

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.
 - 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.

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.

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

List of Disciplines (Function Codes) for Question 7

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 8)

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

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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

**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. REVISED ADSPO13-00003465: Annual Request for Qualifications

a.	FIRM (OR BRANCH OFFICE) NAME:	Psomas, Tucson
b.	FIRM (OR BRANCH OFFICE) STREET:	333 E. Wetmore Road, Suite 450
c.	FIRM (OR BRANCH OFFICE) CITY:	Tucson
d.	FIRM (OR BRANCH OFFICE) STATE:	AZ
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85705
f.	YEAR ESTABLISHED:	1946
(g1).	OWNERSHIP - TYPE:	Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h.	POINT OF CONTACT NAME AND TITLE:	Alejandro Angel, PE, PTOE, Principal
i.	POINT OF CONTACT TELEPHONE NUMBER:	520-292-2300
j.	POINT OF CONTACT E-MAIL ADDRESS:	tmcgovern@psomas.com
k.	NAME OF FIRM (If block 1a is a branch office):	Psomas

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REVISED - Attachment I – General Qualifications**

2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Biologist	P	3	0
CADD Technician	P	27	2
Civil Engineer	P	53	10
Construction Inspector	P	34	7
Construction Manager	P	8	2
Environmental Scientist	P	6	1
GIS Specialist	P	6	0
Hydrologist	P	1	1
Land Surveyor	P	118	9
Landscape Architect	P	2	0
Photogrammetrist	P	5	1
Structural Engineer	P	1	0
Transportation Engineer	P	26	9
Water Resources Engineer	P	23	3
Other	P	96	11
Total		409	56

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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) BRANCH ONLY
1	Commercial Building (Low Rise); Shopping Centers	1
5	Construction Management	5
3	Education Facilities; Classrooms	3
2	Garages; Vehicles Maintenance Facilities; Parking	1
12	Highways; Streets; Airfield Paving; Parking Lots	6
5	Housing (Residential, Multi-Family; Apartments; Condominiums)	3
2	Office Buildings; Industrial Parks	2
3	Recreation Facilities (Parks, Marinas, Etc.)	4
4	Sewage Collection, Treatment and Disposal	3
15	Surveying; Platting; Mapping; Flood Plain Studies	4
6	Storm Water Handling and Facilities	3
6	Traffic and Transportation Engineering	5
4	Topographic Surveying and Mapping	3
8	Traffic Studies	2
8	Water Resources; Hydrology; Ground Water	3
2	Water Supply; Treatment and Distribution	1
3	Zoning; Land Use Studies	1

