



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:	Alpha Geotechnical & Materials Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2504 West Southern Ave
c. FIRM (OR BRANCH OFFICE) CITY:	Tempe
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85282
f. YEAR ESTABLISHED:	1998
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small
h. POINT OF CONTACT NAME AND TITLE:	Alf Wold
i. POINT OF CONTACT TELEPHONE NUMBER:	602-453-3265 ext. 132
j. POINT OF CONTACT E-MAIL ADDRESS:	awold@alphageotech.com
k. NAME OF FIRM (If block 1a is a branch office):	



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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
Civil Engineer	P	3	
Soils Engineer	P	1	
Technician/Analyst	P	22	
Total		26	



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

a. NAME James Weaver, P.E.	b. ROLE IN THIS CONTRACT Principal Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> <p align="center">Tempe, Arizona</p>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Arizona State University, 1976 B.S. Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Professional Civil Engineer, Certificate No. 12918 New Mexico Professional Civil Engineer, Certificate No. 9117	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Council of Engineering Companies, Arizona Chapter, American Concrete Institute (ACI), American Society for Testing and Materials (ASTM), National Association of County Engineers			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Northwest Extension Light Rail Transit 19th Avenue: Dunlap to Bethany Home Road (South), Phoenix, Arizona	(2) YEAR COMPLETED Ongoing
		Professional Services Testing and Inspection
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal Engineer working with the City of Phoenix on the 3 year construction of approximately 3 mile extension of the Northwest Light rail service . Scope of work includes onsite testing, observations and inspection services. Total contract value over 3 years is \$1,500,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Secure Borders Initiative (SBlnet Program), Border Fence, located throughout Southern Arizona	(2) YEAR COMPLETED 2010
		Professional Services Soils, Testing, Inspection
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal Engineer working with L-3 Communications on the 3 year construction of an electronic and surveillance fence on the border of Mexico and Arizona near Ajo. Scope of work included soils and materials testing, onsite testing, observations and inspection services. Total contract value over 3 years was \$4,517,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinto Creek Diversion Channel, Miami, Arizona	(2) YEAR COMPLETED 2009
		Professional Services Testing and Inspection
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal Engineer responsible for over site of materials sampling and testing in the construction of 5000 feet of a new channel at Pinto Creek near Miami, Arizona. Total contract value of \$115,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Siphon Draw Drainage Improvements, Phase I and II, Mesa, Arizona	(2) YEAR COMPLETED 2009
		Professional Services Testing and Inspection
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal Engineer responsible for over site of observation, sampling and testing in the improvements and construction of 2 phases of a detention basin located at Elliot and Meridian Road. Total contract value of \$59,500.00	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> White Tanks - FRS #3, Maricopa County, Arizona	(2) YEAR COMPLETED 2007
		Professional Services Soils, Testing, Inspection
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal Engineer responsible for over site of observation, sampling and testing in the construction of a Controlled Low Strength Material cutoff wall and placement of a Soil Cement Bank protection Structure at White Tanks FRS #3. Contract value of \$37,000.00	<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		b. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
Alf Wold, P.E.		Project Engineer		1. TOTAL 20	2. WITH CURRENT FIRM 10
d. LOCATION (City and State) Tempe, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) Brigham Young University, 1993, B.S. Civil Engineering			f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Professional Engineer, 2002 Certificate No. 34608		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Council of Engineering Companies of Arizona, American Society for Testing and Materials (ASTM) American Concrete Institute (ACI), Arizona Residential Post Tension Roundtable (ARPTA)					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Vistancia Blvd Central Arizona Project Canal, Peoria, Arizona	(2) YEAR COMPLETED 2014
		Professional Services Sampling, Testing, Inspection
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer responsible for the over site of testing, observation and inspection of a bridge spanning over the Center Arizona Project canal at Vistancia Blvd. Contract value of \$82,500.00	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Lafayette Interceptor Drain and Outlet, Phoenix, Arizona	(2) YEAR COMPLETED 2013
		Professional Services Testing and Inspection
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer responsible for the over site of testing, observation and inspection of storm drain construction and associated roadway improvements on Lafayette Blvd. between Arcadia and 44 th street in Phoenix. Contract value of \$82,500.00	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Sonoqui Wash Channelization Phase 3-A1 and 3-A2, Pinal County, Arizona	(2) YEAR COMPLETED 2010
		Professional Services Testing and Inspection
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer responsible for the over site of testing, materials sampling and inspection of the excavation and construction of channel and roadway improvements to Sonoqui Wash in Pinal County. Contract value of \$45,500.00	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Fillmore and 3rd Avenue Waterline Relocation, Phoenix, Arizona	(2) YEAR COMPLETED 2010
		Professional Services Testing and Inspection
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer responsible for the over site of testing, observation and inspection in the relocation of waterline at Fillmore and 3 rd Avenue. Contract value of \$35,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) GRIC Reverse Osmosis Water Treatment Facility, GRIC, Arizona	(2) YEAR COMPLETED 2009
		Professional Services Sampling, Testing, Inspection
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer responsible for the over site of materials sampling, testing and observation in the construction of a Reverse Osmosis Water Treatment Facility located within the Gila River Indian Community. Contract value of \$15,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm

