



project portfolio

# educational

**LAN**

LAN ASSOCIATES

ENGINEERING  
PLANNING  
ARCHITECTURE  
SURVEYING

SINCE 1965



# WHO WE ARE LAN ASSOCIATES

LAN is a dynamic full-service architectural and engineering firm that has been serving the Tri-State area since 1965. With a team of multi-disciplinary experts all under one roof, LAN embodies an efficient integrated approach. Collaboration and communication are inherent through every stage of a project, with experts contributing to one vision that streamlines timelines, saves resources and produces a superior result.

LAN employs over one hundred architects, engineers, design professionals, field observers, and administrative staff. We are responsible for over \$250 million worth of construction per year for educational, hospitality, healthcare, federal, municipal, industrial, ecclesiastical, and private clients. LAN is an employee owned company and a category 6 Small Business Enterprise (SBE) with offices located in Midland Park, NJ, Goshen, NY, and Philadelphia, PA.

# OUR CLIENTS

## EDUCATIONAL K-12

- Alpine
- Bergen County Technical
- Bloomingdale
- Bloomfield
- Boonton
- Bronxville
- Chester
- Cliffside Park
- Cranford
- Cresskill
- Demarest
- East Newark
- Edison
- Elizabeth
- Fair Lawn
- Florham Park
- Goshen
- Irvington
- Jersey City
- Keansburg
- Leonia
- Mamaroneck
- Manalapan
- Maywood
- Monroe-Woodbury
- Montvale
- Mount Pleasant
- New Milford
- Newark
- North Haledon
- Northern Highlands
- Nyack
- Orange-Ulster BOCES
- Paterson
- Passaic
- Passaic Valley
- Philadelphia
- Plainfield
- Port Chester
- Prospect Park
- Ramsey
- Ramapo/Indian Hills
- Rockaway
- Rockland BOCES
- Ridgewood
- Rutherford
- River Vale
- Saddle River
- Verona
- Wanaque
- Warwick Valley
- West Milford
- Woodbridge
- Yonkers

## HIGHER EDUCATION

- Fairleigh Dickinson University
- Montclair State University
- Mount Saint Dominic Academy
- New York University
- Ocean County College
- Ramapo College
- Stevens Institute of Technology
- St. Peter's University
- Sussex Community College
- William Paterson University



# goshen high school

As part of a \$30 million referendum that was passed in February of 2017, LAN designed new athletic facilities and a 15,000 square foot building addition for Goshen High School.

The new main entrance addition seamlessly integrates the interior circulation routes with the existing school. The aesthetic combines a stone and metal façade with blue accents that complements the athletic facility's branded color scheme. The project was a substantial rebuild that included administrative offices, a guidance suite, a nurse's office, four classrooms, and a lobby. The project also included renovations to 20 classrooms, the cafeteria, music suite and the conversion of the Unified Arts Department into a STEAM lab.

LAN also completely renovated the auditorium. Sight lines were improved by lowering the floor near the stage and raising it in the rear, providing an 8-foot elevation change. A stage lift that can be quietly raised or lowered during a performance was added to the space, and the previous bright interior was replaced with warm color tones to highlight the stage.



A central corridor, bookended with courtyards on each side, serves as a dedicated lobby. It provides a connection to nature with natural light, making it perfect place for students to hang out during study, flex or lunch periods. The courtyards are used for outdoor instruction and student leisure.

