



Offer and Acceptance

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

SOLICITATION NO.: ADSP016-00005912 Request
for Qualifications: 2016 Annual Professional
Services List

PAGE
1

Offeror: Strand Associates, Inc.

OF
1

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

Strand Associates, Inc.

Company Name

4602 E. Elwood Street, Suite 16

Address

Phoenix, AZ 85040

City

State

Zip

baird.fullerton@strand.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Matthew S. Richards

Printed Name

Corporate Secretary

Title

Phone: 602-437-3733

Fax: 480-858-0204

By signature in the Offer section above, the Offeror certifies:

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization IS/ X IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by the State.

This Contract shall henceforth be referred to as Contract No. ADSP016-00005916

The effective date of the Contract is March 1, 2016

The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order, contract release document or written notice to proceed.

State of Arizona
Awarded this 29 day of February 2016

Procurement Officer



ATTACHMENT I – General Qualifications
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

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:	Strand Associates, Inc.®
b. FIRM (OR BRANCH OFFICE) STREET:	4602 E. Elwood Street, Suite 16
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85040
f. YEAR ESTABLISHED:	1946
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	none
h. POINT OF CONTACT NAME AND TITLE:	Baird H. Fullerton, Director of Operations
i. POINT OF CONTACT TELEPHONE NUMBER:	602-437-3733
j. POINT OF CONTACT E-MAIL ADDRESS:	baird.fullerton@strand.com
k. NAME OF FIRM (If block 1a is a branch office):	Strand Associates, Inc.®



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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	-
CADD Technician	P	15	2
Civil Engineer	P	86	2
Construction Inspector	P	15	-
Construction Inspector	S	45	1
Control Systems Engineer	P	4	-
Electrical Engineer	P	18	-
Environmental Engineer	P	9	-
Environmental Engineer	S	41	-
Geographic Information System Specialist	P	1	-
Hydraulic Engineer	P	5	-
Landscape Architect	P	2	-
Mechanical Engineer	P	6	-
Sanitary Engineer	P	45	-
Sanitary Engineer	S	20	-
Structural Engineer	P	17	-
Technician/Analyst	P	14	3
Transportation Engineer	P	67	2
Water Resources Engineer	P	15	-
Water Resources Engineer	S	21	-
Other	P	59	3
Total	P	380	13



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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)
8	Bridges	3
6	Drainage	3
4	Electrical Design and Studies	3
2	Environmental Impact Statements or Studies	3
10	Highways; Streets	8
6	HVAC	3
2	Industrial Parks	2
50	Infrastructure	7
3	Landscape Architecture	1
4	Lighting (Streets, Athletic Fields)	2
3	Parks (Recreation Facilities)	2
6	Plumbing and Piping Design	3
2	Refrigeration Systems/Plants	2
8	Rehabilitation (Buildings, Structures, Facilities)	3
12	Sewage Collection and Treatment	6
15	Stormwater Management	5
5	Structural Design	4
20	Survey and Mapping	3
4	Traffic Studies and Transportation Engineering	4
12	Wastewater Treatment Facilities	7
8	Water Resources; Groundwater	4
15	Water Supply; Treatment and Distribution	4
4	Water Well Rehabilitation; Well Work	5

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	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Baird Fullerton, P.E., LEED® AP	Director of Operations/ Project Manager	1. TOTAL	2. WITH CURRENT FIRM
		24	18
d. LOCATION (City and State) Strand Associates, Inc.®; Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS - Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona P.E. #31109 Green Building Certification Institute: LEED® Accredited Professional	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) ACEC			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	On-going	On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 7,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. Project Manager for all Civil Engineering		
2.	Maricopa Community Colleges On-Call Engineering Services, FY 2005-2020 - Maricopa County, AZ	On-going	On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil engineering, surveying, and construction-related services on an as-needed basis since 2005. Our current agreement is through 2020. Task orders to date include: Rio Salado College Campus (RSCC) Existing Building Sewer Tap; RSCC Building Renovation; RSCC Fire Line Extension. Project Manager		
3.	Arizona State University Nelson Fine Arts Center (NFAC) Drainage Study - Tempe, AZ	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Historically, the NFAC has been subject to flooding, ponding, and other drainage issues during significant rainfall events. Prepared a drainage assessment to determine solutions for the NFAC and adjacent plazas and landscape areas. Topographic survey data was collected in key areas to better understand the drainage conditions and retention basin capacities. The results of the investigation, recommendations, and preliminary estimate of construction costs were described in a report. Project Principal		
4.	Friendship Park, Avondale, AZ	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil engineering services to design site grading, drainage, paving, water, and sewer infrastructure for the reconstruction of this 16-acre municipal park. Project Manager		
5.	Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. Camp Navajo Army Depot (located 11 miles west of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. Engineer of Record		



