



# Offer and Acceptance

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

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

PAGE  
1

Offeror: Carollo Engineers, 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.

Carollo Engineers, Inc.

Company Name

4600 East Washington Street, Suite 500

Address

Phoenix

AZ

85034

City

State

Zip

JDoller@Carollo.com

Contact Email Address

Signature of Person Authorized to Sign Offer

John Doller, PE

Printed Name

Senior Vice President

Title

Phone:

602-263-9500

Fax:

602-265-1422

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

26

day of

February

2016

Procurement Officer



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP016-00005912

STATE PROCUREMENT OFFICE  
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**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:**

R

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

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ADSP016-00005912

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- 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.



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ADSP016-00005912

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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> |



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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 3<sup>rd</sup> 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



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(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:	Carollo Engineers, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	4600 E. Washington Street, Suite 500
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85034
f. YEAR ESTABLISHED:	1933
(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	John Doller, P.E.
i. POINT OF CONTACT TELEPHONE NUMBER:	602-263-9500
j. POINT OF CONTACT E-MAIL ADDRESS:	JDoller@Carollo.com
k. NAME OF FIRM (If block 1a is a branch office):	Carollo Engineers, Inc.



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

**STATE PROCUREMENT 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
Administrative	P	101	19
Architects	P	4	4
CADD Technicians	P	76	13
Chemical Engineers	P	8	3
Civil Engineers	P	164	23
Computer Personnel	P	14	5
Construction Engineers	P	4	2
Construction Inspectors	P	21	2
Construction Managers	P	14	1
Control Systems Engineers	P	29	1
Electrical Engineers	P	29	2
Environmental Engineers	P	170	20
Marketing	P	16	2
Mechanical Engineers	P	19	3
Sanitary Engineers	P	10	2
Structural Engineers	P	30	3
Word Processing	P	12	2
Other Employees	P	28	17
<b>Total</b>		<b>749</b>	<b>124</b>





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**ADSP016-00005912**

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

a. NAME  John Doller, P.E.	b. ROLE IN THIS CONTRACT  Project Director	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 31
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS Civil/Environmental Engineering BS Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer - AZ (#18672) Wastewater Treatment Plant Operator, Grade 2 - AZ	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Water Works Association, Water Environment Federation, AZ Water Association, Design-Build Institute of America, Water Design-Build Council, Construction management Association of America			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA State Prison Complex (SPC) 4,000 Prison Bed Facilities Expansion Yuma, Tucson, Goodyear, Arizona	(2) YEAR COMPLETED 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal-in-charge to expand the ASPC Yuma WWTP to 0.87 mgd to accommodate the addition of 2,000 beds and the total ASPC 4,000 beds. Expansion included new preliminary, secondary, and tertiary treatment systems. The project required an Aquifer Protection Permit to accommodate reject from the facility's reverse osmosis water treatment plant. Professional Services: \$3,107,409; Construction: \$12,418,527 (GMP).	Professional Services 2010
		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Albuquerque Bernalillo County Water Utility Authority Southside Water Reclamation Facility Solids Dewatering Facility, Albuquerque, New Mexico	(2) YEAR COMPLETED 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal-in-charge providing preliminary design for a new solids dewatering facility, preparing a Design Analysis Report (DAR), obtaining all of the necessary permits and site approvals, preparing a detailed design including construction bid documents, and providing engineering services during construction for a new solids dewatering facility. Professional Services: \$369,957; Construction: \$15,000,000.	Professional Services 2013
		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Prescott Airport Water Reclamation Facility Expansion Design and Construction Administration, Prescott, Arizona	(2) YEAR COMPLETED 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal-in-charge for the Phase 1 Expansion of the Prescott Airport WRF. Assisted in approximately 65% of the design for 3.75 mgd capacity, with the phased expansion planned for an ultimate capacity of 15 mgd. Because this Phase 1 expansion included a process change (from the existing oxidation ditches to activated sludge BNR) this project is essentially the first phase of a new treatment facility. Professional Services: \$2,279,710; Construction: \$35,000,000.	Professional Services 2012
		<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Airport Water Reclamation Facility Expansion to 15 mgd CMAR Phase 2, Chandler, Arizona	(2) YEAR COMPLETED 2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical advisor for Phase 2 that involved detailed design, permitting, and preparation of construction drawings for the expansion. Firm Cost: \$1,139,910; Construction Cost: \$76,700,000.	Professional Services
		<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Casa Grande Water Reclamation Facility Phase 3 Expansion, City of Casa Grande, Arizona	(2) YEAR COMPLETED 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical advisor for the study, permitting, and design to increase the existing facility capacity of 12 mgd. Project elements included a new mechanical system, addition of a fourth anoxic/aeration basin, process optimization of the BNR system, four new secondary clarifiers, new liquid sodium bisulfite dechlorination system, four new aerobic digesters, new biosolids handling building, and new PLC programming. Firm Cost: \$6,438,245; Construction: \$52,460,000.	Professional Services 2009
		<input checked="" type="checkbox"/> Check if project performed with current firm