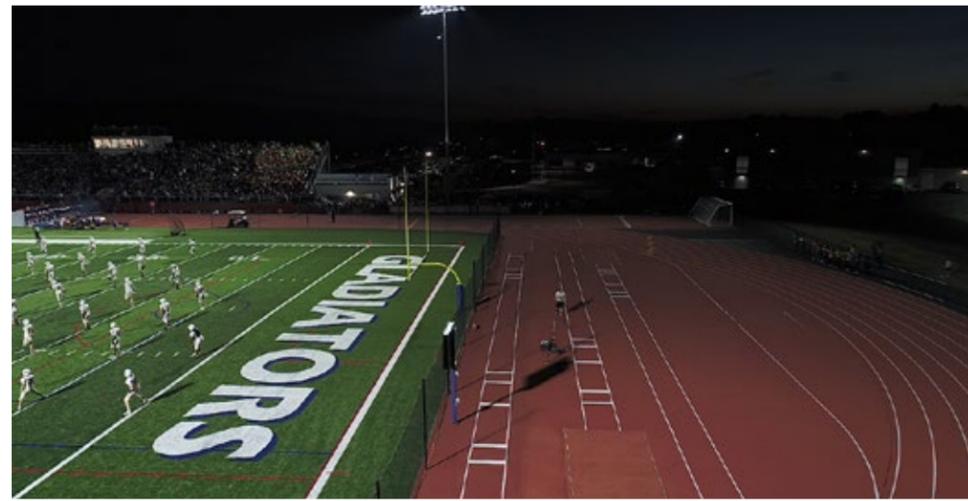




# goshen high school athletic facilities

New athletic field facilities with two multi-sport artificial turf fields, an 8-lane track, athletic field lighting, a video display board and a 1,500-seat grandstand were built for Goshen High School.

A new field house was also constructed with locker rooms, a training room, storage rooms, bathrooms and a concession stand. A new press box was constructed above the new field house.



*"The new building addition and modernized athletic facilities at Goshen High School would not have been possible without the vision and dedication of LAN Associates. Their innovative design, professionalism, and meticulous attention to detail were vital for the betterment of our facilities, which will benefit our students and entire community for many years to come."*  
-Mr. Dan Connor, Superintendent



## ross street

Due to increases in the town's population, Woodbridge Township's Ross Street Elementary School needed an expansion to meet the needs of its growing student body. LAN designed a two-phased school addition and renovation so students would not be displaced throughout construction.

LAN's goal was to make the school feel like a home away from home that positively impacts and shapes children's early childhood experiences. This was done through design choices that emphasize personalization. Within the corridors, LAN designed various breakout spaces that include soft seating, informal learning spaces and areas to retreat.

Color and natural light were prioritized throughout all classroom spaces, specifically focusing on holistic design approaches that increase student performance.



The new three story, 87,000 square foot addition is centered around a large courtyard. It was deliberately positioned to provide natural light and a connection to nature that can be enjoyed throughout much of the school. The courtyard houses a small amphitheater for outdoor lessons, several "living learning" gardens, and seating areas for reading and eating. The courtyard is also used for town meetings and public events.

The Creative Commons combines the aspects of a traditional media center with a makerspace, creating a large learning area where students can discover, assemble, and collaborate. The 3,500 square foot commons is highlighted by a maker wall that includes a vertical LEGO surface, floor to ceiling whiteboards, cubbies for building materials, and interactive display boards.

SCAN THE QR CODE TO  
EXPERIENCE THE VIRTUAL  
COURTYARD



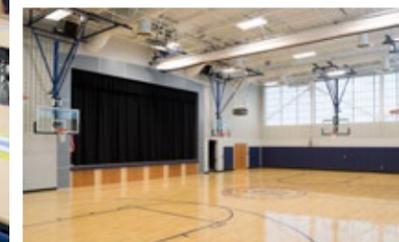


# edison

LAN was selected out of a highly competitive field as the architect and engineer for the James Monroe Elementary School in Edison, NJ. The new two-story, 67,000 square foot school with 28 classrooms was constructed on the site of the former school which was destroyed in a fire.

The new educational facility was designed to provide modern classrooms filled with daylight and LED light fixtures with daylight harvesting and motion sensors for energy efficiency. The school provides specialized instructional spaces and components of holistic design to increase student performance. The design focused on color theory and providing energetic learning environments to the students. The school has a community wing for after school programs open to the surrounding neighborhood. The footprint of the school is similar to that of the former facility in order to take advantage of existing utility connections, site improvements, and to lessen the impact on its neighbors.

The school is integrated with the latest green technologies and development techniques to reduce overall energy consumption.



LAN Associates was retained by Menlo Park Elementary School for the design of eight new classrooms and a gymnasium addition. The gymnasium, highlighted by a feature wall and LED color changing fixtures, creates a new, welcoming entrance in the current drop-off area. The gymnasium also provides ample amounts of diffused daylight to allow for a brighter interior without a direct glare that can interfere with games. A new instrumental music room was also constructed for students to practice.

The classroom addition is designed to provide modern classrooms filled with natural light and will utilize LED light fixtures with daylight harvesting and motion sensors to provide energy efficiency.



