

December 30, 2014

Melissa Bauer
Senior Procurement Specialist
State of Arizona, State Procurement Office
100 N 15th Avenue, Suite 201
Phoenix, Arizona 85007

RE: Statement of Qualifications for 2015 Annual Professional Services List

Dear Ms. Bauer:



The Arizona State Procurement Office is seeking consultants for the 2015 annual professional services list. Atkins understands that contracts awarded from this list could have varied scopes of work, which will require a team that can address many different agency and project needs, identify issues quickly, provide practical solutions, offer benefits that include cost- and time-saving efforts, and deliver successful projects through repeatable, proven experience.

Atkins offers you a highly qualified team to assist you with as needed on-call engineering planning and design services. The Atkins project team has the local staffing, experience, and professional expertise to provide these services, and we are committed to exceeding all project expectations. We understand that other cooperating member agencies may also use the selected consultant list, and we take pride in the fact that the majority of Atkins' Arizona business is generated through numerous on-call contracts throughout the state. These contracts were awarded through qualifications-based selections and include local public agency, county, state and federal clients. This portfolio is a true testament to our ability to serve our customers with high quality planning and design services.

In addition to our proven track record of executing successful similar contracts described in our statement of qualifications, we will leverage the experience of our project manager, **Jim Martin, PE, RLS**, who has recent experience assisting state agencies with public improvement projects.

Supported by staff with extensive multi-disciplinary Arizona experience, Atkins commits to providing the right expertise to each and every project task. You will find that our firm and staff meet all of the evaluation criteria:

- Atkins is registered and licensed to do business in Arizona
- Our nominated staff are all registered and in good standing with the Arizona State Board of Technical Registration
- Atkins is corporately registered and in good standing with the Arizona State Board of Technical Registration

When budgeted funds are scarce and schedules tight, you need a consultant that will provide good value—a practical team structure, efficient delivery, commitment to quality, and economical solutions. Atkins is dedicated to quality, client-service, and performing in a responsive manner. The Atkins team's attributes are highlighted by:

- **People**—we understand the critical tasks related to on-call engineering services
- **Schedule**—ability to execute task orders on accelerated time lines
- **Communication**—skilled in applying a culture of respect for partnering and honest interaction
- **Efficiency**—experienced in monitoring design and construction costs, thus eliminating surprises

We promise a dedicated team that is committed, energetic, and available to commit their time to this contract—ensuring that **your priorities are our focus**. The identified staff is available and ready to commit to your work. If you have any questions, please contact me by phone at 602.317.4107 or by email at james.m.martin@atkinsglobal.com.

Sincerely,

Jim Martin, PE, RLS
Contract Manager/Project Manager



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729

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

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

1. Annual Request for Qualifications

a. FIRM (OR BRANCH OFFICE) NAME:	Atkins
b. FIRM (OR BRANCH OFFICE) STREET:	20860 North Tatum Boulevard, Suite 260
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85050
f. YEAR ESTABLISHED:	1995
(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	Jim Martin, Project Director
i. POINT OF CONTACT TELEPHONE NUMBER:	480.419.7275
j. POINT OF CONTACT E-MAIL ADDRESS:	James.m.martin@atkinsglobal.com
k. NAME OF FIRM (If block 1a is a branch office):	Atkins North America, Inc.



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2. EMPLOYEES BY DISCIPLINE

Phoenix office

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
CADD Technician	P	74	1
Civil Engineer	P	189	4
Construction Manager	P	129	1
Environmental Engineer	P	31	1
Environmental Scientist	P	74	1
Technician/Analyst	P	99	1
Transportation Engineer	P	277	2
Water Resources Engineer	P	70	3
Other Employees	P	1,440	6
Total		2,383	21



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2. EMPLOYEES BY DISCIPLINE (continued)

Roseville office

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Biologist	P	10	1
Civil Engineer	P	189	1
Geographic Information System Analyst	P	50	1
Transportation Engineer	P	277	1
Water Resources Engineer	P	70	3
Other Employees	P	1,787	6
Total		2,383	13