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



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a. NAME Scott Randy Smith, P.E.	b. ROLE IN THIS CONTRACT Senior Geotechnical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 3

d. LOCATION (*City and State*)
Tempe, Arizona

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Arizona State University, 1986, Bachelor of Science Geological Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Professional Engineer, 1993, Certificate No. 26880
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g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
American Council of Engineering Companies of Arizona, American Society for Testing and Materials (ASTM)
American Concrete Institute (ACI), Arizona Residential Post Tension Roundtable (ARPTA)

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) ASARCO Ray Mine #4 Booster Station, Kearney, Arizona	(2) YEAR COMPLETED 2014
		Professional Services Soils and Geologic Studies
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Geotechnical Engineer performed a Geotechnical Subsurface Exploration including recommendations for the design of suitable foundation types, site grading and structural fill placement, moisture protection and construction considerations for the proposed construction of a new #4 Booster Station located at the ASARCO Ray Mine in Kearney, Arizona. Contract value of \$5,500.00	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) ASARCO Ray Mine F-Wash Storm Channel, Kearney, Arizona	(2) YEAR COMPLETED 2014
		Professional Services Soils and Geologic Studies
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Geotechnical Engineer responsible for the over site of advancing bore holes along the channel bottom to perform sieve analyses; Atterberg limit; pH and resistivity; soluble sulfate and chloride content testing at the F-Wash Storm Water Channel located at the ASARCO Ray Mine in Kearney, Arizona Contract value of \$6,408.00	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) APS 2300/69KV Underground Duct Bank, Tempe, Arizona	(2) YEAR COMPLETED 2013
		Professional Services Soils and Geologic Studies
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Geotechnical Engineer performed a Geotechnical Subsurface Exploration to provide geotechnical information on existing soil and fill conditions for the area of settling soils and landfill materials located beneath and adjacent to the existing 69 kV and portions of three 230 kV lines located at Rio Salado Parkway between Hardy Drive and 69KV Tower, east of Priest Drive, in Tempe, Arizona. Contract value of \$9,358.00	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Kiwanis Park – Light Poles, Tempe, Arizona	(2) YEAR COMPLETED 2012
		Professional Services Soils and Geologic Studies
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Geotechnical Engineer performed a Geotechnical Subsurface Exploration for the investigation of soils to a depth of twenty five feet below the existing pole site elevations for the proposed construction of sixteen light poles for the Soccer Field and Baseballs Field at Kiwanis Park located in Tempe, Arizona. Contract value of \$8,800.00	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Arlington Valley Solar Energy II Facility, Maricopa County, Arizona	(2) YEAR COMPLETED 2011
		Professional Services Soils and Geologic Studies
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Geotechnical Engineer performed a Geotechnical Subsurface Exploration including recommendations for the design of suitable foundation types, site grading and structural fill placement, moisture protection and construction considerations for the proposed construction of a solar power facility located near 366 th Avenue and Narramore Road in Maricopa County, Arizona. Contract value of \$26,685.00	<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	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
W. Rickey Kurtz, P.E.	Senior Project Manager	1. TOTAL 21	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i>			
Tempe, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>		f. PROFESSIONAL TRAINING - REGISTRATIONS	
University of Nevada at Reno, Nevada 1992, B.S. Civil Engineering		Arizona Professional Civil Engineer, Certificate No. 41259 California Professional Civil Engineer, Certificate No. 65150	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			
