

ENGINEERING AND ENVIRONMENTAL SERVICES

Technical Excellence Practical Experience Client Responsiveness



BRISTOL MYERS SQUIBB / CELGENE

Location: Summit, NJ
Client: Bristol Myers Squibb / Celgene Corporation
Architect: Highland Associates
Partner: Turner Construction Company
Services: Site/Civil, Geotechnical, Traffic & Transportation, Landscape
Architecture, Surveying/Geospatial

OVERVIEW

As part of the design-build team, Langan provided site/civil, geotechnical, surveying, landscape architecture, and traffic engineering services for this new, five-story office and structured parking facility. Langan evaluated the subsurface conditions and prepared value-engineered design measures to provide cost-effective solutions for the proposed foundation system. Langan's site design services included work on the 182,000-SF office and structured parking facility with approximately 974 parking spaces, an at-grade parking area consisting of 215 parking spaces, a new traffic signal at the fronting intersection to the campus, and a 50-foot-high retaining wall surrounding the perimeter of the building.

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NOVARTIS PHARMACEUTICALS - EAST CAMPUS

Location: East Hanover, NJ
Client: Novartis Pharmaceutical Corporation
Architect: Gensler
Services: Site/Civil, Geotechnical, Environmental, Landscape
Architecture

OVERVIEW

The East Hanover Campus of Novartis Pharmaceuticals is made up of office buildings, laboratories, storage facilities, dining facilities and recreational facilities. Over the past 5 years Novartis has redeveloped the eastern portion of their campus. Improvements include new office buildings, a parking garage, landscaping of a promenade and environmental remediation. Langan provided services throughout this redevelopment process in association with the construction of two 29,430-SF office buildings and a 61,700-SF parking garage, including site/civil, geotechnical, and environmental engineering. Langan site/civil engineering services included site demolition, grading, drainage, erosion and sediment, utilities and construction details to support the building projects and the east campus landscape enhancement project. Geotechnical services included conducting subsurface investigations including borings and test pits, a geotechnical report and design support for the preparation of foundation documents for three new buildings and site improvement.

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BIOTRIAL NORTH AMERICAN HEADQUARTERS

Location: Newark, NJ
Client: Biotrial
Architect: Francis Cauffman
Partner: Buro Happold, Thornton Tomasetti
Services: Geotechnical, Site/Civil, Traffic & Transportation, Landscape
Architecture

OVERVIEW

Langan provided geotechnical, civil, environmental, traffic, and landscape architecture services to this France-based biotechnology and pharmaceutical company. The first phase of the project consisted of a five-story, 70,000-SF glass building, which features metal panels that rise on two sides of the building, symbolizing the nature of Biotrial's pharmaceutical testing mission. Phased site design construction plans include a screened-in service and parking area with underground stormwater storage, a public plaza at the front of the building that will carry the building pattern toward the public sidewalk, and a private volunteer garden that will provide a green resting area for building users.

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ALLERGAN HEADQUARTERS - PARKING GARAGE

Location: Madison, NJ
Client: Lincoln Equity Group, LLC
Architect: HLW
Services: Site/Civil, Geotechnical, Traffic & Transportation,
Surveying/Geospatial, Natural Resources & Permitting

OVERVIEW

5 Giralda Farms is a 463,000-SF Class A commercial office building located within the beautiful Giralda Farms campus, which was formerly the estate of Geraldine Rockefeller Dodge. As part of the re-tenanting of the office building in 2016, Langan assisted the owner to plan, design and permit additional parking at the facility to meet the needs of the tenant, Allergan. We worked with the project team to plan and design a parking facility that fit within the unique character of the campus while protecting significant historical landscape features. To meet the strict sustainability requirements of the Giralda campus we included bioretention basins, swales and porous pavement measures, and designed a stormwater management system.

