

GEOTECHNICAL ENGINEERING IN NJ

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## ROBERT WOOD JOHNSON UNIVERSITY HOSPITAL EXPANSION

Location: New Brunswick, NJ  
Client: RWJBarnabas Health  
Architect: Rothe-Johnson Associates (now Fletcher Thompson)  
Partner: O'Donnell & Naccarato  
Services: Geotechnical

### OVERVIEW

Langan was retained to provide geotechnical engineering services for both the Oncology and Children's Hospital buildings, which were part of the Robert Wood Johnson's ongoing expansion. These two additions were built simultaneously adjoining different wings of the existing hospital complex.

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## ONE JOURNAL SQUARE

Location: Jersey City, NJ  
Client: Kushner Companies  
Architect: Woods Bagot  
Services: Geotechnical, Site/Civil, Traffic & Transportation,  
Surveying/Geospatial

### OVERVIEW

Langan is providing geotechnical, site/civil, and traffic engineering, planning, and surveying services for a proposed mixed-use development in the Journal Square section of Jersey City. The development will consist of two high-rise towers measuring 46 and 69 stories over a 10-floor podium and will include 1,725 residential apartments, approximately 89,000 SF of retail, 127,000 SF of office space, and 78,000 SF of amenities space. The development is adjacent to the Journal Square PATH Station.

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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 is providing geotechnical, civil, environmental, traffic, and landscape architecture services to this France-based biotechnology and pharmaceutical company. The first phase of the project consists 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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## MONROE CENTER

Location: Hoboken, NJ  
Client: Bijou Properties, Intercontinental Development, Inc.  
Architect: Marchetto Higgins Stieve Architects  
Services: Geotechnical, Site/Civil, Environmental, Natural Resources & Permitting, Surveying/Geospatial

### OVERVIEW

Langan is part of a design and construction team completing the investigation, demolition, remediation and design of a two-city block redevelopment in northwest Hoboken.

The project's site design includes three residential high-rise towers (424 units) atop a pedestal comprised of commercial and retail space as well as an open air parking deck incorporated into the rear of the building. The project also includes the design and construction of two public parks and a multi-use community center/gymnasium that will be deeded to the City at the completion of their construction.

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## HUDSON GREENE (77 HUDSON STREET)

Location: Jersey City, NJ  
Client: K. Hovnanian Companies, Equity Residential Properties  
Architect: CetraRuddy  
Services: Geotechnical, Site/Civil, Environmental, Traffic & Transportation, Landscape Architecture

### OVERVIEW

Langan provided a full range of design and engineering services for the construction of two 48-story residential towers at the core of Jersey City's Colgate Waterfront Redevelopment Area. This joint venture development features retail space, 900 luxury residential units, and a rooftop garden on top of a 10-story parking deck.

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## BAY HEAD YACHT CLUB

Location: Bay Head, NJ  
Client: Bay Head Yacht Club  
Partner: SBI Consultants, Robert Silman Associates  
Services: Geotechnical, Natural Resources & Permitting

### OVERVIEW

The clubhouse's first floor was flooded by recent large storms, including Super Storm Sandy in 2012, and deteriorated piles could no longer be maintained. Renovations included demolition and rebuilding of the eastern portion of the yacht club, installation of new piles, raising the clubhouse approximately 10 feet to minimize future flooding, and replacing both the existing bulkhead on the north side of the building and the wrap-around deck. Langan's engineering services included geotechnical/marine bulkhead investigations, flood load analysis and geotechnical subsurface investigations, and foundation recommendations. Our permitting services included a pre-application meeting and submittal of a Coastal Jurisdictional Determination with the NJ Department of Environmental Protection (NJDEP).

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## HUDSON EXCHANGE WEST

Location:	Jersey City, NJ
Client:	Forest City Enterprises
Architect:	Perkins Eastman
Partner:	WSP (Phase 1A), McNamara Salvia Structural Engineers (Phase 1B)
Services:	Geotechnical

### OVERVIEW

Hudson Exchange West is an 18-acre neighborhood development project that will introduce new residential buildings, outdoor park areas, transportation access, and retail amenities to the downtown waterfront community of Jersey City.

Langan is providing geotechnical engineering services during the design development and construction development phases. Our scope of work includes a site specific seismic study, site coordination, subsurface investigation, geotechnical engineering report, and construction controlled inspections for the deep foundation installation and load tests.

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## REALOGY HEADQUARTERS - 175 PARK AVENUE

Location: Madison, NJ  
Client: The Hampshire Companies  
Architect: Kohn Pedersen Fox  
Services: Site/Civil, Geotechnical, Traffic & Transportation

### OVERVIEW

Hampshire Companies undertook the redevelopment of a 15-acre site, which formerly housed a Verizon call center, to create a new 270,000-SF office building. The site is the new headquarters for Realogy Holdings Corp., the global parent company of such leading real estate brands as Century 21, ERA, Coldwell Banker, Sotheby's International Realty, and Better Homes and Gardens Real Estate. Langan provided a full array of geotechnical and design services from due diligence through design and regulatory permitting and construction, including a variety of sustainable design elements. The building has been awarded LEED Silver certification.

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