American Council of Engineering Companies of Arizona, American Society for Testing and Materials (ASTM) American Concrete Institute (ACI)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOT, Estrella Freeway SR 303L: US 60 (Grand Avenue) / SR 303L Interim Traffic Interchange., Surprise, Arizona	(2) YEAR COMPLETED Ongoing	Professional Services Soils, Testing, Inspection	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager on new traffic interchange. Responsible for overseeing observation and testing of the site grading, excavations, and construction materials testing of concrete, base course materials, and asphalt concrete Contract value of \$295,800.00	<input checked="" type="checkbox"/> Check if project performed with current firm		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOT US 60 / Meridian Road Traffic Interchange, Apache Junction, Arizona	(2) YEAR COMPLETED Ongoing	Professional Services Soils, Testing, Inspection	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager on new traffic interchange. Responsible for overseeing observation and testing of the site grading, excavations, and construction materials testing of concrete, base course materials, and asphalt concrete Contract value of \$48,260.00	<input checked="" type="checkbox"/> Check if project performed with current firm		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Westgate City Center, Glendale, Arizona	(2) YEAR COMPLETED 2006	Professional Services Testing and Inspection	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager on a multi-building shopping center. Responsible for overseeing observation and testing of the site grading, special inspection of footing excavations, and construction materials testing of concrete, masonry, base course materials, and asphalt concrete.	<input type="checkbox"/> Check if project performed with current firm		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Cardinals Stadium, Glendale, Arizona	(2) YEAR COMPLETED 2006	Professional Services Testing and Inspection	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for overseeing observation and testing of mass grading and MSE wall backfill, testing of utility trench backfills, and special inspection of footing excavations.	<input type="checkbox"/> Check if project performed with current firm		
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Tempe Center for the Arts, Tempe, Arizona	(2) YEAR COMPLETED 2007	Professional Services Testing and Inspection	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager on 89,000 square foot Center for the Arts. Responsible for overseeing observation and testing of the site grading, testing of construction materials including concrete, masonry, base course materials, and asphalt concrete, and special inspection of reinforced concrete, structural masonry, structural steel, and fireproofing.	<input type="checkbox"/> Check if project performed with current firm		



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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.)

<p>a. TITLE AND LOCATION <i>(City and State)</i> Soils and Materials Testing On-Call Consulting Services for the City of Phoenix</p>	<p>b. YEAR COMPLETED Ongoing</p>	
	<p>PROFESSIONAL SERVICES Soils, Testing, Inspection</p>	<p>CONSTRUCTION <i>(If applicable)</i></p>

23. PROJECT OWNER'S INFORMATION

<p>c. PROJECT OWNER City of Phoenix</p>	<p>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$900,000</p>	<p>e. TOTAL COST OF PROJECT \$900,000</p>
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Our services include geotechnical investigations and construction materials testing for infrastructure projects for the Street Transportation Department. We provide qualified technicians to perform the work of quality assurance on city projects including large scale paving jobs, sewer, water, storm drain, and municipal buildings.

Under the Soils and Materials Testing On-Call Consulting Services for the City of Phoenix, Alpha Geotechnical has been primarily servicing the Northwest Extension Light Rail Transit Project, on 19th Avenue from Dunlap Avenue to Bethany Home Road in Phoenix, Arizona. This \$327M project consists of approximately 3.2 miles of double track Light Rail Transit (LRT) primarily on 19th Avenue between Dunlap Avenue and Bethany Home Road. Construction will include three (3) stations (two center platform on-line stations on 19th Avenue: one near Glendale Avenue and one at Northern Avenue; and a terminus station adjacent to Dunlap Avenue), a concrete paved embedded track, three (3) traction power substations, LRT signals interlocking/track crossovers, and various LRT signals/communications. Since January 2012, Alpha has provided the lead technician for this project providing earthwork, concrete and asphaltic concrete materials testing.