# mamaroneck

LAN was retained by Mamaroneck Union Free School District to provide physical education renovations to Mamaroneck High School. The renovations were part of a \$9.3 million referendum to revamp underutilized spaces to create 16,500 square feet of multi-functional physical education teaching areas for the High School's new curriculum.

The new state-of-the-art physical education curriculum features a multi-purpose physical education classroom (MPPEC) equipped with cardio equipment and climbers for individual cardiovascular training and two rig/rack systems for strength training. Additional spaces include an Open Studio available for a variety of instruction such as spinning, TRX suspension, boxing and yoga; a Free Movement Gymnasium equipped with indoor turf for push pull activities and agility training, and custom traverse climbing walls.



The existing underutilized locker rooms were renovated with a new layout to provide separate physical education locker rooms and team locker rooms for interscholastic sports. The locker rooms feature individual showers, toilet facilities, and finishes that are hygienic and washable.

A major driving force of this project dealt with health and safety concerns surrounding the condition of the physical education program and team locker rooms. The locker rooms had not been upgraded in over 40 years and did not provide proper mechanical ventilation, showering facilities, or a means to securely store personal student belongings. A majority of the instructional spaces were repurposed from underutilized basement areas that were transformed into open spaces with proper lighting.



The new physical education spaces provides flexibility that meets the changing needs of the physical education program, safer facilities for students, and also supports the District's interscholastic sports teams and community for years to come.



# leonia

With a rapidly growing student population, LAN was hired to design a classroom addition, Culinary Art classroom, and a cafeteria expansion for the Leonia School District. Envisioned as the new mathematics wing, LAN designed seven classrooms surrounded by floor to ceiling whiteboard walls so learning can take place in any corner. Focusing on a holistic design approach, LAN used a modern color palette, large windows for vast amounts of natural light, and daylight harvesting technologies to increase student performance. The project totaled at 11,500 square feet.

As the high school transitions its culinary program towards an “academy”, the new Culinary Arts Lab is equipped with new commercial equipment, six mini kitchens, large restaurant ranges, and movable work stations. Lessons can be seen throughout the room with a document camera above the teacher’s work station, mimicking cooking shows. Nestled between the addition and the existing school, a terraced courtyard was incorporated for new lesson plans. With a small amphitheater in the center, teachers can host outdoor classes and the culinary classes can grow herbs and grill meals for guests in the surrounding terraces. Students can also find quiet reading areas and informal gathering places within the new courtyard. Since the renovation, enrollment into the program has increased 80% and a waitlist had to be implemented.



SCAN THE QR CODE TO EXPERIENCE THE VIRTUAL CULINARY LAB



# woodbridge middle school

Woodbridge Middle School hired LAN to update its one hundred year old school to create a more advanced learning environment, as well as, a welcoming community center for the town’s residents. In a complex design scheme, utilizing existing structures while also proposing needed classroom space, LAN created a 80,00 square foot design that respectfully compliments the existing building.

On the southern edge of the building, LAN created a new handicap-accessible plaza to serve as the new main entrance for all guests entering the school. A large glass vestibule was added to the existing façade, creating a glowing box and beacon for basketball games and other community events held within the space. As students and fans enter the main lobby, they are welcomed into a large volume incorporating the existing arched windows. This school spirited space, where character counts, is encircled by a graphic band inspiring all to be their best selves. In the center, the school’s logo is proudly highlighted by a textured wall and LED lighting, creating a collegiate feel and promoting school spirit for every event.

On the highest floor, LAN included a new Creative Commons that functions as a flexible maker space where students can learn about coding, robotics, 3D printing, and laser cutting, to create anything their minds can imagine. Surrounded by full whiteboard walls, tackable surfaces, and assembly countertops, the Creative Commons allows for ideas and designs to flow freely.

The entire project consists of a new gymnasium and locker rooms, large music and vocal classrooms, six new science rooms, a Creative Commons, Production studio, as well as newly renovated classrooms.





## bergen county technical schools

LAN converted an outdated autobody shop into a new 3,500 square foot state-of-the-art aerospace classroom. The space includes an engineering lab, assembly studio, and a prototype workshop that follows the “design thinking” process from early concepts to working models. With docking stations for tablets, large whiteboard walls, and collaborative seating, students can easily work together on a variety of designs.