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

a. NAME  Andrew Gilmore, P.E.	b. ROLE IN THIS CONTRACT  Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL  18	2. WITH CURRENT FIRM  9
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS Water Engineering BS Engineering Geology		f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer - AZ (#41462)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Water Environment Federation, AZ Water Association, Arizona Public Works Association			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA Lewis State Prison Complex (SPC) 500 Bed Maximum Custody Facility Expansion, Buckeye, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal-in-charge providing design and construction administration services including preliminary budget estimates, programming, site planning, schematic design, design development, contract documents and contract administration / management for the construction of a 500 Bed Maximum Custody Unit. Professional Services: \$179,987; Construction \$500,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA State Prison Complex (SPC) 4,000 Prison Bed Facilities Expansion Yuma, Tucson, Goodyear, Arizona	(2) YEAR COMPLETED 2010
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager to expand the ASPC Yuma WWTP to 0.87 mgd to accommodate the addition of 2,000 beds and the total ASPC 4,000 beds. Expansion included new preliminary, secondary, and tertiary treatment systems. The project required an Aquifer Protection Permit to accommodate reject from the facility's reverse osmosis water treatment plant. Professional Services: \$3,107,409; Construction: \$12,418,527 (GMP).	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Albuquerque Bernalillo County Water Utility Authority Southside Water Reclamation Facility Solids Dewatering Facility, Albuquerque, New Mexico	(2) YEAR COMPLETED 2014
		Professional Services 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for the Phase 1 Expansion of the Prescott Airport WRF. Assisted in approximately 65% of the design for 3.75 mgd capacity, with the phased expansion planned for an ultimate capacity of 15 mgd. Because this Phase 1 expansion included a process change (from the existing oxidation ditches to activated sludge BNR) this project is essentially the first phase of a new treatment facility. Professional Services: \$2,279,710; Construction: \$35,000,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Ocotillo WRF Expansion Design Phase, Chandler, Arizona.	(2) YEAR COMPLETED 2015
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical advisor for Phase 2 that involved detailed design, permitting, and preparation of construction drawings for the expansion. Firm Cost: \$1,139,910; Construction Cost: \$76,700,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Casa Grande Water Reclamation Facility Phase 3 Expansion, City of Casa Grande, Arizona	(2) YEAR COMPLETED 2012
		Professional Services 2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical advisor for the study, permitting, and design to increase the existing facility capacity of 12 mgd. Project elements included a new mechanical system, addition of a fourth anoxic/aeration basin, process optimization of the BNR system, four new secondary clarifiers, new liquid sodium bisulfite dechlorination system, four new aerobic digesters, new biosolids handling building, and new PLC programming. Firm Cost: \$6,438,245; Construction: \$52,460,000.	<input checked="" type="checkbox"/> Check if project performed with current firm



