



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
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Offeror: Bridgers & Paxton Consulting Engineers

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.

Bridgers & Paxton Consulting Engineers

Company Name

11209 N. Tatum Blvd., Suite 160

Address

Phoenix, AZ 85028

City

State

Zip

sjobrien@bpce.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Steve O'Brien, PE

Printed Name

Principal, Mechanical Engineer

Title

Phone: 602-996-6399

Fax: 602-996-3267

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

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

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

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

This Contract shall henceforth be referred to as Contract No. ADSP016-00005912

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:
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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:

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.



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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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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 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



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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:	Bridgers & Paxton Consulting Engineers
b. FIRM (OR BRANCH OFFICE) STREET:	11209 North Tatum Blvd., Suite 160
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85028
f. YEAR ESTABLISHED:	1951
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Privately Owned not a Small Business
h. POINT OF CONTACT NAME AND TITLE:	Steven J. O'Brien, PE – Principal, Lead Mechanical Engineer
i. POINT OF CONTACT TELEPHONE NUMBER:	602.996.6399
j. POINT OF CONTACT E-MAIL ADDRESS:	sjobrien@bpce.com
k. NAME OF FIRM (If block 1a is a branch office):	Bridgers & Paxton Consulting Engineers



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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
Construction Inspectors		4	0
Estimators	P	1	0
Electrical Engineers	P	9	1
Mechanical Engineers	P	24	1
CADD Technician	P	13	0
Fire Protection Engineers	P	1	0
Controls Engineers	P	1	0
Other	P	77	8
Total		129	10



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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
3	Airports; Terminals and Hangars; Freight Handling	1
4	Community Facilities	2
10	Judicial and Courtroom Facilities; Public Safety Facilities; Prisons & Correctional Facilities	1
10	Libraries; Museums; Galleries	2
16	Computer Facilities; Security Systems	4
147	Hospital and Medical Facilities; Medical Related; Rehabilitation (Buildings; Structures; Facilities)	6
3	Hotels; Motels	1
53	Industrial Buildings; Manufacturing Plants; Special Environments; Clean Rooms, Etc.	4
2	Housing (<i>Residential, Multi-Family; Apartments; Condominiums</i>)	1
254	Office Buildings; Industrial Parks;	6
71	Barracks; Dormitories	6
7	Urban Renewals; Community Development	1
11	Dining Halls; Clubs; Restaurants; Commercial Building (Low Rise); Shopping Centers;	2
99	Laboratories; Medical Research Facilities	5
10	Activity Centers; Outdoor Recreation	2
2	Transportation	1
69	Educational Facilities; Classrooms; Research Facilities	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |



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

a. NAME Steven J. O'Brien, PE	b. ROLE IN THIS CONTRACT Principal in Charge, Lead Mechanical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 21

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
 Pennsylvania State University, Bachelor of Science,
 Architectural Engineering

f. PROFESSIONAL TRAINING - REGISTRATIONS
 Professional Engineer License, Mechanical Engineer
 AZ (#35209), NV (#16711) and NM (#18417)

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

Mr. O'Brien is a Vice President at Bridgers & Paxton. His responsibilities at Bridgers & Paxton include project management and design. His expertise is in the areas of heating, ventilating, and air conditioning (HVAC) systems design, project management and coordination, field investigations, preparation of heating and cooling load calculations. Mr. O'Brien's project management experience includes client communication from Schematic Development to Construction Documents. Mr. O'Brien has completed projects for transportation, office, medical, education, manufacturing/industrial, museum, theatre, detention, hotel/motel, and restaurant.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> State of Arizona - 1789 Chiller and Cooling Tower Replacement- AZ	(2) YEAR COMPLETED 2014 Ongoing	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Steve O'Brien was the Lead Mechanical Engineer and Principal in Charge on this project. Project included removal of the existing 2,500 ton chillers, ceramic cooling towers, the condenser water pumps & ice bank piping & valving. A building heating & cooling load calculation. Installation of 2 new cooling towers to be installed in a new cooling tower, installation of 2 new water cooled chillers, installation of 2 new primary/secondary chilled water pumps & installation of 2 new condenser water pumps.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Some of the Maricopa County on-call projects include: FMD Building 1962 Food Factory DHW Assessment, Facilities Management Department Building 1962 Bakery AHU Replacement, FMD 4th Avenue Jail EMCS Replacement, Electronic Cooling Tower Metering Make-up & Drain Water, Facilities Management Department Food Factory DHW Piping Upgrades, Durango Jail TI, LBJ Security Electronic Room TI, Highway Operations Asphalt Lab HVAC Upgrades & County Justice Court IT Closet HVAC Upgrades. Steve O'Brien was the Mechanical Principal in Charge. Task orders under this on-call contract vary in size & cost.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Mesa Engineering On-Call - Mesa, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The City of Mesa on-call contract included a Communications Building (Police & Fire Dispatch) Steve O'Brien was the Mechanical Principal in Charge. This project included vital radio infrastructure that both agencies use to communicate throughout the City. The project modernized vital support systems that are essential to maintain 24/7 operations. The major systems upgrades include: Uninterruptible Power Supply, Emergency Generators and Building Cooling System.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College Engineering On-Call Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Maricopa County Community College District (MCCCD) Projects include: Baylor Hall Complex, F-Building T.I., District Office Renovation, Dome & Culinary HVAC Upgrades Services, Emerald Point Building District Office Expansion, Fitness Center HVAC Upgrades, Gateway College Sewer Upgrade, Jacaranda Hall Gymnasium, OSW HVAC Upgrades, Pecos Building S Lab Remodel, Phoenix College F Building Cafeteria T.I., SCC Library Remodel. Steve O'Brien was the Lead Mechanical Engineer and Principal in Charge on these projects. The task orders under this on-call contract vary in size and cost.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Carl T. Hayden Veterans Administration Medical Center-Phoenix, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders		