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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> Soils and Materials Testing and Geotechnical Services for Salt River Pima-Maricopa Indian Community	b. YEAR COMPLETED Ongoing	
	PROFESSIONAL SERVICES Soils, Testing, Inspection	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Salt River Pima-Maricopa Indian Community	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$300,000.00	e. TOTAL COST OF PROJECT Ongoing
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Alpha's responsibilities include acting as the Community's agent on assigned projects in all matters of Geotechnical Engineering Services field observation and testing. Our services include providing Geotechnical Investigations for new construction of community buildings and infrastructure. We also provide qualified technicians to perform the work of quality assurance on community projects ranging from large scale paving jobs, to public buildings.



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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.)

<p>a. TITLE AND LOCATION <i>(City and State)</i> On-Call Quality Assurance Materials Testing Service for Flood Control District of Maricopa County</p>	<p>b. YEAR COMPLETED 2014</p> <table border="1"> <tr> <td data-bbox="987 457 1258 533">PROFESSIONAL SERVICES Soils, Testing, Inspection</td> <td data-bbox="1258 457 1559 533">CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>		PROFESSIONAL SERVICES Soils, Testing, Inspection	CONSTRUCTION <i>(If applicable)</i>
PROFESSIONAL SERVICES Soils, Testing, Inspection	CONSTRUCTION <i>(If applicable)</i>			

23. PROJECT OWNER'S INFORMATION

<p>c. PROJECT OWNER Flood Control District of Maricopa County</p>	<p>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$250,000.00</p>	<p>e. TOTAL COST OF PROJECT Ongoing</p>
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Alpha provides on-call services to the Flood Control District. Some of the recent representative projects include the Camelback Road large diameter storm drain in Phoenix and the Reems Road channel and retention basin upgrades and repairs in Glendale. Alpha also performed testing for a concrete lined channel at the White Tanks Mountain in West Phoenix. Our scope included field density testing, sampling of Portland cement concrete, and general field observation activities.



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6. ADDITIONAL INFORMATION

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

See attached file for additional information.

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:	39
b.	Percentage of Total Work Attributable to Non-Government Work:	61

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

Signature: Alf Wold

Date: December 23, 2014

Name: Alf Wold, P.E.

Title: Vice President



**Arizona State Procurement Office
2014
Annual Request for Qualifications and Experience**

Bid No. ADSPO15-00004729



Who We Are

Alpha Geotechnical and Materials, Inc. (Alpha) is an engineering consulting firm specializing in geotechnical environmental and materials engineering, construction materials testing and special inspection services. Alpha was incorporated on February 2, 1998 in Phoenix, Arizona. The company is a certified Small Business Enterprise (SBE) with the City of Phoenix, and is a verified service disabled veteran-owned small business (SDVOSB). Since its inception, Alpha has relied on great service and personal referrals for its success and growth.

Our philosophy has always been to give the very best customer services and treat our clients as partners. It is through these partnerships, we have found success. We are committed to establishing and maintaining long-term relationships and providing solutions. Our core values are Teamwork, Integrity, Respect, Responsibility, Accountability and Punctuality.

Our staff offers multi-faceted capabilities and expertise for a successful and cost-effective project. With the necessary experience, facilities, and resources to handle projects of any size, we are responsive and provide individualized service to each of our clients. We are committed to the highest standards of engineering excellence and have a true interest in providing your firm with superior engineering solutions in a timely and cost-effective manner.

Our commitment is maintained through a Total Quality Management System (TQMS) that serves as an integral part of our daily work ethic. We believe our success is a result of our solution-oriented approach, as well as, credible test results provided in a timely manner. Our philosophy inspired the creation of AlphaWeb – our company's leading-edge technology for communicating results and monitoring project management with a real time, web-based application. Using the technology, project details are communicated to all the partners - owners, consultants, contractors and jurisdictions – making communication of test results and project budgets available throughout the project has proven to be a key component to a successful project completion.

