



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: United Civil Group

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.

United Civil Group

Company Name

2803 N. 7th Avenue

Address

Phoenix

AZ

85007

City

State

Zip

sarah@unitedcivilgroup.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Sarah Simpson

Printed Name

President

Title

Phone: 602-265-6155

Fax: 602-265-6171

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/ 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. ADSP016-00005912

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

DEFINITIONS

Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services: Those professional services within the scope of the practice of those services as provided in ARS § 32-101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in ARS § 32-101(B.19.).

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS:

1. Complete this form for each branch office seeking work under this RFQ.
 - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
 - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
 - g. **Ownership.**
 - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
 - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
 - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
 - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
 - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select "Other". *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
 - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
 - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
 - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.



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

- b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
 - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has earned over the last year per Profile Code entered into the table.
4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
- a. Self-explanatory.
 - b. Self-explanatory
 - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch/office (block c2).
 - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
 - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
 - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
 - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
 - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.
5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.
- a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
 - b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
 - c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
 - d. Provide the original budget or not to exceed dollar amount for the project.
 - e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
 - f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.
6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.
7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.



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

8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes) for Question 2

- | | | |
|---------------------------|--|--------------------------|
| Aeronautical Engineer | Environmental Engineer | Mining Engineer |
| Agricultural Engineer | Environmental Scientist | Nuclear Engineer |
| Archeologist | Fire Protection Engineer | Petroleum Engineer |
| Architect | Geodetic Surveyor | Photogrammetrist |
| Architectural Engineering | Geographic Information System Specialist | Project Manager |
| Biologist | Geological Engineer | Sanitary Engineer |
| CADD Technician | Geologist | Soils Engineer |
| Chemical Engineer | Hydrographic Surveyor | Structural Engineer |
| Civil Engineer | Hydraulic Engineer | Technician/Analyst |
| Construction Manager | Hydrologist | Transportation Engineer |
| Construction Inspector | Industrial Engineer | Water Resources Engineer |
| Control Systems Engineer | Landscape Architect | |
| Cost Engineer/Estimator | Mechanical Engineer | |
| Ecologist | Metallurgical Engineer | |
| Electrical Engineer | | |

List of Experience Categories (Profile Codes for Question 3)

- | | |
|---|--|
| Acoustics, Noise Abatement | Dams (<i>Concrete; Arch</i>) |
| Aerial Photography; Airborne Data and Imagery Collection and Analysis | Dams (<i>Earth; Rock</i>); Dikes; Levees |
| Activity Centers | Desalinization (<i>Process and Facilities</i>) |
| Air Pollution Control | Design-Build - Preparation of Requests for Proposals |
| Airports; Navajds; Airport Lighting; Aircraft Fueling | Digital Elevation and Terrain Model Development |
| Airports; Terminals and Hangars; Freight Handling | Digital Orthophotography |
| Agricultural Development; Grain Storage; Farm Mechanization | Dining Halls; Clubs; Restaurants |
| Animal Facilities | Dredging Studies and Design |
| Anti-Terrorism/Force Protection | Design & Planning Structured Parking Facilities |
| Area Master Planning | Detention Security Systems |
| Auditoriums and Theaters | Disability / Special Needs |
| Automation; Controls; Instrumentation | Ecological and Archeological Investigations |
| Barracks; Dormitories | Educational Facilities; Classrooms |
| Bridge Design: Bridges | Electrical Studies and Design |
| Cartography | Electronics |
| Cemeteries (<i>Planning and Relocation</i>) | Elevators; Escalators; People-Movers |
| Chemical Processing and Storage | Energy / Water Auditing Savings |
| Child Care/Development Facilities | Energy Conservation; New Energy Sources |
| Codes; Standards; Ordinances | Environmental Impact Studies, Assessments or Statements |
| Cold Storage; Refrigeration and Fast Freeze | Fallout Shelters; Blast-Resistant Design |
| Commercial Building (<i>Low Rise</i>); Shopping Centers | Fire Protection |
| Community Facilities | Fisheries; Fish Ladders |
| Communications Systems; TV; Microwave | Forensic Engineering |
| Computer Facilities | Garages; Vehicles Maintenance Facilities; Parking |
| Conservation and Resource Management | Gas Systems (<i>Propane; Natural, Etc.</i>) |
| Construction Management | Geodetic Surveying: Ground and Airborne |
| Construction Surveying | Heating; Ventilating; Air Conditioning |
| Corrosion Control; Cathodic Protection Electrolysis | Highways; Streets; Airfield Paving; Parking Lots |
| Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting | Historical Preservation |
| Cryogenic Facilities | Hospital and Medical Facilities |
| Construction Materials Testing | Hotels; Motels |
| | <i>Housing (Residential, Multi-Family; Apartments; Condominiums)</i> |



