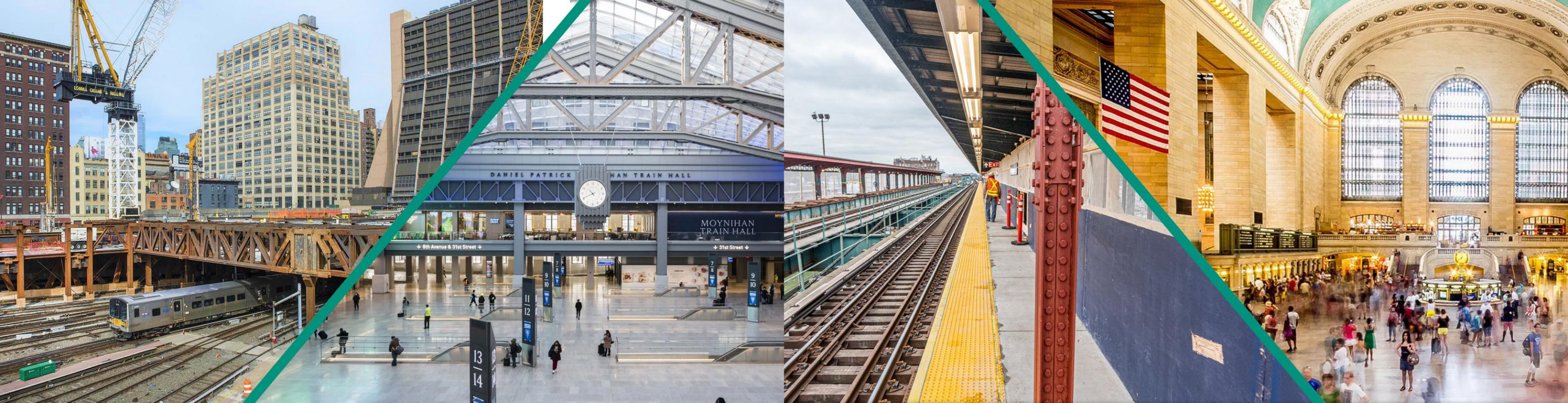




# Tectonic

 RAIL & TRANSIT DIVISION

## SERVICES AND QUALIFICATIONS



# RAIL & TRANSIT SERVICES OVERVIEW

# REPRESENTATIVE CLIENTS

Tectonic provides multidisciplinary management, inspection, engineering, and technical services that enable our rail & transit clients to succeed across a wide range of capital program goals. Our core services provided on rail & transit projects includes:

- ▶ *Project / Construction Management*
- ▶ *Engineering & Design*
- ▶ *Construction Support*
- ▶ *Special Inspection & Materials Testing*
- ▶ *Surveying*
- ▶ *Rail Operations Coordination*

We integrate these services to accomplish our client's project goals. Tectonic offers a streamlined management program (including top supervisory skills and tailored quality assurance measures), state-of-the-art resources and diverse expertise.

Our rail and transit subject matter experts are equipped with the field experience and collective knowledge to support any phase of a project's life cycle. This includes planning, pre-construction and mobilization, through execution of construction and final project closeout. We are also experienced in managing the execution of several different delivery methods, including Design-Build, P3, Best Value / A+B, and more.

Tectonic's experience and success with State and City agency contracts show that the company has been able to strike a good balance and deliver value to our clients. Our overall management approach and leadership will bring forth the necessary skills and abilities to execute any engineering, design, or construction program assignment in the rail & transit arena. Tectonic's management team creates an environment that values quality and safety while also stressing the need for proactive involvement and a thoughtful approach to the challenges of delivering a successful project or program.

Tectonic has been both a prime and sub PM/CM consultant on rail construction projects, including infrastructure state-of-good-repair programs, bridge and viaduct construction, elevator and escalator installations, station renewals and reconstruction, utility upgrades, and more. We have also provided engineering design, environmental compliance, quality assurance, surveying, special inspection, code compliance, facility commissioning, and material testing services on a myriad of rail projects in the NYC area. The division is lead by seasoned rail transit engineering and management professionals, who have successfully executed past track, bridge, drainage, structural, civil, yard, facilities, stations, vertical transportation / ADA, signal, power, and communications projects, with a fierce focus on scope, schedule, budget, safety, and quality management.

