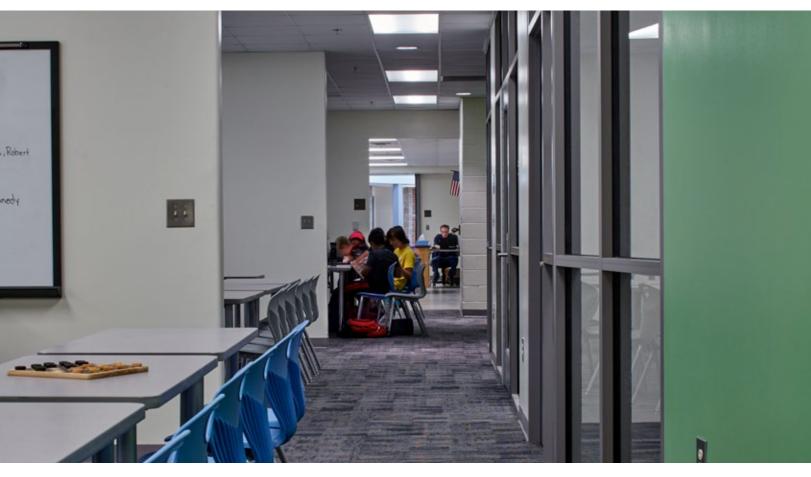
Autrey Mill Middle School Addition

Fulton County Schools / Alpharetta, Georgia

As part of Fulton County Schools' goal to introduce new learning environments into their existing school facilities, SSOE worked with school administrators and staff to design a new two-story addition at Autrey Mill Middle School. The multi-story addition, which now connects to the building's pre-existing two-level classroom, also included the addition of lab and teaching space totaling more than 25,000 square feet. The addition includes 11 classrooms, two science laboratories and one new Art Lab, designed to replace an existing undersized art suite. The Art Lab, with a newly centralized location makes it a vital part of the new addition as a way to better introduce art into the school's core classroom planning scheme.











Completion: 2015

Cost: \$15,800,000

Size: 154,880 SF

Services: Architecture, Engineering,

Interior Design

Taylor Middle School Addition & Renovation

Fulton County Schools / Sandy Springs, Georgia

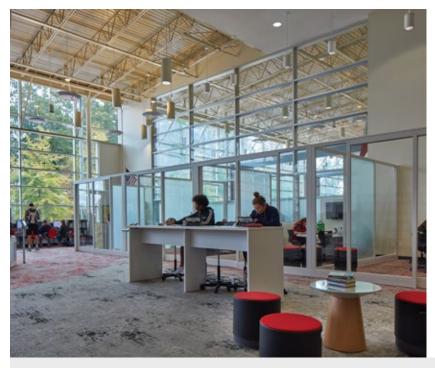
As part of the district's goal to introduce new learning environments into their existing facilities (along with the need for additional classrooms and labs), SSOE designed a two-story addition to adjoin the existing two-level classroom section of facility. SSOE | S&W had designed the original 185,000 SF facility in 2001, and knew the site would be a challenge.

The project scope included an addition of ten (10) instructional units in the new 'neighborhood' configuration and other building additions consisted of a kitchen expansion and renovation of the kitchen and serving line, art room and expansion, a new administration wing and a second cross-corridor. The entire building was renovated with new systems throughout.













Completion: Various Dates

Cost: \$4,900,000

Size: Range of 8,230 SF - 9,600 SF

126,000 SF - Total

Services: Architecture, Engineering,

Interior Design



Fulton County High School Media Centers

Fulton County Schools / 14 Locations

Understanding the importance of the changing role of the media center, Fulton County trusted SSOE to redesign all fourteen media centers in the district's high schools. Design elements include new furniture, improved technology, updated finishes, and reconfigurations of staff and student spaces to create a range of flexible, inviting environments that can accommodate individual study and small group collaboration to several entire classrooms. New concepts include a technology bar, learning commons, sandbox classroom, group study rooms, soft lounge seating, computer benching, mobile stacks, and a hands-on project space.











