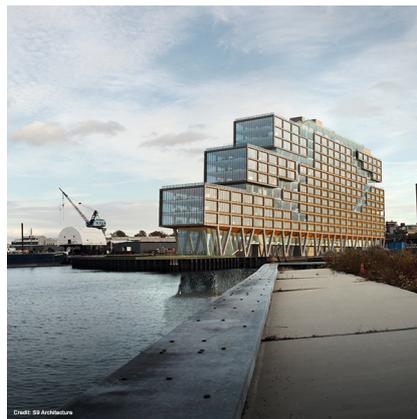


LANGAN QUALIFICATIONS - WRNS STUDIO



Technical Excellence Practical Experience Client Responsiveness

NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO VIRGINIA GEORGIA FLORIDA TEXAS CALIFORNIA ARIZONA WEST VIRGINIA
ABU DHABI DUBAI GREECE LONDON QATAR TURKEY PANAMA

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Technical Excellence Practical Experience Client Responsiveness



COLUMBIA UNIVERSITY MANHATTANVILLE

Location: New York, NY
Client: Columbia University
Architect: Davis Brody Bond
Partner: Lend Lease
Services: Environmental

OVERVIEW

Langan was retained to serve as the lead environmental engineer and consulting firm for the University's 17-acre Manhattanville campus development in West Harlem. The development and expansion is comprised of academic and research facilities, housing for graduate students, faculty, and other employees of Columbia University, as well as retail stores and open space areas.

Technical Excellence Practical Experience Client Responsiveness



FORDHAM UNIVERSITY LAW SCHOOL - UPPER WEST SIDE CAMPUS

Location: New York, NY

Services: Site/Civil, Environmental, Geotechnical

OVERVIEW

The new Fordham University Law School is part of Fordham's 15-year master plan expansion for its Upper West Side campus. A 22-story tower is expected to house up to 430 undergraduate students and the nine-story lower level will house lecture halls, library and conference spaces with the remaining upper stories housing dormitory and mechanical spaces. Langan provided a variety of services and made recommendations for limiting the effects of vibrations and movements of adjacent structures during construction.

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CORNELL TECH - TATA INNOVATION CENTER

Location: Roosevelt Island, NY
Client: Forest City Ratner
Architect: Weiss/Manfredi
Partner: Thornton Tomasetti
Services: Geotechnical

OVERVIEW

Langan provided geotechnical services in support of the construction of a six-story, 430,000-SF building that houses education/research facilities and commercial spaces, which is part of the larger Cornell Tech campus development project on Roosevelt Island. Located south of the Queensboro Bridge, the facility will provide a collaborative environment for students, faculty, and researchers invested in the advancement of cutting-edge digital technologies.

AWARDS

2018 Urban Land Institute New York Excellence in Development Awards, Hotel Development
2019 AIA NY Design Award, Architecture Category

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NEW YORK UNIVERSITY - BIOENGINEERING INSTITUTE CENTER

Location: New York, NY
Client: New York University
Services: Geotechnical, Site/Civil, Environmental

OVERVIEW

Langan provided geotechnical, environmental, site/civil, and permitting services for these new facilities. The project will progress in two phases. Phase I consists of the construction of an eleven-story, 170,000-SF building with a footprint of about 15,650 SF, including two basement levels. Phase II will include an adjacent eight-story building directly south of the Phase I site and will commence in 2016. A key challenge at this site was that the geology was very difficult, with varying bedrock from 20 feet to 65 feet below grade. This required the foundations to consist of a shallow mat foundation for the east half and a deep foundation for the west half of the site.