## PUBLIC

- ▶ *Metropolitan Transportation Authority (MTA)*
- ▶ *MTA Construction & Development*
- ▶ *New York City Transit (NYCT)*
- ▶ *Long Island Rail Road (LIRR)*
- ▶ *Metro North Railroad (MNR)*
- ▶ *Staten Island Railway (SIR)*
- ▶ *MTA Bridges & Tunnels*
- ▶ *MTA Bus*
- ▶ *Amtrak*
- ▶ *NJ Transit*
- ▶ *Port Authority of New York and New Jersey*
- ▶ *City of New York*
- ▶ *Connecticut Department of Transportation*
- ▶ *Empire State Development Corporation*
- ▶ *Massachusetts Department of Transportation*
- ▶ *New Jersey Department of Transportation*
- ▶ *New York City Department of Design and Construction*
- ▶ *New York State Department of Transportation*
- ▶ *New York City Parks*
- ▶ *Con Edison*
- ▶ *Orange & Rockland Utilities*

## PRIVATE

- ▶ *Jacobs*
- ▶ *Skanska USA Civil*
- ▶ *Tishman*
- ▶ *Tutor Perini*
- ▶ *HNTB*
- ▶ *AECOM*
- ▶ *Schiavone*
- ▶ *Parsons*
- ▶ *Bechtel*
- ▶ *WSP*
- ▶ *STV*
- ▶ *HDR*
- ▶ *SPC Corporation*
- ▶ *TY Lin*
- ▶ *LiRo-Hill*
- ▶ *CSX*
- ▶ *Norfolk Southern*
- ▶ *Conrail*
- ▶ *NY Susquehanna & Western Railway*





## PROJECT & CONSTRUCTION MANAGEMENT SERVICES

Tectonic has the proven capabilities along with the resources, manpower and record of performance to implement its strategic and streamlined management program toward successful execution of program and project goals for our Rail & Transit clients. Tectonic's Project Executives, Project Directors, Project / Construction Managers, Commercial Managers, Resident Engineers, Project / Field Engineers, Inspectors, Office Engineers, Safety and Quality Managers, Constructibility Reviewers, Risk Managers, Schedulers, and Estimators are all well versed in the daily demands of executing and overseeing design and construction projects. They are adept at finding creative solutions to complex problems only found on rail & transit systems, utilizing various project delivery methodologies, and can expeditiously move projects forward and mitigate issues through sound judgement, technical knowledge, and effective communications.

Tectonic has a successful record of managing rail projects that were completed on-time and within budget, safely, and to the highest level of quality. We understand and respect the unique challenges that are faced when managing rail & transit programs and projects. Constructibility issues specific to rail properties alone, phasing and staging challenges associated with maintaining uninterrupted rail service, coordination of rail flagging and force-account labor with contractor activities, advanced planning for track outage and work train needs, collective bargaining agreement nuances with internal rail labor forces, productivity issues associated with working adjacent to live track, and the list goes on. These challenges require talented rail-experienced engineering and construction professionals with the knowledge and knowhow to be proactive in the control of these issues and steer these unique projects towards successful completion. That's exactly what you get with the Tectonic Rail & Transit team.

Tectonic's project and construction management program covers the best practices needed to complete any type of capital project successfully, including the following services:

- ▶ *Planning and Design Management*
- ▶ *Pre-construction Management*
- ▶ *Construction Management & Compliance*
- ▶ *Post-construction Closeout*
- ▶ *Resident Engineering*
- ▶ *Field Inspection*
- ▶ *Office Engineering & Document Control*
- ▶ *Scheduling*
- ▶ *Estimating*
- ▶ *Commercial Management*
- ▶ *Design Compliance*
- ▶ *Quality Assurance and Oversight*
- ▶ *Safety Management*