**ATTACHMENT I – General Qualifications**  
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**ADSP016-00005912**

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

a. NAME  Bryan Huey, P.E.	b. ROLE IN THIS CONTRACT  Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 21
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS Environmental Engineering BS Chemical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer - AZ (#33428)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Water Works Association, AZ Water Association, American Membrane Technology Association			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA State Prison Complex (SPC) 4,000 Prison Bed Facilities Expansion Yuma, Tucson, Goodyear, Arizona	(2) YEAR COMPLETED 2010
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Water task leader to expand the ASPC Yuma WWTP to 0.87 mgd to accommodate the addition of 2,000 beds and the total ASPC 4,000 beds. Expansion included new preliminary, secondary, and tertiary treatment systems. The project required an Aquifer Protection Permit to accommodate reject from the facility's reverse osmosis water treatment plant. Professional Services: \$3,107,409; Construction: \$12,418,527 (GMP).	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix Union Hills Water Treatment Plant Solids Handling Improvement Design Services, Phoenix, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Process design engineer for the design and construction administration and inspection services to increase solids treatment capacity and redundancy. The project involved an alternatives evaluation study, design of the selected improvements to enhance the solids treatment and removal from the water treatment process streams for final disposal. Professional Services: \$1,925,146	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Ak-Chin Indian Community Surface Water Treatment Plant, Maricopa, Arizona	(2) YEAR COMPLETED 2012
		Professional Services 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Start-up and commissioning engineer for the Ak-Chin Indian Community Surface Water Treatment Plant. Design included a raw water line, a raw water pump station, a 2.25 mgd surface water treatment facility, a canned pump station, and a new finished water pipeline. Firm Cost: \$2,738,558; Construction: \$15,710,719.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Yuma Main Street Water Treatment Plant Chlorine Scrubber and Basin Rehabilitation, Yuma, Arizona	(2) YEAR COMPLETED 2010
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager to design a new dry chlorine scrubber system and rehabilitate two sedimentation basins. Project components were designed to enhance safety and provide critical rehabilitation of aging components to support continued, efficient operation. Professional Services: \$989,950.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Town of Gilbert Riggs Road 2 MG Reservoir, Booster Pump Station, and Well Design-Build, Gilbert, Arizona	(2) YEAR COMPLETED 2008
		Professional Services 2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for the Riggs Road Well, 2 MG Reservoir, and Pump Station project. Provided design engineering and construction services for a concrete hopper bottom reservoir with aluminum roof, vertical turbine pump station, road way and landscaping improvements, noise mitigation, and security features. Firm Cost - \$669,098; Construction: \$6,890,040	<input checked="" type="checkbox"/> Check if project performed with current firm



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

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

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

a. NAME  Nathan Nutter, P.E.	b. ROLE IN THIS CONTRACT  Civil/Sanitary Support	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 9
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Mechanical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer - AZ (#44720); Mechanical Engineer - AZ (#52220)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> AZ Water Association, American Society of Civil Engineers			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix Deer Valley ASR Well Program Design Services (WS85010052), Phoenix, Arizona	(2) YEAR COMPLETED 2015
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager providing design and permitting services for the infrastructure development at Deer Valley ASR-1. Professional Services: \$410,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix Aquifer Storage and Recovery Well (ASR) Well 9A-Well 300 Construction Administration and Inspection, Phoenix, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager/project engineer. Project includes a new aquifer storage and recovery well, a new site wall, installation and equipping of the well, new chemical feed systems, and a new below-ground temporary pump-to-waste reservoir. Firm Cost: \$500,000; Construction: \$2,943,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix Cave Creek Aquifer Storage and Recovery Well Design and Construction Administration and Inspection, Phoenix, Arizona	(2) YEAR COMPLETED 2015
		Professional Services 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for the conceptual design, site layout, and construction administration services for the Cave Creek WRP ASR Well-1. Conceptual design includes preparation of schematic drawings to determine the general scope, preliminary design, scale, and relationships among the components of the proposed ASR well. The scope of work includes attendance at meetings with City staff and ADWR and ADEQ staff. Firm Cost: \$734,523; Construction: \$1,980,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Prescott Airport Well No. 3 Arsenic Treatment Design and CA&I, Prescott, Arizona	(2) YEAR COMPLETED 2015
		Professional Services 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer providing new well design, permitting, and construction administration for the City's Airport Well No. 3, which included an adsorptive media arsenic treatment system due to high arsenic levels detected during the permitting process. Professional Services: \$219,936; Construction: \$2,830,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix ASR Well No. 299 Equipping Infrastructure Design, Permitting, and Construction Administration, Phoenix, Arizona	(2) YEAR COMPLETED 2010
		Professional Services 2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for design, permitting, civil, mechanical, electrical, and instrumentation and controls (I&C) services for the City's first ASR well (2,100 gpm recovery and 1,850 gpm recharge ASR well). The construction method used by the City was CMAR. Carollo also provided permitting services for Arizona Department of Water Resources (AWDR), Maricopa County Environmental Services Department (MCESD), and City permits. Professional Services: \$654,482.	<input checked="" type="checkbox"/> Check if project performed with current firm