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

Hotels; Motels
Hydraulics and Pneumatics
Hydrographic Surveying
Industrial Buildings; Manufacturing Plants
Industrial Processes; Quality Control
Industrial Waste Treatment
Intelligent Transportation Systems
Infrastructure
Irrigation; Drainage
Judicial and Courtroom Facilities
Laboratories; Medical Research Facilities
Land Surveying
Landscape Architecture
Libraries; Museums; Galleries
Lighting (*Interior; Display; Theater, Etc.*)
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)
Labs - General
Labs – Research – Dry
Labs – Research – Wet
LEED Accredited A/E
LEED Independent 3rd Party Building Commissioning
Mapping Location/Addressing Systems
Materials Handling Systems; Conveyors; Sorters
Metallurgy
Materials Testing
Measurement / Verification / Conservation Water Consumption Savings
Mining and Mineralogy
Medical Related
Modular Systems Design; Fabricated Structures or Components
Mold Investigation
Museums
Nuclear Facilities; Nuclear Shielding
Office Buildings; Industrial Parks
Outdoor Recreation
Petroleum and Fuel (*Storage and Distribution*)
Photogrammetry
Pipelines (*Cross-Country - Liquid and Gas*)
Phase I Environmental
Prisons & Correctional Facilities
Plumbing and Piping Design
Prisons and Correctional Facilities
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities
Radar; Sonar; Radio and Radar Telescopes
Radio Frequency Systems and Shielding's
Railroad; Rapid Transit
Recreation Facilities (*Parks, Marinas, Etc.*)
Refrigeration Plants/Systems
Rehabilitation (*Buildings; Structures; Facilities*)
Research Facilities
Resources Recovery; Recycling
Roof Infrared Imaging to Identify Water Leaks

Roofing
Safety Engineering; Accident Studies; OSHA Studies
Security Systems; Intruder and Smoke Detection
Seismic Designs and Studies
Sewage Collection, Treatment and Disposal
Soils and Geologic Studies; Foundations
Solar Energy Utilization
Solid Wastes; Incineration; Landfill
Special Environments; Clean Rooms, Etc.
Structural Design; Special Structures
Surveying; Platting; Mapping; Flood Plain Studies
Sustainable Design
Swimming Pools
Storm Water Handling and Facilities
Specifications Writing
Toxicology
Testing and Inspection Services
Traffic and Transportation Engineering
Topographic Surveying and Mapping
Towers (*Self-Supporting and Guyed Systems*)
Tunnels and Subways
Traffic Studies
Transportation
Urban renewals; Community Development
Utilities (*Gas and Steam*)
Value Analysis; Life-Cycle Costing
Warehouse and Depots
Water Resources; Hydrology; Ground Water
Water Supply; Treatment and Distribution
Wind Tunnels; Research/Testing Facilities Design
Waste Water Treatment Facility
Water Well Rehabilitation; Water Well Work
Zoning; Land Use Studies