## ENGINEERING & TECHNICAL SERVICES

As an Engineering and Design firm, Tectonic provides various services in a variety of disciplines. These services have been used on a wide array of complex rail, roadway, highway, aviation, power, gas, water, residential and commercial construction projects, with high-quality end-products and consistent client satisfaction. Tectonic has a long history of providing economical and biddable/constructable engineering designs for a myriad of Public Agencies & Authorities, private owners, and contractors alike. Specific Engineering services include:

- ▶ *Construction Engineering*
- ▶ *Civil & Structural*
- ▶ *Geotechnical*
- ▶ *Environmental Compliance & Oversight*
- ▶ *Facility Electrical and Power*
- ▶ *Communications*
- ▶ *Flood Mitigation*
- ▶ *Industrial / Fabrication*
- ▶ *Wireless & Radio Systems*
- ▶ *Systems & Building Commissioning*
- ▶ *Traffic*
- ▶ *Softwares*

### SPECIAL INSPECTION & MATERIALS TESTING

Tectonic is uniquely equipped with in-house materials testing facilities and 150+ special inspections engineers / inspectors. We have offices and licensed materials testing laboratories located in New York City and the Hudson Valley region of New York State to respond to tasks expeditiously.

The predominant accreditors in the industry license Tectonic, namely:

- ▶ *International Accreditation Service as a Special Inspection Agency in all SI categories*
- ▶ *Licensed by the NYC Department of Buildings as a Class 1 Special Inspection Agency in all SI categories*
- ▶ *Laboratory Licensed by the NYC Department of Buildings as a Concrete Testing Lab*
- ▶ *Laboratory accreditation by the National Institute of Standards and Technology (NICET) under ISO/IEC 17025:2005*
- ▶ *Laboratory accreditation through AASHTO under ASTM E-329 and other standards*
- ▶ *Qualified as a commercial laboratory to conduct materials testing for the U.S. Army Corps of Engineers.*

### SURVEYING

Tectonic's survey staff is comprised of a diversity of talented individuals, each having specific areas of proficiency in boundary, topographic, utility, right-of-way mapping, construction stakeout, global positioning systems (GPS) surveying, and 3D scanning/mobile mapping. Our staff of licensed land surveyors and surveying technicians are fully equipped with state-of-the-art equipment and software, providing clients with fully automated services from the initial field visit to the final platform. Each crew has access to high quality survey total stations, data collectors, auto levels and dual frequency GPS units capable of performing geodetic quality measurements.

All of Tectonic's field crews are OSHA safety trained and compliant. They are experienced and familiar with working in environments from remote, hard-to-access properties to city streets, active railway rights-of-way, active airports, and most other environments.



# REPRESENTATIVE ASSIGNMENTS

## PROJECT & CONSTRUCTION MANGEMENT SERVICES

### ▶ NYC TRANSIT

Key:  
 ▶ CCM = Consultant Construction Management  
 ▶ PMC = Project Management Consultant



**Contract D81497: ADA Accessibility Upgrades and Station Renewal (Package 9)**

**CONTRACT VALUE: \$500M**  
**DURATION: 2026 - 2031**



**Contract A-35305: PMC Services for Renewal of 3 stations on the Jamaica Line**

**CONSTRUCTION COST: \$130M**  
**DURATION: 2022 - 2025**



**Contract A-36986: PMC Services for Platform Component Repairs at 2 Locations on the Queens Boulevard Line**

**CONSTRUCTION COST: \$15M**  
**DURATION: 2022 - 2024**



**Contract A-37217: PMC Services for Rehabilitation at 5 Locations on Broadway / 7th Avenue Line**

**CONSTRUCTION COST: \$47M**  
**DURATION: 2022 - 2025**



**CCM Services for the Rehabilitation / Replacement of 12 Circuit Breaker Houses, 3 Substations, and 3 Fan Plant EDRs Across 4 Boroughs**

**CONSTRUCTION COST: \$75M**  
**DURATION: 2024 - 2027**



**Boldyn Networks: Wireless Communication Access System (WCAS) Expansion**

**CONSTRUCTION COST: \$500M**  
**DURATION: 2024 - 2034**



**Contract C35328: CCM Services for Steel Repair, Abatement, and Painting of the Elevated Subway Lines along Broadway-Seventh Avenue Line**