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

a. NAME  Eric McLeskey, P.E.	b. ROLE IN THIS CONTRACT  Civil/Sanitary Support	c. YEARS EXPERIENCE	
		1. TOTAL 10	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS Civil/Environmental Engineering BS Conservation Biology		f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer - AZ (#51579)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Water Works Association, AZ Water Association			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA Lewis State Prison Complex (SPC) 500 Bed Maximum Custody Facility Expansion, Buckeye, Arizona	(2) YEAR COMPLETED 2013
		Professional Services 2013      Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager providing design and construction administration services including preliminary budget estimates, programming, site planning, schematic design, design development, contract documents and contract administration/management for the construction of a 500 Bed Maximum Custody Unit. Professional Services: \$179,987; Construction \$500,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Town of Gilbert 2 MG Reservoir and Pump Station at Ray and Recker Roads, Gilbert, Arizona	(2) YEAR COMPLETED 2013
		Professional Services 2012      Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer providing design and construction services for a new concrete hopper bottom 2 MG reservoir with an aluminum roof and pump station near Ray and Recker Road in Gilbert. Professional Services: \$684,554; Construction: \$5,990,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Sewer Manhole Assessment Rehabilitation Odor Study and Design, Chandler, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2014      Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer providing manned entry inspection of sewer manholes, their evaluation for rehabilitation, design and construction services, as well as an odor study to address long-term mitigation of collection system odor problems. Professional Services: \$371,597.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Town of Gilbert Integrated Water Resources Master Plan, Gilbert, Arizona	(2) YEAR COMPLETED 2012
		Professional Services 2012      Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Modeling engineer to re-evaluate the Town's master plans and strategies to address unique requirements to plan potable water, wastewater, and reclaimed water systems in a way that considers the complex inter-relationships of costs, water supply, water quality, and customer service. Professional Services: \$509,825.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Peoria Integrated Utility Master Plan, Peoria, Arizona	(2) YEAR COMPLETED 2015
		Professional Services 2015      Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE GIS lead for the comprehensive master plan update that takes into account continuous population and economic development growth, changes in water use and supply availability, reclaimed water use, and wastewater collection and treatment needs. Professional Services: \$406,570.	<input checked="" type="checkbox"/> Check if project performed with current firm



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

a. NAME  Billy Altman, P.E.	b. ROLE IN THIS CONTRACT  Environmental/Sanitary Support	c. YEARS EXPERIENCE	
		1. TOTAL 38	2. WITH CURRENT FIRM 38
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Microbiology		f. PROFESSIONAL TRAINING - REGISTRATIONS Sanitary Engineer - AZ (#18199)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> N/A			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Laughlin Lift Station No. 2 Force Main Rehabilitation Project for the Clark County Water Reclamation District, Nevada	(2) YEAR COMPLETED 2012
		Professional Services 2012      Construction (if applicable) 2018 (est)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for a hydraulic analysis was conducted to match the pump station, surge analysis, rehabilitation of existing manholes (gravity sewer) and 21-inch sewer, infrastructure installation and replacement, discharge piping (force mains), and valves through the existing metering facilities, odor control, gas monitoring, and compliance with current codes and regulations. Professional Services: \$2,531,407.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> 2013 Integrated Facilities Master Plan, Clark County Water Reclamation District, Nevada	(2) YEAR COMPLETED 2014
		Professional Services 2014      Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical advisor on a master plan focused on maximizing the use of existing capital facilities despite reduced flows due to slow growth, considered process optimization, condition assessment, operations and maintenance manual updates, and phased planning for the District's major facilities. Firm Cost: \$1,658,060.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Paradise Whitney Interceptor Package No. 2 for Clark County Water Reclamation District - Design, Bid and ESDC, Las Vegas, Nevada	(2) YEAR COMPLETED 2016 (est.)
		Professional Services 2014      Construction (if applicable) 2016 (est.)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Construction manager providing project administration, scheduling and progress reporting, meetings and technical workshops, construction cost estimating, quality management, environmental assessment, risk management, permitting and utility agency coordination, geotechnical investigation, dewatering design, construction sequencing, traffic control, underground utility location, detailed design, bid period services, and construction management services. Firm Cost: \$7,492,699; Construction: \$62,324,340.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Searchlight Collection System Rehabilitation and Groundwater Recharge Assessment for Clark County Water Reclamation District, Las Vegas, Nevada	(2) YEAR COMPLETED 2013
		Professional Services 2013      Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer performed condition assessment for a gravity collection system, lift station, and force main using CCTV survey and visual inspection. The evaluation included the existing collection system elements and terminated at the outfall of the existing 8-inch gravity influent line into the plant. Alternatives were recommended to address system deficiencies as well as repair / rehabilitation needs. Professional Services: \$1,059,507.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Secondary Clarifier 1 - 8 Rehabilitation Additional Services for Clark County Water Reclamation District, Las Vegas, Nevada	(2) YEAR COMPLETED 2013
		Professional Services 2015      Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer, as a sub to CH2M, provided design history and technical review of specifications and drawings associated with the project. Professional Services: \$12,000.	<input checked="" type="checkbox"/> Check if project performed with current firm