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Credit: Somerset Development

FORMER AT&T BELL LABORATORIES

Location: Holmdel, NJ
Client: Somerset Development
Architect: Mancini Duffy, Alexander Gorlin & Associates
Services: Site/Civil, Environmental, Surveying/Geospatial, Traffic & Transportation, Natural Resources & Permitting, Landscape Architecture

OVERVIEW

Langan supported Somerset Development in their major subdivision of the 473-acre former Bell Labs site, which included preparation of the subdivision, design of new entrances, new lighting and landscaping, natural resource permitting, and obtaining local approvals from the Holmdel Planning Board and Soil Conservation District. Langan also provided field observation during construction of the new front entrances.

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ORACLE

Location: Redwood City, California
Client: Oracle
Architect: Gensler, KSH Architects
Partner: Nishkian Menninger, Webcor
Services: Geotechnical

OVERVIEW

Langan performed a geotechnical investigation for the Oracle Headquarters and the adjacent Island Parkway Campus. Langan developed foundation design criteria for several office buildings, a recreation center, conference center, pedestrian bridge, and four parking structures.

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GATEWAY OF PACIFIC

Location: South San Francisco, CA
Client: BioMed Realty
Architect: Flad Architects
Services: Geotechnical, Environmental

OVERVIEW

Langan is providing multi-disciplinary services for Phase I of Gateway of Pacific - a 1.3-million-SF laboratory and office campus development. Phase I includes the construction of a 12-story building with a basement and penthouse that includes two wings connected by a 5-story atrium; a 2-level below-grade parking garage; an amenity building above the parking garage; surface parking and associated grading; and landscaping and other improvements. Our geotechnical team is charged with evaluating the subsurface conditions and providing foundation and grading recommendations for the development and improvements. Langan consulted on the conceptual design phase and is now providing construction observation services for Phase I. Our environmental team performed site characterizations to assess the potential for the presence of hazardous substances by analyzing soil and groundwater samples.

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NJIT - INTEGRATIVE SCIENCE AND ENGINEERING LABORATORY

Location: Newark, NJ
Client: New Jersey Institute of Technology
Architect: NK Architects
Services: Site/Civil, Geotechnical, Traditional Surveying, Terrestrial Scanning/BIM, Environmental

OVERVIEW

This new 4-story, 24,500-SF state-of-the-art research facility will include wet and dry laboratories, offices, and teacher and student space. Langan provided site/civil, geotechnical and environmental engineering, and surveying services for the new building. Additionally, Langan laser scanned the existing building and created a Revit model for the architect to use for their design, resulting in a more seamless design and construction process. We also provided geotechnical and environmental engineering support services during construction of the facility.

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NJIT - WELLNESS AND EVENT CENTER

Location: Newark, NJ
Client: New Jersey Institute of Technology
Architect: AECOM
Services: Geotechnical, Environmental, Surveying/Geospatial

OVERVIEW

Langan provided geotechnical and environmental engineering and surveying services for this new \$100-million multipurpose event and fitness center. The 200,000-SF building will be the centerpiece of the university and provide a much needed hub for conferences and events, fitness and team sports practice areas, and student study and gatherings. Langan provided preliminary environmental field investigation for areas of the build site that was formerly occupied by an auto body facility. We also provided LSRP services for the review and remediation of any areas of concern. Langan is currently providing geotechnical and environmental engineering support services during construction.

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RUTGERS CANCER INSTITUTE OF NEW JERSEY

Location: New Brunswick, NJ
Client: New Brunswick Development Corp
Architect: HOK
Partner: AKF Group, O'Donnell & Naccarato, TimHaahs

OVERVIEW

Langan is performing site/civil, geotechnical, environmental, traffic, and survey engineering services for the new Rutgers Cancer Institute of New Jersey project in New Brunswick, the state's only National Cancer Institute-designated comprehensive cancer center. The state-of-the-art facility will provide new space for essential cancer treatments and research. The project also includes a new 1,000-car parking garage.