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:	United Civil Group
b. FIRM (OR BRANCH OFFICE) STREET:	2803 N. 7 th Avenue
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85007
f. YEAR ESTABLISHED:	1997
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small Business
h. POINT OF CONTACT NAME AND TITLE:	Sarah Simpson, PhD, PE
i. POINT OF CONTACT TELEPHONE NUMBER:	602-265-6155
j. POINT OF CONTACT E-MAIL ADDRESS:	sarah@untiedcivilgroup.com
k. NAME OF FIRM (If block 1a is a branch office):	N/A

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

a. NAME Sarah Simpson, PhD, PE	b. ROLE IN THIS CONTRACT Project Principal	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 16
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, MS Civil Engineering – Transportation PhD Civil Engineering – Traffic Engineering (minor transportation planning)		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PE #32850	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) <i>FMS - SR202 (Santan) - Dobson Rd to Ray Rd – Chandler/Gilbert, AZ</i>	(2) YEAR COMPLETED	
		Professional Services 2015 - Projected	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sarah was the project manager for the project assessment and is currently the Principal overseeing UCG's ADOT Loop 202 FMS design project which will implement all of the planned FMS devices through the corridor as determined through the project assessment. This includes evaluating existing conduit and pull box integrity and the design and implementation of eight Dynamic Message Signs (DMS), ten closed circuit television cameras (CCTV), six ramp meters, seven mainline detector stations, and communications connections to five existing pump stations. \$460	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) <i>Wrong Way System – Phoenix, AZ</i>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sarah, in collaboration with Lee Engineering, completed the research effort to develop a wrong-way detection and warning pilot deployment plan. The research included defining the magnitude of wrong-way crashes in Arizona, a literature review of current practices throughout the nation and emerging technologies, the pilot deployment and a monitoring plan. \$49K	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) <i>Havasupai Tribe Long Range Transportation Plan – Havasupai, AZ</i>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This LRTP will provide a framework for the Tribe to make decisions about its transportation system. Two significant factors the Tribe faces regarding the integrity of the transportation system and its remoteness are: tourism and deliveries into Supai. Sarah is addressing the study objective that will achieve the goal of developing a meaningful Havasupai Indian Tribe Long Range Transportation Plan that guides Tribal Leaders by identifying priorities for developing an efficient transportation system and improvements for 5-, 10- and 20 year periods. \$216K	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) <i>MAG Traffic Signal Optimization – Maricopa County, AZ</i>	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sarah was the Project Manager in charge of two TSOP projects for MAG. The first, Indian School Road, involved collecting turning movement counts at the 19 signalized intersections along Indian School Road Optimization between SR 101L and SR 303L, reviewing the current signal timing plans, and optimizing a coordination plan along the corridor. The project also included field implementation of the signal plans and fine tuning of the coordination plans for optimum results. As a result, signal progression on Indian School Road has been significantly improved across 5 different jurisdictional boundaries.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) <i>Expert Testimony – Attorney General – Phoenix, AZ</i>	(2) YEAR COMPLETED	
		Professional Services 2013-Present	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sarah currently provides expert reports and services to the Arizona Attorney General's office. The work entails research efforts, data review, crash analyses and expert opinion. Over the last year, UCG has reviewed over 3,000 police records and developed easy to understand illustrations and tables that portray the magnitude of various types of crashes. \$35K (average)	<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.)