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

a. NAME Jimmy H. Tonthat, P.E., CFM	b. ROLE IN THIS CONTRACT Project Manager/ Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> Strand Associates, Inc.®; Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS - Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona P.E. #41975 Certified Floodplain Manager (CFM) No. US-09-04653	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Association of State Floodplain Managers (ASFM); ASCE; AZ Floodplain Management Association			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix Water Services, Mummy Mountain Waterline - Paradise Valley, AZ	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided engineering design and construction administration for 3,500 linear feet of new 3-inch diameter waterline (replacing an existing 2-inch line) as part of the City of Phoenix water system. Do to the steep rocky terrain, the waterline was constructed above ground to minimize impact to the native landscape. <p align="right">Construction-Services Project Manager</p>	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	(2) YEAR COMPLETED
		Professional Services On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 7,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. <p align="right">Drainage Engineer</p>	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Monte Vista Modular Building and School Playground - Phoenix, AZ	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Civil engineering site design for 0.14-acres to accommodate a new modular classroom building and playground area within an existing school campus. <p align="right">Civil Engineering Project Manager</p>	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> CDBG Street Improvements- Glendale, AZ	(2) YEAR COMPLETED
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering design services for 0.5 mile of roadway mill and overlay, along with sidewalk improvements along the Bethany Home Frontage Road (61st Avenue to 65th Avenue) and the 67th Avenue Frontage Road (Keim Drive to Peck Drive). The sidewalk improvements consisted of new pedestrian ramps, remove and replace existing sidewalk, curb and gutter, valley gutter, and signs. <p align="right">Project Manager</p>	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Arizona State University Nelson Fine Arts Center (NFAC) Drainage Study - Tempe, AZ	(2) YEAR COMPLETED
		Professional Services 2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Historically, the NFAC has been subject to flooding, ponding, and other drainage issues during significant rainfall events. Prepared a drainage assessment to resolve these issues. Topographic survey data was collected in key areas to better understand the drainage conditions and retention basin capacities. The results of the investigation, recommendations, and preliminary estimate of construction costs were described in a report. <p align="right">Project Manager</p>	<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 Jeff S. Held, P.E., PTOE	b. ROLE IN THIS CONTRACT Traffic/Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> Strand Associates, Inc. [®] ; Madison, WI			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS - Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona: P.E. #49207 Professional Engineer in WI, KY, OH, and IN National Professional Traffic Operations Engineer #1703	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Institute of Transportation Engineers (ITE)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	(2) YEAR COMPLETED
		Professional Services On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 7,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. Traffic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> HexCel Erwin Building Expansion Traffic Impact Analysis - Casa Grande, AZ	(2) YEAR COMPLETED
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE We were responsible for this traffic study to analyze the impacts of a proposed building and parking lot expansion for an industrial manufacturing facility. The new expansion adds 21,030 square feet and an additional 119 parking spaces. The study also evaluated the future facility expansion across VIP Boulevard with pedestrian crossing recommendations. Traffic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Beltline Environmental Impact Statement US 12 (US 14 – CTH N) - Dane County, WI	(2) YEAR COMPLETED
		Professional Services On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study of the safety and mobility improvements along the congested freeway corridor, which carries up to 128,000 vehicles per day. Analysis of the need for/impacts of traditional capacity expansion of the corridor as well as improving safety, reducing travel demand, improving or replacing interchanges, adding grade-separated crossings, improving nearby local road alternatives, and making travel by alternate modes more convenient. Traffic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> WIS 125 Needs Identification Study (CTH CB – WIS 47) - Appleton, WI	(2) YEAR COMPLETED
		Professional Services On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study of 4.5 miles of WIS 125 as a result of significant traffic volume increases, congestion, and delays. Included determining the remaining life of segments of the system, identifying operations issues, identifying safety issues, determining the need for and timing of reconstruction, and estimating costs for corridor and/or spot improvements. All study components will be National Environmental Policy Act (NEPA) compliant. Traffic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> US 45/WIS 100 Corridor Study (Puetz Road – Layton Avenue) – Milwaukee County, WI	(2) YEAR COMPLETED