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

Phoenix office

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
2	Air Quality and Noise Studies	1
1	Bridges	1
1	Dams (Earth, Rock), Dikes, Levees	1
1	Environmental and Natural Resource Mapping	1
4	Environmental Impact Studies, Assessments or Statements	2
1	Environmental Planning	1
3	Flood Insurance Studies	2
1	Highways, Streets, Airfield Paving, Parking Lots	1
1	Housing (Residential, Multifamily, Apartments, Condominiums)	1
1	Hydraulic Modeling	1
1	Irrigation, Drainage	1
1	Municipal Engineering	1
1	Planning (Site, Installation and Project)	1
4	Rivers Canals, Waterways, Flood Control	2
1	Site/Civil Engineering	1
3	Stormwater Handling & Facilities	1
2	Structural Design, Special Structures	1
5	Surveying, Platting, Mapping, Flood Plain Studies	3
2	Traffic & Transportation Engineering	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 |
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PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR (continued)

Henderson office

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
1	Aerial Photography, Airborne Data & Imagery Collection & Analysis	1
1	Air Pollution Control	1
1	Air Quality and Noise Studies	1
9	Airports, Nav aids, Airport Lighting, Aircraft Fueling	2
9	Airports, Terminals, Hangars, Freight Handling	2
1	Applied Technology	1
3	Bridges	1
1	Chemical Processing & Storage	1
1	Civic Buildings, Community Centers	1
1	Commercial Building (low rise), Shopping Centers	1
11	Construction Management	4
3	Construction Surveying	1
3	Cost Estimating, Cost Engineering and Analysis, Parametric Costing, Forecasting	1
2	Design-Build	4
1	Educational Facilities, Classrooms	1
1	Electrical Studies and Design	1
1	Field Houses, Gymnasiums, Stadiums	1
2	Flood Insurance Studies	1
1	Geodetic Surveying: Ground and Airborne	1
2	Graphic Design	1
31	Highways, Streets, Airfield Paving, Parking Lots	6
30	Housing (Residential, Multifamily, Apartments, Condominiums)	3
2	Hydraulic Modeling	3
5	Industrial Buildings, Manufacturing Plants	1
6	Irrigation, Drainage	2
1	Judicial and Courtroom Facilities	1



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6	Land Subdivision and Development	1
24	Land Surveying	2
14	Landscape Architecture	2
4	Management, Program Management, General Engineering Consulting	1
34	Mixed-Use Developments	3
1	Modular Systems Design, Pre-fab Structures or Components	1
2	Office Building, Industrial Parks	1
1	Permitting	1
1	Pipelines (Cross-country--Liquid & Gas)	1
2	Plan Check/Development Review	1
2	Planning (Community, Regional, Areawide & State)	1
19	Planning (Site, Installation and Project)	2
1	Power Generation, Transmission, Distribution	1
6	Recreational Facilities (Parks, Marinas, etc.)	1
2	Resorts, Spas, Casinos	1
1	Retail/Shopping Centers/Malls	1
2	Right-of-Way	1
6	Rivers Canals, Waterways, Flood Control	3
3	Scheduling	1
13	Sewage Collection, Treatment & Disposal	3
14	Site/Civil Engineering	2
1	Solid Wastes, Incineration, Landfill	1
6	Stormwater Handling & Facilities	1
4	Streetscape Planning	1
4	Structural Design, Special Structures	1
34	Surveying, Platting, Mapping, Flood Plain Studies	2
4	Testing & Inspection Services	2
6	Topographic Surveying and Mapping	1
2	Traffic & Transportation Engineering	1



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4	Transp. Planning, PD&E, Corridors	2
1	Underground Storage Tanks	1
1	Water Resources, Hydrology, Groundwater	3
16	Water Supply, Treatment and Distribution	3

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- | | |
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PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR (continued)

Roseville office

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
1	Applied Technology	2
1	Codes, Standards, Ordinances	1
3	Ecological & Archeological Investigations	1
1	Educational Facilities, Classrooms	1
1	Emergency Response	2
2	Energy Conservation, New Energy Sources	1
4	Environmental and Natural Resource Mapping	1
8	Environmental Impact Studies, Assessments or Statements	1
6	Environmental Planning	1
1	Flood Insurance Studies	1
1	Geospatial Data Conversion: Scanning, Digitizing, Compilation, Attributing, Scribing, Drafting	1
1	Grants, Grant Writing	1
1	Harbors, Jetties, Piers, Ship Terminal Facilities	1
1	Hydraulic Modeling	1
5	Management, Program Management, General Engineering Consulting	4
1	Natural Resource Studies	1
1	Pipelines (Cross-country--Liquid & Gas)	1
1	Plumbing & Pipe Design	1
2	Power Generation, Transmission, Distribution	1
1	Public Involvement	1
2	Rivers Canals, Waterways, Flood Control	1
1	Surveying, Platting, Mapping, Flood Plain Studies	1
4	Testing & Inspection Services	1
6	Water Resources, Hydrology, Groundwater	4
5	Water Supply, Treatment and Distribution	1