a. NAME David Kinnear, PE	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 13
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering – Transportation		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PE #45640	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Pima Road Signal and Lighting Design – Scottsdale/SRPMIC, AZ	2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Dave completed three new traffic signal designs, two existing traffic signal modifications, and street lighting plans along Pima Road between Indian Bend Road and Via De Ventura for the roadway improvements for the new Arizona Diamondbacks Spring Training Center - Salt River Fields at Talking Stick. Both the City of Scottsdale and the Salt River Pima Maricopa Indian Community (SRPMIC) had a stake in the review and implementation. \$34K	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	MCDOT Signal Timing – Maricopa County, AZ	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As part of our MCDOT On-Call Traffic Signal Timing Support Services contract, UCG collected peak-hour and mid-day turning movement counts at 54 signalized intersections located throughout the county. David used this data was to update the signal-timing base plans of each intersection to conform to the current MUTCD standards. Additionally, he field-measured crosswalk lengths, intersection lengths, and pedestrian ramp geometry at each location. \$46K	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Tombstone Highway Enhancements for Safety Report – Tombstone, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This HES study evaluated the need for pedestrian safety elements on SR80 from 3rd Street to 6th Street in Tombstone, Arizona and was comprised of major data collection efforts, analyses, and recommendations to make SR80 safer. For this project, David was responsible for all signing and marking designs along SR80. \$95K	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Signal, Signing, and Marking Design – El Mirage Road Roadwork: Northern Avenue to Cactus Road – El Mirage, AZ	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE David was one of the lead engineers tasked with designing signing and pavement marking plans, 3 traffic signal plans, 1 signal modification plan, and ITS plans on El Mirage Rd from Cactus Rd to just south of Butler Rd as well as half a mile on Olive Ave. \$106K	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	ADOT Statewide Ramp Counts – Arizona	Current	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Using TimeMark pneumatic tube traffic counters or non-intrusive video/radar traffic recorders, UCG is collecting data at 1,100 directional freeway ramp, arterial, and frontage road locations within the State of Arizona. As Project Manager, Dave is responsible for reviewing the raw volume data and uploading it to ADOT's Transportation Data Management System (TDMS). \$136K	<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.)

a. NAME Keith Winney, PE	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 11
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering – Transportation		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PE #50259	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	FMS - SR202 (Santan) - Dobson Rd to Ray Rd – Chandler/Gilbert, AZ	2015 - Projected	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith assisted with the project assessment and is currently UCG's project manager for the ADOT Loop 202 FMS design project which will implement all of the planned FMS devices through the corridor as determined through the project assessment. This includes evaluating existing conduit and pull box integrity and the design and implementation of eight Dynamic Message Signs (DMS), ten closed circuit television cameras (CCTV), six ramp meters, seven mainline detector stations, and communications connections to five existing pump stations. \$460	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Intel Fab42 Dobson Road Traffic Signal Design and ITS integration – Chandler, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project consisted of the design of traffic signals and signing/pavement marking plans at two separate intersections on Dobson Road at the location of the new Intel fabrication plant. Included in the traffic signal designs were the use of video vehicle detection, emergency vehicle pre-emption detection, PTZ (point-tilt-zoom) cameras, and integrating the new signals into the existing City of Chandler fiber optic network. Due to the urgency of the project and expedited City of Chandler reviews, Keith had to closely coordinate with the owner, construction company, civil plans designer, and City staff, to provide updated final plans on a tight schedule. \$74K	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Interstate 17 Sign Rehabilitation, SR169 to Rocky Park, Northern Arizona	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith worked as project manager for this Arizona Department of Transportation project which included sign rehabilitation for approximately 37 miles of Interstate 17 in Northern Arizona, including the freeway mainline and all crossroad interchanges. The sign rehabilitation updated the existing project corridor signage by removing, replacing, or designing for new signs, posts, foundations, offsets and mounting heights in accordance with the 2009 MUTCD and ADOT standards. The project plans included the signing plan sheets, sign summary sheets, and sign format sheets, to go along with the project Special Provisions and Engineer's Cost Estimate. \$171K	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	MAG Traffic Signal Optimization – Maricopa County, AZ	2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith was the lead engineer involved in the signal timing and coordination plans for 20 signals on Indian School Road from Loop 101 to Loop 303. This project required communication and coordination between five governmental agencies to optimize the corridor's signal timing and coordination plans. \$28K	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	On-Call Traffic Impact Mitigation Analysis Reports – Scottsdale, AZ	Varied/On-Call	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith was the project manager for this on-call contract to conduct traffic impact and mitigation analysis (TIMA) studies for the City of Scottsdale's Traffic and Transportation Department. Keith has completed several studies for a wide range of developments and their associated zoning change and/or conditional use permit requests. The studies include: trip generation analyses, crash history analyses, traffic signal warrant analyses, and roadway improvement recommendations.	<input checked="" type="checkbox"/>	Check if project performed with current firm