		Professional Services On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study of 11-miles of a principal arterial highway, through 4 cities, encompassing 6-lane and 8-lane segments and projected traffic volumes of 50,000 vehicles per day. Involved in-depth traffic analysis, extensive public involvement, and development of numerous mainline improvement alternatives including traditional and innovative designs. Included 30 percent completion plans for the preferred alternatives for the entire corridor. Traffic Engineer	<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 W. Cory Steele, P.E.	b. ROLE IN THIS CONTRACT Traffic/Transportation Engineer	c. YEARS EXPERIENCE 1. TOTAL 2. WITH CURRENT FIRM 5 4	
d. LOCATION <i>(City and State)</i> Strand Associates, Inc.®; Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS - Civil Engineering Masters - Civil Engineering, Transportation		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona P.E. #60335	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> APWA Young Professionals Chair, ITE Member			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
1.	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 7,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. Traffic Engineer	Professional Services On-going	Construction (if applicable) On-going
		<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	HexCel Erwin Building Expansion Traffic Impact Analysis - Casa Grande, AZ (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE We were responsible for this traffic study to analyze the impacts of a proposed building and parking lot expansion for an industrial manufacturing facility. The new expansion adds 21,030 square feet and an additional 119 parking spaces. The study also evaluated the future facility expansion across VIP Boulevard with pedestrian crossing recommendations. Traffic Engineer	Professional Services 2014	
		<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Madison US 12 Planning and Environmental Linkage Study - Madison, WI (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Traffic engineering services were provided for this PEL project. Project covers approximately 20 miles of municipal freeway and adjacent intersections. The corridor was analyzed to identify long- and short-term needs along each interchange in order to identify the needs of the region to plan for future improvements. Intersection analysis included alternatives from signalized and unsignalized intersections to roundabouts, diverging diamonds interchanges, single point urban interchanges, and continuous and parallel flow interchanges Traffic Engineer	Professional Services On-going	Construction (if applicable) On-going
		<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	McKee Road Corridor Study - Fitchburg, WI (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Traffic engineering services were provided to the City of Fitchburg to analyze an approximately one mile corridor covering five intersections. The City expected heavy development along the corridor and hired Strand to analyze the corridor for needs. After analysis, recommendations included both four- and six-lane corridor options, updated signal timing, and intersection design layouts. Traffic Engineer	Professional Services 2015	Construction (if applicable)
		<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. Camp Navajo Army Depot (located 11 miles west of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. Project Manager	Professional Services 2014	Construction (if applicable)
		<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 Paul P. Quagge, R.L.S.	b. ROLE IN THIS CONTRACT Survey Manager/Land Surveyor	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Strand Associates, Inc.®; Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Associate of Engineering in Surveying and Highway Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona R.L.S. #51525	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> APLS – Arizona Professional Land Surveyors			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	On-going	On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement, related to a variety of site development and infrastructure projects, indoor and outdoor recreation spaces, seven new student housing facilities, classroom buildings; as well as a variety of utility and parking improvements across the campus. Provided several ALTA, topographic, and boundary surveys, plus legal descriptions Land Surveyor/Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	City Of Avondale On-Call Land Surveying Services - Avondale, AZ	2016	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provide land surveying services on an on-call, as-needed basis through June 2016. Task have included ALTA and topographic surveys. Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Hill Drive Redevelopment (Legacy Avondale) Phase II ALTA Survey - Avondale, AZ	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a follow up to our previous survey and engineering design services for the site, we prepared an ALTA survey for two parcels totaling 0.5 acres. Land Surveyor/Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	St. Luke's Medical Complex Expansion ALTA Survey - Phoenix, AZ	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE ALTA survey for a 2.7-acre parcel for a new building on an existing medical complex. The survey included an additional 0.4-acre easement associated with the parcel. Land Surveyor	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Maryvale Golf Course – Phoenix, AZ	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Strand has provided an array of surveying and civil engineering services for the redevelopment and redesign of Maryvale Municipal Golf Course. This includes grading and drainage and fire line plans for the construction of a new clubhouse, abandonment plans for onsite public sewer and public water main, private utility plans for a standalone on-course restroom, and construction layout staking for the building itself, surrounding hardscape, and utilities. In addition, survey staff provided elevations at key course elements such as greens, tees, and landings to aid the designer and contractor in re-grading the golf course. Land Surveyor	<input checked="" 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.)