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1	Web Site Development	1
1	Wind Tunnels, Research/Testing Facilities Design	1

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PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR (continued)

Denver office

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
4	Applied Technology	1
8	Asset Management	2
28	Bridges	4
2	Computer Facilities, Computer Service	1
1	Computer-Aided Design and Drafting (CADD)	1
51	Construction Management	6
2	Contract Administration/Claims Analysis	3
3	Cost Estimating, Cost Engineering and Analysis, Parametric Costing, Forecasting	1
1	Design-Build - Preparation of Requests for Proposals	2
5	Ecological & Archeological Investigations	1
12	Emergency Response	3
2	Environmental and Natural Resource Mapping	1
3	Environmental Impact Studies, Assessments or Statements	1
4	Environmental Planning	1
2	Expert Witness	1
7	Flood Insurance Studies	2
1	Garages, Vehicle Maintenance Facilities, Parking Decks	1
1	Geodetic Surveying: Ground and Airborne	1
1	Geospatial Data Conversion: Scanning, Digitizing, Compilation, Attributing, Scribing, Drafting	1
2	Geotechnical Engineering	1
1	Grants, Grant Writing	1
1	Graphic Design	1
1	Harbors, Jetties, Piers, Ship Terminal Facilities	1
96	Highways, Streets, Airfield Paving, Parking Lots	6
1	Historical Preservation	1



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1	Housing (Residential, Multifamily, Apartments, Condominiums)	1
6	Hydraulic Modeling	2
1	Indefinite Delivery Type Contract	1
3	Intelligent Transportation Systems (ITS)	2
1	Land Surveying	1
12	Management, Program Management, General Engineering Consulting	4
1	Marine Biology	1
3	Mining and Mineralogy	1
1	Mixed-Use Developments	1
1	Natural Resource Studies	1
1	Permitting	1
2	Planning (Site, Installation and Project)	1
1	Public Involvement	1
7	Recreational Facilities (Parks, Marinas, etc.)	4
1	Rehabilitation (Buildings, Structures, Facilities)	2
2	Right-of-Way	1
5	Rivers Canals, Waterways, Flood Control	2
2	Scheduling	1
2	Stormwater Handling & Facilities	2
2	Structural Design, Special Structures	1
9	Surveying, Platting, Mapping, Flood Plain Studies	2
20	Traffic & Transportation Engineering	4
8	Training	1
11	Transp. Planning, PD&E, Corridors	3
1	Tunnels & Subways	1
1	Value Engineering	1
2	Water Supply, Treatment and Distribution	1
3	Web Site Development	1
1	Wetlands	1



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

a. NAME Ben Sprague, PE	b. ROLE IN THIS CONTRACT Project Principal/ QA/QC	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 12

