

4041 South McClintock Dr., Suite 302
Tempe, AZ 85282

480-629-5533 FAX 480-629-8771
www.tectonicengineering.com

State of Arizona, State Procurement Office
100 N. 15th Ave, Suite 201
Phoenix, AZ 85007

December 16, 2014

Attn: Melissa Bauer
Senior Procurement Specialist

RE: Statement of Qualifications – 2015 Annual Professional Services List

Dear Ms. Bauer:

Tectonic Engineering & Surveying Consultants P.C. (Tectonic) is pleased to submit this Statement of Qualifications to provide Professional Engineering Services for the State of Arizona.

Tectonic was founded in 1986 and is a multi-disciplined engineering firm employing a staff of approximately 500 professionals comprised of civil, structural, environmental, and geotechnical engineers, public safety specialists, geologists, surveyors, planners, and construction inspectors. Our Tempe, AZ regional office has been in operation since 2012 and has been providing full engineering services to private clientele and public agencies in Arizona, New Mexico, Texas and Nevada.

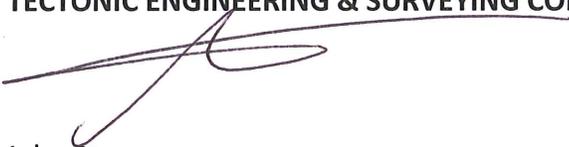
The depth of experience combined with the multi-faceted capabilities of our staff presents a company that is highly qualified to accomplish projects from inception to completion. Our approach to project management is grounded in basic practiced strategies that have proven to deliver successful products time and again. Tectonic has been in business for over twenty five years with a reputation for offering professional and quality services.

Tectonic acknowledges receipt of Solicitation Amendment #1.

Thank you for this opportunity and we look forward to meeting with your Team. If you need any additional information please do not hesitate to contact me at (480) 629-5533, or by e-mail at jstevens@tectonicengineering.com.

Sincerely,

TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.



John Stevens

Manager of Professional Services

Attachment: Engineering Services Statement of Qualifications

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State of Arizona Statement of Qualifications 2015 Annual Professional Services List

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Attachment I – Required Forms

Statement of Qualifications-2015 Annual Professional Services List
State of Arizona

1.0 Specialized Design and Technical Competence

Business Address: 4041 South McClintock Drive
Suite 302
Tempe, AZ 85282
Phone: (480) 629-5533
Contact Person: John Stevens
Email: JStevens@tectonicengineering.com

Tectonic is a Professional Corporation, incorporated in 1987 under the name Tectonic Engineering Consultants, P.C. In 2001, Tectonic changed its name to the present name of Tectonic Engineering & Surveying Consultants P.C. The Principals and founders of this firm are Richard P. Kummerle, P.E., P.P., P.G., Chairman of the Board, and Donald A. Benvie, P.E., President and Treasurer. Rich Kummerle is a licensed Professional Engineer in Arizona.

Tectonic Engineering and Surveying Consultants P.C. (Tectonic) offers a full spectrum of professional engineering, planning, surveying and construction inspection services to match our clients' growing needs. Established in 1986, Tectonic has grown to become a multi-disciplined engineering firm with a staff of over 500 professionals. As one of the Top 500 ENR engineering design firms for the past three years, Tectonic is committed to providing well organized, thorough, and practical teams that deliver a timely, economical, and quality work product offered from offices located throughout the country, including Arizona.



Tectonic's mission is to provide the highest level of quality and service; therefore, we concentrate our services on market sectors that reflect the strength and talent of our staff. Tectonic serves the Transportation, Water Resources, Land Development, Telecommunications and Municipal Engineering markets. The firm's total staff of 500 includes Professional Engineers with expertise in civil, environmental, geotechnical, structural and municipal engineering, construction management and construction inspection personnel, and an in-house materials testing laboratory. The depth of our experience combined with the multi-faceted capabilities of our staff presents a company that is highly

Statement of Qualifications-2015 Annual Professional Services List
State of Arizona

qualified to successfully service a project through the planning, permitting, design, bidding and construction phases.

Tectonic understands the unique requirements of contracts that entail immediate assignment of staff, quick start-up and timely delivery of services, as we have performed similar work for professional service contracts relating to a variety of municipal projects. We currently have On-Call contracts with regional agencies, counties, and municipalities.

2.0 Firm's Capacity and Capability

Tectonic believes the optimum project approach is to provide the State with access to a team of engineering specialists. Rather than try and utilize one staff member that has all this experience and expertise; which would be some at senior level with many years' experience, we believe selectively assigning staff with the needed experience would be the most cost-effective and value added approach for the State of Arizona.

Specifically, Tectonic will assign our Manager of Professional Services, John Stevens, to be Tectonic's Point of Contact (POC) with the State, who will be responsible to make sure all tasks assigned by the State are completed by the Tectonic team member with the best experience at the least possible hourly rate. Thereby, providing the State lower rate personnel for tasks that are less complex and/or less sensitive; yet at the same time permit the State access to senior, licensed staff with more experience and/or expertise with specific engineering or specific technical issues. This approach assures the State that they have all the specific expertise they need from one source; which simply cannot be provided from one independent consultant.

Tectonic has extensive experience providing engineering services for public and private clientele and understands the importance of project management and project control. Our approach includes providing flexibility in management and execution of the work, whether the assigned task is of a routine or emergency nature. Once the State identifies a task assignment, Tectonic will meet with the State to discuss the scope of services and obtain all available data including reports, studies, maps, etc. Tectonic will then prepare a task based work plan that describes methodically and chronologically what will be done, what will be provided as the end product and a detailed schedule with estimated dates of completion for project milestones. Based on the level of effort and activities required to accomplish the work plan in the task statement, Tectonic will prepare a cost proposal with a detailed breakdown of direct technical labor costs, direct costs, overhead and all mark-ups permitted under the contract.

Statement of Qualifications-2015 Annual Professional Services List
State of Arizona

Tectonic will review the task work plan with the State and with input from the State, issue a finalized work plan.

Tectonic's goal is to achieve technical excellence by striving to maintain the highest level of proficiency in the performance of our engineering services. To accomplish this, we dedicate the best professional talents, supported with the necessary resources to ensure that the most technically feasible and cost effective solutions are an integral part of the final product delivered to the Client. Tectonic has a comprehensive Quality Assurance/Quality Control (QA/QC) Plan that will be used as guides in the performance of the professional services. The success of each project is determined by our ability to achieve and sustain a high standard of performance through the dedication and commitment of the competent staff. It is Tectonic's philosophy that we have an obligation to provide a quality product to all our clients through responsive and innovative application of practical experience, technical competence, and state-of-the-art technology. Tectonic's QA/QC Plan has been developed to assist in achieving this goal. Tectonic's goal is to provide quality services based on the following:

- Understanding of the Client's needs
- Proper application of the applicable design criteria and regulatory standards
- Use of current technology
- Organization, thoroughness, and presentation of product and technical data generated
- Technical acceptability of product
- Cost effectiveness
- Ability to meet the schedule

In summary, Tectonic will provide a team of engineers, managed by one point-of-contact, who will assign the most cost-effective staff to complete the tasks authorized. This value added concept will provide the State with a unique source of experience and expertise, and the ability to perform multi-tasks, to meet your demanding schedule, cost competitively.