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	Professional Services Mechanical	Construction (if applicable)
<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The task orders included repairs, replacements, and new installations of energy conservation measures to reduce energy consumption in accordance with Presidential Executive Order (POE) 13423. The total design and construction cost for the nineteen task orders is approximately \$20,000,000.00. Steve O'Brien was the Lead Mechanical Engineer and Principal in Charge on 8 of these projects. The task orders under this on-call contract vary in size and cost.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME John Montaño, PE	b. ROLE IN THIS CONTRACT Principal Electrical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 13

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Electrical Engineering University of New Mexico	f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ (38934), CO (49797), NM (15344), NV (16712), TX (105585)
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

Mr. Montaño's responsibilities include project management, in-house quality assurance reviews, engineering and design of electrical systems. His background includes electrical studies, pre-design investigation, fee proposals, estimates of probable electrical construction costs, lighting design and calculations, power systems design and load calculations, fire alarm systems design, lightning protection, tele/communications, specifications, construction administration and field observations, for public and private clients. Organizations: Illuminating Engineering Society of North America, Valley Partnership.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Mesa Engineering/Consulting On-Call Services Contract – Mesa, AZ	(2) YEAR COMPLETED Ongoing Contract and Task Orders
		Professional Services Electrical
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P is currently performing engineering design services on two engineering/consulting contracts for the City of Mesa. The contracts began in June 2012 and were renewed in the summer of 2013 for an additional year. Task order projects Mr. Montaño has worked on for these Mesa contracts: Communications Building & Generator Upgrade, Compressor Unit, Fleet Service Electrical Service Upgrade. The task orders under this on-call contract vary in size and cost. Role: Principal Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders
		Professional Services Electrical
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Some of the Maricopa County on-call projects include: FMD Building 1962 Food Factory DHW Assessment, Facilities Management Department Building 1962 Bakery AHU Replacement, FMD 4th Avenue Jail EMCS Replacement, Electronic Cooling Tower Metering Make-up & Drain Water, Facilities Management Department Food Factory DHW Piping Upgrades, Durango Jail TI, LBJ Security Electronic Room TI, Highway Operations Asphalt Lab HVAC Upgrades & County Justice Court IT Closet HVAC Upgrades. John is the Electrical Principal in Charge. Task orders under this on-call contract vary in size & cost.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Arizona Department of Transportation Douglas Port of Entry – Douglas, AZ	(2) YEAR COMPLETED 2015
		Professional Services Electrical
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P were the MEP Engineers for the 10,000 SF project that included an Administration Building and an Inspection Building. Complete with multi-purpose and break rooms, restrooms and various offices and workstations, the buildings were designed to obtain energy efficiency and LEED certification. Montaño was the Electrical Principal in Charge that provided electrical support and design for the HVAC systems and fire protection system design.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College Engineering On-Call Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders
		Professional Services Electrical
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P is currently performing MEP & T design services on two engineering/consulting contracts for Maricopa County Community College District (MCCCD). The contracts began in July 2015 and will be renewed for four consecutive years. Task order projects Mr. Montaño has worked on for the previous MCCCD five-year contract included these MCCCD contracts: MCCCD - Emerald Point Building Office Expansion Feasibility Study, Phoenix College Design for Nursing Building Remodel, Phoenix College Admissions and Records Building, Bookstore and Honors Program Renovations, Phoenix College Building F Remodel, Phoenix College Downtown Assessment and Design & Phoenix College Osborne West Campus Classroom Building. The task orders under this on-call contract vary in size and cost. Role: Principal Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm



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5.	(1) TITLE AND LOCATION (<i>City and State</i>) Carl T. Hayden Veterans Administration Medical Center-Phoenix, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The task orders included repairs, replacements, and new installations of energy conservation measures to reduce energy consumption in accordance with Presidential Executive Order (POE) 13423. The total design and construction cost for the nineteen task orders is approximately \$20,000,000.00. Steve O'Brien was the Lead Electrical Engineer and Project Manager on 7 of these projects. The task orders under this on-call contract vary in size and cost.	Professional Services Electrical	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Grant McKinley, LEED AP	b. ROLE IN THIS CONTRACT Senior Mechanical Designer	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 12