**CONSTRUCTION COST: \$94M**  
**DURATION: 2024 - 2025**



**Contracts C-33943 and C-33944: Division of Car Equipment (DCE) Car Washer Component Repairs**

**CONTRACT VALUE: \$65M**  
**DURATION: 2026 - 2031**



**Indefinite Duration / Indefinite Quantity Construction Management and Inspection Services, NYC**

**CONSTRUCTION COST: Various**  
**DURATION: 2001 - 2005**



**Creation of Standards and Templates for Project Scheduling, Stations and Infrastructure Business Units**

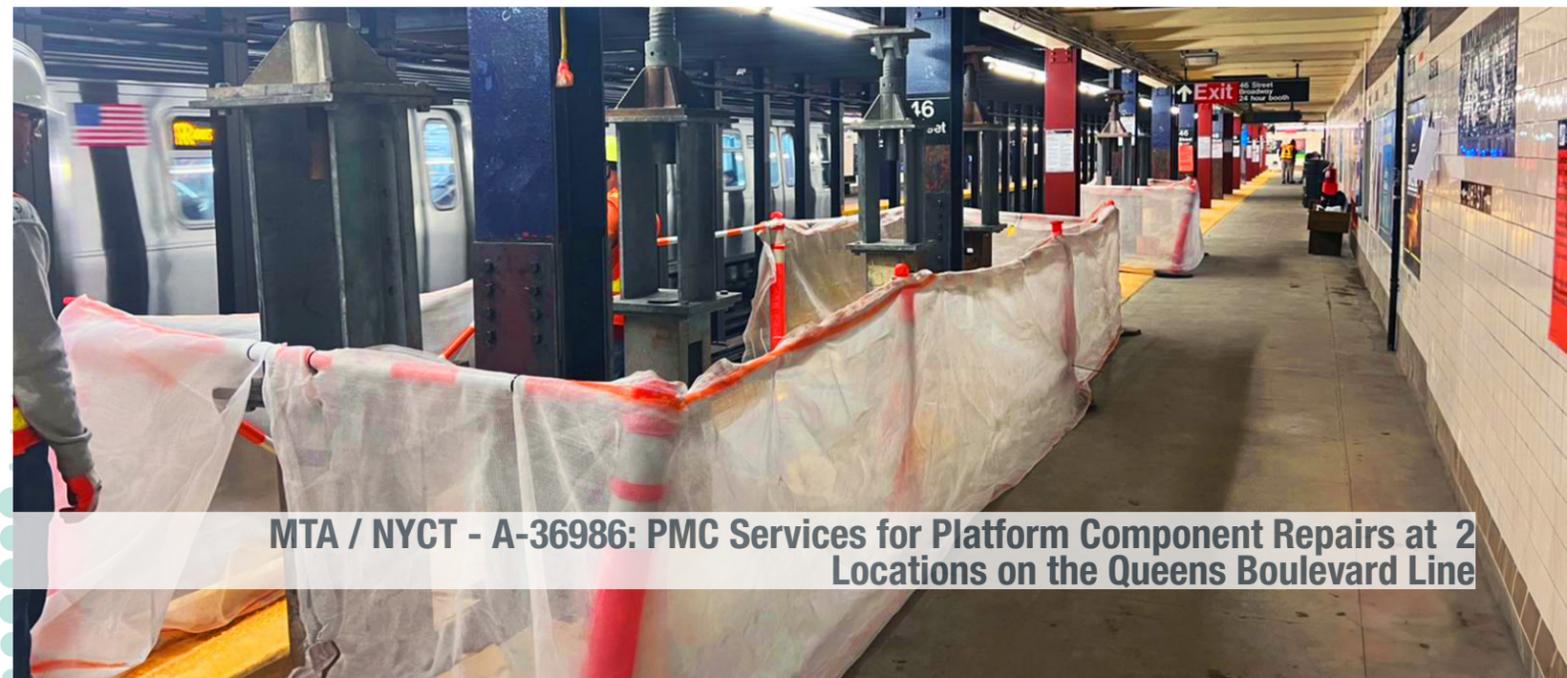
**CONTRACT VALUE: \$500K**  
**DURATION: 2022 - 2024**