2.1 Project Schedule Assurance Techniques

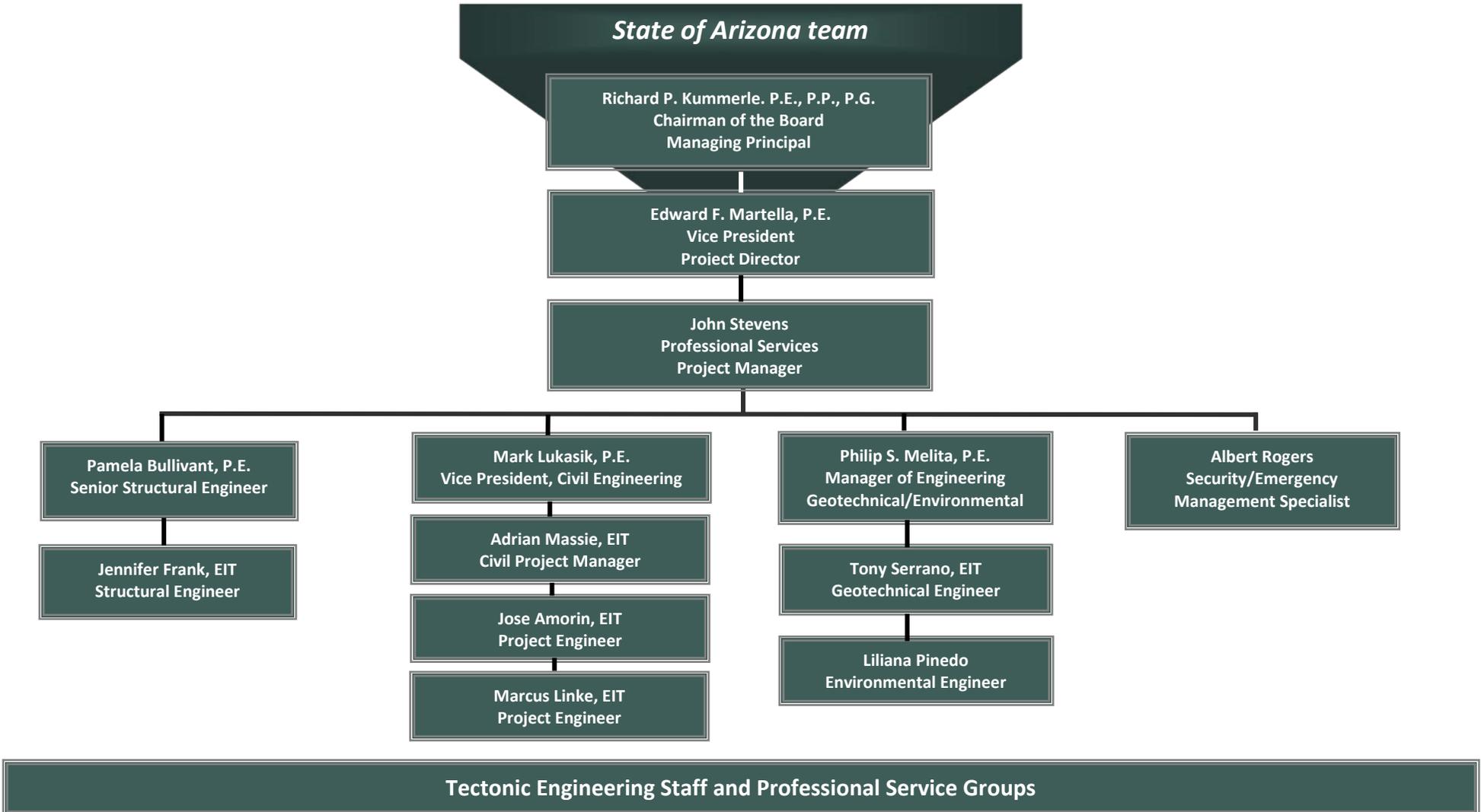
Tectonic strives to have all projects stay within the approved budget and meet all project schedule milestones and deadlines. Conformance to established project schedules is achieved by assigning a proficient Project Manager to an experienced design team, who will coordinate all parties involved in the project and track progress on a regular basis. Tectonic utilizes several controls to ensure adherence to project schedules. Our interactive project reporting system allows Project Managers to obtain updated information on the status of a project, from both a technical and financial standpoint. These internal resources provide for close project tracking and prevent any deviations from the established schedule. In addition, we keep the client informed as the project progresses to ensure a clear understanding of scheduling goals and objectives.

2.2 Cost Control and Budgets

Tectonic Project Manager, John Stevens, will be the primary point of control and quality assurance for all aspects of project cost control as related to available and provided project funding as well as in regards to the project estimation of costs through all disciplines of any project. With more than 14-years-experience in design, construction and estimating of costs, Mr. Stevens offers the Tectonic Team a level of quality and attention to detail that will assure cost control measures are in place from the early stages of schematic design through project closeout and completion.

Statement of Qualifications-2015 Annual Professional Services List
State of Arizona

2.3 Organizational Chart for Engineering Services



Attachment I – Required Forms:

- Response Form I**
- Revised Response Form II**
- Response Form III**
- Response Form IV**
- Bid Solicitation Sheet**



ATTACHMENT I – General Qualifications
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729**

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	Tectonic Engineering & Surveying Consultants, PC
b. FIRM (OR BRANCH OFFICE) STREET:	4041 South McClintock Drive, Ste. 302
c. FIRM (OR BRANCH OFFICE) CITY:	Tempe
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85282
f. YEAR ESTABLISHED:	1986 – Corporation 2010 – Tempe Branch Office
(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	John Stevens/Manager of Professional Services
i. POINT OF CONTACT TELEPHONE NUMBER:	Office: 480-629-5533 Cell: 480-284-1050
j. POINT OF CONTACT E-MAIL ADDRESS:	jstevens@tectonicengineering.com
k. NAME OF FIRM (If block 1a is a branch office):	Tectonic Engineering & Surveying Consultants P.C.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Architect	P	2	0
Civil Engineers	P	24	3
Construction Inspector	P	185	0
Construction Manager	P	8	0
CADD Technician	P	39	5
Ecologist	P	1	0
Environmental Engineer	P	12	0
Environmental Scientist	P	8	0
Geologist	P	14	0
Project Manager	P	40	3
Soils Engineer	P	11	1
Structural Engineer	P	39	0
Technician/Analyst	P	22	0
Transportation Engineer	P	15	0
Total		420	12



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3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
5	Bridges	5
3	Dams (Earth; Rock); Dikes; Levees	3
30	Educational Facilities; Classrooms	2
50	Environmental Impact Studies, Assessments or Statement	5
6	Highways; Streets; Airfield Paving Parking Lot	3
2	Office Buildings; Industrial Parks	2
120	Planning (Site, Installation, and Project)	5
500	Soils and Geologic Studies; Foundations	5
35	Surveying; Platting; Mapping Flood Plain Studies	6
5	Testing Inspection Services	3
2100	Traffic and Transportation Engineering	6
10	Towers (Self-Supporting & Guyed Systems)	6
5	Water Supply; Treatment and Distribution	3

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|--|--|
| <ul style="list-style-type: none"> 1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million | <ul style="list-style-type: none"> 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater |
|--|--|



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Richard P. Kummerle, P.E., P.G., P.P.	b. ROLE IN THIS CONTRACT Principal in Charge	c. YEARS EXPERIENCE	
		1. TOTAL 40	2. WITH CURRENT FIRM 28 – Founding Partner
d. LOCATION (City and State) Tempe, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S. Civil Engineering, B.S. Geological Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer – AZ + 47 other States Professional Geologist	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Planner; Sandia Laboratories; Licensed Certified Trainer to Conduct Vulnerability Assessments. Licensed to perform Vulnerability Assessments in RAM-W, RAM-D and RAM-T, FEMA: Emergency Manager Certification			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) GovNET, Inc. – A/E Design of Public Safety Microwave Network Throughout State of Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in Charge. Tectonic is currently working with GovNET, Inc. as the primary A/E design engineering firm for the development of a Public Safety Microwave Network throughout the State of Arizona. Principal in charge. \$37,000.00 Approximately 20 sites	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) AWS Turnkey Services, A & E Design & Construction Management Services; Arizona, New Mexico, Texas & Nevada	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic has been retained by Verizon Wireless since 2012 to provide Turnkey Services including Project Management, Structural Engineering, Site Acquisition, Engineering Services, and Construction Management Services for the AWS deployment. Tectonic has been providing services for over 250 sites. Principal in Charge. Ongoing – to date \$1,453,000.00	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Central Arkansas Water, Vulnerability Assessment, Little Rock Arkansas	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic was retained by Central Arkansas Water to review, recommend revisions, and update as directed the Utility's Vulnerability Assessment, Pipeline Assessment and Emergency Response Plans for its facilities within the Central Arkansas Water departments. Project Director. \$160,570.00	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Town of Warwick Municipal Engineers, Town of Warwick, NY	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Municipal Engineer for the past 21 years to present, Tectonic serves the Town Board, Building Department, and Department of Public Works. Tectonic also served as the Planning Board Engineer for over 15 years. Ongoing.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/>	Check if project performed with current firm



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Edward F. Martella, P.E.	b. ROLE IN THIS CONTRACT Project Director	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 15
d. LOCATION (City and State) Tempe, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) Master in Business Administration B.S. Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer – AZ + 20 other States	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Sandia Certified Trainer-VAM-CF, RAM-C and RAM-CI; US Dept. of Defense Certification – Security Engineering & Blast Resistance Design; Sandia RAM-W; FEMA; WMD Outreach Program, FBI Academy; OSHA/Hazardous Materials Course; J100RAMCAP			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) GovNET, Inc. – A/E Design of Public Safety Microwave Network Throughout State of Arizona	(2) YEAR COMPLETED Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Director. Tectonic is currently working with GovNET, Inc. as the primary A/E design engineering firm for the development of a Public Safety Microwave Network throughout the State of Arizona. Project Director. \$37,000.00 Approximately 20 sites	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) AWS Turnkey Services, A & E Design & Construction Management Services; Arizona, New Mexico, Texas & Nevada	(2) YEAR COMPLETED Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic has been retained by Verizon Wireless since 2012 to provide Turnkey Services including Project Management, Structural Engineering, Site Acquisition, Engineering Services, and Construction Management Services for the AWS deployment. Tectonic has been providing services for over 250 sites. Project Director. Ongoing project. To date \$1,453,000.00	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Central Arkansas Water, Vulnerability Assessment, Little Rock Arkansas	(2) YEAR COMPLETED Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic was retained by Central Arkansas Water to review, recommend revisions, and update as directed the Utility's Vulnerability Assessment, Pipeline Assessment and Emergency Response Plans for its facilities within the Central Arkansas Water departments. Project Manager. \$161,000.00	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Valencia County Detention Center Structural Analysis & Assessment	(2) YEAR COMPLETED Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic was retained by Valencia County, NM to perform a structural analysis and assessment of the Valencia County Detention Center. The analysis and assessment included all existing live and dead loadings placed on the structure to determine possible failure modes for the reinforced concrete beams and floor joists; reinforced concrete bearing walls and steel framing for roof structure. Project Manager. \$14,750.00	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Central Arkansas Water	(2) YEAR COMPLETED Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic is currently retained by Central Arkansas Water to review, recommend revisions, and update as directed the Utility's Vulnerability Assessment, Pipeline Assessment and Emergency Response Plans for its facilities within the Central Arkansas Water departments. Project Manager. \$160,470.00 Ongoing.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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Phoenix, Arizona 85007**