Alpha professionals are well respected by both local and regional municipalities throughout the Phoenix metropolitan area. We have worked with many of the jurisdictions in the greater Phoenix area to help them develop project testing frequencies and standards. We created our proprietary test schedule program in 2000 and continue to develop our technology. These developments serve as models for test result reporting within the industry. As a result of our technology, we lead the industry in producing real-time test results and a final product that fulfills the project-specific testing requirements for both the jurisdiction and our client.

Our Capabilities

Alpha provides a broad range of geotechnical and materials engineering services, environmental and materials testing, special inspection and quality control services for the design and construction of new projects, as well as, the investigation of existing structures. We provide accurate field and laboratory analysis in accordance with procedures established by ASTM, AASHTO, ACI, ICC, AWS, ASNT, ADOT and other national and local agencies.

Engineering and Testing Services Available:

- Foundation Investigation
- Earthwork Observation and Testing
- Special Inspection and Materials Testing
- Phase I and II Assessments
- Slope Stability
- Site Improvement and Ground Stabilization
- Pavement Analysis, Design and Remediation



With experience on hundreds of soil and foundation investigations across the southwest, Alpha professionals have worked on a diverse range of commercial, industrial, and infrastructure projects. Multi-story buildings, bridges, parking structures, roadways, retaining wall and impoundments are typical geotechnical investigation projects.

Expansive and collapsing moisture sensitive soils are common to the Southwest. These soils are an important concern for development. Alpha has extensive experience in both identifying and in developing mitigation for these problem soils. Our in-house geotechnical testing capabilities allow rapid evaluation of recovered soil samples.

We have developed design parameters and construction recommendations for foundations for both public and privately owned structures, including these typical projects:

- Commercial and Institutional Complexes
- Residential Developments
- Highways and Bridges
- High-Rise Buildings
- Power Plants
- Industrial Facilities
- Mining Projects
- Pipelines and Transmission Lines
- Airports Dams and Tunnels
- Solid/Hazardous Waste Disposal Sites
- Golf Courses
- Flood Control Projects

Alpha engineers are involved with construction observation and testing services during earthwork operations including placement and compaction of fills, over- excavation, placement of utility trench backfill and structural backfill for retaining walls and foundations.

Our field engineering technicians are certified to perform construction observation, testing, and compliance documentation. Because our technicians have multiple certifications, using Alpha for the Special Inspections and Materials Testing requirements on a project will maximize the efficiency of the budget for either on-call or full-time basis testing.

Materials Testing Services include the following:

- Asphaltic Concrete
- Shot Crete
- Grout and Mortar
- Concrete
- Masonry Block
- Soils – Admixtures and Special Applications

Special Inspection Services Include the following:

- Asbestos Surveys and Testing
- Structural Masonry
- Fireproofing Inspections
- Reinforced Concrete
- Pre and Post Tensioned Concrete
- Structural Steel and Bolting
- Welding



Key Personnel

Alpha has a full-time staff of engineers and engineering technicians experienced in geotechnical engineering, materials engineering, construction observation and special inspection, and materials testing services. Individual resumes are presented as an attachment to this Statement. Key individuals are listed below:

Mr. James Weaver, President, P.E., has over 30 years experience in geotechnical and materials engineering including construction on residential developments, energy facilities, roadways/highways, bridges and retaining structures. He has extensive experience in providing design services, construction quality control, and forensic investigations for major building, bridge and civil projects. As president and CEO of Alpha, Mr. Weaver is responsible for providing financial and technical management of all the company resources.

Mr. Alf Wold, Vice President, P.E., has over 19 years experience in materials engineering including design and construction. His area of expertise is materials testing and inspection of soils, masonry, concrete and asphaltic concrete. He is responsible for overseeing the laboratory and field operations. Mr. Wold's project experience consists of financial and technical management, consultation, evaluation and management of materials sampling, testing and inspection services of concrete and masonry structures, and concrete and asphaltic concrete pavements.