a. TITLE AND LOCATION <i>(City and State)</i> Grand Canyon University Campus-Wide Expansion Program – Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES On-going	CONSTRUCTION <i>(If applicable)</i> On-going

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Grand Canyon University	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$3,600,000 (civil and survey fees to date)	e. TOTAL COST OF PROJECT \$776,000,000 (to date)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Since 2009, GCU has been implementing an aggressive growth plan on their main campus in Phoenix and a proposed campus in east Mesa. We have been retained to provide civil engineering and surveying services for more than 200 assignments. In addition to typical design issues, the University's expeditious schedules and the choreography of multiple overlapping projects resulted in nearly impossible concurrent deadlines, requiring a whirlwind of coordination. Sound design documents and quick turnarounds have been vital to meet our client's needs. Under both independent assignments and as part of the architectural design team, we have consistently exceeded the owner's expectations. Representative assignments have involved:

- Utility Inventory and topographic map for the entire campus that is being used as an improvement plan base map and has been essential for on-going campus planning and conceptual design efforts.
- ALTA Surveys, Legal Descriptions, and Easements for Land Acquisition/Access
- New 7,000-seat Arena & Exterior Event Spaces
- Intramural Fields and 2-acre Central Campus Retention Basin
- 20 acres of sports facilities including a Soccer Stadium, intramural fields, resident life sports fields, and sand volleyball courts
- Recreation Center
- Parking Lots & Garages - including more than 15 acres of surface lots and 5 parking garage structures
- Pedestrian and Bicycle Facilities that provide Fire Dept. Access and meet ADA requirements.
- GCU Traffic Impact Analysis and Intersection Improvements
- Student Housing - Land survey and civil engineering services for 15 new residence halls
- Classroom Buildings - Five new facilities designed and constructed in close proximity to other existing buildings.
- Satellite Campus Site Investigations and Due Diligence evaluation of several prospective sites
- Main-Campus Offsite Expansion - Civil engineering and survey assistance in support of the acquisition and development of multiple properties to the east of the original campus footprint.



*GCU Main Campus, footprint area highlighted, Phoenix.
 Top: prior to expansion. ©Google Earth, Imagery date 11/19/2009.
 Bottom: Present day (progress photo date 08/2015).*



ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**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> 7th Avenue, Baseline Road to Southern Avenue, Improvements – Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Phoenix	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$180,000 (fees)	e. TOTAL COST OF PROJECT \$6,400,000 (estimated)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

We provided engineering and survey services to improve 7th Avenue from Southern Avenue to the Salt River bridge through the City's General Engineering On-call contract. This included the development of construction documents for pavement removal/replacement, curb, gutter, sidewalk, and storm sewer improvements for about 2 miles along 7th Avenue from Southern Avenue to the Salt River bridge. We prepared legal descriptions and exhibits for the acquisition of additional right of way and temporary construction easements. The design incorporated much of the existing curb, gutter and sidewalk to minimize construction cost. Modifications were made to the existing pedestrian ramps to meet current ADA guidelines. Also included in the design were new catch basins connecting to the existing storm drain. Other challenges included extensive coordination with Utilities for the relocation of their facilities.