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> FMS - SR202 (Santan) - Dobson Rd to Ray Rd	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$460,205	e. TOTAL COST OF PROJECT \$460,205
--	---	---

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

This project is a continuation of a series of phased field implementation ADOT FMS projects in the Phoenix Metropolitan area and is referred to as Phase 14B. The project is located on the State Route (SR) 202 Loop (202L) Santan Freeway from Dobson Road to Ray Road. This project will be designed to reduce traffic congestion, improve motorist safety, and provide dynamic driver guidance. These improvements will be achieved by utilizing the existing trunk line conduit and pull box infrastructure coupled with the installation of new closed circuit television (CCTV) cameras, dynamic message signs (DMS), ramp meters, and mainline loop detector stations.

The scope of work for this project consists of the following:

- Installation of new CCTV cameras and associated support poles on the SR 202L at approximate one-mile intervals;
- Installation of new DMS along the eastbound and westbound SR 202L at approximate two to four mile intervals;
- Installation of new ramp meters at the SR 202L eastbound and westbound entrance ramps, where warranted.
- Installation of new conduit and pole foundations for future ramp meters where new ramp meters are not currently warranted;
- Application of new pavement marking at all ramp meter locations, no existing striping removal is anticipated;
- Installation of mainline loop detector stations along the eastbound and westbound SR 202L at approximate one-mile intervals;
- Connection of existing pump stations to the FMS fiber optic communications system;
- Connection of existing traffic signals at the SR 202L interchanges to the FMS fiber optic communications system;
- Installation of new trunkline Single Mode Fiber Optic (SMFO) cable for the length of the project on both the eastbound and westbound sides of the SR 202L mainline utilizing existing empty conduit;
- Repair of damaged existing conduit;
- Installation of new conduit, SMFO cable, and pullboxes to connect the trunkline conduit and SMFO cable to new and existing devices;
- Replacement of existing pull boxes as necessary; and
- Minor drainage improvements as necessary.

The project is currently scheduled to be advertised in mid-September of 2015 and is anticipated to last one year. All funds will be secured through the Federal Highway Administration. Construction will be administered by ADOT's Phoenix District.

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> Detection and Warning Systems for Wrong-Way Driving	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Lee Engineering/Arizona Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$49,000	e. TOTAL COST OF PROJECT \$49,000
--	--	--

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

The study is aimed at researching ways to detect a wrong-way driver and instantly inform them of their mistake. If the driver continues onto the highway, the system will automatically notify the ADOT Traffic Operations Center (TOC) and Arizona Department of Public Safety (DPS) of the wrong-way entry, track and monitor the errant driver on the highway system, and warn on-coming drivers of the wrong-way vehicle.

Wrong-way crash locations were analyzed to determine if there are trends in entry point locations and if one highway was more susceptible to wrong-way driving than another. Based on the information provided in the police reports, it was impossible to determine how or where wrong-way drivers entered the highway. Crash locations were sorted by highway to determine wrong-way crash per mile ratios on rural and urban highways. The rate of wrong-way crashes per mile was used as a means to standardize and compare the highways since each highway varies in length. The urban highway with the greatest wrong-way crashes per mile was Interstate 17 (I-17). The rural highway with the greatest wrong-way crashes per mile was State Route Alternate 89 (SR 89A).

A literature review was prepared to identify the magnitude of wrong-way driving on a national level, determine current wrong-way warning system deployments, understand countermeasure practices throughout the nation, and research new emerging technological advances to reduce wrong-way driving. The literature review shows that Arizona is no different than other states with regard to wrong-way crashes.

