CONSTRUCTION ENGINEERING SERVICES
Our clients have relied upon TECTONIC to ensure the quality of construction projects and protect the value of their assets by employing:

- Experienced, Qualified Personnel
- Modern, Reliable, & Calibrated Equipment
- Rigorous Testing Procedures
- Two Accredited Materials Testing Laboratories
- State-of-the-Art Inspection Protocols
- Efficient Reporting Methods & Communications with Project Team

TECTONIC’s engineers are licensed, trained and certified to ensure that relevant codes and reference standards are being observed. TECTONIC has the expertise to provide safe and cost effective solutions on a timely basis. Our construction friendly designs are tailored to your requirements.

Corporate Headquarters:
70 Pleasant Hill Road, P.O. Box 37
Mountainville, NY 10953
Phone: (800) 829-6531
Fax: (845) 534-5999

Additional Office Locations:
- Albany, New York
- Albuquerque, New Mexico
- Boca Raton, Florida
- Charlotte, North Carolina
- Hartford, Connecticut
- Houston, Texas
- Las Vegas, Nevada
- New York, New York
- Newburgh, New York
- Phoenix, Arizona
- Pittsburgh, Pennsylvania
- Rochester, New York
- Richmond, Virginia
- Saddle Brook, New Jersey
- Tampa, Florida
TECTONIC was founded in 1986 and is a multi-disciplined engineering firm employing a staff of approximately 500 professionals comprised of civil, structural and geotechnical engineers, geologists, environmental specialists, homeland security specialists, site acquisition specialists, surveyors, planners, construction managers and inspectors. TECTONIC has been in business for 28 years with a reputation for offering professional quality services to its clients; earning a ranking in the ENR Top 500 Engineering Design Firms since 2001 with a current national ranking of 173 and 15 in telecommunications. TECTONIC specializes in a variety of interrelated design and construction support services including:

### Structural
- Erection and Demolition Plans for Bridges and Buildings
- Design of Temporary Supports
- Crane Lifting Plans
- Rigging Design and Analysis
- Design of Temporary Work Platforms, Equipment Platforms and Demolition Shields
- Fall Protection Design
- Bridge Structural Lifting Operations (Jacking and Bearing Replacement)
- Formwork Design
- Analysis of Existing Structures for Construction Equipment and Transportation Loads
- Crane Notice (CN) Filings With NYCDOB and MTA
- Accelerated Bridge Construction
- Design of Temporary Bridges and Structures
- Redesign of Details, Structural Components and Connections

### Infrastructure
- Roadway Stage Construction Plans
- Alternatives Analysis
- Maintenance and Protection of Traffic (M & PT)
- Temporary Signalization
- Temporary Roadways / Haul Roads
Geotechnical
Design of Excavation Support Systems [Sheet Piling, Soldier Piling, Tie-Back Systems, etc.]
Soil Nailing Design
Cofferdam Design
Underpinning and Shoring Design
Foundation Solutions (Piles, Caissons, Ground Modification, etc.)
Slope Stability Analysis
Rock Stabilization and Fall Protection
Support & Protection of Utility Structures
Dewatering Plan Preparation and Permit Acquisition
Ground Penetrating Radar (GPR) Investigations

Monitoring of Structures
Pre-Condition Surveys
Vibration and Blast Monitoring
Geotechnical Instrumentation and Monitoring
Survey Settlement Monitoring
Pile Load Testing and Inspection

Civil / Environmental
Temporary Stormwater Management
Temporary Utility Services
Construction Permitting
Hydraulic Analysis and Scour Protection
Water Handling Facilities
Value Engineering / Alternatives Analyses
Storm Water Pollution Prevention Plan (SWPPP) Preparation and Periodic Inspection
GPR and Underground Utility Locating Services
Site Specific Health and Safety Plan (HASP) Preparation
Noise and Air Quality Monitoring and Mitigation
Soil Disposal Prequalification and Testing Services
Wetlands, Threatened & Endangered Species, and Archaeological Studies and Monitoring
Erosion and Sedimentation Control Plans
TECTONIC has experience with industrial, commercial, transportation, infrastructure, energy and telecommunication projects providing construction monitoring, technical inspections and materials testing. TECTONIC is one of only a few uniquely positioned consulting engineering firms that can provide our clients with a higher level of quality services by offering special inspections and in-house laboratory material testing services.

TECTONIC’s materials testing services are provided under the supervision of a licensed professional engineer in accordance with applicable ASTM and AASHTO guidelines, including the requirements of ASTM E329, Standards and Recommended Practices of Inspection and Testing Agencies. TECTONIC’s testing laboratories are AASHTO and US Army Corp Accredited. TECTONIC also participates in the AMRL, NVLAP and CCRL laboratory accreditation programs. Both our New York City and Hudson Valley laboratories are also licensed by the NYC Department of Buildings.

**Personnel Certifications & Accreditations**

Our Clients have relied upon TECTONIC to ensure the quality of construction projects and protect the value of their assets by employing experienced, qualified personnel - over 150 degreed engineers and technicians certified in accordance with the:

- National Institute for Certification Technologies (NICET) Levels I to IV
- American Concrete Institute (ACI)
- International Code Council (ICC)
- American Welding Society (AWS)

**Special Inspection & Materials Testing for:**

- Asphalt Pavement
- Concrete
- Shotcrete
- Firestopping
- Fireproofing
- Controlled Fill
- Subgrades
- Structural Steel
- Rock Bolts
- Structural Cold-Formed Steel
- Masonry
- Precast Concrete
- Post-tensioned Concrete
- Wood Framing
- Pile Foundations
- Caisson Foundations
- Ground Improvements
- Tower Erection
- Underpinning
- Curtain Walls
- EIFS
- Mechanical Systems
- Sheeting and Shoring
- Test Borings
- SWPPP
- Standpipe Systems
- Sprinkler Systems
Construction Engineering Services

ONE Source for All Your Construction Engineering Needs

Surveying

TECTONIC's survey staff is fully equipped with state of the art equipment, including Global Positioning Systems (GPS). Construction related surveying services include:

- Project and Baseline Control
- Construction Layout
- Topographic and Boundary Surveys
- ALTA/ACMS Land Title Surveys
- As-Built Plans
- Anchor Bolt Location
- Steel Plumbness Surveys
- Quantity Calculations
- Survey Monitoring (Structure Settlement & Surface Settlement)

Additional Permanent Design Services

- Bridge Design
- Foundations & Retaining Walls
- Accelerated Bridge Construction; Design and Construction Engineering
- Value Engineering