With more than 2,000 professionals and 50 offices nationwide, we offer services in engineering, architecture, program management, planning, surveying and mapping, GIS, and the environmental sciences. We work collaboratively with public-and private-sector clients to improve infrastructure and communities.

**Dulles Corridor Metrorail (Silver Line) Phases 1 and 2**
This project extends the new rapid rail system 23.1 miles with 11 new stations and a new service and inspection yard. We are providing site, mechanical, electrical, plumbing, and structural engineering; architecture; hydrologic and hydraulic; environmental; right-of-way coordination; utility services; and construction inspection.

**Trenton Station**
We provided structural, geotechnical, and civil engineering for the renovation of Trenton Station, an intermodal transportation hub serviced by NJ TRANSIT, AMTRAK, SEPTA, and bus lines. Located in a cut/historic stream bed at the base of a 20-foot-tall retaining wall, the station building is a street level above. A pedestrian concourse and overpass allow access to the tracks and platform below.

**Surveying Services Task Order Contract - Zone 5**
We served as an extension of Amtrak's Survey Division survey crews, providing professional and land surveying for existing conditions surveys, boundary/ROW, fee and easement route, top of rail profiles, track centerline to centerline measurements, cross-sections, topographic surveys, foundation surveys, and floodplain and stream boundaries.

**Newark Penn Station Platform Circulation Study**
As a subconsultant, we contributed to the analysis and development of vertical circulation and station configuration improvements. The project will reduce passenger flow congestion and conflicts, improve the efficiency of existing station concourses and platforms for passengers and train operations, and upgrade passenger convenience.

**Flushing Main Street Station ADA Improvements**
We designed improvements including two passenger elevators, a new machine room, stairs, upgraded electrical service, handrails, platform lighting, cast-in-place concrete platform extensions, tactile warning strips, signage, and overall ADA upgrades.

**Track and Systems Installation for the New Second Track on the Main Line Ronkonkoma Branch Phase II**
We were lead designer on this combination design-bid-build/design-build project for the addition of a second track on the Ronkonkoma Branch for the Phase II project limits.
Flood Mitigation and Resiliency at Six Locations
As a subconsultant, we prepared a feasibility study for near- and long-term solutions to mitigate flooding of six Lower Manhattan stations in flood-prone areas for Category 2 hurricane storm surges. A total of 330 street level openings were identified, consisting of sidewalk vents, stairway entrances, access and emergency hatches, and manholes.

Bridge Inspection Contracts
Under separate contracts since 1996, we have conducted inspection, rating analysis, and reporting on numerous fixed and moveable bridges throughout NJ TRANSIT’s system. Bridge types include concrete slabs and boxes, steel deck and thru-griders, and concrete and brick arches.

Stations, Access, Parking, and Site Planning Task Order
We hold a contract to plan potential access and facility expansions and upgrades throughout the system, on a task order basis.

68th Street Subway Station Improvements
As part of a joint venture, we designed improvements to the station to address the ADA access, congestion due to inadequate vertical access, and pedestrian flow crowding issues. Our services included development of functional requirements, conceptual design, construction drawings and specifications, value engineering participation, cost estimating, and procurement phase services.

Systemwide Bridge Inspection and Rating
We performed bridge inspections and load ratings on 43 rail bridges on the Fitchburg Line, Franklin Line, and West Route branches of the MBTA commuter rail system, and eight bridges on the Red and Blue Lines. Bridge load ratings cover a wide range of structure types, including steel thru-grider and deck griders, and precast, prestressed concrete box beam structures.

PATH Consolidated Maintenance Facility
We provided civil and structural engineering services for a new facility designed to house various shops, support spaces, and a loading dock. Sitework included access roads and track relocations (both PATH and Conrail), utility modifications, a parking lot, and architectural landscaping. The building was constructed in an active railroad yard that remained fully operational during construction.
RAIL & TRANSIT

New Jersey and New York

Hudson River Tunnels Environmental Impact Statement (EIS)
We were part of the team that prepared an EIS for a new Hudson River Tunnel and rehabilitation of the existing tunnel. We prepared chapters on environmental justice populations, visual impacts, land use, public open space, contaminated materials, soils and geology, utilities, safety and security, and transportation and mobility impacts.

New Jersey, New York, and Pennsylvania

Environmental Services Task Order Contracts
We hold a fourth consecutive contract to provide environmental services. The contract covers services in the categories of site investigation and remediation; environmental permitting; and National Environmental Policy Act environmental analysis, planning, and documentation. We have responded to more than 60 tasks to date.

Los Angeles, CA

Sustainability Engineering Services Term Contract
As a major sunconsultant, our work addressed greenhouse gas emissions; air quality; climate change resiliency, vulnerability, and adaptation. Activities include preparation of design and construction documents and specifications, analyses, studies, surveys, investigations, modeling predictions, and reports related to operation and maintenance.

Tulsa, OK

Port of Catoosa On-Call Contract
We supported the port for more than 40 years on projects providing planning, design, environmental analysis, site remediation, program management, and construction management. Projects include rail spurs, rail hoppers, security upgrades, barge fleeting facilities, water/wastewater systems, and building architecture and engineering.

Rocky Mount, NC

Transportation Master Plan
We worked with CSX to develop a strategic plan, including transportation and freight planning, for its new facility in Rocky Mount. The plan focuses on adjacent areas to the CSX site and the transportation connections between the site and other potential freight nodes in North Carolina and surrounding states. The strategic master plan identified specific infrastructure investments needed for its success.

Systemwide

Engineering and Design Services MSA
We support Norfolk Southern with engineering, environmental permitting, and surveying services. Tasks include survey and mapping, environmental services, permitting, drainage design, track design, structural engineering, and site/civil engineering, as well as sustainability and resilience consulting.