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**Phoenix, Arizona 85007**

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

a. NAME  Kirk Gardiner, P.E.	b. ROLE IN THIS CONTRACT  Mechanical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Mechanical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Mechanical Engineer - AZ (#22942)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Society of Mechanical Engineers			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA State Prison Complex (SPC) 4,000 Prison Bed Facilities Expansion Yuma, Tucson, Goodyear, Arizona	(2) YEAR COMPLETED 2010
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mechanical engineer to expand the ASPC Yuma WWTP to 0.87 mgd to accommodate the addition of 2,000 beds and the total ASPC 4,000 beds. Expansion included new preliminary, secondary, and tertiary treatment systems. The project required an Aquifer Protection Permit to accommodate reject from the facility's reverse osmosis water treatment plant. Professional Services: \$3,107,409; Construction: \$12,418,527 (GMP).	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Ak-Chin Indian Community Surface Water Treatment Plant, Maricopa, Arizona	(2) YEAR COMPLETED 2012
		Professional Services 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mechanical engineer for the Ak-Chin Indian Community Surface Water Treatment Plant. Design included a new raw water line, a new raw water pump station, a new 2.25 mgd surface water treatment facility, redesign of the proposed DYK finished water storage tank and canned pump station, and a new finished water pipeline. Firm Cost: \$2,738,558; Construction: \$15,710,719.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Town of Gilbert 2 MG Reservoir and Pump Station at Ray and Recker Roads, Gilbert, Arizona	(2) YEAR COMPLETED 2013
		Professional Services 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mechanical engineer providing design and construction services for a new concrete hopper bottom 2 MG reservoir with an aluminum roof and pump station near Ray and Recker Road in Gilbert. Professional Services: \$684,554; Construction: \$5,990,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Sewer Manhole Assessment Rehabilitation Odor Study and Design, Chandler, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mechanical engineer providing manned entry inspection of sewer manholes, their evaluation for rehabilitation, design, and construction services, as well as an odor study to address long-term mitigation of collection system odor problems. Professional Services: \$371,597.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Casa Grande Water Reclamation Facility Phase 3 Expansion, City of Casa Grande, Arizona	(2) YEAR COMPLETED 2012
		Professional Services 2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mechanical engineer for the study, permitting, and design to increase the existing facility capacity of 12 mgd. Project elements included a new mechanical system, addition of a fourth anoxic/aeration basin, process optimization of the BNR system, four new secondary clarifiers, new liquid sodium bisulfite dechlorination system, four new aerobic digesters, new biosolids handling building, and new PLC programming. Firm Cost: \$6,438,245; Construction: \$52,460,000.	<input checked="" type="checkbox"/> Check if project performed with current firm