d. LOCATION (City and State)
ATKINS Henderson, Nevada

e. EDUCATION (DEGREE AND SPECIALIZATION) M.B.A., Business Administration B.S., Civil Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV, CA, UT
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g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Ben Sprague's experience includes planning and designing arterial roadways for special improvement districts; interchanges and rail alignments; construction administration, staking, and inspection; ITS design; feasibility studies; final design, specifications, and cost estimate preparation. Projects have ranged from designing one-block, half-street roadways to miles of controlled access freeway facilities.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arroyo Grande Sports Complex Design, Henderson, NV	2011	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QA/QC manager responsible for conducting quality control checks of the design submittal and for coordinating between disciplines to ensure timely and accurate reviews and approvals. Atkins designed this park renovation project, incorporating new elements seamlessly with existing facilities. Among the new features were a dog park and agility course, bicycle terrain park, gathering and awards plaza, trails and trailheads, 200-foot pedestrian bridge, signage, and baseball/softball-themed interpretive gateways.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Las Vegas Wash Trail Bridge at I-15, NV	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager. This project involved preliminary engineering, final design, bidding phase support, and construction management support services for a new multiuse trail segment along the Las Vegas Wash from Civic Center Drive to Losee Road. The project consisted of approximately 0.30 miles of Americans with Disabilities Act-compliant, multi-use trail within existing public right-of-way.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	F Street Reopening Design Services, Las Vegas, NV	2012	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager. Atkins provided preliminary design, environmental studies, and final design for reopening F Street, a significant arterial closed as part of the I-15 Design-Build North project. Developed a design concept based on data including neighborhood input, existing roadway geometry, drainage flows, traffic data, and cost. Upon concept acceptance, we developed plans up to the 30 percent level and obtained environmental clearances and advanced the concept into final construction plans and cost estimates.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	I-15 Northbound Widening Design and Environmental Documents, Las Vegas, NV	2005	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager. Atkins prepared final plans, cost estimates, and special specification provisions to Nevada Department of Transportation standards for all four phases of the widening of 24 miles of I-15 from Primm to Sloan south of Las Vegas. The design added one additional northbound lane within the existing median and increased the inside shoulder width; widened and seismically retrofitted two existing bridges; and included signing, striping, and traffic control.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	Flamingo Diversion Channel Design, Rainbow Branch, Las Vegas, NV	2011	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project advisor. Atkins provided design engineering and hydrologic and hydraulic analyses for this regional storm drain facility. Services included a detailed hydrologic analysis of the urbanized tributary watershed to determine existing and future drainage patterns; field reconnaissance and review of development plans and drainage studies to determine flow splits at key street intersections; and detailed hydraulic modeling of the storm drain systems.	<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 Jim Martin, PE, RLS	b. ROLE IN THIS CONTRACT Contract Manager/Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 5
d. LOCATION (City and State) ATKINS Phoenix, Arizona		Additional roles: Highways/Streets/Airfield Paving/Parking Lots/Civil; Traffic/Planning/ITS; Right-of-Way & Utility Coordination	
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. / Industrial/Civil Engineering A.T. / Design Drafting		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV, CA; RLS: AZ, MO	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Jim Martin's experience includes civil infrastructure project planning, design, and bid phase services. His involvement in state, county, and local infrastructure design projects funded by various sources, including local, state, and federal allocations, has allowed him to adapt design requirements to meet different agency requirements.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Wet Beaver Creek Pedestrian Bridge, Yavapai County Public Works, Yavapai County, AZ	2014	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the planning and design of a steel arch pedestrian bridge over Wet Braver Creek at Lake Montezuma. The project included public involvement, alternatives evaluation, final design and included various environmental permitting/review including archaeological, cultural resources, migratory bird surveys and floodway analysis.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Bullhead City Community Park Improvements, Bullhead City, AZ	2009	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for various community park improvements, including seawalls, a non-motorized boat launch facility, ADA pedestrian walkways between the launch facility and a new multifunction restroom facility and ramada, parking lots and water quality improvements at the Sunshine Marina. Also provided design for the Sunshine Marina while with another firm. Project manager for design of gravity sewers and 18-1 and 18-2 lift stations and force mains.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	Traffic Impact Analysis and Site Development Plan Review Services, Navajo County, AZ	2009	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager. Atkins provided technical reviews of developer-prepared drainage studies, traffic impact analyses and signing, pavement marking, roadway, and traffic control plans for proposed developments throughout the County. The county engineer relied on Atkins to ensure the technical accuracy of the submittals and the appropriateness and adequacy of the recommended mitigation measures.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Vanderslice Road Design Concept Report (DCR) and Environmental Overview (EO), Mohave County, AZ	2009	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager. An alternative route to SR 95 was sought to alleviate existing congestion; improve traffic circulation; provide an alternate north/south route; improve the local and regional traffic flow; and enhance the health, safety, and welfare of the public. Atkins prepared a DCR, preliminary plans, and EO with particular attention to the impacts of alignment on land use, traffic diversion, and operational sufficiency. The project was completed on an accelerated schedule to meet funding priorities.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	La Paz County HSIP Grant Applications, La Paz County Public Works, La Paz County, AZ	2014	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the development of design concept reports and ADOT grant applications for FHWA funding of Highway Safety Improvement Projects for La Paz County. The (approximately) 6 million dollars in federal funds would add guardrail to a 20-mile segment of Alamo Road and about 6 miles of livestock fencing and cattle-guards on Salome Highway.	<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 Heather Thomas, PE	b. ROLE IN THIS CONTRACT Highways/Streets/Airfield Paving/Parking Lots/Civil	c. YEARS EXPERIENCE	
		1. TOTAL 8	2. WITH CURRENT FIRM 8