MTA / NYCT - Contract A-35305: Renewal of 3 Stations on the Jamaica Line



MTA / NYCT - Contract A-37217: PMC Services for Rehabilitation at 5 Locations on Broadway / 7th Avenue Line



MTA / NYCT - A-36986: PMC Services for Platform Component Repairs at 2 Locations on the Queens Boulevard Line



# REPRESENTATIVE ASSIGNMENTS

## PROJECT & CONSTRUCTION MANGEMENT SERVICES

### ▶ LONG ISLAND RAIL ROAD



**Contract CM1628-04: PMC for the Hall Interlocking Expansion Design-Build Project**

**CONSTRUCTION COST: \$125M  
DURATION: 2023 - 2026**



**CCM for LIRR Bridge Painting Projects**

**CONSTRUCTION COST: \$50M  
DURATION: 2018 - Present**



**Contract CM1633-14: Resident Engineering & Inspection for Fire Line Replacement at Hillside Maintenance Facility**

**CONSTRUCTION COST: \$20M  
DURATION: 2024 - 2025**

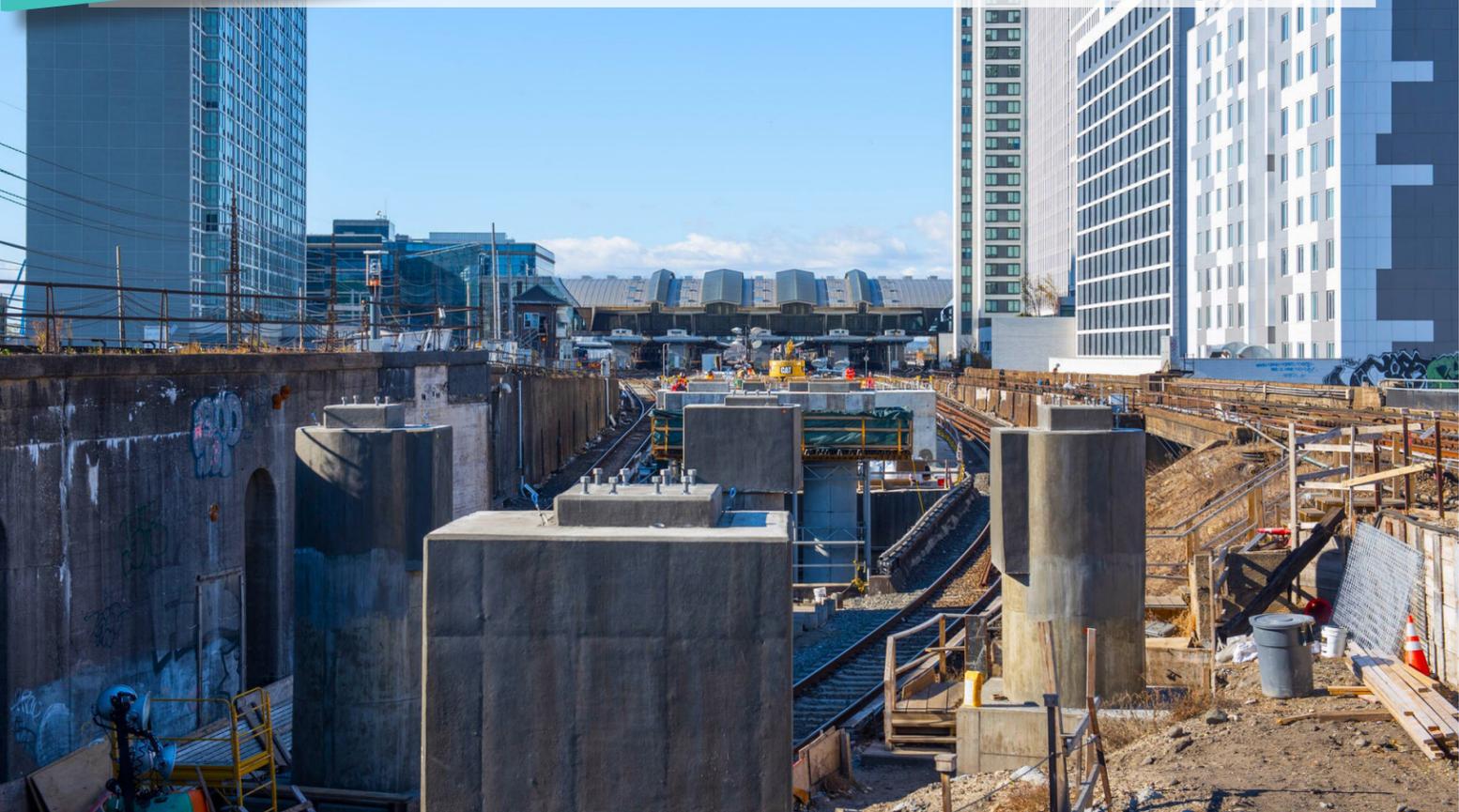


**Contract CM1633-07: Project Management of LIRR's Biennial Bridge Inspection Program**

**CONTRACT VALUE: \$2M  
DURATION: 2023 - 2028**

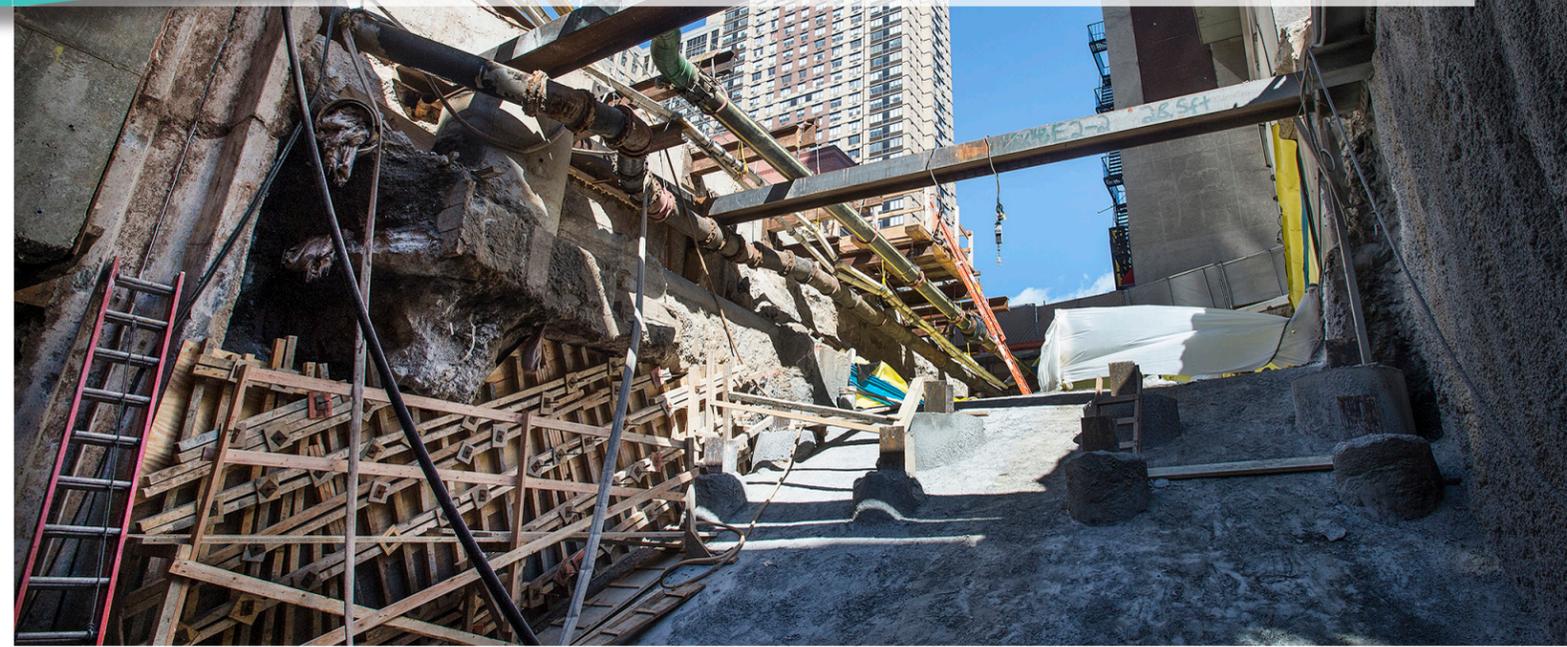
## FEATURED PROJECT

### MTA / LIRR - Hall Interlocking Expansion



## FEATURED PROJECT

### MTA C&D - CCM and Special Inspections for Second Ave Subway Phase-2, Contract #1



### ▶ AMTRAK



**Construction Management, Quality Management, and Code Compliance Management for Moynihan Station Train Hall, NYC**

**CONSTRUCTION COST: \$1.6B  
DURATION: 2017 - 2020**