In the assembly studio, designs come together on large worktables or a flexible soldering bench for small individual projects. This room also contains 3D printers and a vertical lift storage system, so any tool can be retrieved with a push of a button. The prototype workshop is a dust-controlled work environment for bigger builds and more complicated construction.

The aerospace classroom is located directly across from an airport and was designed to incorporate a style that reflects that airport’s history. Early aviation images can be found throughout the space.

*“The classroom designed by LAN is a collaborative and technology-infused learning community. LAN has provided a state-of-the-art learning environment that fosters creativity and innovation, facilitating advanced studies and careers for the district’s students immediately after graduation.”*

*-Mr. John Susino, Business Administrator*

# bronxville

As part of a 2018 bond referendum, Bronxville Union Free School District retained LAN Associates to update, improve, and add to the Bronxville School. LAN was hired to preserve and restore neglected portions of the almost 100-year-old building exterior and to modernize the interior.

The goal is to provide high tech, collaborative project-based learning environments. LAN's design incorporates makerspaces that emphasize the importance of the "design learning" process from conceptual design to completion. Moving students away from a traditional classroom lecture and into a "learn by doing" environment has been proven successful in helping them retain and fully understand new concepts.

Interior renovations will expand the health suite and provide air conditioning throughout the hottest areas in the school. Site improvements will also include the replacement of a playground, an artificial turf football field and resurfacing the track.

Three additions are planned to expand the undersized cafeteria, entrance lobby and guidance suite. The design of the guidance suite compliments the collegiate gothic architecture of the original building.

Historically, significant rain events have flooded Bronxville. A new stormwater pump station was previously installed to divert excess runoff from the Bronx River, but the measure was insufficient. The bond will also be used to for LAN to complete the flood mitigation project.



The flex seating and lounge area is designed with wall to wall writing surfaces and a unified yet independent set of break out spaces. The space encourages students to utilize different learning settings and collaborate with various groups and technology.



## sussex community college

LAN Associates provided Sussex County Community College with a master plan and a priority list for the campus renovation and expansion. This list included site safety and security upgrades, new sidewalk lighting throughout the campus, relocation of the bookstore, creation of a new campus green and repaving and brick pavers on pedestrian areas. Architectural priorities included relocation of business offices, mechanical upgrades, science room upgrades, and several new buildings such as: educational buildings, gymnasium, art studios, executive offices and food court.

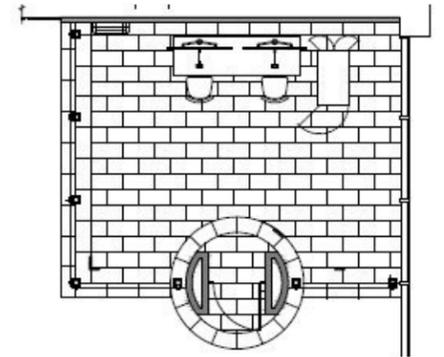


LAN designed a new four-story educational building for Sussex County Community College as part of a master plan and future development study. The new building consists of eleven new classrooms, an art studio, gallery space, mini-lab and faculty offices. The building overlooks the existing athletic fields and helps direct students down the campus hills to the facilities. The structure is designed to later expand and form a quad between two buildings.



## st. peter's college

LAN Associates provided professional A/E services for a new energy performance display room located in Dinneen Hall at St. Peter's University. The 400 square foot room includes new finishes, lighting, mechanical cooling, electric and a custom computer desk with stainless steel wrapped table legs with perforated metal baffle to screen wires as part of the cable management system. The new computer equipment, server cabinet, flat panel LCD display monitors and arm mounts were integrated into the design to become the focal point of the space. Energy performance displays for the entire campus, including BMS alarm monitoring, co-gen, solar, sub-metering, internet weather station, BMS, lighting and iPLC, are featured as a dashboard to showcase management information systems.



The segmented glass walls appear to float as panels are suspended from stainless steel columns with stand-offs. Entrance to the room is through a metal cylinder with a full height glass door with stainless steel pull handle. The playful massing of design elements creates solid and void while forming positive and negative space. Horizontal reveal joints are aligned with the butt joints of the glazing to emphasize the horizontal proportion and minimalist design expression. The reveals are also carried to the new feature wall as a back drop to unify the space.