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RUTGERS UNIVERSITY - RICHARD WEEKS HALL OF ENGINEERING

Location: Piscataway, NJ
Client: Rutgers University
Architect: The S/L/A/M Collaborative
Services: Site/Civil, Geotechnical, Traffic & Transportation,
Surveying/Geospatial, Environmental

By combining the design for the adjacent road and regional stormwater basin with the Weeks Hall project, Langan was able to reduce construction costs by sharing stormwater management facilities and minimizing utility relocations.

measurable value

Early in the design process, Langan identified critical issues that needed to be addressed prior to construction of Rutgers University Richard Weeks Hall of Engineering. These critical issues included regional stormwater management planning, site circulation, utility relocations, permitting constraints, and replacement of on-site parking.

Langan's regional stormwater approach not only addressed the current needs of the project, but also supports future developments within the 30-acre drainage area on Busch Campus. The new roadway adjacent to the building, which will be a part of a future campus loop, will provide vehicular circulation at the perimeter of the campus while limiting pedestrian and vehicular conflicts in the center of the campus.

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overview

Weeks Hall was designed to provide a state-of-the-art interdisciplinary facility designed to anchor the School of Engineering on the Busch campus and serve as a gateway for the next generation of engineers. The facility will feature smart classrooms and laboratory spaces, collaborative work space, dedicated student space, and advanced technology integration. Langan provided land-development engineering, utility design, soil erosion and sediment control permitting, geotechnical engineering, traffic engineering, environmental engineering, surveying services, and natural-resources permitting services on this challenging project.

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RUTGERS UNIVERSITY - THE YARD @ COLLEGE AVENUE

Location: New Brunswick, NJ
Client: New Brunswick Development Corporation (DEVCO)
Architect: Elkus Manfredi
Services: Site/Civil, Traffic & Transportation

OVERVIEW

The Yard @ College Avenue is slated to be the new focal point of the Rutgers New Brunswick campus. This 14-story apartment complex will add housing for approximately 450 students. The building's U-shaped design allows for a 25,000 SF public courtyard that is lined with commercial vendors and a shore-style boardwalk. Langan provided site/civil engineering design services including site layout, stormwater management, and utility design. In addition, Langan provided the necessary permitting support.

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RWJ UNIVERSITY HOSPITAL - EAST TOWER

Location: New Brunswick, NJ
Client: RWJBarnabas Health
Architect: NK Architects
Partner: O'Donnell & Naccarato (Structural)
Services: Site/Civil, Geotechnical, Surveying/Geospatial, Traffic & Transportation

OVERVIEW

Langan provided surveying, geotechnical, site/civil, and traffic engineering services for the RWJ East Tower, which includes nine stories of parking with two floors of office space. The project provided the hospital with over 700 additional parking stalls for patients and staff. Langan provided multi-discipline engineering services for the project including 3D laser scanning of the adjacent hospital buildings and a full intersection design for the new garage entrance.

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RWJ UNIVERSITY HOSPITAL - AMBULATORY BUILDING EXPANSION

Location: New Brunswick, NJ
Client: RWJBarnabas Health
Architect: Array Architects
Services: Site/Civil, Traffic & Transportation, Traditional Surveying,
Terrestrial Scanning/BIM

OVERVIEW

Langan is currently providing site/civil, surveying, and traffic engineering services for the Ambulatory Building expansion. The project will include the construction of 8,000 SF of new medical office space and the renovation of 38,000 SF of existing hospital space. In addition, the project will provide site improvements to accommodate new ambulance parking and emergency patient drop-offs.

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RWJ UNIVERSITY HOSPITAL - SOUTH AND CORE BUILDING EXPANSION

Location: New Brunswick, NJ
Client: RWJBarnabas Health
Architect: Array Architects
Services: Site/Civil, Traffic & Transportation, Surveying/Geospatial

OVERVIEW

Langan is currently providing site/civil, surveying, and traffic engineering services for the South and Core Building expansions. The project will add a new floor to the RWJUH Core Building and will horizontally expand the RWJUH South Building. Construction of the project will include the addition of 40,000 square feet of new hospital space and the renovation of 85,000 square feet of existing hospital space. In addition, the project will provide parking for non-emergency ambulances.