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THE NEW SCHOOL - UNIVERSITY CENTER

Location: New York, NY
Client: The New School
Architect: SOM (Design Architect), SLCE Architects (Residential Architect)
Partner: The Durst Organization, DeSimone Consulting Engineers
Services: Geotechnical, Site/Civil, Environmental, Surveying/Geospatial

OVERVIEW

Located at 14th Street and 5th Avenue in the Greenwich Village section of Manhattan, The New School expanded its academic and student 'social' spaces with construction of a 16-story educational facility. Development included demolition of the existing building and construction of a 375,000-SF structure with two cellar levels. The building houses seven floors of academic and classroom space, including a large auditorium, and nine floors of efficiency dormitory apartments (totaling 600 beds). Langan's geotechnical staff evaluated the subsurface conditions, developed recommendations and provided analysis for foundation design and construction. Our environmental engineers supervised a field investigation and prepared a Phase II ESA report, while our site/civil engineers developed the site grading, site water, storm drainage and sanitary sewer design for the project.

AWARDS

2017-20178 ULI Global Awards of Excellence

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2014 Chicago Athenaeum Green Good Design Award
LEED Gold Certification

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SUNY STONY BROOK - COMPUTER SCIENCE BUILDING

Location: Stony Brook, NY
Client: State University Construction Fund
Architect: Mitchell | Giurgola Architects
Services: Geotechnical, Site/Civil, Surveying/Geospatial

OVERVIEW

Langan provided multi-discipline services for SUNY Stony Brook's state-of-the-art, LEED Silver-certified Computer Science Building. The 70,000 SF, three-story building houses various academic, research and administrative components for the Department of Computer Science. The high-tech computing facility, which offers an open, modern and comfortable environment, is conducive for face-to-face and virtual collaboration among the faculty, staff, graduate and undergraduate students and visitors.

Technical Excellence Practical Experience Client Responsiveness



WESTCHESTER COMMUNITY COLLEGE - GATEWAY CENTER

Location: Valhalla, NY
Client: Westchester Community College
Services: Site/Civil, Geotechnical, Traditional Surveying

OVERVIEW

Langan provided site/civil and geotechnical engineering services for the new Gateway Center, the first ever LEED Gold certified structure in New York's Westchester County. The 70,000-SF site consists of three new buildings located within 218 wooded acres of Westchester Community College's northeastern quadrant.

AWARDS

New York Construction News: Higher Education/Research - Project of the Year
American Institute of Architects, New York Design Award: Architectural Merit Award

Technical Excellence Practical Experience Client Responsiveness



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.

Technical Excellence Practical Experience Client Responsiveness



RUTGERS UNIVERSITY - BUSINESS SCHOOL

Location: Piscataway, NJ
Client: Rutgers University
Services: Site/Civil, Natural Resources & Permitting

OVERVIEW

This 6-story building, designed to achieve LEED Silver certification, is the gateway feature to the master-planned Livingston Campus. The building provides more than two dozen teaching rooms and a 440-seat, theater-styled auditorium. Langan's stormwater management strategy incorporated several Best Management Practices such as a bioretention basin and a constructed stormwater wetland. Project challenges included the relocation of several active campus utility mains and the incorporation of a geothermal well field into the project's overall green initiative.

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CARNEGIE MELLON UNIVERSITY - DAVID A. TEPPER QUADRANGLE

Location: Pittsburgh, PA
Client: Carnegie Mellon University
Architect: Moore Ruble Yudell Architects & Planners
Services: Site/Civil, Traffic & Transportation, Traditional Surveying

OVERVIEW

In conjunction with the Carnegie Mellon University (CMU) master plan, the university is relocating their Tepper School of Business from the existing 146,350-SF building on Tech Street to a new facility located in the existing North Quad parking lot off Forbes Avenue. This new Tepper School includes a 295,000-SF building on the 4.5-acre quad and approximately 250 new parking spaces. Langan provided site/civil, transportation, and traditional surveying for the project.

Technical Excellence Practical Experience Client Responsiveness



SWARTHMORE COLLEGE - NPPR RESIDENCE HALL

Location: Swarthmore Borough, PA
Client: Swarthmore College
Architect: DIGSAU Architecture
Services: Site/Civil, Geotechnical, Traditional Surveying

OVERVIEW

In order to accommodate a rapidly growing student population, Swarthmore College added a 128-bed residence hall near its Palmer, Pittenger and Roberts residence-hall complex. Langan provided site/civil, survey, and geotechnical engineering services to facilitate designing, permitting, and constructing the new residence hall. The project was designed to minimize environmental impact by following the recommendations established in the college's sustainability framework. To meet the college's sustainability goals, Langan worked closely with the project landscape architect, Studio Bryan Haynes, to design the site to preserve trees, respect the ball fields adjacent to the resident-hall quadrant, provide outdoor space for student enjoyment, provide low-impact stormwater-management features, and conserve energy. Langan's experience with designing and permitting innovative stormwater management on tight urban sites was a key contribution to the success in the design and approval process for this project.