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

a. NAME  Kevin Angle, P.E.	b. ROLE IN THIS CONTRACT  Electrical / I&C Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 8
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Electrical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Electrical Engineer - AZ (#53655)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Institute of Electrical and Electronics Engineers			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Albuquerque Bernalillo County Water Utility Authority Southside Water Reclamation Facility Solids Dewatering Facility, Albuquerque, New Mexico	(2) YEAR COMPLETED 2014
		Professional Services 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer providing preliminary design for a new solids dewatering facility, preparing a Design Analysis Report (DAR), obtaining all of the necessary permits and site approvals, preparing a detailed design including construction bid documents, and providing engineering services during construction for a new solids dewatering facility. Professional Services: \$369,957; Construction: \$15,000,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Sewer Manhole Assessment Rehabilitation Odor Study and Design, Chandler, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer providing manned entry inspection of sewer manholes, their evaluation for rehabilitation, design, and construction services, as well as an odor study to address long-term mitigation of collection system odor problems. Professional Services: \$371,597.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Prescott Airport Water Reclamation Facility Expansion Design and Construction, Prescott, Arizona	(2) YEAR COMPLETED 2014
		Professional Services 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer assisting in approximately 65% of the design for 3.75 mgd capacity, with the phased expansion planned for an ultimate capacity of 15 mgd. Because this Phase 1 expansion includes a process change (from the existing oxidation ditches to activated sludge BNR) this project is essentially the first phase of a new treatment facility. Professional Services: \$2,279,710; Construction: \$35,000,000.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Laredo Booster Station Improvements and Elevated Storage Tank, Laredo, Texas	(2) YEAR COMPLETED 2011
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer under a design-build contract for E/I&C engineering services for the City of Laredo Water Distribution System, including water booster pump station and elevated storage tanks. LNV Engineering was the prime consultant. Professional Services: \$7,598,115.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Lubbock Digesters 8 and 9 Improvements, Lubbock, Texas	(2) YEAR COMPLETED 2010
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer for the planning, design, and construction services for Digester 8 and 9 Improvements at the City of Lubbock's Southeast WRP. The project goal was to increase the digester performance, provide process redundancy and reliability, and bring the existing facilities up to code. Project elements included the installation of new pump mixing system, hot water system, sludge heating and recirculation system, digester feed, fixed domes, and open flare burners. Professional Services: 8,713,900; Construction: \$14,931,109.	<input checked="" type="checkbox"/> Check if project performed with current firm



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

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

a. NAME  David Geisler, P.E.	b. ROLE IN THIS CONTRACT  Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 14
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Chemical Engineering BS Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Structural Engineer - AZ (#41080)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Society of Civil Engineers, American Concrete institute; Confined Space Entry Training			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA State Prison Complex (SPC) 4,000 Prison Bed Facilities Expansion Yuma, Tucson, Perryville, Arizona	(2) YEAR COMPLETED 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer to expand the ASPC Yuma WWTP to 0.87 mgd to accommodate the addition of 2,000 beds; a new water storage tank and a booster pump station at ASPC Perryville; a new waterline connection to Tucson Water; new well, water storage tank, and booster pump station at ASPC Tucson. These fast-tracked contracts utilized the Construction Manager at Risk (CMAR) project delivery method. Professional Services: \$3,107,409; Construction: \$12,418,527 (GMP).	Professional Services 2010 Construction (if applicable) 2010 <input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Casa Grande Water Reclamation Facility Phase 3 Expansion, City of Casa Grande, Arizona	(2) YEAR COMPLETED 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer for the study, permitting, and design to increase the existing facility capacity of 12 mgd. Project elements included a new mechanical system, addition of a fourth anoxic/aeration basin, process optimization of the BNR system, four new secondary clarifiers, new liquid sodium bisulfite dechlorination system, four new aerobic digesters, new biosolids handling building, and new PLC programming. Firm Cost: \$6,438,245; Construction: \$52,460,000.	Professional Services 2009 Construction (if applicable) 2012 <input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Airport Water Reclamation Facility Expansion, Chandler, Arizona	(2) YEAR COMPLETED 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer for the 22 mgd expansion including a new cast-in-place pre-stage basin, aeration basins, secondary clarifier basins, flocculation basins, solids storage tanks, reservoir, and support facilities. All equipment, piping, electrical, and controls for a functional facility were also included. Professional Services: \$8,909,250; Construction: \$120,000,000.	Professional Services 2012 Construction (if applicable) 2014 <input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Chandler Collection System Facility Improvements Lift Station Rehabilitation, Chandler, Arizona	(2) YEAR COMPLETED 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer for the design and construction services related to the rehabilitation of seven collection system lift stations and one division structure. Professional Services: \$376,519; Construction: \$774,258.	Professional Services 2011 Construction (if applicable) 2012 <input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Arizona Water Company Oasis Arsenic Treatment Facility Expansion	(2) YEAR COMPLETED 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer providing engineering design, construction administration, and field inspections, and bidding assistance for AWC's 7.2 mgd Oasis Arsenic Treatment Facility. The project consisted of an expanded 5,400 gpm wellhead arsenic treatment facility design that utilizes coagulation and filtration processes. Professional Services: \$308,607; Construction: \$2,100,000.	Professional Services 2010 Construction (if applicable) 2011 <input checked="" type="checkbox"/> Check if project performed with current firm