d. LOCATION *(City and State)*
ATKINS Denver, Colorado

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil and Environmental Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, CA, CO
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Heather Thomas' experience in transportation engineering includes clearly conveying a design's intent using AutoCAD and MicroStation as a design platform to prepare record drawings. She has worked on on-call or IDIQ contracts for various clients including Central Federal Lands Highway Division, City of Phoenix, City of Maricopa, and Maricopa County Department of Transportation.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> McDowell Parkway Corridor Feasibility Study, MCDOT, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer involved in developing a preferred alignment for the planned McDowell Parkway. Involves coordination with multiple jurisdictions and the public along the 15-mile study corridor while developing candidate alignments and narrowing results by creating project-specific evaluation criteria.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> On-call Traffic Engineering, MCDOT, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for PS&E for traffic engineering projects including signal designs and geometric improvements; traffic engineering studies and reports; services related to development projects including traffic impact analysis; traffic/transportation engineering research and operational analysis; development and formulation of traffic engineering policies and procedures; safety improvement studies; and training related to traffic engineering topics.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> MC-85 and Baseline Road Intersection, MCDOT, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for the alternatives analysis and final PS&E for improvements to this intersection. The existing T intersection is controlled by a stop sign on Baseline Road and provides no dedicated left-turn lanes on MC-85. Across from the Baseline approach are multiple driveways on the south side of MC-85 that provide access to commercial/retail and industrial uses. Due to the safety issues and increasing traffic volumes, Atkins evaluated multiple alternatives for improving the intersection.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> I-17/McGuireville Traffic Interchange, ADOT, McGuireville, AZ	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer responsible for preparation of PS&E for the reconstruction of this interchange on I-17 between Phoenix and Flagstaff. Atkins improved the original concept by modifying the existing northbound freeway mainline to significantly reduce construction and maintenance costs, reduce the risk of slope failure, and minimize the risk of adverse environmental impacts in the river channel floodplain.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa-Casa Grande Highway/White and Parker Road Intersection Improvements, City of Maricopa, AZ	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design engineer for rehabilitation of existing facilities along a 1.5 mile section of roadway. Duties included intersection layout, traffic control, and roadway geometry. Provided design for a stormwater drainage system to avoid an Electrical District Number 3-owned electrical substation within right-of-way. Provided research and coordination with power, gas, petroleum, telephone, and fiber optic utility companies.	<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 Anthony Pisano, PE	b. ROLE IN THIS CONTRACT Highways/Streets/Airfield Paving/Parking Lots/Civil	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM <1

d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering B.S., Civil Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Anthony Pisano's experience includes water resources engineering, planning, and transportation. His alternative delivery experience includes design-build, construction manager/general contractor, and general engineering consulting. He has successfully managed complex projects in excess of \$100 million involving extensive coordination with jurisdictions and regulatory authorities.

H. RELEVANT PROJECTS

1. (1) TITLE AND LOCATION <i>(City and State)</i> Cotton Lane Bridge, MC85 to Estrella Parkway, MCDOT, Goodyear, AZ	(2) YEAR COMPLETED	
	Professional Services 2008	Construction (if applicable) 2010

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
Project manager for this \$50 million CMGC project that included a new 6-lane, 2,100 foot-long bridge over the Gila River. The project reconstructed 2.5 miles of Cotton Lane and improved the Cotton Lane/MC 85 Intersection. A new 3-lane roundabout was designed at the intersection of Cotton Lane and Estrella Parkway. The project included a new at-grade crossing of the Union Pacific Railroad and relocation of major facilities for both Buckeye and Roosevelt Irrigation Districts.

2. (1) TITLE AND LOCATION <i>(City and State)</i> SR101L HOV Lane Design, Environmental Studies, General Engineering Consultant, ADOT, Maricopa County, AZ	(2) YEAR COMPLETED	
	Professional Services 2008	Construction (if applicable) 2011

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
Principal and QA/QC. Developed concept plans and environmental documentation services for incorporation of high occupancy vehicle (HOV) lanes to a 30-mile portion of SR 101L (Loop 101) between I-10 and Tatum Boulevard and 3 miles of additional general purpose (GP) lanes between 31st and 15th Avenues. Facilitated public involvement and agency coordination efforts to build consensus among local communities and affected agencies.

3. (1) TITLE AND LOCATION <i>(City and State)</i> 75th Avenue and Thunderbird Road Intersection Improvements, City of Peoria, AZ	(2) YEAR COMPLETED	
	Professional Services 2010	Construction (if applicable) 2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
Project manager for this CMGC project that included traffic analysis and final design plans for intersection improvements. Compared alternatives based on construction and right-of-way costs, utility impacts, access control, intersection operation, level of service, and travel time delay. Final plans included roadway, drainage, pavement marking/signing, traffic signal, lighting, and signal interconnect plans and provided layout of fiber communications and conduit.