**Construction Inspection Services for Connecticut River Bridge Replacement**

**CONSTRUCTION COST: \$1.3B  
DURATION: 2025 - 2026**

### ▶ MTA C&D INTEGRATED PROJECTS



**PMC for Second Ave Subway Phase 2, Contract 1**

**CONSTRUCTION COST: \$150M  
DURATION: 2024 - 2028**

### ▶ METRO-NORTH RAILROAD



**Grand Central Terminal Improvements Program - Construction Management**

**CONSTRUCTION COST: \$150M  
DURATION: 2015 - 2021**

### ▶ MTA BUS



**Contract C-33090: New Fueling and Bus Washer at LaGuardia Bus Depot under CM-1373**

**CONSTRUCTION COST: \$50M  
DURATION: 2013 - 2014**

### ▶ NEW YORK SUSQUEHANNA & WESTERN FREIGHT RAILWAY



**Project Management Support for New York Susquehanna & Western Freight Railway - Gateway Development Corporation New Jersey Projects**

**CONSTRUCTION COST: \$16B  
DURATION: 2025 - 2029**



# REPRESENTATIVE ASSIGNMENTS

## ENGINEERING & TECHNICAL SERVICES



**MTA C&D: East Side Access - Construction Inspection, Special Inspection & Testing services**

**CONSTRUCTION COST:** \$2.3B  
**DURATION:** 2009 - 2020



**MTA C&D: Surveying for Various Station and Parking Lot Repair Designs**

**CONSTRUCTION COST:** \$100M  
**DURATION:** Ongoing



**MTACC / NYCT: 2nd Ave Subway, Phase I - Geotechnical Design, Environmental Compliance, Special Inspections / Materials