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> Havasupai Long Range Transportation Plan, Havasupai, Arizona	b. YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION <i>(If applicable)</i>	
--	--	--

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER Arizona Department of Transportation	d .ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$215,856	e. TOTAL COST OF PROJECT \$215,856
--	---	---

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

Under our ADOT Planning On-Call contract, UCG was tasked with completing this Long Range Transportation Plan (LRTP) for the Havasupai Tribe in northern Arizona. This LRTP developed specific roadway and transit projects that addressed the needs and deficiencies of the Tribe. Projects were prioritized utilizing accepted planning criteria based on need, performance, and known funding sources. Implementation and funding strategies were addressed for each individual project.

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> On-Call Traffic Signal Timing Support Services	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing/On-Call	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$250,000 – Total Contract Amount	e. TOTAL COST OF PROJECT N/A
--	---	-------------------------------------

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

As part of our 2013 MCDOT On-Call Traffic Signal Timing Support Services contract, UCG performed four tasks that include Signal Timing, the development of MCDOT's Signal Operations and Maintenance Program, and the signal timing and delay of the temporary signal at Tuthill Bridge.

UCG collected peak-hour and mid-day turning movement counts at 97 signalized intersections located throughout the county. UCG field-measured crosswalk and intersection lengths and pedestrian ramp geometry at each location. This data was then used by UCG engineers to update the signal-timing base plans of each intersection to conform to the current MUTCD standards.

Also under this on-call contract, UCG is preparing the MCDOT Traffic Signal Management, Operations and Maintenance Program. UCG is working with MCDOT traffic engineering staff to develop a Traffic Signal Program that reviews the current practices within MCDOT and develops an objectives-driven traffic signal program that addresses shortcomings and encourages coordination and interaction with the public. The program will also evaluate achievement objectives and strive to develop an outreach strategy for policy makers.

During the construction of the Tuthill Bridge, UCG developed signal timing and projected delay to inform motorists of possible delays at the bridge due to limited detour routes at the area.

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> Signal, Signing, and Marking Design – El Mirage Road Roadwork: Northern Avenue to Cactus Road	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$106,000	e. TOTAL COST OF PROJECT \$106,000
--	---	---

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

From 2011 through 2013 UCG worked closely with the City of El Mirage in providing traffic engineering design services for the major capital improvement project to widen and improve El Mirage Road from Northern Avenue to Cactus Road. Traffic flow improvements were designed for several signalized and unsignalized intersections within the 3-mile corridor. Conduit for fiber optic cable to control the City's future intelligent transportation system was designed. Signing and Marking plans were designed to safely transition traffic between existing and future phases of construction.

The project area was so large that the El Mirage Road Project affected 4 different on-going projects which were in various states of design and construction. UCG proactively reached out the other project teams to coordinate traffic-related issues such as tie-in points for the fiber optic conduits, traffic control during construction, and depicting on the plans the state of improvements of other projects the El Mirage Road contractor will encounter during construction.

This project presented an issue which is becoming commonplace as agencies become more creative in funding projects. The plans, specifications, and estimate were prepared to be bid and administered by MCDOT, but the actual improvements were designed according to COEM standards. This was sometimes challenging for MCDOT to review plans that were designed according to another agencies standards. As a result of coordination and active participation in comment resolution meetings *the project remained on-time and on-budget.* UCG's experience with cost-sharing projects funded in this manner was essential to this projects success.



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

6. ADDITIONAL INFORMATION

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

United Civil Group is registered with the Arizona Department of Transportation, the City of Phoenix, and the City of Tucson as a Disadvantaged Business Enterprise, DBE registration #3027. This registration complies with 49 CFR Part 26 of Federal Eligibility standards. As a DBE, UCG can fulfill the federal DBE participation minimum goals, however, we have been race-neutrally selected and gained years of experience as a prime consultant on many on-call contracts and projects, large and small.

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:	47%
b.	Percentage of Total Work Attributable to Non-Government Work:	53%

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

Signature: Sarah Simpson

Date: 12/14/2015

Name: Sarah Simpson

Title: _____