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Associate of Science, Technical Associate Degree in Drafting/CADD, High Tech Institute	f. PROFESSIONAL TRAINING - REGISTRATIONS LEED Accredited Professional
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

Grant McKinley is a Senior Mechanical Designer at Bridgers & Paxton. He has 24 years of experience. Grant received his Associate of Science, Technical Associate Degree in Drafting/CADD from the High Tech Institute in Phoenix, AZ in 1990. He has worked on a variety of different facilities: airports/aircrafts, auditoriums/performing arts/theaters, central utilities, churches/temples, civic/convention/community centers, computer/data centers, courthouses/judicial, detention/correction, dining/restaurants, dormitories/housing/barracks, educational facilities, emergency operations/public safety, government, hotels/resorts, LEED/sustainable design, laboratories, library/archives, manufacturing/industrial, medical centers/hospitals, office buildings, retail/shopping mall/mixed use developments, parking structures and technology/telecommunications facilities.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> State of Arizona - 1789 Chiller and Cooling Tower Replacement-AZ	(2) YEAR COMPLETED 2014 Ongoing	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project included removal of the existing 2,500 ton chillers, ceramic cooling towers, the condenser water pumps & ice bank piping & valving. A building heating & cooling load calculation. Installation of 2 new cooling towers to be installed in a new cooling tower, installation of 2 new water cooled chillers, installation of 2 new primary/secondary chilled water pumps & installation of 2 new condenser water pumps. Grant McKinley was the mechanical designer on this project.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED 2014 Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Controls for Lower Buckeye Jail Water Softener Replacement, Durango Tower Jail Fire Protection System and Sewer Cleanout Upgrades, Flood Control District Office Building HVAC, FMD 1916 Crime Lab Assessment, FMD Juvenile Detention Supply Air & Exhaust Air Replacements, Justice Court IT Closet HVAC Upgrades, LBJ Central Plant Install, LBJ Security Electronic Room TI, and Sunnyslope Probation Office Interview Rooms TI. Grant McKinley was the mechanical designer on this project.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Mesa Engineering On-Call - Mesa, AZ	(2) YEAR COMPLETED 2014 Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The City of Mesa on-call contract included a Communications Building (Police & Fire Dispatch) This project included vital radio infrastructure that both agencies use to communicate throughout the City. The project modernized vital support systems that are essential to maintain 24/7 operations. The major systems upgrades include: Uninterruptible Power Supply, Emergency Generators and Building Cooling System. Grant McKinley was the mechanical designer on these projects	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College Engineering On-Call Chandler, AZ	(2) YEAR COMPLETED 2014 Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Grant's Maricopa Community College On-Call Experience includes: Two Story Office Building TI, F Building Cafeteria TI, Emerald Point Building District Office Expansion, Dome & Culinary HVAC Upgrades Services, F-Building T.I. Fitness Center HVAC Upgrades and OSW HVAC Upgrades. Grant McKinley was the mechanical designer on these projects.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Carl T. Hayden Veterans Administration Medical Center-Phoenix, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

The task orders included repairs, replacements, and new installations of energy

conservation measures to reduce energy consumption in accordance with Presidential Executive Order (POE) 13423. The total design and construction cost for the 19 task orders is approximately \$20,000,000.00. Grant was the Senior Mechanical Designer on 6 of these projects.

Check if project performed with current firm



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

a. NAME Eric M. Gagnon	b. ROLE IN THIS CONTRACT Senior Plumbing Designer	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 4