These plans also required coordination with the ongoing Avenida Rio Salado / Broadway Road (ARS) roadway design project for the roadway and storm drain improvements at the Broadway Road intersection. The project has not yet been constructed.



Photo of existing conditions. The intent of this project is to improve the safety and function of the roadway by widening the roadway and reducing the number of access points such as this parking lot.



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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> CG1207 Waterline Rehabilitation Project - Buckeye, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Buckeye	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$142,000 (fees)	e. TOTAL COST OF PROJECT \$828,123 (construction)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

We provided survey, engineering design services, an opinion of probable cost, construction documents, and construction-related services for several small waterline improvements totaling 5,380 linear feet of 6-, 8- and 12-inch waterlines, plus service connections. Specific sites included:

- Eason Avenue, MC85 to 10th St. (500 LF)
- Roosevelt Avenue, 6th St. to 7th St. (460 LF)
- Jackson Avenue, Miller Rd. to 5th St. (1,400 LF)
- Easement East of 4th Street, Monroe Ave. to Jackson Ave. (300 LF)
- 8th Street, Monroe Ave. to Centre Ave. (220 LF)
- Watkins Avenue, MC85 to 10th St. (350 LF)
- 7th Street, Roosevelt Ave. to Monroe Ave. (300 LF)
- Clanton Avenue, Miller Rd. to 5th St. (1,800 LF)
- Mahoney Avenue, 4th St. to 5th St. (50 LF)
- Miller Rd., Clanton Ave. to Centre Ave. (3 service connections)

Funding for the project was primarily provided through a Community Development Block Grant (CDBG). As a result, additional federal administrative requirements were applied to the project. A subconsultant provided the necessary cultural resources inventory (Class I and Class III) within the public rights-of-way for the project. We assisted with acquiring the necessary utility and right-of-way clearances as well as record maintenance during construction.

During the bid and construction phases of the project, our services included, attendance at a meeting, maintaining logs of correspondence, payments, change orders, submittals, etc. Furthermore, we: made weekly site visits to observe the progression of the project, developed record drawings, and provided the 1-year warranty inspection.



Waterline improvements noted on aerial photo.



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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> Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER AZ Department of Emergency and Military Affairs	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$500,000 (civil and survey fees)	e. TOTAL COST OF PROJECT TBD
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)



Existing conditions of various cinder roadways and trails within the facility boundaries.

Camp Navajo Army Depot (located 11 miles west of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. We were hired to develop an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. The development of an installation-wide Transportation Plan is necessary to establish a broad concept plan for roads, trails, and training features essential to support the United States military mission and training needs.

In addition to the installation-wide transportation planning effort, a more detailed plan is required for 4,700 acres of the site, identified as the Phase I Harvest Area. The plans and drawings developed as part of this project will provide for the implementation of planned forest treatments and the construction of roadways to allow for the harvest and removal of materials, while also meeting military mission needs. The ultimate objective for this and future phases is to implement planned forest treatments to reduce the risk of large-scale wildfires of severe intensity within the boundaries of Camp Navajo.

Due to the sheer number of roadways and trails throughout the base, the initial phase involved a detailed assessment of available records. Close coordination with the AZDEMA GIS was necessary to understand what data was available and what other resources could be utilized to fill any gaps. Once the data was compiled, it was consolidated into a single ArcGIS (v10.1) to allow for easy manipulation for the design of the roadways in the Phase I Harvest Area and to develop exhibits for the final transportation plan report.