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NEW JERSEY NEW YORK CONNECTICUT MASSACHUSETTS PENNSYLVANIA OHIO VIRGINIA FLORIDA TEXAS ARIZONA COLORADO
WASHINGTON CALIFORNIA ATHENS CALGARY DUBAI LONDON PANAMA



HUMC - THE SECOND STREET PAVILION

Location: Hackensack, NJ
Client: Hackensack Meridian Health
Architect: RSC Architects, EYP Architecture & Planning
Services: Site/Civil, Geotechnical, Environmental, Landscape
Architecture, Traffic & Transportation, Surveying/Geospatial

OVERVIEW

Langan is providing land development engineering and environmental services for the new Second Street Pavilion at Hackensack University Medical Center. The new 530,000-SF pavilion would add up to 200 private patient rooms and 24 operating suites to the hospital. The project also includes the construction of a new Central Utility Plant (CUP) and electrical switchgear yard to support the hospital campus. Our team assisted with site improvements associated with the proposed buildings, including a circulation driveway, walkways, retaining walls, utilities, and stormwater management. Langan's survey team provided a full site survey in support of the site design.

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HUMC - EMERGENCY TRAUMA DEPARTMENT EXPANSION

Location: Hackensack, NJ
Client: Hackensack Meridian Health
Architect: Pomarico Design Studio
Partner: Gilbane Building
Services: Surveying/Geospatial, Site/Civil, Geotechnical, Traffic & Transportation

OVERVIEW

The Hackensack University Medical Center (HUMC) is proposing to expand the Emergency Trauma Department (ETD) located at the hospital main campus in Hackensack, NJ. Site improvements associated with the ETD expansion consisted of a new 7,750-SF infill building addition, reconfiguration of the access drives servicing the emergency room ambulance drop-off area, and widening a roadway to provide an ambulance staging area and police / emergency vehicle parking area. Langan coordinated extensively with the project architect and client during the design process. The HUMC timeline was considered a fast track process; since Langan performed several disciplines in house, we were able to expedite the design process.

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MONTCLAIR STATE UNIVERSITY - THE HEIGHTS

Location: Little Falls, NJ
Client: Montclair State University
Architect: Design Collective Architecture (Design)
Partner: Capstone Companies
Services: Geotechnical, Site/Civil, Surveying/Geospatial, Environmental,
Natural Resources & Permitting

OVERVIEW

The first 'Public Private Partnership' enabled by the New Jersey Economic Stimulus Act of 2009, this \$200-million project is privately financed and adds 2,000 new beds and 24,000 SF of dining capacity on Montclair State University's campus. This particular site was a rock quarry and posed many design challenges including steep slopes and shallow rock. Design had to accommodate a very aggressive schedule and budget goals as well as maintaining active utilities and roadways. Langan performed a site-specific shear wave velocity test which allowed the site classification to be upgraded. The result of the upgrade resulted in a 10% saving of the building superstructure cost. This project received LEED Silver certification by the USGBC.

AWARDS

10/2015 LEED Silver Certification by the USGBC

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MONTCLAIR STATE UNIVERSITY - CENTER OF ENVIRONMENTAL AND LIFE SCIENCES

Location: Little Falls, NJ
Client: Montclair State University
Architect: SLAM Collaborative, Inc.
Services: Site/Civil, Natural Resources & Permitting

OVERVIEW

The Center of Environmental and Life Sciences (CELS) Building is a five-story, 107,500 SF building situated in the southeast portion of the Montclair State University Campus. The project involved the demolition of McEachern Hall and relocation of numerous utilities prior to constructing the new building. Langan provided a complex utility coordination and design between the new building and the future campus wide steam and chiller system. There were also numerous utility relocations and utility demolition necessary to install the CELS building. This project received LEED Silver certification by the USGBC.

AWARDS

USGBC NJ - Honorable Mention: Sustainable Schools

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