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Associate of Science, Mechanical Drafting Technology, Mesa Community College, 1990	f. PROFESSIONAL TRAINING - REGISTRATIONS NITC Certification as medical gas inspector
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 Mr. Gagnon serves as a Plumbing Designers at Bridgers & Paxton. He has 14 years of design production experience in plumbing, piping and medical gas systems design. He has extensive experience designing for systems for medical, educational, and government clients. Eric has a NITC Certification as medical gas inspector. Eric is experienced in the design of domestic water systems, service piping systems, process piping, medical gas piping, vacuum systems, compressed air and fire protection. Mr. Gagnon is responsible for the plumbing design and layout portions of a project and coordinates closely with the Lead Mechanical Engineer.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED 2014 Ongoing Contract & Task Orders
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Maricopa County on- call projects include: Durango Jail TI, FMD Building 1962 Food Factory DHW Assessment, Highway Operation Restroom Exhaust Fan Replacement, Highway Operations Asphalt Lab upgrades, and Facilities Management Department Food Factory DHW Piping Upgrades. Eric Gagnon was the plumbing Designer on these projects.	Professional Services Mechanical - Plumbing
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED 2014 Ongoing Contract & Task Orders
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Maricopa County Community College District (MCCCD) on call projects include: Phoenix College Design for Nursing Building Remodel, F Building Cafeteria T.I. & Pecos Building S Lab Remodel. Eric Gagnon was the Plumbing Designer on these projects.	Professional Services Mechanical - Plumbing
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Carl T. Hayden Veterans Administration Medical Center-Phoenix, AZ	(2) YEAR COMPLETED 2014 Ongoing Contract & Task Orders
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Carl T. Hayden Veterans Administration Medical Center multiple task order projects including: Energy Recovery AHU-3, 4 & 8, Heat Wheels 1 & 2, Replace CLC Internals, Fan Wall SF1-4, EF1-4, Return RF1-4, VAV's SF1-4, AHU VAV's, Ice Storage (18,000 Ton-Hours), OR Chiller 1015 Valves, OR Chiller 1012 Valves, Lab Chiller 1016 Valves, Rework Steam System, Rework Steam System Boiler, Occupancy Sensors, Dental Chiller, Rework CHW Piping. Eric Gagnon was the plumbing Designer on these projects.	Professional Services Mechanical - Plumbing
4.	(1) TITLE AND LOCATION <i>(City and State)</i> State of Arizona - 1789 Chiller and Cooling Tower Replacement- AZ	(2) YEAR COMPLETED 2014 Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project included removal of the existing 2 500 ton chillers, ceramic cooling towers, the condenser water pumps & ice bank piping & valving. A building heating & cooling load calculation. Installation of 2 new cooling towers to be installed in a new cooling tower, installation of 2 new water cooled chillers, installation of 2 new primary/secondary chilled water pumps & installation of 2 new condenser water pumps. Eric was the plumbing designer on this project	Professional Services Mechanical - Plumbing
5.	(1) TITLE AND LOCATION <i>(City and State)</i> USACE Louisville District, Corpus Christi-Robstown D-B Tactical Equipment Maintenance Facilities (TEMF)- Corpus Christi, TX	(2) YEAR COMPLETED 2013
		Professional Services Mechanical - Plumbing



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Bridgers & Paxton were the MEP and Technology engineers for this new 35,290

Check if project performed with current firm

SF design/build equipment/vehicle maintenance facility with welding/machine shop, vehicle maintenance and repair bays, wash bay, equipment parts storage, training/conference room, tool room, weapons storage vault, secure storage for communications/cryptology equipment, fluid distribution room, controlled waste, and small arms storage, weapons vault, training/break room, fitness room, administrative/shop offices. This project was designed to obtain LEED® Silver Certification. Project was \$Role: 9.4 M. Eric Gagnon was the Plumbing Designer on this project.



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

a. NAME Robbie K. Schamp	b. ROLE IN THIS CONTRACT Senior Mechanical Designer	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 35

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Central New Mexico Community College, Construction Drafting, Albuquerque, NM	f. PROFESSIONAL TRAINING - REGISTRATIONS
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

Robbie Schamp has experience with many systems included: HVAC systems, energy efficient HVAC & lighting, specialized ventilating and exhaust systems, plumbing & process systems, energy management & control systems, central energy plant design/master planning, thermal energy storage, cogeneration systems & steam generation/distribution systems.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> State of Arizona - 1789 Chiller and Cooling Tower Replacement-AZ	(2) YEAR COMPLETED 2014 Ongoing	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Robbie was the Senior Mechanical Designer on this project. Project included removal of the existing 2500 ton chillers, ceramic cooling towers, the condenser water pumps & ice bank piping & valving. A building heating & cooling load calculation. Installation of 2 new cooling towers to be installed in a new cooling tower, installation of 2 new water cooled chillers, installation of 2 new primary/secondary chilled water pumps & installation of 2 new condenser water pumps.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Some of the Maricopa County on-call projects include: Durango Jail TI, LBJ Central Plant Install, LBJ Security Electronic Room TI, Mechanical Monitoring and Exhaust System - Administration Building and S.E. Regional Courts Facility HVAC Renovations. Robbie was the Senior Mechanical Designer on this project.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Mesa Engineering On-Call - Mesa, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The City of Mesa on-call contract included a Communications Building (Police & Fire Dispatch) Robbie was the Senior Mechanical Designer on this project. This project included vital radio infrastructure that both agencies use to communicate throughout the City. The project modernized vital support systems that are essential to maintain 24/7 operations. The major systems upgrades include: Uninterruptible Power Supply, Emergency Generators and Building Cooling System..	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College Engineering On-Call Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Maricopa County Community College District (MCCCD) Projects include: Two Story Office Building Tenant Improvement (TI), Conversion of Chilled Water from CP to Juvenile Bldg., Phoenix College F-Building T.I. and Office Renovation. Robbie was the Senior Mechanical Designer on this project.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Carl T. Hayden Veterans Administration Medical Center-Phoenix, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Mechanical	Construction (if applicable)



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

The task orders included repairs, replacements, and new installations of energy conservation measures to reduce energy consumption in accordance with Presidential Executive Order (POE) 13423. The total design and construction cost for the 19 task orders is approximately \$20,000,000.00. Robbie was the Senior Mechanical Designer on 11 of these projects.