The transportation plan and designs adhered to the guidelines of other planning documents previously prepared for the military facility:

- LTC-Light Environmental Assessment Plan
- Camp Navajo Forest Management Plan
- Camp Navajo Integrated Natural Resources Management Plan

Type of Roadway	Miles of Roadway
Paved Surface	63 miles
Compacted Cinder Surface	128 miles
Dirt Roads	136 miles

Roadway Inventory



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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> Allison Road Improvements (56th Street to Kyrene Road) - Gila River Indian Community, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Lone Butte Development Corporation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$258,500 (civil and survey fees)	e. TOTAL COST OF PROJECT \$2,450,000 (construction)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Our project team provided engineering design services for 1 mile of improvements within an active industrial complex and crossing a Pima-Maricopa Irrigation Project (PMIP) canal and a Union Pacific Rail Road (UPRR) line. The project included roadway widening (the addition of a lane and replacement of pavement along the entire section), improvements to the Allison Road and 56th Street intersection, as well as 0.5 miles of 12-inch water line and 1 mile of 12-inch sewer line replacements. Traffic control and maintaining access to the local businesses were key issues for this project. Coordination with LBIDC tenants and a well-thought-out traffic control plan were essential to maintain turning radii for truck traffic.

The project also required relocation of overhead and underground utilities, permits from both UPRR and PMIP, as well as coordination with the Gila River Indian Community Department of Transportation and Bureau of Indian affairs. We provided boundary survey and results of survey map for acquisition of road right-of-way. Obtaining the necessary ROW required extensive interaction with these agencies, LBIDC, the industrial tenants, and multiple-allotment property owners (unique to Native American lands). We also assisted the client in obtaining the PMIP permit for the water line crossing.

Construction-related services included attending the preconstruction conference, reviewing contractor's shop drawing submittals and pay requests, attending progress meetings, weekly site visits, and participating in the project closeout. During construction, we assisted the client in obtaining UPRR permits for the roadway, water line, and sewer line crossings. We also provided construction staking services.



The Allison Road improvements were completed 2 months ahead of schedule and 3 percent below estimated cost!



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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.)

STRAND ASSOCIATES, INC.® (STRAND) has been providing civil and environmental engineering and science services since 1946. We attribute our organizational strength to our talented engineers and scientists, effective management, and most of all, commitment to nurturing long-term client relationships. We offer a complete staff of engineers, landscape architects, surveyors and technicians who specialize in site and land development and water, wastewater, and transportation engineering. Our staff of 380 is located in 11 offices throughout the U.S.

Since 1982, our Phoenix office has built a successful track record of completing projects on time and within budget. We remain responsive to our clients' needs by maintaining an experienced, qualified staff; state-of-the-art technologies, including GPS and 3-D laser scanning; as well as the latest in hardware and software technologies for design, scheduling, and accounting.

Our Corporate Mission states that we are dedicated to helping our clients succeed through excellence in engineering. In accordance with this mission, we are continually expanding our staff and service offerings to broaden our base of experience and knowledge so that we can provide more creative and comprehensive solutions to our clients' needs.

Wide range of services to meet all project needs. Our areas of specialization include:

- Civil and municipal engineering
- Surveying
- Site and land development
- Water supply engineering
- Wastewater treatment and conveyance
- Architectural design & structural/facilities engineering
- Electrical and HVAC engineering
- Transportation engineering
- Environmental Assessments
- Stormwater management
- GIS and Information technology
- Construction -related services

More information on these engineering disciplines can be found on our web site, www.strand.com.

Reliable consulting service has cultivated long-standing client relationships.

Our clients rely on us as a partner in addressing their engineering and science needs. We have developed and maintained long-standing affiliations, many extending into several decades of service. For some clients, we serve as appointed engineers and are active committee members; for others, we serve as specialty consultants to their in-house staff on an as-needed basis. With all of our clients, our service is flexible and tailored to their unique needs.

Effective management practices provide a stable foundation.

To serve our clients effectively, we employ a horizontal project management structure. For each project, a principal engineer is assigned to provide technical and office resource support. Other day-to-day decisions, however, are made at the project level by the engineers most familiar and involved with the work.

