

## PROJECT SPOTLIGHT TOUR: LANGAN LEADER, OCTOBER 2017



Technical Excellence. Practical Experience. Client Responsiveness.

Learn more about Langan's involvement in our featured projects.

North Haven Senior Living - North Haven, CT

ARO - 242 West 53rd Street - New York, NY

Memorial Stadium - Indiana Hoosiers Traffic Management - Bloomington, IN

WMATA Dulles Rail Yard and Maintenance Facility - Sterling, VA

Lopetra Lakefill Development - Medley, FL

Rutgers University - Nursing and Science Building - Camden, NJ

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Credit: Lenity Architecture

## NORTH HAVEN SENIOR LIVING

Location: North Haven, CT  
Client: Lenity Architecture  
Services: Site/Civil, Geotechnical, Environmental, Surveying/Geospatial,  
Traffic & Transportation, Landscape Architecture,

### OVERVIEW

Langan is providing multiple engineering and environmental services for the proposed two-story 90,000-SF senior living facility and site improvements. Langan performed a geotechnical exploration consisting of SPT borings and provided a geotechnical engineering study outlining recommendations for design and construction. We are also providing civil engineering services such as site, grading, drainage, and utility design, as well as a boundary and topographic survey of the project area to use as a base map for improvements.

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## ARO - 242 WEST 53RD STREET

Location: New York, NY  
Client: Algin Management  
Architect: CetraRuddy Architecture  
Partner: Tectonic  
Services: Site/Civil, Geotechnical, Surveying/Geospatial, Environmental,

### OVERVIEW

242 West 53rd Street is a 60-story residential tower with two cellar levels in Manhattan's Theater District. Langan is providing geotechnical, site/civil and environmental engineering services throughout the project and completed a topographic survey for the property. Langan is also providing special inspection services for geotechnical and environmental aspects during construction. We provided oversight for soils handling and disposal of contaminated soils and assisted in securing closure for environmental cleanup efforts.

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## MEMORIAL STADIUM - INDIANA HOOSIERS TRAFFIC MANAGEMENT

Location: Bloomington, IN  
Client: Indiana University  
Services: Traffic & Transportation,

### OVERVIEW

The Langan traffic and parking engineering team provided Indiana University with transportation event management services. Our team reviewed the existing Transportation Master Plan, operation plan, signal plans, and other applicable traffic and parking information to understand the current plan and operations climate of the University's football stadium. Observations were then conducted for two Hoosiers home football game days during the regular season to evaluate traffic and pedestrian operations and to develop recommendations for improvements moving forward.

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## WMATA DULLES RAIL YARD & MAINTENANCE FACILITY

Location: Sterling, VA  
Client: Washington Metropolitan Area Transit Authority (WMATA),  
Metropolitan Washington Airports Authority (MWAA)  
Architect: Giuliani Associates Architects, Inc.  
Partner: Hensel Phelps Construction  
Services: Geotechnical, Environmental,

### OVERVIEW

Langan provided geotechnical engineering services for the design-build of Dulles Rail Yard and Maintenance Facility. This 71-acre site consists of a service and inspection building, warehouse, maintenance of way building, transportation and police building, and train wash building. The site also includes a rail and train layup yard, ancillary structures, employee parking lots, stormwater management facilities, and a network of roadways. Langan's extensive subsurface investigation consisted of borings with rock coring, temporary groundwater level observation wells, test pits, infiltration tests, seismic refraction surveys, and specialty laboratory testing. Additionally, during the subsurface investigation, Langan provided environmental soil screening services.

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## LOPEFRA LAKEFILL REDEVELOPMENT

Location: Medley, FL

Client: Lopefra Corp., Butters Construction and Development, Inc.

Services: Environmental, Site/Civil,

### OVERVIEW

Langan is providing environmental and site/civil engineering services for the redevelopment of the Lopefra Lakefill, an approximate 90-acre former limerock quarry that is under contract to be sold and developed into warehouses. In early 2016, the Miami-Dade County DERM suspended the site's Solid Waste Annual Operating Permit due to groundwater contamination in areas that were filled. Langan is delineating the groundwater contamination and evaluating strategies to manage the accumulated on-site soil and concrete debris. Langan is also developing alternative remedial strategies to fill 44 acres of the lake. Langan is providing site civil engineering design services for the proposed development and has completed a subregional stormwater analysis to maximize the area of the lake that can be filled, while maintaining sufficient stormwater capacity to obtain permit approval of the project.

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## RUTGERS UNIVERSITY - NURSING & SCIENCE BUILDING

Location: Camden, NJ  
Client: H2L2, a Nelson Company  
Architect: Perkins Eastman  
Services: Site/Civil, Geotechnical, Traditional Surveying,

### OVERVIEW

Langan is providing engineering services for this world-class teaching and research facility located on the university's satellite Camden Campus. The new 100,000-SF building will include classrooms and lecture halls, conference rooms, and space for administrative faculty. Langan is providing site/civil engineering, geotechnical engineering, and surveying services on the project. We performed a geotechnical subsurface investigation for the proposed new school building in order to obtain subsurface data necessary to develop foundation, earthwork, and site and subgrade preparation recommendations. Langan's site/civil engineers have coordinated our design work with the project team and Rutgers University to finalize the site grading and finished floor elevations.

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