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 Alejandro Angel, PhD, PE, PTOE	b. ROLE IN THIS CONTRACT Traffic Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 11
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) PhD/Civil Engineering MS/Civil Engineering BS/Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Professional Civil Engineer Arizona/Professional Traffic Operations Engineer	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Alejandro has extensive experience in complex traffic engineering projects and is highly proficient in the use of demand forecasting and traffic simulation tools. He has led the preparation of numerous studies and been in charge of developing engineering standards for various jurisdictions. Alejandro has worked on Intelligent Transportation Systems (ITS) research sponsored by the United States DOT and NASA. His research has been presented at international conferences and published by ASCE, TRB, and IEEE.			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Logo Sign Program Design – Loop 101 from I-10 to US-60	(2) Year Completed	
		Professional Services: 2013	Construction (if applicable):
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the design of new specific service signs along this 13-mile corridor. Responsibilities included the identification of suitable locations for signs, detailed design of the proposed signs for both the freeway mainline and ramps, coordination with ADOT and Grand Canyon State Logo Sign program, and preparation of final construction plans. A total of 33 mainline specific service signs were designed.		
2)	(1) TITLE AND LOCATION (City and State) Grant Road, Stone Avenue to Park Avenue, Tucson, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As project manager, Alejandro is responsible for the final design for the complex widening of Grant Road to six lanes with a raised median along with transit, bicycle, and pedestrian improvements between Stone Avenue and Park Avenue. This project will include indirect left turn intersections and signals at Stone and First Avenues, which will include three signals per intersection. Additionally, traditional traffic signals will be designed for the intersections at Sixth and Park Avenues.		
3)	(1) TITLE AND LOCATION (City and State) Chollas Creek Feasibility Study, San Diego, California	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As a traffic engineer, Alejandro's role will include preliminary traffic and environmental analyses for a bike trail along the Chollas Creek Corridor. There are several constraints to be considered including right-of-way limitations, vertical clearances (i.e. at the I-5 ramps), creek flows, sensitive habitats/species, railroad track crossings, on-street parking, and way-finding for bikes.		
4)	(1) TITLE AND LOCATION (City and State) Houghton Road, Irvington to Valencia, Tucson, Arizona	(2) Year Completed	
		Professional Services: 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for construction documents for the segment of Houghton Rd from Irvington to Valencia (including widening both intersections and associated transitions). The plans call for widening Houghton Road to six lanes with bike lanes and a multi-use path. Psomas successfully coordinated the timely acquisition of 115 acres of ROW from the State Land Department and advanced relocation of utilities (TEP, CenturyLink, SWG) required to maintain the project schedule.		
5)	(1) TITLE AND LOCATION (City and State) Tangerine Road Corridor Project, I-10 to La Cañada Drive, Marana Arizona	(2) Year Completed	
		Professional Services: 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Tangerine Road Corridor DCR project planned the improvements of approximately 10 miles to a four-lane section from Interstate 10 to La Cañada Drive and is part of the voter-approved Regional Transportation Authority (RTA) plan. This project will improve safety, access, and circulation in the region. As project manager, Alejandro managed the multi-disciplined design team to prepare the DCR for this multi-jurisdictional project (Towns of Marana and Oro Valley, and Pima County).		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Heidi Lasham, PE, ENV SP		b. ROLE IN THIS CONTRACT Construction Manager		c. YEARS EXPERIENCE	
				1. TOTAL 14	2. WITH CURRENT FIRM 2
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS/Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/ Professional Civil Engineer Envision Sustainability Professional		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Heidi has 14 years of transportation planning, design, and construction field experience. Her experience has a broad spectrum ranging from project planning and traffic and roadway design to construction field experience, which uniquely qualifies her as a resident engineer that understands the importance of a good planning effort resulting in a quality construction project.					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Paseo de Las Iglesias Phase I Construction Administration, Tucson, Arizona		(2) Year Completed		
			Professional Services	Construction (if applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Resident Engineer for this 9.26M construction project is located along the Santa Cruz River between Ajo Way (State Route 86) and Silverlake Road. The scope of the project includes soil cement bank protection, paved pathway and decomposed granite pathway, west bank staging area with restroom, west bank equestrian staging area, east bank parking area, over 9,000 landscape plantings, and a large ecosystem restoration component.		<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) La Cañada Road Improvement Project, River Road to Ina Road, Tucson, Arizona		(2) Year Completed		
			Professional Services: 2012	Construction (if applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Resident Engineer, Heidi was responsible for technical and construction contract compliance for this \$19M project for which Psomas is providing full construction administration and inspection, post-construction, and close out services.		<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Downtown Links - 8th Street Drainage Project, Tucson, Arizona		(2) Year Completed		
			Professional Services: 2012	Construction (if applicable): 2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As Resident Engineer, Heidi is providing on-site construction administration services for this \$7.4M project. In addition to major roadway drainage improvements and reconstruction of the Tucson Arroyo, work on this fast-tracked project includes extensive relocation of underground utilities (water/sewer) and new signing and striping to allow two-way traffic on 6th Avenue. Heidi works daily with Main Street Business Assistance to provide updates to the surrounding local business during construction. She is also coordinating with the public involvement firm to provide traffic updates within the project area.		<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) La Cholla Boulevard: Ruthrauff to River, Tucson, Arizona		(2) Year Completed		
			Professional Services: 2009	Construction (if applicable): 2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This \$9.6M project consisted of widening an existing two-lane to six lanes, including a new bridge over the Rillito River. As project engineer, Heidi was responsible for signing, pavement marking and lighting designs.		<input type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Speedway Boulevard: Camino Seco to Houghton, Tucson, Arizona		(2) Year Completed		
			Professional Services: 2010	Construction (if applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This \$13.9M project included roadway widening from two lanes to a four lane facility including the addition of medians, bike lanes, sidewalk, and lighting. As traffic engineer and task leader, Heidi was responsible for the signing, pavement marking and lighting designs.		<input 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 Mike Daly, PE, ENV SP		b. ROLE IN THIS CONTRACT Drainage Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 21	2. WITH CURRENT FIRM 16
c. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS/Hydrology and Water Resources			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Professional Civil Engineering		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mike has more than 20 years of experience in the field of water resource design. He currently manages a 10-person team, which completes variety of project types including sanitary sewer and storm drain planning and design, potable water system planning and design, utility coordination modifications, watershed and floodplain studies, and flood control mitigation studies and design.					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Paseo de Las Iglesias Phase I Design, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this effort which extends from Ajo Way to Silverlake Road and included three distinct but inter-related elements: river park trail and recreational elements, bank stabilization using soil cement and other non-structural methods, and ecosystem restoration elements.					
2)	(1) TITLE AND LOCATION (City and State) Benson Master Drainage Study, Benson, Arizona			(2) Year Completed	
				Professional Services: 2012	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this effort which consisted of Master Drainage Study for a portion of the City which was funded a through Community Development Block Grant (CDBG) funding. The purpose of the study was to define the existing drainage conditions, identify those areas with a propensity for flooding which significantly impacted public infrastructure and private property, and develop alternatives for the mitigation of flooding in these areas.					
3)	(1) TITLE AND LOCATION (City and State) Monte Carlo LOMR, Nogales, Arizona			(2) Year Completed	
				Professional Services: 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager, Mike was responsible for a hydrologic and hydraulic analysis to determine peak flow rates and evaluate the limits of flooding based on revised existing conditions at several residential subdivisions in Nogales. The results of the analysis were documented in a LOMR application that is currently under review by FEMA.					
4)	(1) TITLE AND LOCATION (City and State) Tangerine Road Force Main Relocation, Marana, Arizona			(2) Year Completed	
				Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the design of the relocation of approximately 6,350 feet of 10-inch force sewer main from the existing pump station just west of Dove Mountain Boulevard to Camino De Oeste.					
5)	(1) TITLE AND LOCATION (City and State) Pantano Wash Bank Protection Phase II, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2011	Construction (if applicable): 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the design of new soil cement bank protection which extended on both banks from approximately 1,250 feet upstream to 800 feet downstream of Tanque Verde Road. Design elements included underpasses on both banks under the Tanque Verde Road Bridge, access ramps, and a new grade control structure to stabilize the channel.					