Testing, and Quality Control**

**CONSTRUCTION COST:** \$4.4B  
**DURATION:** 2007 - 2015



**MTA C&D / Metro North: Beacon Station Parking Expansion - Environmental Compliance and Oversight**

**CONSTRUCTION COST:** \$9.5M  
**DURATION:** 2005 - 2006



**MTA C&D / NYCT: Contract A-3695: Rector Street Station Stairs Repair - Environmental Compliance and Oversight**

**CONSTRUCTION COST:** \$800K  
**DURATION:** 2017



**MTA C&D: On-Call Independent Testing Laboratory Services, & Geotechnical Services**

**CONSTRUCTION COST:** \$5M  
**DURATION:** 2005 - 2025



**MTA C&D: Enhanced Station Initiative Program - Special Inspections / Materials Testing**

**CONSTRUCTION COST:** \$2M  
**DURATION:** 2017 - 2020



**MTA Capital Construction / NYCT: Contract C-26503, No. 7 Line Extension - Construction Engineering, Special Inspections / Materials Testing and Environmental Compliance / Oversight**

**CONSTRUCTION COST:** \$1.7M  
**DURATION:** 2011 - 2015



**MTA Capital Construction / NYCT: Fulton Street Transit Center A/C Line Mezzanine Reconstruction and J/M/Z Line Vertical Circulation - Special Inspections / Materials Testing**

**CONSTRUCTION COST:** \$200M  
**DURATION:** 2009 - 2014



**MTA / NYCT: Rockaway Line Resiliency and Rehabilitation Design-Build - Environmental Compliance and Oversight and Special Inspections / Material Testing**

