

Rail & Transit



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.

Representative Clients

- Amtrak
- New York Metropolitan Transportation Authority, including the Long Island Rail Road, Metro-North Railroad and New York City Transit
- NJ TRANSIT
- Port Authority of New York and New Jersey (PANYNJ)
- Massachusetts Bay Transportation Authority (MBTA)
- Metropolitan Atlanta Rapid Transit Authority
- Washington Metropolitan Area Transit Authority (WMATA)
- Los Angeles County Metropolitan Transportation Authority (LA Metro)
- Norfolk Southern Corporation
- Conrail
- CSX Transportation
- Departments of transportation throughout the U.S.

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Dulles Corridor Metrorail (Silver Line) Phases I and 2 | Fairfax and Loudoun Counties, VA

Owner: WMATA

Cost of work: \$5.7 billion project cost

Description: 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 | Trenton, NJ

Owner: NJ TRANSIT

Cost of work: \$79 million project cost

Description: 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 at street level above. A pedestrian concourse and overpass allow access to the tracks and platforms below.



Surveying Services Task Order Contract – Zone 5 | Poughkeepsie, NY to Schenectady, NY

Owner: Amtrak

Cost of work: \$100,000 professional services fee to date

Description: We serve as an extension of Amtrak's Survey Division survey crews, providing professional 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 | Newark, NJ

Owner: NJ TRANSIT

Cost of work: To be determined

Description: 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 | Queens, NY

Owner: MTA Long Island Rail Road

Cost of work: \$10 million project cost

Description: We designed improvements including two passenger elevators, ticket office improvements, 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 | Ronkonkoma, NY

Owner: MTA Long Island Rail Road

Cost of work: \$66 million project cost

Description: We are 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 (Farmingdale Station to approximately one mile west of Central Islip Station).



Services

- Building engineering
- Bridge/structural engineering
- Constructability and value engineering
- Construction engineering and inspection
- Emergency management
- Environmental services
- Geotechnical engineering
- Hydraulics/stormwater management
- Intelligent Transportation Systems (ITS)
- Lighting design
- Resilience planning and engineering
- Site/civil engineering
- Surveying and mapping
- Sustainable design
- Traffic engineering
- Transit/transportation planning



Flood Mitigation & Resiliency at Six Locations | Manhattan, NY

Owner: MTA New York City Transit

Cost of work: \$625,000 professional services fee for feasibility study

Description: 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.

Stations, Access, Parking and Site Planning Task Order Contract | NJ, NY, PA

Owner: NJ TRANSIT

Cost of work: \$2 million professional services fee

Description: We were awarded a contract to plan potential access and facility expansions and upgrades throughout the system, on a task order basis.

68th Street Subway Station Improvements | Manhattan, NY

Owner: MTA New York City Transit

Cost of work: \$63 million project cost

Description: As part of a joint venture, we designed improvements to the station to address 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.

Bridge Inspection Contracts | NJ

Owner: NJ TRANSIT

Cost of work: Approximately \$750,000 professional services fee per contract

Description: 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-girders, and concrete and brick arches.

Systemwide Bridge Inspection and Rating | Boston, MA

Owner: MBTA

Cost of work: \$1 million professional services fee

Description: 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-girder and deck girders, and precast, prestressed concrete box beam structures.

PATH Consolidated Maintenance Facility | Jersey City, NJ

Owner: PANYNJ

Cost of work: \$12 million project cost

Description: 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.



2018 ENR Rankings

- #42 Design Firms
- #22 'Pure' Designers
- #33 General Building
- #31 Transportation



Hudson River Tunnels Environmental Impact Statement (EIS) | NJ, NY

Owner: NJ TRANSIT

Cost of work: \$12.9 billion estimated project cost

Description: We are part of the team preparing 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.



Environmental Services Task Order Contracts | NJ, NY, PA

Owner: NJ TRANSIT

Cost of work: \$5 million professional services fee (current contract)

Description: 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.



Sustainability Engineering Services Term Contract | Los Angeles, CA

Owner: LA Metro

Cost of work: Varies by task; \$6 million professional services fee (Prime)

Description: As a major subconsultant, our work addresses 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.



Port of Catoosa On-Call Contract | Tulsa, OK

Owner: Port of Catoosa

Cost of work: Varies by task

Description: We have 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 fleetting facilities, water/wastewater systems, and building architecture and engineering.



Transportation Master Plan | Rocky Mount, NC

Owner: North Carolina Department of Transportation

Cost of work: \$462,000 professional services fee

Description: We are working 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 will identify specific infrastructure investments needed for its success.



Engineering and Design Services MSA | Systemwide

Owner: Norfolk Southern

Cost of work: Varies by task

Description: We have supported 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.