Completion: 2020

Cost: \$22,800,000

Size: 110,000 SF

Services: Architecture, Engineering,

Interior Design



Harrison High School Gym and PAC Addition and Renovation

Cobb County Schools / Kennesaw, Georgia

This project includes two separate additions – a 750-seat performing arts theater and a 3,000-seat competition gymnasium, as well as several reconfigurations of existing interior spaces, a new parking lot, a new bus staging lot, and relocated tennis courts on a challenging high school campus. Reconfiguring the layout provided direct, contiguous access to the new program spaces. Effective use of the existing topography allowed the two-level competition gym to be situated so that access to the seats is on the upper level, the court level below, and on-grade egress. Interior renovations included reconfiguring the existing theater into a black box theater, broadcast video suite, multi-purpose music space, and connecting corridor to the new PAC addition.





Morgan County Charter Schools /













Completion: 2019

Cost: \$50,800,000

Size: 157,000 SF - HS 112,000 SF - MS 20,000 SF - Trans.

Services: Architecture, Engineering, Interior

Design



Morgan County Charter Schools

Morgan County Charter School System / Madison, Georgia

The Morgan County High School and Career Academy project is the result of a bold vision by district leadership to create a new high school with a central focus on college and career pathways. The 42 instructional unit 9th-12th grade high school includes 28 classrooms, five science labs, a media center, gymnasium, band, choral, & art, family living suite, and JROTC suite. The twostory Career Academy wing includes Healthcare, Culinary Arts, Horticulture, Ag Mechanics, Engineering, Biotech Science, Business, Cosmetology, and Marketing programs.

The Morgan County Middle School is a 49 Instructional Unit that includes 6th – 8th-grade classrooms and science labs, Media Center, Cafeteria / Kitchen, and Gymnasium, as well as Art, Band, Choral and Drama spaces, Business, Technology, and Agricultural CTAE programs.





Jasper County School District /









Cost: \$6,800,000

Size: 25,000 SF

Services: Architecture, Engineering, Interior

Design



Career and Technical Education (C.A.T.E.) Center

Jasper County School District / Ridgeland, South Carolina

SSOE | S&W, in association with Red Iron Architects, is working with Jasper County School District on the design of a new C.A.T.E. Center. The Center will serve new and existing high school students of the county.

While connected to the Ridgeland-Hardeeville High School, the C.A.T.E. facility will provide a unique program introducing students to profitable trades and skills that can be used to enhance their future.

Building highlights will include Health and Bio-medical labs, STEM labs, flexible classrooms, computer and logistics focused classrooms, administration suite, state-of-the-art culinary program, and more.





Charleston County School District /









Cooper River Center for Advanced Studies

Charleston County School District / North Charleston, South Carolina

Capitalizing on a demand in careers in the health sciences, IT, pre-engineering, arts, and AV technologies, the design focuses on innovative real-world teaching environments. The new building is programmed for a 600-student core. Programs include highbay facilities for HVAC, Electronics and Building Construction, along with labs for S.T.E.M. classes, Biomedical Engineering, Health Sciences Cyber Security, Computer Repair and Project Lead the Way. The project was designed in partnership with North Charleston-based WBE firm, Red Iron Architects.

Additional spaces include:

- **Maker Spaces**
- Large two-story exhibition space
- 150-seat Lecture Hall
- **Administration Core**
- **Nursing Suite**
- District-wide AV Department
- Business Partner's Office Suite
- Career Guidance area
- Small Café



FAST FACTS:

Cost: \$25,200,000

Size: 90,000 SF

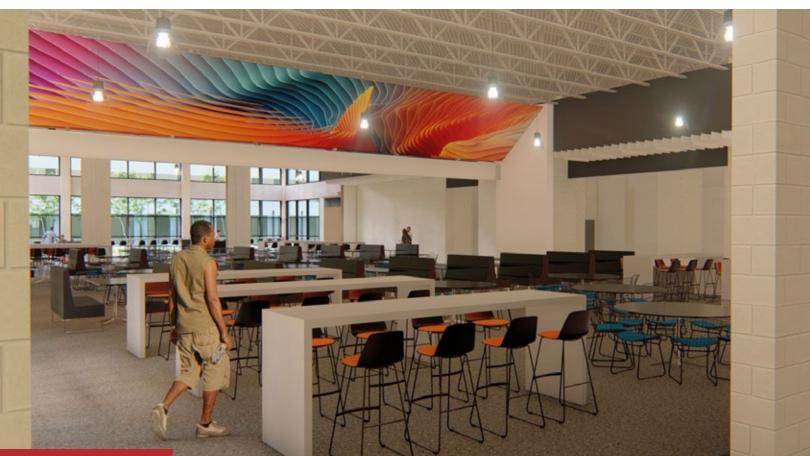
Services: Architecture, Interior Design











Richland Northeast High School

Richland County School District Two / Columbia, South Carolina

SSOE was selected by Richland County School District for renovations to the classroom building to provide flexible collaborative and group spaces that accommodate project based learning and facilitate teaching for different learning styles.