Technical Excellence Practical Experience Client Responsiveness



UNIVERSITY OF PENNSYLVANIA - PERRY WORLD HOUSE

Location: Philadelphia, PA
Client: University of Pennsylvania
Services: Environmental, Site/Civil, Geotechnical, Traffic & Transportation, Natural Resources & Permitting, Traditional Surveying

OVERVIEW

The University of Pennsylvania (UPenn) expanded their Philadelphia campus with the addition of Perry World House, a gathering place for faculty and students from all twelve of UPenn's schools to engage with eminent international scholars and policymakers on pressing global issues of the 21st century. Construction included a partial demolition of the structure and a 7,200-SF addition to the existing historic portion of the building. Now complete, Perry World House includes classrooms, offices, lecture halls, and multipurpose spaces. Site improvements included a plaza, service court, and pedestrian walkways. Langan provided a variety of services on the project, including an environmental assessment, survey, site/civil, geotechnical and transportation engineering, and permitting.

Technical Excellence Practical Experience Client Responsiveness



UNIVERSITY OF CONNECTICUT - INNOVATION PARTNERSHIP BUILDING

Location: Mansfield, CT
Client: University of Connecticut
Architect: Skidmore, Owings & Merrill
Services: Site/Civil, Geotechnical, Landscape Architecture, Traditional Surveying

OVERVIEW

The Innovation Partnership Building will be the first building within UCONN's North Campus technology park. Langan provided survey, geotechnical and civil engineering, and landscape architecture for this 115,000-SF project. Langan's site design minimized the impacts to the primarily wooded lot and reduced the views of parking along the roadway through grading and landscape design. Our stormwater management design implemented a low impact development approach that seeks to protect and minimize disruption to the existing natural resources and environmentally sensitive areas. The project was submitted for LEED Silver certification.

Technical Excellence Practical Experience Client Responsiveness



UNIVERSITY OF CONNECTICUT - SCHOOL OF FINE ARTS

Location: Storrs, CT
Client: University of Connecticut
Architect: H3 Hardy Collaboration Architecture LLC
Services: Site/Civil, Landscape Architecture, Surveying/Geospatial,
Geotechnical, Traffic & Transportation

OVERVIEW

Langan collaborated with H3 Hardy Collaboration Architecture LLC to provide professional site/civil engineering, landscape architecture, and survey services for the implementation of select portions of the Fine Arts Master Plan within UConn's main campus in Storrs, Connecticut. The project transformed the northern 'back' of the theatre arts building with a new scene production shop building designed by H3 Architecture and a gracious, new north entrance to the arts complex and improved access to Von der Mehden Hall. Langan helped transform the grade differential between the building entry and the site into sculptural stairs and a universally accessible ramp. These site features create a counterpoint to the building volume while stretching out into the landscape as sculptural elements that can also serve as an informal amphitheater for impromptu performances.

Technical Excellence Practical Experience Client Responsiveness



DOCK 72 AT BROOKLYN NAVY YARD

Location: New York, NY
Client: Rudin Management, WeWork, Boston Properties
Architect: S9 Architecture, Fogarty Finger, Perkins Eastman
Services: Site/Civil, Geotechnical, Environmental, Surveying/Geospatial

OVERVIEW

Langan provided multi-discipline services during the design and construction of Dock 72 at Brooklyn Navy Yard. The 300-acre site is located between Dry Docks 2 and 3. The 675,000 SF, 16-story building offers office space for technology and start-up companies, with WeWork being the anchor tenant.