Check if project performed with current firm



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

a. NAME Dwight Cocco, EIT	b. ROLE IN THIS CONTRACT Electrical Engineer Intern	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 1

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Pennsylvania State University, Bachelor of Science, Architectural Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS Engineer-In-Training Certification, December 2006 AZ #10022
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 Electrical Engineer Intern responsible for the design, coordination, code compliance and timely completion of construction drawings for a wide variety of projects. Experienced in project management and in serving as a liaison between various disciplines as required to achieve successful project outcomes.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College District, Engineering/Consulting Annual Services Contract – District Wide, AZ	(2) YEAR COMPLETED 2014	Professional Services Electrical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P is currently performing engineering design services under two engineering/consulting contracts for Maricopa County Community College District (MCCCD). Since June 2010, B&P has worked on a dozen task orders for MCCCD. The contracts began in June 2010 and have been renewed for four consecutive years. Task order projects Mr. Cocco has worked on for this contract: MCCCD Maricopa Colleges - Phoenix College Design for Nursing Building Remodel & Scottsdale Community College Library Remodel Phase 1. The task orders under this on-call contract vary in size and cost. Role: Electrical Engineer Intern	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa County Engineering On-Call - Chandler, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Electrical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Some of the Maricopa County on-call projects include: FMD Building 1962 Food Factory DHW Assessment, Facilities Management Department Building 1962 Bakery AHU Replacement, FMD 4th Avenue Jail EMCS Replacement, Electronic Cooling Tower Metering Make-up & Drain Water, Facilities Management Department Food Factory DHW Piping Upgrades, Durango Jail TI, LBJ Security Electronic Room TI, Highway Operations Asphalt Lab HVAC Upgrades & County Justice Court IT Closet HVAC Upgrades. Steve O'Brien was the Mechanical Principal in Charge. Task orders under this on-call contract vary in size & cost.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA AZ State Hospital Boiler Plant Upgrade	(2) YEAR COMPLETED Ongoing	Professional Services Electrical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P is working with a team of professionals as the Mechanical and Electrical Consultants on Arizona State Hospital's Boiler Plant Upgrades. Some of our duties are to complete and furnish an Energy Model and life cycle analysis of all new equipment recommended and installed. We will focus on Central heating hot water and domestic hot water plant energy management hardware and software upgrades associated with new equipment (ie, boilers, water heaters, heat exchangers, pumps, etc.) Dwight's role on the project was to provide electrical design work on all mechanical systems.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOA, Arizona State Hospital Chiller & Pump Replacements – Phoenix, AZ	(2) YEAR COMPLETED Ongoing Contract & Task Orders	Professional Services Electrical	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Bridgers & Paxton were the MEP engineers for this phased project for the removal and replacement of two existing 700 ton chillers, two chilled water pumps, associated piping, valves, fittings etc. Design includes modifications to the ventilation systems and upgrades to the energy management hardware for a complete operable and controllable system. Role: Electrical Engineer Intern	<input checked="" type="checkbox"/>	Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> New Mexico Veterans Affairs Health Care Services Master Utility Study	(2) YEAR COMPLETED 2015	Professional Services Electrical	Construction (if applicable)



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

B&P worked as the Mechanical, Plumbing, Electrical and Low Voltage consultants

on this particular IDIQ project at the NMVAHCS in 2014-15. Our SOW included review of all systems and provide three (3) architectural conceptual master plan building location options with MPE and low voltage pros and cons. Dwight's role during this project was to provide electrical design under the guidance of John Montaña.

Check if project performed with current firm



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

a. NAME Vincent "Luke" Allen, RCDD	b. ROLE IN THIS CONTRACT Technology Group Manager	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 5

d. LOCATION *(City and State)* Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Some College, Clackamas College	f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Communications Distribution Designer (RCDD), #101389
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