Mr. Scott Randy Smith, P.E., has over 20 years experience in geotechnical engineering and environmental site assessments. He is responsible for the Geotechnical Division and serves as the senior technical leader for geotechnical projects. His expertise includes soils investigations, phase I and phase II site assessments, drilling and sampling of soils for contaminants, UST removals and asbestos building inspection.

Mr. W. Rickey Kurtz, Senior Project Manager, P.E., has over 21 years of experience and a diverse background in construction materials testing, special inspection, and civil design. His experience encompasses the full spectrum of the fields having performed field special inspection and materials testing, laboratory materials testing, and civil design early in his career progressing to managing materials field and laboratory services, and project management.

Mr. William E. Sprague, C.P.A., serves as Alpha's Controller. He oversees the daily functions of the accounting department and provides management with daily financial analysis. He is also a key part of the Project Management process and supports Alpha Project Managers in their detailed review and tracking of project budgets. His financial analysis is a powerful management tool that enables corrections to be made, whether project-specific or company-wide, at the earliest possible point.





Our Laboratory Resource

Since 1998, Alpha's in-house laboratory facility has been fully accredited by AASHTO for Hot Mix Asphalt, Soils, Aggregate and Portland Cement Concrete. The lab is also accredited by the Arizona Department of Transportation (ADOT). These certifications require an in depth annual inspection of the equipment used for the test methods, calibration records, personnel qualifications and verification of procedures. In addition,



Alpha participates in a quarterly series of proficiency sample testing. These results are compared with all other nationally certified laboratories. These activities provide a continuing evaluation of our quality control efforts and add credibility to our laboratory test results.

Alpha provides unbiased, technical, accurate field and laboratory analysis in accordance with procedures established by ASTM, AASHTO, ACI, ICBO, AWS, ASNT, UBC, ADOT and other national or local agencies in order to meet the project's specific requirements. All of Alpha's laboratory services are conducted under the direction and management of a registered professional engineer.

Alpha's professional engineers and field engineering technicians can perform standard test methods or modify or develop new test procedures to fit the needs of any particular project.

Alpha 's Permeability Testing Equipment



Our laboratory and field testing capabilities are summarized below:

Earthwork & Soils Testing

- Field density determination
- Density of undisturbed samples
- Atterberg limits
- Moisture-density relationship
- Expansion/Consolidation
- Permeability testing
- Percolation testing

Aggregate Testing

- Liquid limit & plasticity index
- Percent passing No. 200
- Sieve Analysis
- Specific gravity & absorption
- Unit weight of aggregate
- Fractured face count

Concrete/Masonry Testing

- Compressive & flexural strength
- Mix design/verification
- Slump, air content, unit wt, strength
- Time of set yield & temperature
- Coring

Asphalt Testing

- Asphaltic density tests (nuclear)
- Tensile Strength Ratio (TSR)
- Density/thickness of asphalt by coring
- Extraction & sieve analysis
- Index of retained strength
- Marshall density, stability & flow
- Asphalt mix design
- Maximum theoretical specific gravity (Rice)



Our Technology

Alpha has invested a significant amount of time and effort in training our technicians in the use of laptop computers in the field to record data. As a result, we require a greater skill level of our field personnel to support all electronic processing of results. Alpha technicians can immediately transmit data to our network server from the field and simultaneously receive any new project information. This process closes the gap of working with outdated information between the field and the office and makes test results available for timely processing. This eliminates delays in reporting caused by the need for administrative data entry. Electronic processing provides a gateway to near real-time access to test results from any location at anytime via the web.

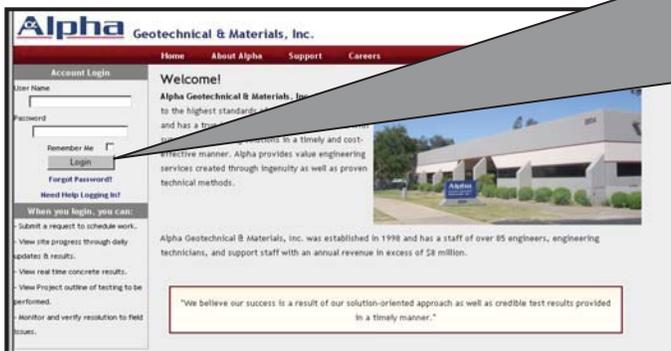
In addition to the electronic processing, Alpha created a proprietary web-based application called AlphaWeb. AlphaWeb provides our clients with direct access to test results within 24 hours of testing. The vision of AlphaWeb is to provide real-time test results and increase communication with clients in support of performing work. Each AlphaWeb authorized user is assigned a unique user id and password to have quick access to organized test results. In addition each project's website contains a deviation log which summarizes the results and items that are not in compliance with project specifications.