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Philip S. Melita, P.E	b. ROLE IN THIS CONTRACT Manager of Engineering/Geotechnical	c. YEARS EXPERIENCE	
		2. TOTAL 15	2. WITH CURRENT FIRM 8
d. LOCATION (City and State) Tempe, AZ and Richmond, VA			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS P.E. Arizona + 5 other States	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) ASCE Certified - Structural Condition Assessment of Existing Structures, Design & Strengthening of Shallow Foundations, Earth Retaining Structures. ACI Certification – Concrete Slab Analysis/Design. Troxler Nuclear Gauge Training, Certified Tower/Tank Climber, FEMA Emergency Program Manger Certification, and Radiological Emergency Management.			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
1.	AWS Turnkey Services, A & E Design & Construction Management Services Arizona, New Mexico, Texas & Nevada	Professional Services	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic has been retained by Verizon Wireless since 2012 to provide Turnkey Services including Project Management, Structural Engineering, Site Acquisition, Engineering Services, and Construction Management Services for the AWS deployment. Tectonic has been providing services for over 250 sites. Project Director. Ongoing project. To date \$1,453,000.00		
2.	New Build Turnkey Services, A & E Design & Construction Management Services Arizona, New Mexico, Texas & Nevada	Professional Services 2014	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Turnkey Services including Project Management, Structural Engineering, Site Acquisition, Engineering Services, Geological Services, and Construction Management Services for the New Build deployment. Tectonic has been providing services for over 100 sites. \$3,000,000. Manager of Engineering.		
3.	Geotechnical Drainage Design. Richmond, VA	Professional Services 2014	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided Geotechnical drainage design on existing Swansboro Elementary School building west wall. Site design sketch indicating drainage design patterns. The design consisted of a dry well design and new storm water design for school building. \$50,000.00. Project Manager		
4.	Building Expansion of existing facility. Richmond, VA	Professional Services 2014	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided material testing and Special Inspection Services for construction of a 50,000 sq. ft. addition to a critical telecommunications switch in Richmond, VA. Services included soils and material testing; inspection of concrete reinforcing, structural steel; critical welding; inspection off exterior and interior finishes; mechanical and electrical systems. Project Manager.		
5.	Thomas Jefferson High School Geotechnical Investigation	Professional Services 2014	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided analysis & design of a new football field scoreboard at Thomas Jefferson High School to include: Mounting frame support for football field scoreboard, geotechnical investigation to include one boring to determine bearing capacity, soil type & shrink-swell conditions, foundation design, construction drawings and construction monitoring of steel, concrete, etc. as specified from design. Project Director. \$2,850.00		



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME John Stevens	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		3. TOTAL 20	2. WITH CURRENT FIRM 2.5
d. LOCATION (City and State) Tempe, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Sociology		f. PROFESSIONAL TRAINING - REGISTRATIONS N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) AZ Wireless Association Board of Directors			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) GovNET, Inc.: A&E Design of Public Safety Microwave Network Throughout the State of Arizona	(2) YEAR COMPLETED
		Professional Services 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Primary A&E engineering development of a Public Safety Microwave Network. Service to approximately 10-20 site locations; Project compensation: \$37,000. Completed in 2014. Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) AWS Turnkey Services: A&E Design, & Construction Management. Throughout Arizona, New Mexico, Texas, & Nevada	(2) YEAR COMPLETED
		Professional Services
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tectonic has been retained by Verizon Wireless since 2012 to provide Project Management Services, Site Acquisition Services, Structural Engineering Services, A&E Engineering Services, Permitting and Construction Management Services for the AWS deployment. Tectonic has provided services for over 250 sites. To date project compensation: \$1,453,000. Project is ongoing since 2012. Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) TMA Turnkey Services: A&E Design & Construction Management. Throughout Arizona, New Mexico, Texas, & Nevada	(2) YEAR COMPLETED
		Professional Services
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Services provided include: Project Management, Site Acquisition & Permitting, Structural and A&E Engineering. This includes site audit & verification, landlord & jurisdiction coordination, and analysis of structures if needed, including proposed design and modifications as necessary to structure. Tectonic has provided services for over 100 sites. To date project compensation: \$542,000. Project is ongoing since 2013. Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Small Cell Turnkey Services: A&E Design, & Construction Management; Throughout Arizona, and New Mexico	(2) YEAR COMPLETED
		Professional Services
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Turnkey Services include: Project Management, Site Acquisition, A&E Engineering, Structural Engineering, and Construction Management. Functions include but are not limited to analysis of site, identification/submittal of permitting regulations, project coordination with land/site owners and jurisdictions, production of zoning and construction drawings for site build. Tectonic has provided services for over 70 sites. To date project compensation: \$ 1,631,000. Project is ongoing since 2013. Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) New Build Turnkey Services: A&E Design & Construction Management. Throughout Arizona, New Mexico, Texas, & Nevada	(2) YEAR COMPLETED
		Professional Services
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Turnkey Services include: Project Management, Site Acquisition, Structural and A&E Engineering, Geotechnical Engineering, and Construction Management. Functions include but are not limited to soils testing, building and structure analysis, design and formulation of tower specifications including specialty structures, design and submittal of permitting drawings, procurement of lease with ownership coordination. Service for over 100 sites. To date project compensation: \$3,000,000. Project is ongoing since 2012. Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Adrian Massie	b. ROLE IN THIS CONTRACT Project Engineer	c. YEARS EXPERIENCE	
		4. TOTAL 2.5	2. WITH CURRENT FIRM 2.5
d. LOCATION <i>(City and State)</i> Tempe, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS EIT (engineer in training) -AZ	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> BECHTEL Certification (Environmental, Health, & Safety)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> GovNET, Inc.: A&E Design of Public Safety Microwave Network Throughout the State of Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Primary A&E engineering development of a Public Safety Microwave Network. Service to approximately 10-20 site locations; Project compensation: \$37,000. Completed in 2014. Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> AWS Turnkey Services: A&E Design, & Construction Management. Throughout Arizona, New Mexico, Texas, & Nevada	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tectonic has been retained by Verizon Wireless since 2012 to provide Project Management Services, Site Acquisition Services, Structural Engineering Services, A&E Engineering Services, Permitting and Construction Management Services for the AWS deployment. Tectonic has provided services for over 250 sites. To date project compensation: \$1,453,000.; Project is ongoing since 2012. Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Valencia County, NM Detention Center Structural Analysis and Assessment	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tectonic was retained by Valencia County, NM to perform a structural analysis and assessment of the Valencia County Detention Center. The analysis and assessment included all existing live and dead loadings placed on the structure to determine possible failure modes for the reinforced concrete beams and floor joist; reinforced concrete bearing walls and steel framing for roof structure. Compensation: \$14,750.00 Completed in 2014. Project Manager/ Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Small Cell Turnkey Services: A&E Design, & Construction Management. Throughout Arizona, and New Mexico	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Turnkey Services include: Project Management, Site Acquisition, A&E Engineering, Structural Engineering, and Construction Management. Functions include but are not limited to analysis of site, identification/submittal of permitting regulations, project coordination with land/site owners and jurisdictions, production of zoning and construction drawings for site build. Tectonic has provided services for over 70 sites. To date project compensation: \$ 1,631,000. Project is ongoing since 2013. Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> New Build Turnkey Services: A&E Design & Construction Management. Throughout Arizona, New Mexico, Texas, & Nevada	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Turnkey Services include: Project Management, Site Acquisition, Structural and A&E Engineering, Geotechnical Engineering, and Construction Management. Functions include but are not limited to soils testing, building and structure analysis, design and formulation of tower specifications including specialty structures, design and submittal of permitting drawings, procurement of lease with ownership coordination. Service for over 100 sites. To date project compensation: \$3,000,000. Project is ongoing since 2012. Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729

STATE PROCUREMENT OFFICE
 Department of Administration
 100 North 15th Avenue, Suite 201
 Phoenix, Arizona 85007

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Verizon Wireless AWS Turnkey Services Throughout Arizona, New Mexico, Nevada, Texas		

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Verizon Wireless	Various- Assigned as needed	\$1,453,000.00 - on budget

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

Tectonic has been retained by Verizon Wireless since 2012 to provide Turnkey Services including Project Management, Structural Engineering, Site Acquisition, Engineering Services, and Construction Management Services for the AWS deployment. Tectonic has been providing services for over 250 sites that includes the following:

- Program Management
- File Audits
- Physical Site Audits/Design Inspections
- Constructability Review
- Structural Analysis for Tower / Buildings
- Leasing
- Building Permit Application
- Preparing Bid Packages/Conducting Bid Walks
- Preparing Bill of Materials
- Bid Review and Reporting
- Construction Management
- Close Out Documentation
- Zoning and Construction Engineering Plan Preparation
- Zoning/Municipal Permitting

Ongoing project since 2012, assignments released as needed



ATTACHMENT I – General Qualifications

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Valencia County, NM Detention Center Structural Analysis and Assessment	2014	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Valencia County, NM	\$50,000.00	\$14,750.00 under budget

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Tectonic was retained by Valencia County, NM to perform a structural analysis and assessment of the Valencia County Detention Center. The analysis and assessment included all existing live and dead loadings placed on the structure to determine possible failure modes for the reinforced concrete beams and floor joist; reinforced concrete bearing walls and steel framing for roof structure.