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Kevin Letendre, PE, ENV SP		b. ROLE IN THIS CONTRACT Utilities Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 26	2. WITH CURRENT FIRM 8
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS/Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Professional Civil Engineering		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Kevin has designed sewer and water systems for large master planned communities as well as in existing public right-of-way and fully understands the dynamics between the various elements within utility and transportation corridors. He is a leader in Psomas for developing in improving design processes and developing concise and complete construction documents consistent with agency requirements.					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Tangerine Road Force Main Relocation, Marana, Arizona			(2) Year Completed	
				Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for the design of the relocation of approximately 6,350 feet of 10-inch force sewer main from the existing pump station just west of Dove Mountain Boulevard to Camino De Oeste.					
2)	(1) TITLE AND LOCATION (City and State) Pantano Interceptor Sewer at Harrison Road, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2012	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As Project Engineer, Kevin provided assistance in the design and preparation of the construction drawings and flow management plan for the replacement and upsizing of approximately 2,700 feet of 18-inch gravity sewer main along Harrison Road.					
3)	(1) TITLE AND LOCATION (City and State) Sierra Morado Sewer Augmentation, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2007	Construction (if applicable): 2008
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Kevin was the Project Engineer responsible for the engineering for the Sierra Morado master planned community of 579 residential lots and community amenities. As part of this project, Kevin assisted in the design and planning of the gravity sewer augmentation project that consisted of a sizing analysis and design of approximately one mile of 18-inch sewer through the Sierra Morado community prior to the developments construction and reflected a previous commitment with the State Land Department to provide flow-through capacity through the Civano development.					
4)	(1) TITLE AND LOCATION (City and State) Benson High School, Benson, Arizona			(2) Year Completed	
				Professional Services: 2009	Construction (if applicable) 2010
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As Project Engineer, Kevin was responsible for providing engineering services and preparing construction plans for the paving, sewer, water, grading and drainage improvements for two new buildings, an addition and parking lots located on 18.4 acres at the existing high school in Benson.					
5)	(1) TITLE AND LOCATION (City and State) Paseo de Las Iglesias Phase I Design, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for this effort which extends from Ajo Way to Silverlake Road and included three distinct but inter-related elements: river park trail and recreational elements, bank stabilization using soil cement and other non-structural methods, and ecosystem restoration elements.					