Mr. Allen is the Senior Technology Designer and Technology Group Manager for B&P. He has over 21 years of experience in the installation, design, and project management of technology infrastructure for large and small organizations. He has been responsible for the design development and management of multiple domestic and international technology infrastructure installations throughout North and South America, the United Kingdom, Russia, Middle and Far East. Luke has completed design and installation projects within multi-site and campus environments for integrated infrastructure systems, utilizing fiber optics, coax, UTP and wireless media. Affiliations: Building Industry Consulting Services International (BICSI), InfoCOMM, Project Management Institute (PMI), American Society for Industrial Security (ASIS); Industry Involvement: BICSI – Data Center Standards Committee, Healthcare Standards Committee & Electronic Safety and Security Standards Committee.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Central New Mexico Community College, Technology Loop – Albuquerque, NM	(2) YEAR COMPLETED 2015	Professional Services Electrical - Technology	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P is engaged to provide consulting and design services for a new campus fiber optic distribution for their main campus. The proposed loop is comprised of duct bank, fiber optic backbones and lateral fiber system running into each building on the campus. At completion, the project will have 70k+ linear feet of duct bank, 18+ maintenance holes, over 14k linear feet of high strand count OS2 (singlemode) fiber cable and will be extended into over 40 buildings on the campus. The intention is to provide a highly resilient network infrastructure and meet current and foreseeable requirements. Role: Project Manager/Sr. Technology Designer	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> NOVA Corporation, Data Center – Albuquerque, NM	(2) YEAR COMPLETED 2015	Professional Services Electrical - Technology	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE B&P were the MEP, Security and IT systems engineers for a new 80,000 SF, high performance, Tier III data center and office building. The design was completed in the Fall 2012 and the project was cancelled due to the client finding a suitable existing building. B&P is currently engaged with this client to assist in the repurposing an existing facility. B&P is responsible for engineering MEP, Security, and IT Systems for their new facility. Role: Project Manager/Network Infrastructure Designer	<input checked="" type="checkbox"/>	Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> CVR Energy Data Center Migration	(2) YEAR COMPLETED Ongoing 2016	Professional Services Electrical - Technology	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Coffeyville Resources (CVR) is developing a new secondary data center which will need to be capable of allowing CVR's primary data center to fully failover to minimize disruption to business operations. Currently, CVR has housed their production data center services out of one data center and has a secondary Test Environment in another location. The new secondary data center will be a production capable facility with room to accommodate system refresh and expansion.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> CASK Master Services Agreement – United States Geological Survey Menlo Park Data Center Consolidation Study	(2) YEAR COMPLETED 2015	Professional Services Electrical - Technology	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The purpose of this project was to develop a preliminary design, cost estimate, and construction SoW for a consolidated data center for the USGS at the Menlo Park campus. We based our approach to this project along the The Open Group Architecture Framework (TOGAF). This approach allowed the team to perform and document a study that identifies a solution that met the USGS current and future requirements and enabled delivery of the desired solution.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Bernalillo Public School, Santo Domingo	(2) YEAR COMPLETED 2016	Professional Services Electrical - Technology	Construction (if applicable)



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

B&P provided MEP and Technology services for this project. Mr. Allen was the Technology Group Manager for this project. Technology features included development of a new district serving data center, Audio Visual systems for classrooms, intra and inter building fiber and copper backbones, internal building distribution with wireless coverage for the campus. Our Technology Group also provided a completely new Security systems design, including: Surveillance, Access Control and Motion Detection systems, door/camera intercom systems.

Check if project performed with current firm



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

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

a. TITLE AND LOCATION <i>(City and State)</i> Maricopa County Community College District, Engineering/Consulting Annual Services Contract - District Wide Gilbert, AZ	b. YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION <i>(If applicable)</i>	
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23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Community College District	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$4,700,000	e. TOTAL COST OF PROJECT \$4,700,000
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f. **BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** (include scope, size, and length of project)
Contract Description: Bridgers & Paxton Consulting Engineers is currently performing mechanical, electrical, plumbing engineering and technology design services on two engineering/consulting contracts for Maricopa County Community College District (MCCCD). Since June 2010, B&P has worked on a dozen task orders for MCCCD. The annual service contracts are for an annual maximum total amount of \$250,000 per year and with a single project limit of \$100,000. B&P was awarded another one year term in July 2015 and have the option to be renewed for four consecutive years. **On-Call Services Provided:** Professional Design and Engineering Services (Mechanical/Electrical Engineering), Master Planning and Programming Services, Audio Visual Systems Design, Code Review and Compliance Services & Facilities and Construction Related Services

Campus Locations: Phoenix College- Phoenix, AZ; Glendale Community College- Glendale, AZ; GateWay Community College-Phoenix, AZ; Mesa Community College-Mesa, AZ; Scottsdale Community College-Scottsdale, AZ; Rio Salado Community College-Tempe, AZ; South Mountain Community College-Phoenix, AZ; Chandler/Gilbert Community College-Chandler, AZ; Paradise Valley Community College-Phoenix, AZ; Estrella Mountain Community College-Avondale, AZ; Maricopa Skill Center-Phoenix, AZ; Maricopa Skill Center, Southwest Campus-Avondale, AZ & MCCCD District Office-Tempe, AZ.



The Bridget Hall Student Union Building is located at Chandler Gilbert Community College – Williams Campus. The 17,500 SF project consisted of a learning commons area, student activities, multipurpose spaces, offices, a library, food service, a bookstore, and support spaces. Electrical design included provision of receptacle layouts, fire alarm layouts, and voice/data layouts. Mechanical scope included HVAC & plumbing equipment and distribution systems. The project was LEED Silver certified.

Direct buried chilled water service was extended from the existing chilled water mains located in the vicinity of Logan Hall. Two roof mounted variable air volume air handling units and a constant volume indoor air handling unit were specified for the facility. A roof mounted VAV air handling unit serves the classroom and library wing, another VAV air handling unit serves the lounge and public areas. A constant volume air handling unit serves the multi-function space. A kitchen make-up/exhaust unit with an evaporative cooling and natural gas heating section serves the café. Demand control ventilation monitors the carbon dioxide levels in the spaces and adjust the minimum outside air volume accordingly to provide good indoor air quality. The data closets are conditioned by ductless mini-split systems.