ATTACHMENT I – General Qualifications

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**STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
A/E Design of Public Safety Microwave Network Throughout Arizona	2014	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
GovNET, Inc.	\$50,000.00	\$37,000.00 under budget

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

Tectonic worked with GovNET, Inc. as the primary A/E design engineering firm for the development of a Public Safety Microwave Network throughout the State of Arizona. Under the Federal Government American Recovery and Reinvestment Act (ARRA) and the National Telecommunications and Information Administration (NTIA) Broadband Technology Opportunities Program (BTOP), GovNET, Inc. is responsible to deploy, install and operate a highly sophisticated digital microwave and fiber network to be utilized by government agencies, educational and health organizations and other broadband-centric users in areas now underserved by reliable and cost effective broadband or where no broadband access exists at all. The first phase will require design efforts for construction of 90 backbone and nodal microwave sites. Additionally, 400 nodes comprised of Points of Service to critical customers will also need to be completed. Approximately 20 sites.



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Geotechnical Drainage Design Richmond, VA	2014	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Richmond Public Schools	\$ Various (See below)	\$ Various (See below)

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

1. Swansboro Elementary School, Richmond, VA

Geotechnical Drainage Design - Original Budget: \$15,000.00
 \$14,825.00- under budget

Tectonic provided Geotechnical drainage design on existing Swansboro Elementary School building west wall. Site design sketch indicating drainage design patterns. The design consisted of a dry well design and new storm water design for school building.

2. Thomas Jefferson High School

Structural Review Football Field Sign- Original Budget: \$3,000.00
 \$2,850.00 - under budget

Tectonic provided analysis and design of a new football field scoreboard at Thomas Jefferson High School to include:

- Mounting frame support for football field scoreboard
- Geotechnical Investigation to include one boring at scoreboard location to determine bearing capacity, soil type and shrink-swell conditions
- Foundation Design
- Construction Drawings
- Construction monitoring of steel, concrete, etc. as specified from design



ATTACHMENT I – General Qualifications

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Phoenix, Arizona 85007

6. ADDITIONAL INFORMATION

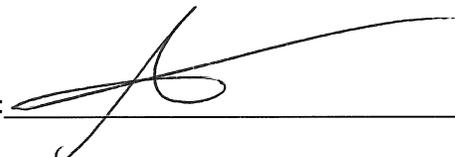
a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS.
(ATTACH ADDITIONAL SHEETS AS NEEDED.)

* Additional information of Tectonic Engineering provided as second attachment

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	52%
b. Percentage of Total Work Attributable to Non-Government Work:	48%

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: 

Date: 12-12-14

Name: John Stevens

Title: Manager of Professional Services



TECTONIC

Practical Solutions, Exceptional Service

MUNICIPAL SERVICES





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Corporate Profile



Tectonic Engineering & Surveying Consultants P.C. (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, homeland security and site acquisition specialists, surveyors, planners, and construction managers and inspectors. The depth of experience combined with the multi-faceted capabilities of our staff presents a company that is highly qualified to accomplish projects from concept to completion. Our approach to the management and administration of these projects is grounded in the basic best practices that have proven to deliver successful quality projects time and again. Tectonic has been in business for over twenty five 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 156 and 14 in telecommunications.



Tectonic's Goals, Mission Statement and Philosophy

Tectonic has been guided by a focused philosophy since the firm's beginning - vision, integrity and technical expertise.

Simply put, Tectonic's goals are to:

- Maintain the highest standard of quality on each and every project.
- Complete projects within budget and on-time.
- Exceed our Clients' expectations.

Tectonic's success stems from a philosophy of providing clients with superior service through a staff of quality-minded professionals. Our goal is to transform our client's needs into reality. Our stated mission is: *"Ensure our client's success by providing practical solutions and exceptional service."* Achieving this mission will be accomplished by utilizing resourceful, results-oriented professionals and technical staff employing up-to-date technology to develop innovative solutions that can meet all challenges. As we fulfill our mission, we look forward to fulfilling your professional service needs. When you choose Tectonic, you work with some of the finest professionals in the business - professionals who understand your goals and will use their skills and resources to work for you - professionals who will earn your trust and confidence, every day, every project.

Firm Background

Founded: 1986 | Staff: 500 | Website: www.tectonicengineering.com | Corporate Phone: 800.829.6531



Professional Registrations

Professional Engineering Registration in 49 States
Professional Planner
Professional Land Surveyor
Professional Geologist
Licensed Environmental Professional (LEP)
Licensed Site Remediation Professional (LSRP)

Certifications

Construction Inspection/Laboratory Testing

National Institute for Certification in Engineering Technologies (NICET)
AASHTO Certified Materials Testing Laboratory
Occupational Safety and Health Administration (OSHA) Certified
American Concrete Institute (ACI) Certified
US Army Corps of Engineers Certified Materials Testing Laboratory

Homeland Security

Sandia Risk Assessment Methodologies (RAM) technologies
Federal Emergency Management Agency (FEMA) Certified
ANSI/ASME-ITI/AWWA J100 RAMCAP® Standard for Risk and Resilience Management of Water and Wastewater Systems

Health & Safety

Cardiopulmonary Resuscitation (CPR) Trained/Certified
AMTRAK Trained/Certified
Metropolitan Transportation Authority (MTA) Trained/Certified
Comtrain Certified Tower Climbers

Awards

2014 Top 500 ENR Design Firm, currently ranked #156
2014 Top 20 ENR Telecommunications Firm, currently ranked #14
2014 Top ENR NY Design Firm by Market Sector - Telecommunications, ranked #1
2013 ACEC Silver Award for Engineering Excellence for the “Ridge Hill Village Development” project, Yonkers, NY
2013 ACEC Silver Award for Engineering Excellence for the “121st Police Precinct Station House” project, Staten Island, NY
2013 ACEC Silver Award for Engineering Excellence for the “Four World Trade Center” project, New York City, NY
2013 Zweig White Top 100 Hot Firm, ranked #65
2013 Trenchless Technology’s Top 50 Design Firm
2012 ACEC Diamond Award for Engineering Excellence for the “Phillipston – Rte. 2/2A Bridge Replacement and Rapid Build” project, Phillipston, MA
2011 ACEC Platinum Award for Engineering Excellence for the “NYCDDC - Central Park Police Precinct Renovation” project, New York City, NY



Tectonic Engineering Corporate Office

Office Locations



Corporate Headquarters:

70 Pleasant Hill Road, P.O.Box 37
Mountainville, NY 10953

Phone: (800) 829-6531

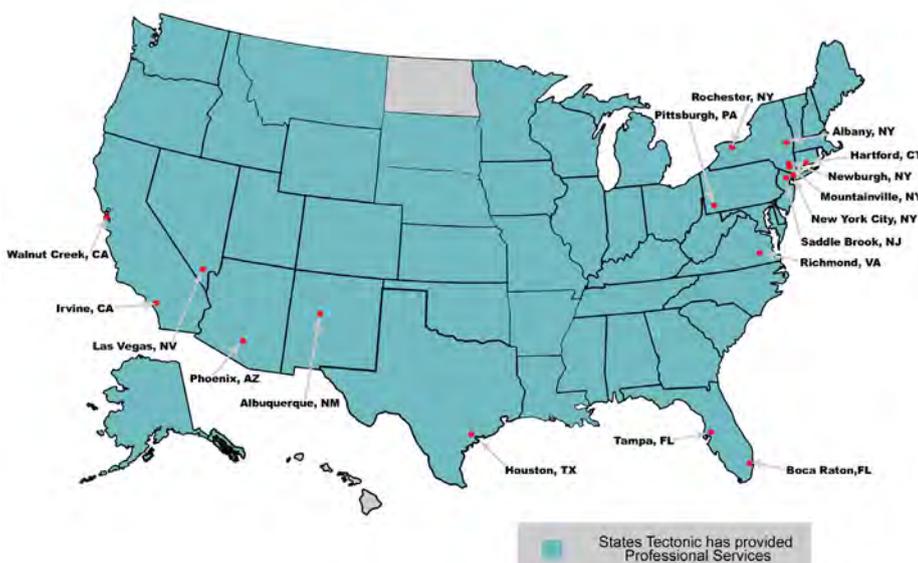
Fax: (845) 534-5999

www.tectonicengineering.com

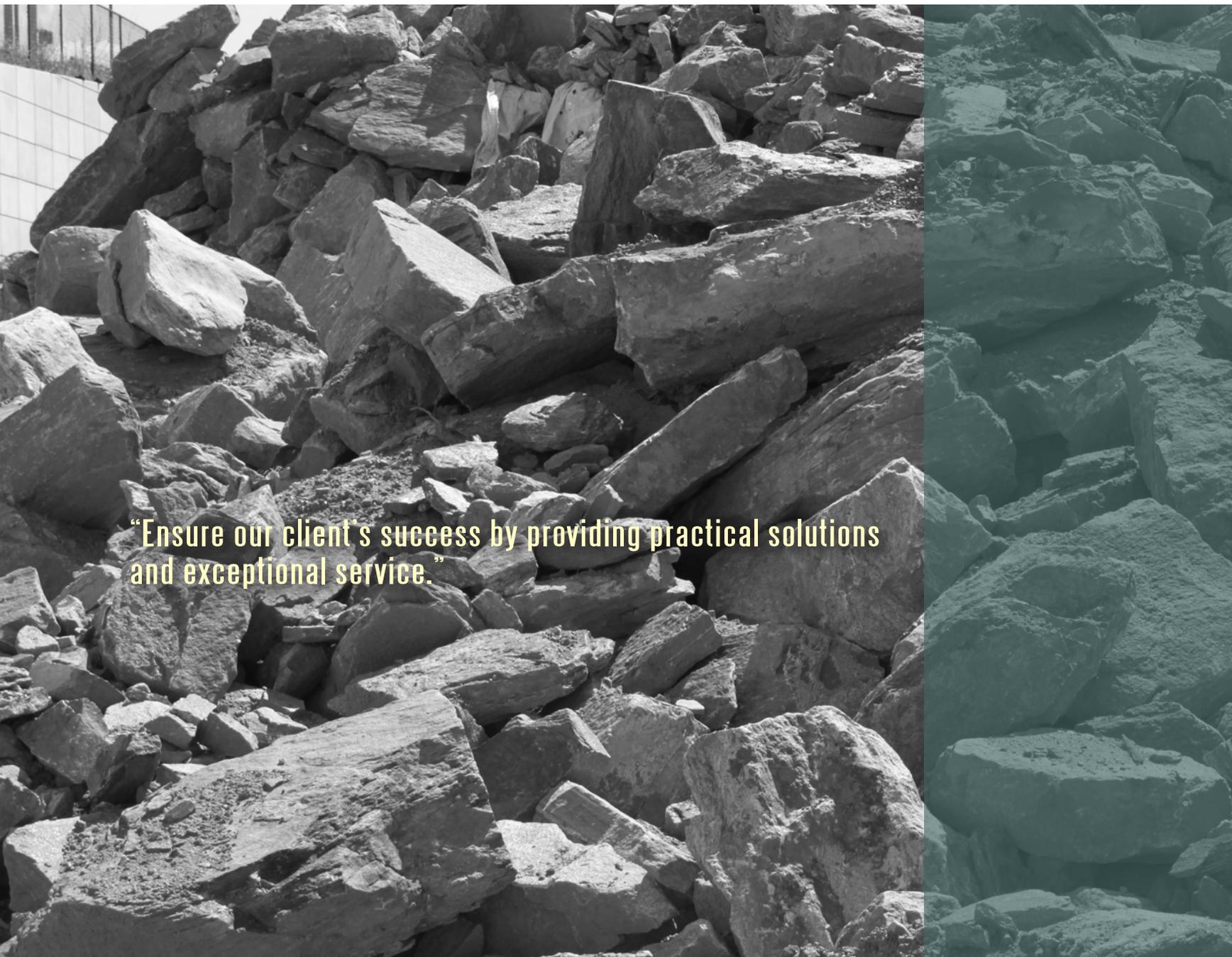
Additional Office Locations:

Albany, New York
Albuquerque, New Mexico
Boca Raton, Florida
Houston, Texas
Hartford, Connecticut
Irvine, California
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
Walnut Creek, California

“From Concept to Completion Coast to Coast”



Markets



“Ensure our client’s success by providing practical solutions and exceptional service.”

Markets



Telecommunication: Tectonic provides total turn-key services for the telecommunication and related industries including Wireless Deployments, Network Facilities, Data Centers, and Satellite Systems.

Transportation: Tectonic provides a broad array of professional services to transportation and public works agencies for the design and construction of aviation facilities, bridges and highways, mass transit facilities, ports and harbors, and vehicular and rail tunnels.

Energy: Tectonic provides engineering and a full range of professional services, for both private and public energy generation facilities and transmission infrastructure, pipelines, and Smart Grid solutions for renewable and fossil energy projects.

Institutions/Education/Healthcare: Tectonic provides complete professional services within the Institutional, Educational, and Health care sectors. Whether for private foundations, public agencies, or corporations, we integrate our approach to engineering by leveraging our broad array of professional services to produce a comprehensive solution for our Clients. From new facilities to expansion/modernization to support infrastructure, our professionals contribute expert guidance during all phases of the project.

Land Planning: Tectonic provides an integrated approach to land planning. Our planners and engineers have the capability to address issues necessary for the permitting and approval of residential, commercial, retail and industrial land planning projects.

Municipal: Tectonic provides engineering and planning services to municipalities; including roadway and bridge improvements, dams, water supply and sewer systems, public design and improvements, and stormwater.

Water Resources: Tectonic provides services for both public and private water resource projects in the following key areas: dams and reservoirs, source water development, stormwater and wastewater separation, wastewater treatment and collection systems, water storage facilities, water treatment and distribution facilities.



Municipal Services



“A focused philosophy since the firm’s beginning - vision, integrity and technical expertise.”

Municipal Services



Tectonic has been providing municipal services to Cities, Towns, Villages and Counties for over 25 years. As designated municipal planners and engineers we have completed the planning and design for a wide range of public infrastructure projects. Additionally, we have served on Planning Boards for both the environmental and engineering review of residential and commercial projects.

Tectonic's services include:

- Planning/Zoning Board Review
- Designated Municipal Engineer
- Designated Planner
- SEQR Compliance
- Environmental Impact Statements
- Infrastructure Design
- Park Planning/Design
- Grant Applications/Administration
- Planning/Design of Facilities
- Construction Management/Inspection

Planning and Zoning

Tectonic has provided professional planning and zoning services in support of the activities of the Municipal Board, Planning Board and Zoning Board of Appeals.

Services included:

- Subdivision Review
- Site Plan Review
- Environmental/SEQR Review
- Meeting Attendance
- Regulation/Code Updates
- Site Inspections



Municipal Services



Water Supply & Distribution

Tectonic provides services for both public and private water resource projects in the following key areas:

- Water Treatment and Distribution Facilities
- Water Storage Facilities
- Source Water Development
- Dams & Reservoirs
- Storm Water Control

Tectonic's additional related services provided for water supply infrastructure include:

- Hydrogeologic/Groundwater Studies
- Hydraulic Modeling
- Pump Tests/Well Development
- Security Engineering
- Vulnerability Assessments



Wastewater

Tectonic's wastewater experience focuses on collection and conveyances of sewer systems including gravity lines, force mains and pumping stations. Project experience has included the planning and development of capital sewer improvements to replace and/or upgrade existing facilities using advanced trenchless technology methods including in-place relining, directional drilling, jack & bore and use of micro tunnel boring machine (TBM). Other capital improvement programs have included the complete removal and replacement of existing pumping stations with modular components. Services include:

- Collection
- Pump Stations
- Treatment
- Design Standards

Municipal Services

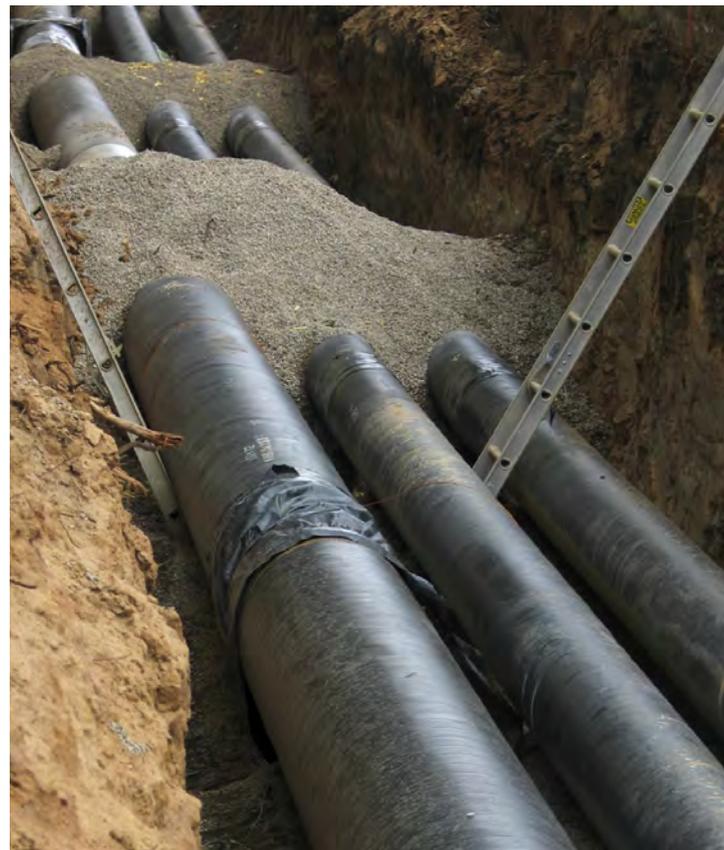


Drainage and Stormwater Management

Tectonic's experience with drainage improvements and development of storm water management plans and preparation of erosion and sediment control plans is extensive. Our civil staff has prepared numerous Storm Water Pollution Discharge Elimination Permit (SPDES) applications from single entity users to municipal facilities and understands the complexities and nuances involved with shepherding the application process right through to approval. Another focus of our capabilities involves the preparation of Storm Water Pollution Prevention Plans (SWPPP's). Preparation of SWPPP's has varied from the use of basic erosion and sediment control devices utilizing silt fencing and hay bales to very complex system involving detention systems employing extensive filtering capabilities. Our civil staff has participated in NYSDEC sponsored training seminars and is intimately familiar with state and Federal regulations governing the preparation and implementation of SWPPP's.

Services include:

- Stormwater Management
- MS4s Compliance
- Erosion Control
- Drainage Systems
- Hydraulic/Analysis/Design



Environmental

Our environmental staff has performed hundreds of Environmental Site Assessments to characterize the environmental setting of the property. Tectonic has performed a significant number of SEQR review's for sites.

- SEQR Review
- Environmental Impact Statements
- Environmental Site Assessments
- Wetlands Delineation
- Archeological and Historical Studies

Municipal Services



Municipal Buildings

Our staff offers a complete range of design services for public buildings. Services include space planning, facility layout, site design, structural analysis and foundation design, preparation of contract bid documents and construction support. Facilities we provide design services for include:

- Town Hall and Support Departments
- DPW Garages
- Salt Storage Facilities
- Transfer Stations
- SPDES Permitting for Fueling and Bulk Storage



Parks and Recreation

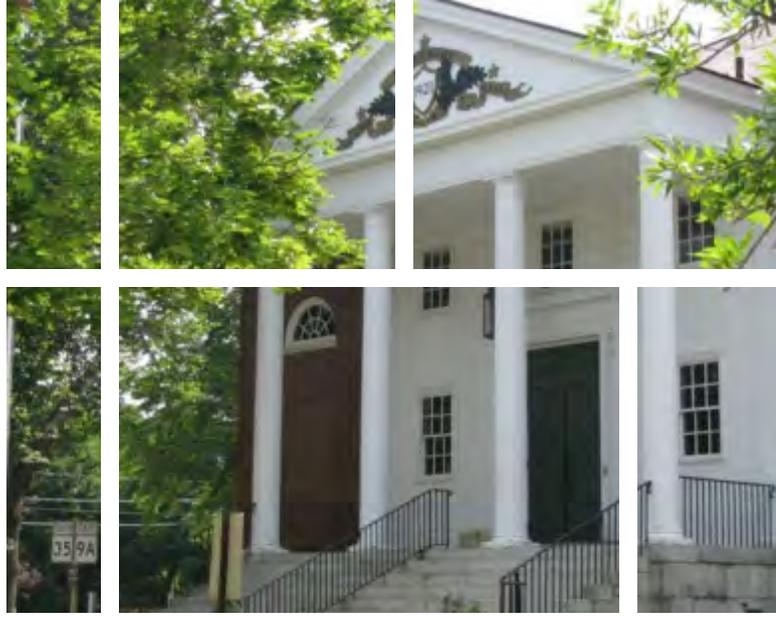
Tectonic's civil design staff includes civil engineers and landscape architects versed in the planning and layout of parks and recreation facilities. Capabilities include facility layout, grading and drainage, utility design, ADA compliance and landscape architecture.

Services include:

- Park Design
- Waterfront Revitalization
- Recreational Facilities
- Permitting and Grants



Municipal Services



Public Safety

Tectonic's engineers, security and emergency management specialists have been assisting municipalities nationwide in developing public safety programs.

Services include:

- All Hazards Emergency Mitigation and Response Planning
- Security Vulnerability Assessments
- Communication Planning
- Needs Assessments
- Training and Exercises



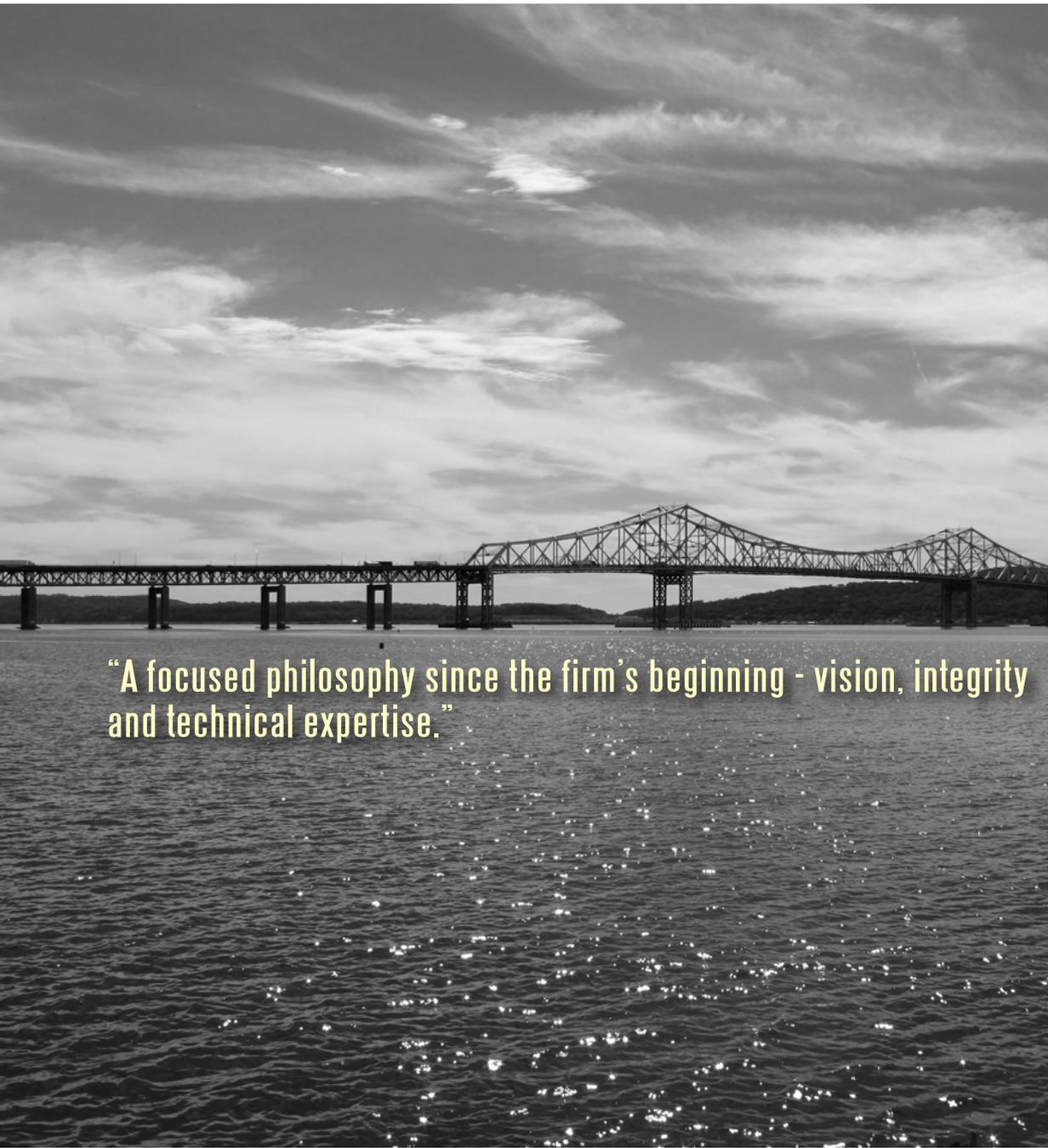
Construction Management & Inspection

Tectonic's construction management service includes contract administration, resident engineering, technical inspections, scheduling, planning, estimating and materials testing. Tectonic's construction inspection personnel are licensed professional civil engineers, engineering geologists and technicians who are certified in accordance with National Institute for Certification in Engineering Technologies (NICET), Levels I to IV, the American Concrete Institute (ACI), and the American Welding Society (AWS). Tectonic has provided on-site inspection, resident engineering, contract administration and materials testing service for various local municipalities. Services include:

- Resident Engineering
- Contract Administration
- Field Inspection and Testing
- Laboratory Testing
- Instrumentation and Monitoring Programs



Professional Services



“A focused philosophy since the firm’s beginning - vision, integrity and technical expertise.”