The project scope includes updates to the cafeteria and auditorium lobby, auditorium ADA upgrades, connecting existing buildings with enclosed corridors, enclosing existing open egress stairs, and upgrades the existing courtyard and amphitheater.



FAST FACTS:

Cost: \$23,500,000

Size: 324,364 SF

Services: Architecture, Engineering, Interior

Design







School District Five of Lexington and Richland Counties /







Irmo High School

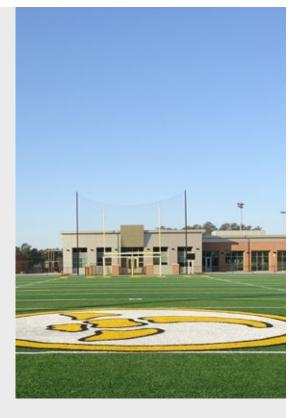
School District Five of Lexington and Richland Counties / Columbia, **South Carolina**

SSOE worked with the District to address challenges concerning circulation, student safety, building security, and campus identity. Various architectural styles and conflicting circulation patterns led our design team to revamp the school's circulation by separating both vehicular and pedestrian traffic. By increasing the stacking on-site, the design team was able to alleviate traffic backing up onto St. Andrews Road, the main thoroughfare onto the campus, thus creating a safer environment overall.

The new stacking space incorporates new plazas and canopies in front of the existing Academic building, C.A.T.E. Center and proposed auditorium, thereby visually and physically reconnecting the campus. In addition, the school's athletic areas were unified around a series of hardscaped plazas which now serve as additional gathering areas for students and staff.

In order to better address the campus' varying architectural styles, a new focal entry canopy was proposed at the main building's front door that allowed the team to incorporate new signage at each of the vehicular entries. All on-campus portables were eliminated upon the successful ability of the design team to renovate several of the school's pre-existing structures.

By connecting the C.A.T.E. and Academic Buildings and placing a new auditorium in the space in between the two structures, the team was able to create an interior circulation space in the lobby. While the new field-house and plaza, housed on axis with the end zone of the Football Stadium, and provided a new focal point towards the south end.



FAST FACTS:

Cost: \$23,800,000

Size: 53,000 SF

Services: Architecture, Engineering, Interior Design, Construction Administration







Anthony Wayne Local Schools /





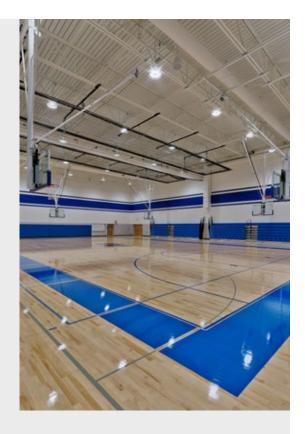


District-Wide Facility Rebuild

Anthony Wayne Local Schools / Whitehouse, Ohio

Continuing our partnership with Anthony Wayne Local Schools District, SSOE transformed the priorities established during the master planning phase into design solutions across the district's four campuses. The main campus, which includes Anthony Wayne High School, Anthony Wayne Junior High School, and Fallen Timbers Middle School, received overall facility improvements, upgraded security vestibules and visitor entries, a new high school office addition to make room for three new science rooms, as well as new science rooms and a media center at the junior high. The new high school auxiliary gym and cafeteria addition are adjacent to a new commons area that incorporates storefront windows to allow interior access to daylight. This space will be used by students daily and for public events.

The elementary schools also received upgrades. All upgrades focused on student and staff safety, including the site designs, which were updated for bus circulation, parent drop-off, parent / visitor parking, and student parking to reduce congestion and increase student safety. SSOE worked closely with the district's operations personnel to increase energy efficiency with the improvements.