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

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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> ADOA Lewis State Prison Complex (SPC) 500 Bed Maximum Custody Facility Expansion, Buckeye, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2014

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Arizona Department of Administration	d. ORIGINAL BUDGET/ AMOUNT OF PROJECT Firm Cost: \$179,987	e. TOTAL COST OF PROJECT Construction: \$500,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

As a subconsultant to DLR Group, Carollo assisted with the ADOA Lewis SPC expansion in Buckeye, Arizona. This project expansion consisted of the design of a 1-mgd plant, which included a raw sewage grinder, influent pump station, fine static screens, aeration basins with biological nutrient removal, clarifiers, traveling bridge filter, UV disinfection, effluent storage pond, effluent pump station, aerobic digester, sludge and scum drying beds, pumping stations for RAS/WAS scum, recycle, and digested sludge, blower building, and operations building.

Work tasks include permitting, developing preliminary budget estimates, programming, site planning, schematic design, preparing contract documents, and providing construction administration for improvements to the facility.





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*(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i> ADOA State Prison Complex (SPC) 4,000 Prison Bed Facilities Expansion Yuma, Tucson, Goodyear, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2010

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Arizona Department of Administration	d. ORIGINAL BUDGET/ AMOUNT OF PROJECT Firm Cost: \$3,107,409	e. TOTAL COST OF PROJECT Construction: \$12,418,527 (GMP)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

As a subconsultant to Arrington Watkins Architects, Carollo provided design and construction administration services. The Arizona Department of Administration (ADOA) expanded three prison facilities by as much as 4,000 beds. Carollo, in association with Arrington Watkins Architects, provided preliminary design, detailed design, construction administration, and permitting services for the water and wastewater systems to support the expansions of the Yuma, Perryville/Goodyear, and Tucson Arizona State Prison Complexes (ASPC).

ASPC Yuma WWTP expansion to 0.87 mgd (a 2,000 bed prison facility) project included a 1-mgd plant expansion with a new process train. New installations included headworks with mechanically cleaned screens, new extended aeration activated sludge process, new disinfection system, new digestion facilities, and new chemical storage and pumping facilities. In order to meet the fast track nature of the ASPC Yuma WWTP expansion, Carollo used the CAMP® process, an early project activity that applies the combined experience of key personnel over a concentrated period to accelerate the development of a project by employing facilitated team management.

ASPC Perryville (a 1,000 bed prison) expansion to the existing water system included new water storage tanks, a new booster pump station, pump skid replacements, water line re-routing, and generator and electric building modifications.

ASPC Tucson (a 1,000 bed prison) expansion to the existing water system included a new waterline to Tucson Water, new water storage tanks, pump skid replacements, water line re-routing, rehabilitation of an existing groundwater well, new booster pump station, generator and electric building modifications, and improvements to the control system.

The expansions used the Construction Manager at Risk alternative project delivery method. The facility has been in operation 4 years with no unplanned shutdowns.





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*(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i> Ak-Chin Indian Community Surface Water Treatment Plant, Maricopa, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2012

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Ak-Chin Indian Community	d. ORIGINAL BUDGET/ AMOUNT OF PROJECT Firm Cost: \$2,738,558	e. TOTAL COST OF PROJECT Construction: \$15,710,719
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Ak-Chin Indian Community (Community) has historically utilized groundwater as their primary source of potable water. However, continued deterioration of groundwater quality, recent struggles associated with identifying and obtaining a new high quality groundwater source, and the availability of a robust Central Arizona Project (CAP) surface water supply, prompted the Community to design and construct a new 2.25 mgd surface water treatment plant. In only 20 months, the design team and the Community transformed an agricultural field into a critical 2.25-mgd (3.15-mgd ultimate) membrane filtration Surface Water Treatment Plant (SWTP). The SWTP process provides high quality potable water and the flexibility to easily and cost-effectively expand future treatment capacity. The team provided expansion of the Community's existing infrastructure including almost 10,000 linear feet (LF) of raw water transmission piping, 1,000 LF of wastewater collection piping, as well as modifications to an existing potable water pump station. The design team and the Community spent significant time, money, and effort to assure the facility would be another showcase for the Community and surrounding area.