Civil Engineering

Geotechnical Engineering

Structural Engineering

Environmental Services

Land Surveying

Homeland Security

Real Estate Services

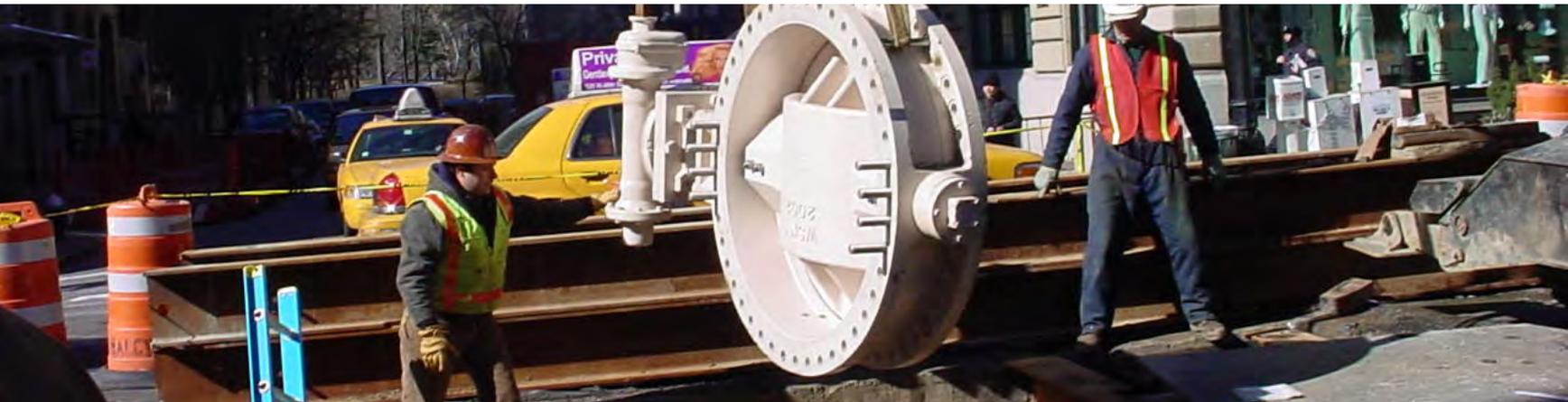
Program/Construction
Management

Construction Inspection &
Materials Testing

Civil Engineering



Tectonic's civil engineering experience encompasses a broad range of services from due diligence to preparation of contract plans and specifications. Tectonic provides an integrated approach to engineering, leveraging our array of professional services to produce a comprehensive solution. Our planners and engineers have the experience and capability to address all facets of the design, permitting, and approval of public and private sector projects. The integration of these services leads to a facility that meets the Client's performance criteria, complies with current regulations, maximizes utility, and is built in a timely and cost effective manner.



Civil Engineering Services

Cost and Feasibility Studies

Grading and Drainage Design

Hydraulic and Hydrologic Analyses

Infrastructure/Utility Evaluations

Landscape Planning and Design

Municipal Engineering

Regulatory Permitting/Compliance

Environmental Impact Studies

Roadway and Highway Design

Site Planning and Design

Stormwater Management Plans

Low-Impact Design

Transportation/Traffic Engineering

Visual Resource Renderings and Photo Simulations

Water Resource Investigation and Design

Water and Wastewater Systems Design

Wetland Delineation and Mitigation

Geotechnical Engineering



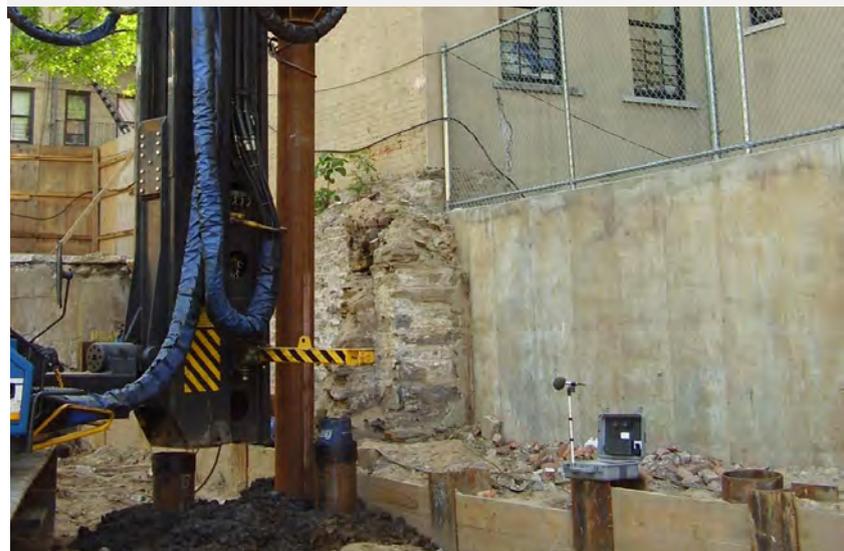
Tectonic's geotechnical engineering capabilities encompass a full range of services that include, subsurface investigation, foundation design, soils and rock laboratory testing and construction support. Tectonic has extensive geotechnical experience in both design and construction phase engineering, including the retail, commercial, high-rise and industrial markets. Our geotechnical services are provided by experienced technical staff members, capable of ensuring that our clients achieve the dual objectives of completing a project that is both technically feasible and economical even in adverse subsurface conditions.

Design Phase Services

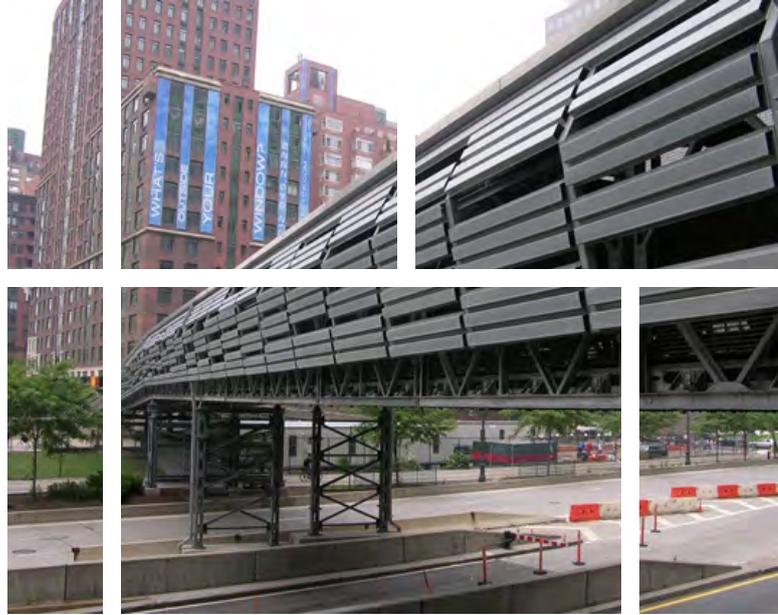
- Foundation Design and Analysis
- Subsurface Investigations
- Soil and Rock Mechanics
- Laboratory Soil and Rock Testing
- Groundwater and Hydrogeologic Studies
- Retaining Wall Studies and Design
- Seismic Analysis (including site specific)
- Ground Improvement Design
- Slope Stabilization Design
- Forensic Investigations
- Dam Inspection and Design
- Landfill and Solid Waste Design
- Mining Geotechnics
- Tunnels

Construction Phase Services

- Dewatering Systems
- Earth Support Systems
- Pile Load Test Monitoring and Evaluation
- Sub-Grade Evaluations
- Technical Consultation
- Underpinning Systems
- Value Engineering
- Monitoring Programs
- Vibrations and Blasting



Structural Engineering



Tectonic's staff has extensive experience in many aspects of structural engineering, including analysis, investigation, design and retrofit of new and existing structures. Our structural engineering capabilities encompass a full range of design services from analysis to preparation of construction drawings and specifications. Services extend beyond design to include construction support for temporary facilities, including: sheeting, shoring falsework, scaffolding, cofferdams and underpinning.