FAST FACTS:

Cost: \$44,200,000

Size: 164,985 SF, 3 campuses / 5 sites / 7 buildings

Services: Architecture, Engineering, Programming











District-Wide Facility Rebuild

Forest Hills School District / Cincinnati, Ohio

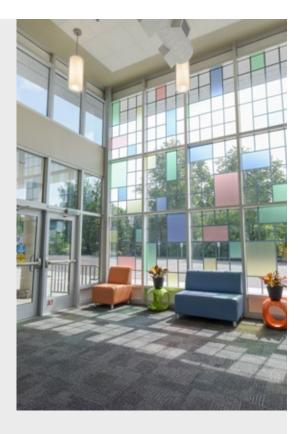
SSOE worked with the Forest Hills School district to pass a \$103 million bond issue geared toward improving facilities with a goal of bringing deteriorating buildings up to the 21st Century standards. The bond issue encompassed facility renovations of both high schools, the middle school, five of the six elementary schools, and construction of a new Wilson Elementary School.

The project featured:

- Learning commons that provided teaming rooms, flexible learning areas within the education areas, and special education areas designed to meet the needs of students and teachers
- Specialized science classrooms and support spaces
- Performance areas included music classrooms, new black box theater, practice rooms, and team spaces
- Athletic facilities locker room upgrades, fitness rooms, and auxiliary gyms
- Art rooms included spaces for digital arts and ceramics
- Video room to be used for video announcements and student engagement

The projects also included security upgrades, including security vestibules and visitor entries, along with site upgrades focused on student and visitor access, site safety, and technology upgrades. Other upgrades include energy efficiency improvements, LED lighting, additions to support all day kindergarten, new roofs, enhancements to support curriculum, interior finish upgrades, air conditioning, and other HVAC improvements.

SSOE was engaged to provide our expertise throughout the planning and budgeting process to establish benchmarks in order to achieve the district's goals. SSOE provided architectural, landscape architecture, civil engineering, interior design, and construction administration services, as well as furniture selection and bid packages for the multiple additions, renovations, and new elementary school.



FAST FACTS:

Cost: \$103,200,000

Size: 9 schools total

Services: Architecture, Engineering









District-Wide Facility Rebuild

Toledo Public Schools / Toledo, Ohio

SSOE served as both the Program Management and Project Design Architect for the district-wide rebuild for the Toledo Public Schools (TPS). As Program Manager, SSOE managed the consortium of 27 firms comprising the Allied Toledo Architects. This includes a lead role in aligning assignments for 67 replacement or renovation projects designed over a 10-year period. Working with TPS, SSOE | S&W established architectural, interior, and loose furnishing standards, which allowed a template for consistency throughout the projects. This effort includes:

- Coordinating efforts with EDGE Certified civil engineers, ESA, for civil and site work along with surveys.
- Project standards, cost, budgeting, and incorporation of proven (life cycle analyses) energy saving concepts for implementation on all facilities.
- Standardized project CADD database, including 3D modeling of all projects for a communication and design tool.
- Civil and site design, including parking, traffic engineering, waterway relocation with flood plain map revisions (CLOMAR) through FEMA, and wetlands mitigation through the Army Corps of Engineers.
- This effort includes a web-based management approach. FTP sites were established for drawings and document interface with consultants.

SSOE, as Project Design Architect, was responsible for over \$100 million in construction. This included the largest project, 300,000 SF Start High School (\$42 million), which includes a new school, city park, and a YMCA (renovated portion of old school). SSOE | S&W was also responsible for the largest renovation, Scott High School. This renovation received LEED® Silver certification.



FAST FACTS:

Cost: \$670.000.000

Size: District-wide

Services: Architecture, Engineering, Program Management









District-Wide Renovation and Rebuild

Miamisburg City Schools / Miamisburg, Ohio

Miamisburg City School selected SSOE to renovate and create new schools to support the district's growth through facilities designed to fit into the neighborhoods they serve. The districtwide construction / rebuilding campaign included repairs to existing facilities, security improvements, additional educational spaces, and the creation of 21st Century educational environments. SSOE assisted the district through facility evaluations, programming and master planning, project phasing, and overall district program schedules before seeking support from the community. This was key to position the district with a clear plan and able to issue a bond to secure funding to build three new schools and complete district-wide renovations to their facilities.

Phase One included security controls and office renovations which were implemented at three of the existing elementary schools: Mark Twain, Mound, Bauer. Additionally, a new Pre-K-12 preschool facility was fast-tracked to free much-needed classroom space. The Pre-K School went up in 5 months (design thru construction). SSOE developed a criteria package for a prefabricated metal building shell package and site design in two weeks for bid and later provided support detail development with the selected contractor. Phase Two involved the construction of new 500-student Chance Elementary in the fastgrowing southern sector of the district and a new 1,500 student Miamisburg Middle School to replace several aging facilities. Phase Three was a complete reprogramming renovation and expansion of the existing high school, providing a comprehensive solution to a facility with multiple, disjointed additions. Phase Four involved the renovation of existing Kinder Elementary in the historic downtown area by preserving the façade, completely replacing the internal components, and expanding the existing footprint. Phase Five included reprogramming and adaptive reuse of existing classrooms with new technology, mechanical, electrical, and plumbing systems upgrades throughout.



