

## WEB TOUR FOR URBAN GREEN PARTNERS

Langan provides an integrated mix of engineering and environmental consulting services in support of land development projects, corporate real estate portfolios, and the energy industry. Our clients include developers, property owners, public agencies, corporations, institutions, and energy companies around the world.

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## P.S. 62 - NET ZERO ENERGY SCHOOL

- Location: Staten Island, NY
- Client: New York City School Construction Authority (NYCSCA)
- Architect: Skidmore, Owings & Merrill LLP
- Services: Geotechnical, Site/Civil

### OVERVIEW

P.S. 62 The Kathleen Grimm School for Leadership and Sustainability is the first net-zero energy school in New York City and one of the first of its kind worldwide. The school will harvest as much energy from renewable on-site sources as it uses on an annual basis. This 68,000-SF, two-story courtyard-shaped building takes advantage of sunlight for both daylighting and photovoltaic arrays on the roof and south façade. Langan performed a geotechnical subsurface investigation program and geotechnical engineering design work for the design team. Langan's extensive knowledge of Staten Island's subsurface conditions provided valuable input to the design team for designing structures and pavements on poor drainage material.

### AWARDS

- 2017 ULI Awards for Excellence in Development: Institutional Development Finalist
- 2016 ENR New York Best Projects Awards: Green Project
- 2016 ENR New York Best Projects Awards: K-12 Education
- 2016 Winner Architizer A+ Award, Jury and Popular Choice Awards

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## SOLAR BAY

Location: Wildwood, NJ  
Client: City of Wildwood  
Services: Environmental, Site/Civil, Geotechnical, Landscape  
Architecture, Traditional Surveying

### OVERVIEW

Langan was a consultant to the City of Wildwood for a new, 25-acre solar farm on a former landfill site on the bay at Post Creek Basin. The solar farm will produce 3-megawatts of electricity for the city and will be developed following the capping and final closure of the open landfill site. The master plan includes 25-acres of new parkland, passive open space, recreational boating facilities along with recreational and fitness trails.

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## NJ MEADOWLANDS COMMISSION 1-A LANDFILL SOLAR ARRAY

**Location:** Kearny, NJ  
**Client:** SunDurance Energy (Subsequently purchased by PSE&G for Solar 4 All Program)  
**Services:** Site/Civil, Geotechnical, Environmental, Natural Resources & Permitting

### OVERVIEW

The solar array will be constructed on the top of the landfill and down the southern slope of the New Jersey Meadowlands Commission (NJMC) 1-A Landfill, with an intertie connection to the regional electrical distribution located off the site. The solar array is expected to provide over 3 MWdc of electric solar power annually. Langan has been retained by SunDurance to assist in a variety of design, permitting, and construction needs.

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## SCIENCE PARK HIGH SCHOOL

Location: Newark, NJ  
Client: New Jersey Schools Construction Corporation  
Services: Geotechnical, Site/Civil, Environmental, Landscape  
Architecture, Traditional Surveying

### OVERVIEW

The proposed high school is being developed on a project site consisting of two full city blocks. Design of the project consists of a new 225,700-GSF magnet school facility providing state-of-the-art educational instruction to serve up to 1,200 science and technology students. The building features an indoor pool, roof mounted-solar panels, and an HVAC system served by a geothermal well field. Additional site development includes sports fields, plaza/sitting areas, and on-site parking facilities. Langan is providing comprehensive land surveying, engineering, and landscape architectural design services for the project.

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## COLUMBIA UNIVERSITY - KNOX HALL GEOTHERMAL DESIGN

Location: New York, NY  
Client: Columbia University  
Architect: Helpert Architects  
Services: Geotechnical

### OVERVIEW

A geothermal heating and cooling system consisting of four 1,800-foot-deep standing column wells was selected for a 90-ton heating and cooling system in connection with renovations and improvements to Columbia University's Knox Hall.