**CONSTRUCTION COST:** \$500M  
**DURATION:** 2023 - 2026



**MTA / NYCT: Contract C-40455: Mother Clara Hale Bus Depot - Special Inspections and Materials Testing**

**CONSTRUCTION COST:** \$250M  
**DURATION:** 2011 - 2014



**MTA / LIRR / Boingo Networks: Jamaica Station and Atlantic Terminal Design & Construction Admin for Wireless Network Systems**

**CONSTRUCTION COST:** \$5M  
**DURATION:** 2021



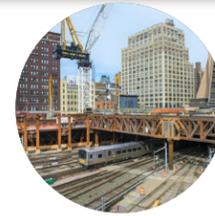
**MTA / Metro North: Grand Central Terminal DAS System Design and Construction Phase Services**

**CONSTRUCTION COST:** \$5M  
**DURATION:** 2015



**MTA / Staten Island Rapid Transit Agency: Contract A-80265, New Aurthur Kill Station & Parking Lot - Special Inspections / Materials Testing**

**CONSTRUCTION COST:** \$27.5M  
**DURATION:** 2013 - 2015



**MTA / Amtrak: Gateway Phase II, Hudson Yard Tunnels - Special Inspections / Materials Testing**

**CONSTRUCTION COST:** \$16B  
**DURATION:** 2020 - 2024



**Amtrak / Tutor Perini: Gateway Phase I, Hudson Yard Tunnels - Special Inspections / Materials Testing**

**CONSTRUCTION COST:** \$13.5B  
**DURATION:** 2015 - 2020



**NJ Transit: Geotechnical Engineering for the Roseville Rehabilitation, Lackawanna Cut-off**

**CONSTRUCTION COST:** \$32.5M  
**DURATION:** 2023 - 2025



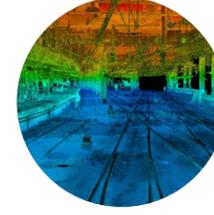
**NJ Transit: Construction of New Portal North Bridge - Special Inspections / Materials Testing**

**CONSTRUCTION COST:** \$1.6B  
**DURATION:** 2013 - 2016



**Amtrak: Various QA, Geotechnical, Survey, Special Inspection, and Material Testing Assignments for NYC Capital Construction Group**

**CONSTRUCTION COST:** \$3B  
**DURATION:** 2011 - 2020



**HNTB / Amtrak: Control Network Survey of Amtrak North River and East River Tunnels (Post-Sandy Surveys)**

**CONSTRUCTION COST:** \$700M  
**DURATION:** 2014



**Conrail: Construction Monitoring and Geotechnical Engineering for the Point No Point Bridge Replacement Project**

**CONSTRUCTION COST:** \$186M  
**DURATION:** 2022 - 2025



## FEATURED PROJECT

### Conrail - Point No Point Bridge

# OUR STORY

Tectonic has delivered quality professional services in a timely and cost effective manner by pooling its talented staff into project teams that think, act, and perform as one integral unit. By carefully listening and collaborating with its clients, the firm is able to identify the key issues and assure stakeholder objectives are met in the final deliverables.

Through innovation and adopting technological advances, the firm is able to generate unique solutions to improve our nation's infrastructure and build safe and sustainable communities.

As the world evolves, and its challenges grow more complex, Tectonic continues to innovate and provide the practical solutions and exceptional customer service its clients have trusted since its founding.

# RECOGNITIONS

- ▶ ENR National Top 500 Design Firms: #224 in 2025
- ▶ ENR National Top 50 Construction Management Firms: #36 in 2025
- ▶ ENR National Top 100 Construction Management/PM-for-Fee Firm: #67 in 2025
- ▶ ENR East - Top Design Firms: #45 in 2025
- ▶ ENR East - Top Design Firms in New York/New Jersey: #20 in 2025
- ▶ ENR East - Top Design Firms by Market Sector:
  - *Transportation* #50
  - *General Building* #26
  - *Telecommunications* #10 in 2025
- ▶ Crains Largest Engineering Firms in NY Area: #19 in 2024
- ▶ The Zweig Letter – 2022 Hot Firms: #91

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