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Kevin Thornton, PE, ENV SP		c. ROLE IN THIS CONTRACT Transportation Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 19	2. WITH CURRENT FIRM 7
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS/Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Professional Civil Engineering Envision Sustainability Professional		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Kevin has 19 years of experience in transportation engineering. His experience includes roadway projects from two-lane rural highways to urban arterials, including the design and preparation of roadway and drainage improvements and design concept reports. He has managed design projects from the project scoping stage through construction, including the oversight of construction administration.					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Cañada del Oro River Park, Thornydale to the Santa Cruz River, Pima County, Arizona		(2) Year Completed		
			Professional Services	Construction (if applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager responsible for managing the design team of the CDO River Park. As part of this effort, Kevin's team designed a 1-mile linear park that included an asphalt pathway, a pedestrian bridge at a major drainageway and pedestrian underpasses at a major roadway, interstate highway and railroad crossing.					
2)	(1) TITLE AND LOCATION (City and State) Aveune E Corridor Study, Yuma, Arizona		(2) Year Completed		
			Professional Services	Construction (if applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Design Concept Report (DCR) for this 6.0 mile corridor located in southwest Yuma County through the Local Public Agency contract with ADOT. The DCR evaluated alternatives for a two-lane roadway extending from the intersection of Avenue E and SR 195 to the intersection of Avenue D and County 18th Street. The project will be designed to accommodate future widening to four lanes.					
3)	(1) TITLE AND LOCATION (City and State) Pedestrian Rest Shelters, Pine-Strawberry, Arizona		(2) Year Completed		
			Professional Services	Construction (if applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager preparing a Project Assessment, Categorical Exclusion, and Construction Documents for the construction of 11 pedestrian safety rest stops in the Pine-Strawberry area of Gila County. The project includes locating a 10'x10' concrete pad, specifying modular rest shelters and providing necessary drainage modifications at each location.					
4)	(1) TITLE AND LOCATION (City and State) Valencia Road, Alvernon to Wilmot DCR and Final Design, Tucson, Arizona		(2) Year Completed		
			Professional Services: 2012	Construction (if applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager for the DCR and design of this 3.5-mile roadway widening project. The goals of this project were to reduce congestion, improve operations and increase mobility. Specifically the design widened the existing roadway from four to six lanes including the widening of the underpass at I-10, and widening the bridge structure over the UPRR. Additional improvements included landscaping, traffic signals, multi-use lanes, provisions for pedestrians, and drainage improvements.					
5)	(1) TITLE AND LOCATION (City and State) Kolb Road Connection to Sabino Canyon, Tucson, Arizona		(2) Year Completed		
			Professional Services	Construction (if applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager for this \$22M Regional Transportation Authority project. Kevin is responsible for managing the design for the extension of Sabino Canyon Road from its intersection with Tanque Verde Road southerly to Kolb Road, a total length of approximately one mile. The project consisted of a four-lane divided roadway, sidewalks, a multi-use path, street lighting, landscaping, and drainage impacts.					