Overall improvements included construction of the office building and surrounding site work, utility infrastructure, three adjacent on-site parking lots, and new electrical distribution from the distant Con Edison substation.

AWARD

2017 Public Design Commission, Award for Excellence in Design

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Credit: Visualhouse

HUDSON YARDS REDEVELOPMENT

- Location:** New York, NY
- Client:** Hudson Yards, a Related Oxford Venture
- Architect:** Kohn Pedersen Fox, Skidmore, Owings & Merrill, Diller
Scofidio + Renfro, Ismael Leyva Architects, Rockwell Group
- Partner:** Thornton Tomasetti, WSP
- Services:** Geotechnical, Environmental, Site/Civil, Traffic &
Transportation, Traditional Surveying, Terrestrial
Scanning/BIM

OVERVIEW

This major New York City redevelopment, under the joint guidance of the City, the Metropolitan Transportation Authority, and State of New York initiatives, is in the process of reinventing the Hudson Yards area in midtown Manhattan. Langan has been retained by multiple teams to provide geotechnical, site/civil, environmental, and traffic engineering, seismic design analysis, and surveying services during the pre-design phase of development.

Technical Excellence Practical Experience Client Responsiveness

NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO VIRGINIA GEORGIA FLORIDA TEXAS CALIFORNIA ARIZONA WEST VIRGINIA
ABU DHABI DUBAI GREECE LONDON QATAR TURKEY PANAMA



INTERACTIVECORP (IAC) HEADQUARTERS BUILDING

Location: New York, NY
Client: The Georgetown Company
Architect: Frank Gehry Architect, Adamson Associates
Partner: DeSimone Consulting Engineers
Services: Geotechnical, Site/Civil, Environmental

OVERVIEW

Langan's integrated services helped overcome numerous technical challenges that ultimately transformed a former manufactured gas plant site into an iconic structure on the Hudson River.

AWARDS

2008 American Council of Engineering Companies New York, Engineering Excellence Award, Platinum

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787 ELEVENTH AVENUE

Location: New York, NY
Client: The Georgetown Company
Architect: Rafael Viñoly Architects
Partner: Cauldwell Wingate Company, Robert Silman Associates, Icor Associates
Services: Geotechnical, Site/Civil, Environmental

OVERVIEW

Langan is providing multi-discipline engineering services during the renovation of an eight-story, 464,000-SF commercial building located on Manhattan's 'Automobile Row.' The project includes a two-story addition and complete renovation of the existing space, which currently houses Jaguar Land Rover, Infiniti, and Nissan dealerships. Once complete, the building will include over-sized windows, open-concept floorplans, 24-foot ceilings, and a 12,000-SF communal roof deck. Langan's scope of work includes hazmat services, a Phase I Environmental Site Assessment, subsurface investigation, and support of excavation design for the new elevator pit and Con Edison transformer vaults. Langan also obtained permits from various public agencies, including New York City (NYC) Department of Parks and Recreation for street tree plantings; NYC Department of Environmental Protection for sewer connections; NYC Department of Transportation for the Con Edison vaults; and NYC Department of Buildings for sidewalk reconstruction.

Technical Excellence Practical Experience Client Responsiveness



7 BRYANT PARK

Location: New York, NY
Client: Hines with Pacolet Milliken Enterprises
Architect: Pei Cobb Freed & Partners Architects
Partner: Thornton Tomasetti
Services: Environmental, Geotechnical, Site/Civil

OVERVIEW

Occupying the southwest corner across from Bryant Park, this office building contains 474,000 GSF of rentable space over 28 stories, 15 of which are leased by Bank of China. Active New York City Transit Authority (NYCT) tunnels for the B, D, F, and V subway lines run beneath Sixth Avenue, within 200 feet east of the property.

Langan's environmental engineers performed environmental due diligence, including Phase I and II site assessments, and coordinated the closure of a New York State Department of Environmental Conservation spill case. Our geotechnical engineers oversaw demolition approvals and participated in several meetings with the project team to develop the project strategy.

AWARDS

2019 SARA NY Design Awards

2017 International Design Awards, Architectural Design/New Commercial Building: Bronze

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