With the multitude of challenges the team faced during design and construction of the new SWTP, this project would not have been a success without the efforts of all team members working together to find creative solutions. Based on the aggressive design and construction schedule, communication was critical. The project was located in the heart of the Community's development district and was being constructed to, and simultaneously with, the Community's Central Cooling Facility and new entertainment complex. Consequently, communication was critical. The team met regularly with all stakeholders through weekly meetings and dedicated workshops designed to present information in a format that was easily understood by the participants and promoted critical decision making. Every team member was vested in making the Community's vision a reality from the start.

The Community's expectations were exceeded and delivered under budget; in addition, received the AZ Water Association Water Treatment Project of the Year (2013).





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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> Albuquerque Bernalillo County Water Utility Authority (ABCWUA) Southside Water Reclamation Facility Solids Dewatering Facility	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2015

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER ABCWUA, New Mexico	d. ORIGINAL BUDGET/ AMOUNT OF PROJECT Firm Cost: \$369,957	e. TOTAL COST OF PROJECT Construction: \$15,000,000
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**f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)**

Carollo is designing a new solids dewatering facility (SDF) at the Southside Water Reclamation Plant (SWRP). The SWRP has a nominal capacity of 76 mgd and uses anaerobic digestion to stabilize the sludge. Dewatering is performed using centrifuges with solids transported from the centrifuges to existing holding bins via an outdated conveyor system. The existing SDF does not provide reliable service, requires significant annual maintenance, is at the end of its useful life, and needs to be replaced with a new, modern facility.

Work efforts include preliminary design, preparing a Design Analysis Report (DAR), obtaining all of the necessary permits and site approvals, preparing a detailed design including construction bid documents, and providing engineering services during construction.





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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> City of Casa Grande Water Reclamation Facility Phase 3 Expansion	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2012

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER City of Casa Grande, Arizona	d. ORIGINAL BUDGET/ AMOUNT OF PROJECT Firm Cost: \$6,438,245	e. TOTAL COST OF PROJECT Construction: \$48,085,500
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The City's WRF was originally constructed as a mechanical plant in the early 1990s and later expanded to 4 mgd (average daily flow) in 2005, with both expansions designed by Carollo Engineers. In 2006, the City engaged Carollo to start planning the next expansion to 12 mgd, and in 2008, the planning and design phases were completed. In late 2007 and early 2008, the City and Carollo obtained funding from the Water Infrastructure Finance Authority (WIFA), which allowed the project to be bid by contractors in the fall of 2008. Construction commenced in April of 2009 with completion in 2012. The total funding provided by WIFA was \$62.5M and the lowest responsive bidder (Hunter Contracting) was under \$49M.

The design included several cost savings measures to optimize existing infrastructure including modification of the existing aeration basins to increase each basin capacity to 3 mgd and the addition of a new fourth basin to bring the capacity to 12 mgd. This approach saved approximately \$20M in capital costs. The design included new disinfection facilities to replace the existing gas chlorine system with the largest onsite sodium hypochlorite generation system for a wastewater facility within Arizona. The project has won several accolades in the recent past including the 2008 Bentley Be Inspired Award for Innovation in for using 3D design tools to tackle challenges problems. The project was also awarded the WIFA Project of the Year Award in 2012.

The Phase 3 Expansion included some challenging aspects that were overcome by the entire project team. The major challenges entailed maintaining the existing WRF during construction activities. The design took into account these challenges and provided additional compartments and valves at key transition areas such as splitter boxes upstream of the aeration basins and the secondary clarifiers. Extensive workshops and coordination meetings were held to coordinate activities with the City operations staff and engineer to make sure that the permit limits were met at all times during construction. The City's expectations were exceeded and the final construction project came in under budget. The City, Hunter, and Carollo also worked together during the construction phase to improve other areas not in the original design. The low bid, as a result of the economic slowdown, allowed the team to rehabilitate areas that would have otherwise been slotted for future rehabilitation, which will result in lower operation costs.





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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.)

Carollo's Statement of Qualifications is included as an attachment to this Response Form I: Firm's General Qualifications Form.

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:	80
b.	Percentage of Total Work Attributable to Non-Government Work:	20

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

Signature: 

Date: 12/21/15

Name: John Doller, P.E.

Title: Senior Vice President