Clients find reassurance in the fact that each of our engineers and scientists is supported by the expertise of a multi-disciplined engineering firm. This approach enables use of all our firm's resources while maintaining the personal involvement associated with a single-point-of-contact; a person who has been trained to provide assistance through planning, design, and implementation.

State-of-the-art facilities and technology allow us to maximize the level of effort applied to a project while minimizing cost. To better serve our clients' needs, we continually upgrade the technology at each of our offices and train our staff to use the latest tools available effectively. Our offices are comparably equipped with videoconferencing, which allows face-to-face communications, in real time, between our clients and our experts around the nation. The videoconferencing computers are integrated with our Local Area Network (LAN) and Wide Area Network (WAN), permitting direct digital sharing of drawings and files across the videoconferencing network. With ready access, we can collaborate our expertise without the added expenses of time and travel, resulting in more constructive design hours devoted to projects.

Innovative project management techniques produce quality, on-time, cost-effective projects.

To promote quality on our projects, we have developed an internal Quality Control (QC) program that focuses on applying quality peer review at each step of the design process. As each project is scoped, a Project Management Memorandum (PMM) is issued by the Project Manager that describes the individual QC plan for the project. By assembling the QC plan at project scoping, all team members are aware of the stages at which quality reviews will take place and can plan accordingly.



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Our corporate-wide scheduling system can give us up-to-the-day status reports on the schedule of every staff member at all of our offices. We can make a commitment to project schedules, because each month we know the 2-year work load of every employee.

High level of service made possible because of dedicated, results-oriented staff.

Only with solid management practices could a company in this industry establish such an impressive tenure. We are owned and operated by our active engineering staff.

2014 Staff Resources

<u>Total Staff</u>	<u>380</u>
Engineers/Scientists	253 (67%)
Other Professionals	41 (11%)
Technical Support	51 (13%)
Administrative Support	35 (9%)

Our expert staff of 380 employees represents the academic backgrounds and experience of all disciplines normally necessary to successfully complete a project. More than 50 colleges and universities are represented on our staff. Impressively, our engineers and scientists have an average of more than 10 years of experience and the majority are licensed or have advanced degrees. We understand the value our clients place on *consistency* of personnel and *continuity* in project development. Accordingly, we expend every effort to make sure that the team initially chosen is involved with a project from beginning to end.

Key Personnel	Role	Representative Projects									
		1	2	3	4	5	6	7	8	9	10
B. H. Fullerton, P.E., LEED® AP	Operations / Project Mgr.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
J.H. Tonthat, P.E., CFM	Project Manager/Engineer	✓	✓		✓	✓		✓	✓	✓	
J.S. Held, P.E., PTOE	Traffic/Transportation Eng.	✓								✓	
W.C. Steele, P.E.	Traffic/Transportation Eng.		✓		✓					✓	
P. P. Quagge, P.E.	Survey Manager	✓									✓
Projects Key (and location of project description within this document)											
1	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ (Pg 9)	6	Maricopa County Community Colleges On-Call Engineering Services - Maricopa County, AZ (Pg. 4)								
2	7th Avenue Improvements, Baseline Road to Southern Avenue - Phoenix, AZ (Pg. 10)	7	Mummy Mountain 3-inch Waterline - Phoenix, AZ (Page 5)								
3	CG1207 Waterline Rehabilitation Project - Buckeye, AZ (Pg. 11)	8	ASU Desert Arboretum Park - Tempe, AZ (Pg. 6)								
4	Camp Navajo Transportation Plan and Phase 1 Harvest Area Roadway Design - Bellemont, AZ (Pg. 12)	9	US 18/151/Verona Road ITS and Adaptive Signal Control Evaluation - Madison, WI (Pg. 7)								
5	Allison Road Street and Utility Improvements - Gila River Indian Community, AZ (Pg. 13)	10	City of Avondale On-Call Land Surveying Services - Avondale, AZ (Pg. 8)								

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:	87
b. Percentage of Total Work Attributable to Non-Government Work:	13

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

Signature: Date: December 18, 2015
 Name: Baird H. Fullerton, P.E., LEED® AP Title: Phoenix Director of Operations