Structural Engineering Services

- Structural Design
- Structural Investigations
- Code Compliance Review
- Construction Support
- Feasibility Studies
- Forensic Assessment
- Plan Review
- Seismic Analysis

Structural Engineering Markets

- Commercial
- Industrial
- Institutional
- Bridges
- Buildings and Facilities
- Transmission Structures Design and Retrofit
- Communication Tower Analysis
- Earth Retaining and Underground Structures
- Construction Support
- Sheeting and Shoring
- Crane Loading Analysis
- Temporary Structures
- Specialty Fabrications

Environmental Services



Tectonic's staff of knowledgeable environmental engineers provide expertise in the environmental characterization of site conditions nationwide including the preparation and review of environmental impact reports and site assessments. Tectonic endeavors to educate its clients on the regulatory framework with which their project must comply with throughout the project and streamline the permitting process to result in timely projects performed in accordance with State, Federal and local regulations.

Recognizing our clients' needs to preserve and extend the usefulness of their limited resources; the precepts of sustainable design are embedded in Tectonic's design approach to ensure the availability of resources for tomorrow.



Environmental Services

Due Diligence

Phase I and II Environmental Site Assessments

NEPA Investigations and Reports

Environmental Impact Statements

Wetland Delineation

Wetland Mitigation Plans

Avian/Bat/Threatened and Endangered Species Assessments

Air Monitoring

Brownfield Redevelopment

Dredging Permits for Lakes and Waterways

Groundwater Development

Hydrogeologic Groundwater Modeling Investigations

Pump Test Evaluations

Remedial Design of Contaminated Sites

Solid Waste Landfill Closure Design

Underground Storage Tank (UST) Compliance

Archaeological Studies/Historic Resources Evaluation (SHPO)

Viewshed Visibility Analysis and Assessment

Licensed Site Remediation Professional Services (LSRP)

Land Surveying



Tectonic's staff is comprised of a diversity of survey crews, each having specific areas of proficiency in boundary, topographic, right-of-way, construction stakeout and global-positioning-systems (GPS) surveying. Our staff of multi-state licensed land surveyors and surveying technicians is fully equipped with state-of-the-art equipment and software, providing clients with fully automated services from the initial field visit to the final plat.



Field Services

- Acquisition/ROW
- Aerial Control
- ALTA/ACSM Land Title
- Certified Boundary
- Geodetic Control
- GIS Mapping
- Property Subdivision
- Route Surveys
- Topographic
- Wetland Delineation

Construction Support Services

Tectonic is known for its expertise in the construction industry. Our surveyors are responsive and can help bring any project to completion in a smooth and efficient manner.

Our surveying construction support services include:

- | | |
|----------------------|---------------------------|
| Anchor Bolt Location | Litigation Support |
| As-Built Plans | Steel Plumbness Surveys |
| Baseline Location | Tower Height Verification |
| Construction Layout | FAA 1A/2C Surveys |

Homeland Security



Tectonic's Homeland Security Group is an integrated team of security specialists and engineers that assist both the public and private sectors in securing critical infrastructure and key facilities against intentional malicious acts and by preparing operations for emergency response. Tectonic's team is uniquely qualified to perform security vulnerability assessments, hazards analysis, emergency planning, and training. Tectonic can develop a total program plan to increase your security, improve your emergency response and to reduce your potential risk and consequences.

Infrastructure Security Planning

Tectonic performs Vulnerability / Risk Assessments for critical infrastructure and other integrated services to evaluate potential acts against key assets.

Security Vulnerability Assessments (SVA)

Risk Assessments

Threat Assessments

Consequence Assessments

Needs Assessment / Gap Analysis

Security Master Plans

Critical Facilities / Assets Prioritization

Certified Training and Train the Trainer Programs

Emergency Management

Tectonic provides emergency response, operations and risk management plans:

Emergency Operations and Response Plans

Hazard Analysis

All-Hazard Mitigation Plans

Continuity of Operations Plans

Communication Plans

Evacuation Plans

Training, Drills and Table Top Exercises

Security Engineering

Tectonic's engineering and security specialists perform the detailed design necessary to develop an integrated design program.

Site Security Master Plan

Security Policies and Procedures

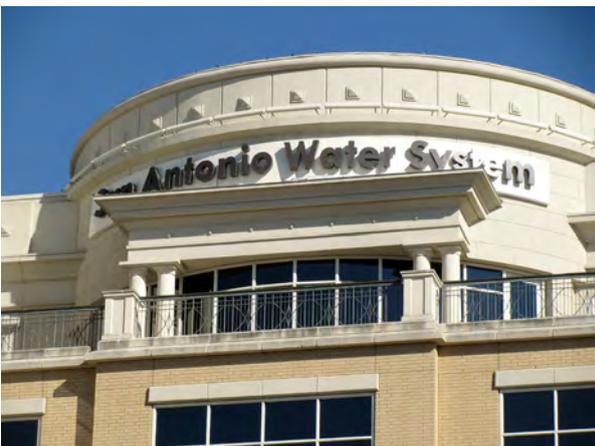
Security System Design and Integration

Security Design Standards

Guard Staffing and Post Orders

IT/Cyber Security Plans

Blast Load / Damage Analysis



Real Estate Services



Tectonic provides site acquisition and real estate services to multiple telecommunication clients in the public and private sector comprised of carriers, tower companies, public utility companies and municipalities. Tectonic offers a turnkey solution including services associated with new site builds, existing site modifications, distributed antenna systems (DAS), utility sites, temporary and permanent microwave, emergency stand-by generators, E-911 development, right-of-way (ROW) and fiber easements as well as site acquisition staffing. Services provided include site identification, site audits and due diligence, leasing, right-of-ways, easements, zoning analysis, municipal permitting (including zoning and planning applications, representation at public hearings, ETC) and building permit submittals. Tectonic's personnel are proven leaders in site acquisition, leasing and permitting and can interpret complex leases, navigate through the toughest zoning and planning jurisdictions and deliver the proper permits on time. Tectonic has met the acquisition challenges of acquiring sites nationally for over 25 years.



Site Acquisition Services

- Program Management
- Site Identification
- Site Visits
- Zoning Analysis & Permitting
- Due Diligence
- A&E Coordination
- Leasing
- Title Curatives
- Building Permits
- Electrical Permits

Program/Construction Management



With more than 25 years of experience in program and construction management, Tectonic offers a practical approach managing projects from concept to completion. Tectonic understands the daily demands associated with planning, administering and coordinating work as well as developing construction schedules and estimates; soliciting bids and proposals; and supervising contractors and sub-consultants. By deploying tailored resources to meet the demands of each client, our professionals provide turnkey solutions for large and small projects nationwide.

Construction Management Services

- Constructability Review
- Contractor/Subcontractor Scheduling
- Estimating
- Value Engineering Analysis
- Bid Packages and Bid Walks
- Construction Oversight
- Quality Control
- Cost Control/Change Order Compliance
- Shop Drawing Review
- Owner and Contractor Meetings
- Inspections and Testing Compliance
- Project Status Reporting

Program Management Services

- Implementation Planning
- Project Coordination with Design, Permitting and Construction
- Project Scheduling
- Budgeting & Turnkey Solutions
- Development and Maintaining Project Tracker
- Coordination of Professional Support Services
- Project Close Out Package

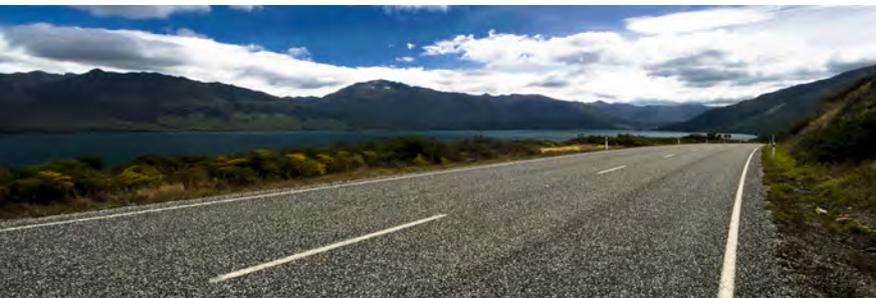


Construction Inspection & Materials Testing



Tectonic has experience with industrial, commercial, transportation and telecommunication projects providing construction management, technical inspections and contract administration.

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.



Construction Phase Inspection & Testing Services

- Blasting and Vibration Monitoring
- Claims Analyses
- Constructability Reviews
- Contract Administration
- QA/QC Programs
- Resident Engineering
- Technical Inspections

Special Inspection & Materials Testing Areas

- | | | |
|------------------|------------------------------|--------------------|
| Asphalt Pavement | Structural Cold-Formed Steel | Underpinning |
| Concrete | Masonry | Curtain Walls |
| Firestopping | Precast Concrete | EIFS |
| Fireproofing | Post-tensioned Concrete | Mechanical Systems |
| Roofing | Wood Framing | Sheeting, Shoring, |
| Soils Inspection | Pile Foundations | Boring |
| Subgrades | Pier Foundations | SWPPP |
| Structural Steel | Ground Improvements | Standpipe Systems |
| Rock Bolts | Tower Erection | Sprinkler Systems |



Tectonic Engineering & Surveying Consultants P.C.

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