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## HOPE VI - MILLER HOMES RESIDENTIAL REDEVELOPMENT

Location: Trenton, NJ  
Client: Pennrose Properties, Inc.  
Architect: Kitchen & Associates  
Services: Site/Civil, Geotechnical, Environmental, Surveying/Geospatial,  
Landscape Architecture, Natural Resources & Permitting,  
Demolition

### OVERVIEW

Langan provided a coordinated in-house multi-discipline approach of services to support this 9.4-acre Hope VI residential redevelopment which includes 182 affordable housing units (rentals), a 4,500 SF community building, open space and site amenities. This redevelopment provides Trenton with the opportunity to demolish an existing blighted and abandoned residential apartment tower complex and provides a new pedestrian- friendly townhouse neighborhood design.

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## HOPE VI REDEVELOPMENT - KING'S COURT AT FREEDOM VILLAGE

Location: Paterson, NJ  
 Client: Pennrose Properties, Inc.  
 Architect: Wallace Roberts & Todd, LLC (WRT)  
 Services: Site/Civil, Geotechnical, Environmental, Landscape  
 Architecture, Traffic & Transportation, Demolition

### OVERVIEW

King's Court is a redevelopment of the properties on the site formerly known as the Apollo Dye Factory. The properties were subject to site remediation, which had to be coordinated with the proposed 4-story, 78,000 ± SF senior housing residential building (consisting of 70 one-bedroom units), access drives, and associated parking facilities. The redevelopment was included as part of the HOPE VI Revitalization grant in cooperation with the Paterson Housing Authority. The King's Court at Freedom Village will be a LEED-Certified building. Langan provided a full range of services for the design and permitting, which included obtaining local, county, and state approvals for Pennrose, as well as assisted the developer in obtaining federal and state funding and tax abatements.

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## HOPE VI REDEVELOPMENT - SPRUCE GARDENS & IRVINE TURNER

Location: Newark, NJ  
Client: Roizman Companies  
Services: Site/Civil, Environmental, Geotechnical, Surveying/Geospatial,  
Landscape Architecture

### OVERVIEW

Langan provided site/civil, geotechnical, environmental, traffic engineering, landscape architecture, lighting design and surveying services for this 11.4-acre Hope VI urban redevelopment in Newark's Central Ward. This residential development included 100 rental units and 25 home ownership units as part of the Newark Housing Authority's 750-unit redevelopment at the Central Ward. The project also included a 12,360-SF Community Center building. Langan was also instrumental in obtaining local and state approvals for this new development and assisted the developer in obtaining federal and state funding and tax abatements.

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## 19 NINETEEN CLARENDON BOULEVARD

Location: Arlington, VA  
Client: Harkins Builders  
Services: Environmental

### OVERVIEW

Langan was retained to oversee and supervise the removal of two unknown underground fuel oil storage tanks during site development. A characterization investigation followed and a total of 1,373.59-tons of petroleum-contaminated soils were excavated from the site and transported off-site for disposal. Langan is also conducting the monthly testing and monitoring of the on-site dewatering system that was installed after the site investigation.

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## TURNBERRY TOWER

Location: Arlington, VA  
Client: Turnberry Associates  
Architect: BBGM  
Partner: SK&A Structural Engineers  
Services: Geotechnical, Environmental

### OVERVIEW

Turnberry Tower is a 25-story, 247-unit, high-end luxury condominium. The building soars nearly 400 feet above the Potomac River, and is the tallest condo building in the Washington, DC metropolitan region. The 920,000 SF, \$250 million project also includes a six-level below grade parking garage. Langan provided geotechnical and environmental services for the project.

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## WEST HEATING PLANT

Location: Washington, DC  
Client: The Georgetown Company  
Architect: Adjaye Associates  
Services: Site/Civil, Environmental

### OVERVIEW

The proposed redevelopment of this World War II-era former coal heating plant into a Four Seasons Residences in Georgetown, is both historically and environmentally sensitive. This site was purchased from the General Services Administration as part of the government's effort to minimize the federal footprint by selling unused property. Langan provided preliminary site/civil and geotechnical services and reviewed existing historic documentation for the property. We also conducted several environmental investigations, including mercury and PCB monitoring, lead paint abatement, and asbestos testing.