Dual flush water closets, waterless urinals, and sensor activated lavatory faucets were specified to minimize water consumption in the facility. A 1050 gallon grease interceptor was specified for the café. The electrical scope for Bridget Hall included a new service entrance rated at 800 Amps, 277/480V, 3-phase. The building was split into two wings each with dedicated mechanical, lighting and receptacle branch panel boards in compliance with LEED requirements. In addition, the kitchen was provided with its own shunt trip panel to serve kitchen equipment loads. Classrooms were provided with ceiling mounted projectors and computer classrooms were designed with isolated ground receptacles. Energy efficient lamps and ballasts were utilized for the lighting design. Control of lighting consisted of toggle switches, occupancy sensors and upstream tie-in to the building energy management system and lighting control panel. Exterior lighting was in compliance with campus standards and controlled via a relay panel. The scope also included special systems design for tele/data and fire alarm.



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

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

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

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

a. TITLE AND LOCATION <i>(City and State)</i> MCCCD, Engineering/Consulting Annual Services Contract - District Wide Scottsdale, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Community College District	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$2,900,000	e. TOTAL COST OF PROJECT \$2,900,000
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The Library Building Renovation consisted of modernizing 33,700 square feet of space by providing study rooms, classrooms, staff lounge, workroom, copy center, reserve, technology, and technical services. The project also included the renovation of the circulation, restrooms, and storage rooms.

Three existing multi-zone air handling units utilizing chilled water and electric zone heaters where replaced with three variable volume air handling units with an outside air economizer section. The existing exhaust fans where replaced with two energy recovery ventilators providing preconditioned outside air to the VAV air handling units. The electric zone heaters were replaced with variable air volume terminal units with electric resistance heating coils. The existing supply air duct board distribution system was completely removed in the renovation area and replaced with sheet metal ductwork. A plenum return air system is utilized to transfer return air back to the new air handling units. A wall mounted cooling only split system was added to the existing electrical room. A new cooling only terminal unit was added to provide condition air to the new data room with a new wall mounted cooling only split system added for redundancy.

The new equipment was added to the existing MCCCD SCC campus direct digital control facility management system. A wet pipe fire sprinkler system was introduced to provide protection to the library building. Domestic hot water was upgraded to be code compliant with the utilization of a thermostatic mixing valve and hot water was provided in a timely manner with the installation of a domestic hot water recirculation pump. New plumbing fixtures were provided for the new restrooms.

The existing Service entrance section serving the library remained and was reused as a cost saving measure for the renovation. Panelboards were removed where walls were demolished and new panelboards provided to serve new loads. Energy efficient lamps and ballasts were providing throughout. A combination of 2x4 troffers, pendant direct luminaires, cable track lighting, downlights, decorative pendant lights and LED stack lighting was provided as part of the design. All lighting was designed to meet IECC energy standards and followed Illuminating Engineering Society (IES) recommended practices for light levels. Combination power and data floor boxes were provided throughout the main library to allow for flexibility of furniture layouts and to provide ample power connections for the students.



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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> University of New Mexico, Basketball Arena "The Pit" Albuquerque, NM	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER University of New Mexico	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$60,000,000	e. TOTAL COST OF PROJECT \$60,000,000
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B&P has been the engineer of choice for this arena since its original construction in 1966. This facility has been through multiple expansions and additions including a ticket office, smoke removal and the 1975 mezzanine level addition. B&P designed HVAC systems, telecom and electrical rooms, heating systems, exhaust air systems, building energy management systems, plumbing, waste and vent systems, roof drainage systems, domestic water systems, natural gas and fire protection.

- Designed to earn LEED Certification

TECHNOLOGY FEATURES

B&P's Technology Consulting Group designed the arena sound reinforcement and jumbo video displays, satellite TV and IP digital signage system, audio-visual systems, security, access control, surveillance, wireless network systems, and inside and outside plant IT infrastructure cabling, including equipment and telecommunications rooms build-out.

- Arena sound reinforcement, mixing and DSP, wireless microphones, assistive listening system.
- Daktronics LED Video boards, scorer's tables and ribbon displays.
- Satellite TV reception, HaiVision IPTV head-end and distribution to 200+ flat panel TV's.
- Video production control room and cabling plant.
- Mobile TV broadcast connections, indoor camera platforms and cabling plant.
- Private club suites (TV & sound).
- Boardroom, lounge & conference rooms (A/V).
- Complete wireless network availability.
- Design for 9 complete communication rooms



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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> Arizona Department of Transportation, San Luis Port of Entry Greenfield, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Gabor Lorant Architects	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$7,118,500	e. TOTAL COST OF PROJECT \$7,118,500
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Contract Description: B&P is currently performing engineering design services under this multi-year ADOT services contract as a mechanical and electrical engineering sub consultant to Gabor Lorant Architects.

Example Task Order Project for Current Contract: Arizona Department of Transportation, San Luis Port of Entry – Greenfield, AZ

B&P provided mechanical, electrical and plumbing engineering design services for the 12,400 SF ADOT Port of Entry project which included an Administration Building, Truck Inspection Building and a Control Booth. The San Luis Port-of-Entry (serves as an inspection station for trucks crossing the Mexico/Arizona border. The port provides 12,400 SF of office and storage space for Arizona Department of Transportation (ADOT) staff, San Luis Motor Vehicle Division staff and Federal entities.