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Bob Iannarino, PE, ENV SP, RLS		d. ROLE IN THIS CONTRACT Civil/Site Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 34	2. WITH CURRENT FIRM 2
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS/Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Professional Civil Engineering Arizona/Registered Land Surveyor Envision Sustainability Professional		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Bob has 34 years of experience in the design and management of land planning and development projects for both the public and private sector clients. His experience includes all aspects of project development including site feasibility, acquisition, engineering, development, entitlement, and permitting, primarily in the field of infrastructure development for large mixed use communities.					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Pima Community College, Tucson, AZ			(2) Year Completed	
				Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE In 2011 Psomas was awarded an on-call contract at Pima Community College with responsibilities for civil engineering services on an as-needed basis. As Project Manager, Bob currently assessing drainage reports on PCC's Aviation Tech Center. Specific services included assessment of the existing paving and grading conditions, the necessary drainage remediation improvements inclusive of a detailed hydrologic analysis of surface flows affecting the site.			<input checked="" type="checkbox"/> Check if project performed with current firm	
2)	(1) TITLE AND LOCATION (City and State) University of Arizona: Student Union Design-Build, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2001	Construction (if applicable): 2003
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for site civil work to replace existing facility with a new 377,000-SF Student Union and Bookstore. Tasks include utility relocations, pedestrian and bicycle rerouting, and temporary bus loop rerouting. Also providing site civil support as part of building construction, including phasing of construction and demolition to allow for continuous use of facility. Features include subsurface and surface utility tunnel surveys and construction of a subsurface service dock and access drive from Mountain Avenue and Second Street.			<input type="checkbox"/> Check if project performed with current firm	
3)	(1) TITLE AND LOCATION (City and State) University of Arizona: Integrated Instructional Facility, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2001	Construction (if applicable): 2002
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for providing civil engineering services for a 55,000-SF underground subterranean facility that will be used by the University of Arizona as a "Common Core," a core curriculum of foundational coursework that integrates natural sciences, arts and humanities, and individuals and societies. Evaluated site utilities to maintain operation integrity of existing utility systems and effective maintenance of existing offsite drainage patterns which traverse the area. Also evaluated issues associated with providing proper utility service to the facility and adequate means of discharging onsite stormwater drainage generated by the site.			<input type="checkbox"/> Check if project performed with current firm	
4)	(1) TITLE AND LOCATION (City and State) University of Arizona: Telecommunications Duct System, Tucson, Arizona			(2) Year Completed	
				Professional Services: 1998	Construction (if applicable): 2000
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for preparation of Computer-Aided Design and Drafting (CADD) plan and profile construction documents for 10,000 LF of a multi-duct telecommunication system for the University of Arizona. Because of very tight schedule requirements, a field data collection process allowed for complete turnaround times of less than 14 days (i.e., from time of field commencement to completion of Phase I construction documents took approximately two weeks).			<input 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 Regina Beem, PE, ENV SP, LEED AP		e. ROLE IN THIS CONTRACT Civil/Site Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 14	2. WITH CURRENT FIRM 12
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS/Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Professional Civil Engineering LEED Accredited Professional Envision Sustainability Professional		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) In her position as Project/Task Manager, Regina is responsible for client coordination, planning and design of projects requiring civil engineering services for developers and public agencies, compiling proposals, QA/QC and plan review, project quality control, and managing and coordinating a staff of engineers, designers, and drafters. She also maintains the schedules and budgets of engineering projects she manages.					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Pima Community College, Tucson, AZ			(2) Year Completed	
				Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm In 2011, Psomas was awarded an on-call contract at Pima Community College with responsibilities for civil engineering services on an as-needed basis. Project Engineer currently assessing drainage reports on PCC's Aviation Tech Center. Specific services included assessment of the existing paving and grading conditions, the necessary drainage remediation improvements inclusive of a detailed hydrologic analysis of surface flows affecting the site.					
2)	(1) TITLE AND LOCATION (City and State) Walden Grove (Sahuarita) High School, Sahuarita, AZ			(2) Year Completed	
				Professional Services: 2011	Construction (if applicable): 2011
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As Project Manager civil engineering, Regina prepared the schematic design, design development, and construction plans for the on-site paving, sewer, water, grading and drainage improvements for the new high school located on 34.7 acres in Sahuarita. Psomas also provided construction plans for off-site roadway, water and drainage improvements. The design included a new roadway off of Sahuarita Road in to the school site, a new 12-inch water main line from the existing Farmers Water facilities to the school site, and extensive hydrologic flow modeling using Flo 2D to analyze existing and proposed drainage patterns in the area.					
3)	(1) TITLE AND LOCATION (City and State) Ryan Airfield Security Fencing and Roadway Phase I, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2011	Construction (if applicable): 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project manager for the design of approximately 18,000 lf of new paved roadway and approximately 13,000 lf of new chain link fencing to replace the existing barbed wire fencing around the north, east, and west sides of TAA's Ryan Airfield.					
4)	(1) TITLE AND LOCATION (City and State) Vail High School & Academy, Tucson, Arizona			(2) Year Completed	
				Professional Services: 2010	Construction (if applicable): 2010
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As Civil Engineering Manager, Regina supervised the site design for schematic, design development, construction documents, and construction administration phases of this project. Plans were developed for on-site improvements. On-site plans provided for grading, roadway design and signing and striping, and private water systems. Site grading plans were prepared for 55,000 sf of buildings, several court yards, a multi-use athletic field and basketball court and drainage plans were developed for both site drainage and athletic field drainage. This project is pursuing the LEED Gold certification.					