Alpha's recording and processing of results are completely electronic; therefore, we are capable of producing daily reports and making them available to the client at a near real-time basis. Alpha will provide access to all test results to the client's Project Manager (& others authorized) within 24 hours of the completion of testing at no additional charge via AlphaWeb. Hard copies of reports are available at an additional charge to the client at the completion of each site testing phase.

AlphaWeb also provides greater access to scheduling Alpha's services via the web. AlphaWeb provides our clients with the ability to submit a scheduling request from any computer with an internet connection anytime of the day. AlphaWeb supports Alpha's desire to establish a long-term relationship with our clients by meeting their project management needs, timely reporting and monitoring of results.

Specific, limited access can be made available to all authorized third parties, such as consultants, suppliers, municipal partners. Using the technology, project details are communicated to all the partners - owners, consultants, contractors and jurisdictions. Making communication of test results and project budgets available throughout the project has proven to be a key component to a successful project completion.

AlphaWeb = Real-Time Access to Test Results



- When you login, you can:**
- Submit a request to schedule work.
 - View site progress through daily updates & results.
 - View real time concrete results.
 - View Project outline of testing to be performed.
 - Monitor and verify resolution to field issues.



AlphaWeb Attributes	Benefits
Project information is organized into categories such as project phases, scopes, sub-scopes and test result types.	Provides Project Managers a supportive project management tool for easily obtaining test results.
Scheduling is available through the web.	Offers Project Managers the ability to schedule multiple requests for work in advance and at their convenience 24/7.
Alpha's quality control plan is available for each project/scope.	Increases project awareness and communication between all involved project partners - Owners, Consultants, Contractors, Suppliers, Jurisdictions, etc.
Client contact information can be viewed and managed for specific user access in authorizing specific access to project information on an individual basis.	The Client can manage user specific access and authorize other project parties to view allowed project information. An example of this feature is the Client to shares only the information they want with subcontractors.
Electronic copies of plans, geotechnical investigations, proposals, and contracts are available online and kept current in the field tablet computers for each project.	Any Alpha field technician can seamlessly provide service to any project because their computers have all current project information. Additionally, the Client's Project Manager is provided with easy access to all project documents.
Each project lists the assigned Alpha Project Manager and Professional Engineer as well as their direct contact information. In addition, a management directory is available at login.	The Client has direct access to all Alpha personnel available for assistance as needed. Email links and cell phone numbers make communication easy.
Each project has a Deviation Log. A Deviation Log itemizes any discrepancies identified in the field along with a record of the resolutions.	The Client can quickly review and ensure that all noncompliant issues have been resolved by clicking on the Deviation Link. The Deviation Log communicates all items that failed to meet the specified requirement and were unresolved on the same day. Outstanding items are identified in red highlight with blank resolution columns.
Each project's percent progress is tracked for each scope on a daily basis.	The Client can view the amount of trips/tests performed to date in relation to the amount proposed. This information alerts the Client on the project % complete and helps initiate dialog on change orders or plans to proceed.
All project concrete cylinder break results are listed in a table with real-time results.	As concrete is broken in our lab, the test results appear on AlphaWeb. The Client is immediately aware of Non-Conformance concrete cylinder breaks and is able to handle any field issues or resolutions right after the scheduled break date.
All other tests results are available within 24hours of the completion of testing.	The Client can monitor and track field and lab test results on a near real-time basis.
Final reports are available for download for each project phase/scope within 5 days of last test date.	The Client can easily locate the referenced final reports and download or print reports at their convenience.