The San Luis Port-of-Entry (POE) Administration/Truck Inspection Building and the Control Booth provide the office and storage space for staff from MVD in a building that is attached to the truck inspection building. The administration component includes restrooms (men's/women's) with lockers/showers for staff; janitor maintenance/supply room; a communication system server room; conference room; an employee break room; inside storage rooms; training room; one lock-up cell; an outside patio area; an outside storage area; and a public area with unisex restroom, drinking fountain and pay telephone. The truck inspection building provides the space for the inspection of semi-trailer trucks in a single-level building. Red and green traffic signals over the entrance doors control the flow of trucks into the inspection bays. The inspection building is cooled with evaporative coolers, and features two illuminated inspection pits with automated retractable pit covers and ventilation systems. The facility is equipped with a truck exhaust system over the cab of the truck for each bay with an enclosed air conditioned/heated weigh master room with office space for one individual. The type of systems designed were interior lighting, electrical outlets, site lighting, electrical and voice/data service, building HVAC, ventilation, exhaust, backup power generator, low water consumption water closets, waterless urinals, low flow faucets and shower heads.



Additional Task Order Projects for this Contract:

- ADOT Ehrenberg Port of Entry – Ehrenberg, AZ
- ADOT Douglas Port of Entry – Douglas, AZ



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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 Mesa Communications Building - Police & Fire Dispatch	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Mesa	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,981,000	e. TOTAL COST OF PROJECT \$1,981,000
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Brief physical description of the project: Bridgers & Paxton provide Mechanical and Electrical Engineering and design on this project. This project included vital radio infrastructure that both agencies use to communicate throughout the City. The project modernized vital support systems that are essential to maintain 24/7 operations. The major systems upgrades include: Uninterruptible Power Supply, Emergency Generators and Building Cooling System. Brief discussion of any specific challenges and how they were overcome: Chilled water system phasing required to minimize chilled water system shut down, for 911 call center which required 24/7 operation. Developed chilled water phasing plan, included temp. air cooled water chiller valving & equipment arranging to prevent water cooled chiller replacement with min down time
What type of HVAC system was designed: Air cooled water chiller with variable primary chilled water pumping
What the Owner's objectives were and whether they were met:
Project construction is just commencing



Additional Task Order Projects:

- Compressed Natural Gas Compressor Unit
- Fleet Maintenance Electrical Service Study
- Communications Building Engine Generator Study and Design



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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.)

B8P'S PROJECT PLAN APPROACH

B&P will provide electrical and technology engineering services for the Arizona Department of Administration under this contract. We understand that the projects under this on-call contract will vary in size and scope. Energy efficient/sustainable designs will be an integral part of projects under this contract; an energy model and life cycle cost analysis will be conducted to verify the most energy efficient solution with reasonable pay back periods. Our team can respond to any challenge and assignments that may arise through this contract, and we have engineering staff capable of responding to aggressive project schedules and delivering projects accurately and on time.

B&P has offices in AZ, CO & NM with a staff of 129 professionals with the necessary experience and technical capabilities to support this on-call contract. Our staff possesses credentials ranging from registered mechanical, electrical, and fire protection professional engineers (PE), certified project managers (PMP), certified plumbing designers, certified lighting consultants (LC), certified technology specialists (CTS), registered communication distribution designers (RCDD) certified in Network Transport Systems (NTS), Electronic Safety and Security (ESS) and Outside Plant (OSP), Certified GeoExchange Designers (CGD), and LEED Accredited Professionals.

Our team will work with the ADOA project manager and the ADOA facility staff to:

- Obtain & Review original record documents
- Field verify existing conditions
- Recommend preliminary HVAC testing/measurements and/or preliminary electrical metering where appropriate
- Prepare a design scope narrative
- Conduct a life cycle cost analysis and create an energy model for the baseline and proposed solutions
- Determine design and construction schedule
- Determine project phasing requirements
- Preparation of opinions of probable construction costs
- Timely review of submittals
- Contractor RFI's, Test and Balance reports and O&M Manuals
- Review of contractor pay applications
- Conduct periodic site observations with subsequent site observation reports

To ensure accuracy and quality at each project we apply our corporate Quality Assurance Plan in a graded approach to match the needs of each project.

For this project our QA plan will require that we:

- Have a written agreement which documents our mutual contractual agreements
- Prepare a work plan
- Hold a Kickoff Meeting for each phase and a design review meeting at each submission. Issue meeting minutes
- Document relevant communications and transmit to affected parties
- Perform an interdisciplinary review prior to each submission
- Incorporate Arizona Department of Administration's review comments prior to subsequent submissions
- Have all submissions reviewed by our Project Manager and key submissions reviewed by our project principal



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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:	29%
b. Percentage of Total Work Attributable to Non-Government Work:	71%

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

Signature: *Steve O'Brien*

Date: 12/18/2015

Name: Steve O'Brien, PE

Title: Principal, Mechanical Engineer