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## STATION HOUSE

Location: Washington, DC  
Client: Fisher Brothers  
Architect: Hickok Cole Architects, Handel Architects  
Partner: Plaza Construction  
Services: Geotechnical, Environmental

### OVERVIEW

Langan provided geotechnical and environmental engineering services for the Capitol Place mixed-use development project. The project included the construction of 375 residential units, 20,000 SF of retail space, two levels of below-grade parking, and an interior courtyard with garden and eco-pond areas. Located near Union Station, the project demonstrates transit-oriented green development and pedestrian improvements.

### AWARDS

LEED Gold Certification

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## NORTHXNORTHWEST

Location: Philadelphia, PA  
Client: Forest City Residential  
Services: Geotechnical, Traffic & Transportation, Environmental,  
Traditional Surveying

### OVERVIEW

Langan provided geotechnical, traffic and environmental engineering, survey and construction oversight services for the development of this new, 16-story apartment building with 270 units - a 434,000 SF expansion to the existing Museum Towers apartment building located in the Logan Square neighborhood of Philadelphia. The new construction also included a four level parking garage and two rows of townhome structures in addition to improvements to the neighboring Matthais Baldwin Park and signalization upgrades at the two intersections along Spring Garden Street.

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## RIVERWALK TOWERS

Location: Philadelphia, PA  
 Client: PMC Property Group  
 Architect: Gensler  
 Services: Site/Civil, Geotechnical, Traffic & Transportation,  
 Surveying/Geospatial, Landscape Architecture

### OVERVIEW

Located along the Schuylkill River, the Riverwalk Towers are two separate mixed-use that will include residential and retail space, along with a landscaped plaza and on-site parking. The 3.5-acre site had several constraints that needed to be considered with the design, including its location in the 100-year floodplain area of the FEMA map, active CSX rail lines along the western boundary, an overhead Septa bridge crossing through the parcel, and a PWD easement for an existing brick overflow sewer. Langan provided multiple services including survey, site/civil engineering, geotechnical engineering, traffic and transportation engineering, and permitting for the redevelopment.

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## WALNUT RIDGE

Location: Lower Southampton, PA  
Client: County Builders, Inc.  
Services: Site/Civil, Natural Resources & Permitting,  
Surveying/Geospatial, Landscape Architecture

### OVERVIEW

Langan provided full service engineering design and permitting for Walnut Ridge, a 92-unit townhouse development located in Lower Southampton Township, Bucks County, Pennsylvania. The 20-acre site is located on a hillside with a significant change in topography of over 90 vertical feet. Design elements included stormwater conveyance and utility infrastructure for the proposed roadways, naturalized landscape design and buffering, and roadway widening along a Pennsylvania State highway. Wetlands permitting issues involved individual permitting and mitigation design for wetland disturbances over 100 linear feet.

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## AMBLER BOILER HOUSE

Location:        Ambler, PA  
 Client:           Summit Realty Advisors, LLC  
 Services:        Site/Civil, Traditional Surveying, Landscape Architecture

### OVERVIEW

The towering smoke stack of the Boiler House has become an icon to the residents of Ambler Borough and to passengers traveling on the adjacent R-5 rail line. When completed, the Boiler House will contain 36,000 SF of exclusive office space, strategically located adjacent to the R-5 line. An extension of the passenger platform at Ambler Station will provide easy access to Center City Philadelphia and the surrounding area. Langan's site design focused on highlighting the industrial heritage of the site, while addressing some of the more serious contamination issues. The plan incorporated landscape elements and plant material consistent with an industrial site which still provided a level of finish appropriate for corporate offices.

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