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Pat McGarrity, RLS, CP		f. ROLE IN THIS CONTRACT Surveyor		c. YEARS EXPERIENCE	
				1. TOTAL	2. WITH CURRENT FIRM
d. FIRM NAME AND LOCATION (City and State) Psomas, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BA/Anthropology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona/Registered Land Surveyor Arizona/Certified Photogrammetrist		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Crawford Street, Sonoita Ave to McNab Drive, Nogales, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As Project Surveyor, Pat is responsible for leading the survey of this half-mile segment of two-lane road. The survey scope included verification of existing mapping, as built of utilities and roadway features, and review of public records to determine the right-of-way location.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Monte Carlo LOMR, Nogales, Arizona	(2) Year Completed	
		Professional Services: 2013	Construction (if applicable):
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As Project Surveyor, Pat was responsible establishing a GPS control network, aerial mapping control, topographic surveys of channels and basins, and field work to collect precise elevations on various structures within the project area to support the hydrologic/hydraulic analysis and LOMR documentation.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Rillito Wash Photo Control, Pima County, Arizona	(2) Year Completed	
		Professional Services: 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Surveyor for locating and/or set 40 panel points along 12 miles of the Rillito Wash per the client's panel layout. All panels were collected using static GPS. Psomas tied the GPS network into existing City of Tucson geodetic control, benchmarks, and NGS control. The final coordinates were delivered in Arizona State Plane, NAD83-HARN92, Central Zone, International Feet for the horizontal and NAVD88 for the vertical datum. Pat was responsible for data collection of previous County control, locating additional NGS and City of Tucson control, design and layout of the GPS control network, GPS field work downloading and post-processing, aerotriangulation review, and map accuracy verification.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) San Luis Land Port of Entry, San Luis, AZ	(2) Year Completed	
		Professional Services: 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As Project Surveyor, Pat is responsible establishing all aerial and survey control, GPS processing, oversight of all field work, boundary analysis and determination, and coordination of the aerial and survey sub consultants. Aerial mapping at 1:500 with 0.5 meter contours will be delivered in Arizona State Plane, NAD83-NSRS2007, West Zone, International Feet, along with a detailed on site culture and utility survey to support the engineering design effort.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

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

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

a. TITLE AND LOCATION <i>(City and State)</i> Design and Construction Surveillance for I-19 East Frontage Road, Canoa Road to Continental Road Green Valley, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pima County Department of Transportation	d. DOLLAR AMOUNT OF PROJECT \$1,790,759	e. TOTAL COST OF PROJECT \$18,000,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Psomas completed the DCR and final design for the I-19 East Frontage Road between the Canoa and Continental interchanges (4.5 miles) under an accelerated schedule. The project included new segments of frontage road, a new bridge over the Esperanza Wash, retaining walls, drainage design of multiple culverts, right-of-way acquisition, and major interchange improvements at Continental and Canoa Roads. At the Continental Road interchange, the Psomas team analyzed seven alternatives and ultimately proposed an innovative solution (braided ramp) that was acceptable to the Green Valley public, the Federal Highway Administration, ADOT, Pima County, and businesses in the surrounding area. Traffic control plans were also prepared for detours needed during improvements under the existing I-19 bridge over Continental. At the Canoa Road Interchange, our team designed a roundabout that will reduce delays and allowed the continued two-way operation of the Frontage Road. Construction of this project was completed in 2011

As part of a task assigned by the County's On-Call Construction Surveillance Contract, Psomas provided construction inspection and administration services for reinforced concrete structures, micropile installation for stabilization of existing I-19 bridge abutments with pile caps, approach slabs and paving, soil nail walls, and other assignments in support of PCDOT Field Engineering staff. Psomas construction inspectors were responsible for monitoring construction activities, verifying compliance with design documents and ADOT specifications, completion of daily diaries and inspection reports, etc. Specific construction activities include reinforced concrete retaining walls, and asphalt concrete paving.