FAST FACTS:

Cost: \$70.000.000

Size: 170,000 SF Elementary School, 65,000 SF Middle School

Services: Architecture, Engineering









District-Wide Rebuild

Sylvania City Schools / Sylvania, Ohio

A forward-looking strategic plan was developed by SSOE for the facility needs at Sylvania Public Schools. Multiple factors had an impact on the development of the plan, including population growth, aging facilities, and the need to meet changing technology and curriculum needs. The solution that evolved was a districtwide plan to update facilities with renovations and additions that would meet the needs of the district and to replace the facilities past their useful life.

Highlighted renovations and additions completed by SSOE include Northview High School, Maplewood Elementary School, and Central Trail Elementary. Northview High School's Performing Arts wing was renovated to accommodate the size of their program and create a defined public entrance to the theatre. The renovation and addition were designed to solve mechanical noise issues, meet stage requirements, and add seating capacity while creating an environment conducive to the highest level of teaching to reinforce the program's renowned reputation.

The Maplewood Elementary School renovation replaced a three-story K-5 facility originally constructed in the 1920s. The new facility had to fill the void of the old school and replace it with a new presence at twice the size, that still respected scale, community, and function along with being highly efficient in terms of energy costs and operation. These criteria influenced a very efficient heating and cooling system, incorporating a field of geothermal wells under the athletic fields in conjunction with a high level of individual control at the heat pumps, serving classrooms and other spaces throughout the building. All classrooms and other occupied spaces were provided with daylight views, and advantage was taken of south-faced glazing for maximizing daylighting in classrooms with automated control of artificial light.

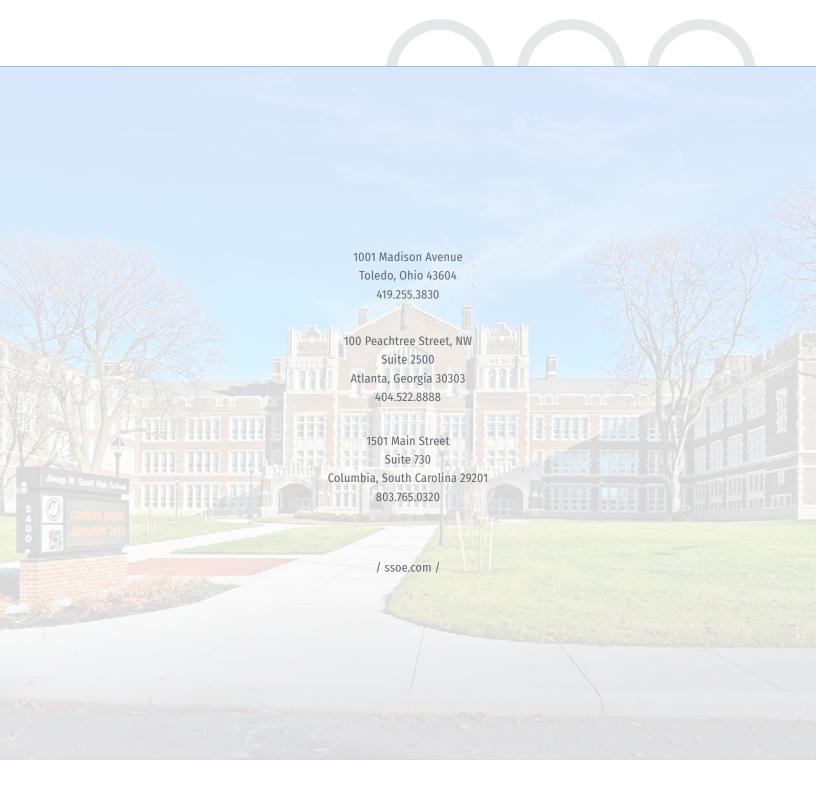


FAST FACTS:

Cost: \$100.000.000

Size: 8 schools total

Services: Architecture, Engineering



K-12 EDUCATION