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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 (City and State) Houghton Road, Valencia Road to 22nd Street Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Tucson	d. DOLLAR AMOUNT OF PROJECT \$3,621,432	e. TOTAL COST OF PROJECT \$25,000,000 (80% complete, on-budget, completion spring 2014)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Psomas prepared a DCR and 30% plans for widening Houghton Road from two to six lanes. The DCR included analysis of a new bridge over the Pantano Wash; phasing of corridor improvements; an access management plan; ROW requirements; identification of conflicts with a 24-inch water line, a 12-inch gas line, and TEP transmission lines; drainage analysis; and preliminary design of a greenway linear park. The design transitions from an urban to a rural section from north to south to match the land use and character of the area. Coordination with the public and the Ward IV Citizens Design Review Committee (CDRC) has been ongoing from the start of the project. Other key stakeholders include the State Land Department and Southwest Gas.

The first phase of final design for this project was from Valencia to Irvington (3.9 miles), and it is currently under construction with an anticipated completion date of April 2014. Psomas completed improvement plans for the widening of Houghton Road from a two-lane to a six-lane roadway. Coordination with the public, a Citizens Design Review Committee (and elected officials started at the DCR stage and continued through final design. The project required significant ROW acquisitions from the Arizona State Land Department and a few private property owners, but no relocations were required.

Extensive access management measures were implemented in order to maintain mobility along this roadway. There will be a solar-powered emergency fire signal and five traffic signals along with stretch. Two signals (at Drexel Road and Poorman Road) were design with Florida T (or Green T) configurations to allow southbound traffic to flow without having to stop. The project will provide multiple improvements for alternative modes including 12 bus pullouts, and a paved, landscaped multi-use path along the east side of the road. Extra wide access ramps and a special bike-friendly treatment that will accommodate pedestrians and bicyclists was designed for all the crosswalks along the path to allow bicyclists to cross the side streets without having to walk their bikes.

New multi-cell box culvert crossings over two large washes, including Atterbury Wash were designed to provide all-weather access. The drainage design was completed with FLO-2D to carefully evaluate and mitigate potential impacts such as increases in water surface elevation or floodplain limits outside the ROW.

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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> Paseo de Las Iglesias Phase I Design and Construction Administration, Tucson, Arizona	b. YEAR COMPLETED PROFESSIONAL SERVICES 2013 (Design) CONSTRUCTION <i>(If applicable)</i>	
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23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pima County Regional Flood Control District	d. DOLLAR AMOUNT OF PROJECT \$2,251,170	g. TOTAL COST OF PROJECT \$9,261,274 (Construction 5% Complete, on budget. Completion December 2014)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)
 The Psomas team prepared the Feasibility Study, Project Master Site Plan, and Final Design Construction Documents for this three part project. The three elements include river park trail and recreation, flood control, and ecosystem restoration.

The river park trail and recreation portion of the project included paved multi-use and decomposed granite pathways on both banks of the Santa Cruz River with wildlife viewing areas, informational kiosks, and interpretive signage. The design elements also included water harvesting bio-retention trail landscape and habitat design. The Psomas team worked with the Pima County Cultural Resources and Historic Preservation Office to confirm that it meets the requirements for future certification by the National Park Service as a segment of the Juan Bautista de Anza National Historic Trail. The river park trail will connect to the Julian Wash Trail along the north bank of the Tucson Diversion Channel to provide connectivity to the Pima County Urban Loop System. The river park also included a parking/staging area with an equestrian trailer parking area, restrooms, and water fountains.

The flood control portion of the project included segments of soil cement bank protection, grade control structures, erosion and slope protection, including protection of the Ryland Landfill. The Psomas team provided the hydrology, hydraulic engineering, and surveying services for this project. The Hydrology and Hydraulics Report provided hydraulic analysis and design addressed the erosion hazard areas with localized runoff erosion/head cutting, as well as channel bed scour. The report will also provide HEC-RAS, HEC-6, and FLO 2D models and analysis. These models and analysis supported the preparation Letter of Map Certification (LOMC) and possibly and Conditional Letter of Map Revision (CLOMR).

The ecosystem restoration portion of the project designed the habitat restoration for the project's species of interest. Design features included extensive water harvesting, native plantings, a backwater basin, top of bank amphibian habitat ponds, and in-channel rocked amphibian habitat depressions. This portion of the project also included implementation, monitoring, maintenance, and adaptive management plans. A goal of the ecosystem restoration portion of the project is to minimize impacts to the Ryland and Cottonwood landfills that are found within the project area.

Final construction documents and cost estimates were prepared for demolition, site grading, bank protection, utilities, pathways, culverts, access drives, parking areas, landscape planting, habitat features, irrigations systems, site furniture, signs, restroom buildings, and other site features. A Stormwater Pollution Prevention Plan (SWPPP) was also prepared.

Psomas is currently providing construction administration services for this project.

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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> Colonel Smith Middle School Complex, Fort Huachuca, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Fort Huachuca Accommodation School District	d. DOLLAR MOUNT OF PROJECT \$51,158	e. TOTAL COST OF PROJECT \$21,126,300
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Psomas was a member of the Development Team for the new Colonel Smith Middle School and Specialty High School for the Fort Huachuca Accommodation School District. As part of the design development team, Psomas assisted with site planning and conceptual site design, and is currently providing civil engineering design services for the project. The project, located within Fort Huachuca, consisted of a new Middle School and Specialty High School with a total building area of approximately 100,000 sq. ft., outdoor learning areas, along with a sports track, soccer field, and basketball courts. The site layout and grading design, completed in conjunction with the landscape architect, incorporates numerous outdoor learning stations and opportunities. This is a CMAR delivery type project, with Psomas' design responsibilities including site layout, site grading, paving, and utilities, stormwater, SWPPP. The project requires active participation, and close communication with all of the design disciplines on the team, including school district personnel, program manager, and the general contractor.



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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> North Rillito Interceptor Relief Sewer Alignment Study, Tucson, Arizona	b. YEAR COMPLETED PROFESSIONAL SERVICES 2011 CONSTRUCTION <i>(If applicable)</i>	
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23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pima County Regional Wastewater Reclamation Department	d. DOLLAR AMOUNT OF PROJECT \$96,879	e. TOTAL COST OF PROJECT \$96,879
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

Psomas was retained to complete an Alignment Study for the construction of a multi-barrel siphon and gravity sewer main with the capability to convey 10 MGD from the North Rillito Interceptor Sewer to the South Rillito Interceptor Sewer. The project included formulation and feasibility assessment of several alignment alternatives. Key design constraints which were evaluated included relative elevation differences between the interceptors, property ownership, potential scour in the Rillito River, existing utilities, access to structures, and the potential for odor issues in populated areas. Project deliverables included a detailed Alignment Study, concept plans, survey control and parcel mapping, and hydraulic analysis of the multi-barrel siphon under the Rillito River.

6. ADDITIONAL INFORMATION

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

Dedicated to balancing the natural and built environment, Psomas is ranked one of the top consulting engineering firms in the nation by Engineering News Record (ENR) magazine. We serve public and private-sector clients in the transportation, water, site development, federal and energy markets.

Services offered:

- Planning
- Land surveying including 3D laser scanning
- Civil engineering design including BIM delivery
- Construction management
- Environmental consulting
- GIS consulting
- Special district financing

Sustainable practices are incorporated into all of our services. From designing sustainable water systems in our National Parks and removing pollutants from urban stormwater runoff, to site design for LEED-certified public and private projects and our renewable energy practice, Psomas is in the forefront of the sustainable design movement.

The cornerstone of our business approach is to focus on our clients' long-term needs and then guide our strategic growth to meet those needs. Our core strength is our multi-disciplined teams of experts—top-notch staff who produce award-winning projects for our clients through innovation, creativity and cutting-edge technical expertise.

Founded over 66 years ago, Psomas provides services from offices throughout California, Arizona, and Utah.

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:	85% (branch)
b.	Percentage of Total Work Attributable to Non-Government Work:	15% (branch)

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

Signature:  _____ Date: 12/12/13

Name: Alejandro Angel, PhD, PE, PTOE Title: Principal