4. (1) TITLE AND LOCATION <i>(City and State)</i> I-17 Drainage Improvements, ADOT, Phoenix, AZ	(2) YEAR COMPLETED	
	Professional Services 2006	Construction (if applicable) 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
Project manager for final design that improved drainage along I-17 and cross streets at Peoria, Cactus, Thunderbird, and Greenway roads. Four pump stations were replaced with two large retention basins and gravity drainage to the Arizona Canal Diversion Channel (ACDC). The project included large-diameter pipe design, trenching, and frontage road replacement. A dynamic hydraulic model (XPSWMM) was used to optimize pipe sizes.

5. (1) TITLE AND LOCATION <i>(City and State)</i> US 93 Southbound Ranch Road, from Mile Post 104.1 to Mile Post 106.0, ADOT, Mohave County, AZ	(2) YEAR COMPLETED	
	Professional Services 2009	Construction (if applicable) 2011

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
Project manager for final design of a new four-lane rural divided highway by constructing a new two-lane roadway adjacent to the existing two-lane roadway. The context-sensitive project included complex cross drainage and channel design and traversed important visual resources that are of special interest to ADOT, BLM, and the traveling public. Flexible design standards were considered when their use would maintain safety standards. Plans included plant salvage and replanting and extensive erosion control measures.



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

a. NAME Gerry Perez	b. ROLE IN THIS CONTRACT Highways/Streets/Airfield Paving/Parking Lots/Civil	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 1

d. LOCATION *(City and State)*
ATKINS Phoenix, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Coursework: Engineering, Phoenix College; Roadway lighting and traffic control design, IMSA	f. PROFESSIONAL TRAINING - REGISTRATIONS
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Gerry Perez designs projects using AutoCAD Civil 3D/Microstation/Inroads/SignCAD/ as it applies to roadway design, traffic signals, work zone/traffic control, street/freeway lighting, pavement marking, and signing design. He is efficient in preparing cost estimates and material quantities and calculations per required standards. He has developed CAD standards and implemented them into projects.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> 11th Avenue and Glenrosa Avenue Intersection Traffic Calming Circle Design Services, Phoenix, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CAD designer. Traffic calming design (mini-circle) for intersection of Glenrosa and 11th Avenue.	Professional Services 2013	Construction (if applicable) N/A
		<input checked="" type="checkbox"/> Check if project performed with current firm	

2.	(1) TITLE AND LOCATION <i>(City and State)</i> Porter and Honeycutt Widening PS&E Repackaging, Maricopa, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CAD designer. Repackaging of prior Porter/Honeycutt Widening PS&E to allow for phased construction.	Professional Services 2013	Construction (if applicable) N/A
		<input checked="" type="checkbox"/> Check if project performed with current firm	

3.	(1) TITLE AND LOCATION <i>(City and State)</i> Queen Valley Flood Mitigation Design, Queen Valley, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CAD designer. This project includes drainage design and scour mitigation solutions for an undersized channel in a residential development. The design will develop erosion control and stabilization plans, along with roadway drainage and improved culvert crossings. Atkins performed a cost-benefit analysis during the alternatives phase, which resulted in a 100-year flooding solution for the same cost as the previously proposed 25-year solution.	Professional Services 2013	Construction (if applicable) N/A
		<input checked="" type="checkbox"/> Check if project performed with current firm	

4.	(1) TITLE AND LOCATION <i>(City and State)</i> South Dry Lake Bed Road Preliminary Planning and Design, Boulder City, NV	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CAD designer. Atkins is providing preliminary design and layout for this planning project that includes creating a roadway network in the Boulder City energy corridor, which has approximately 100 acres allotted for solar energy. The roadway design requires access from US 93 and a municipal arterial network within the site. Atkins is coordinating with the City of Boulder City and the site developers to determine the best roadway network in order to create the preliminary plan set.	Professional Services 2013	Construction (if applicable) N/A
		<input checked="" type="checkbox"/> Check if project performed with current firm	

5.	(1) TITLE AND LOCATION <i>(City and State)</i> Zone 27 Water System Improvements Design and Construction Support Services, Prescott, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CAD designer. This project involves engineering design and construction services for the Zone 27 pump station, water main, and reservoir for the City of Prescott. This project is one of the largest water system improvements in the City's history. The project also involves preparing, submitting, and securing the required permits from the Arizona Department of Environmental Quality (ADEQ) for the City.	Professional Services 2013	Construction (if applicable) N/A
		<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 Gilbert Gardner, PE	b. ROLE IN THIS CONTRACT Highways/Streets/Airfield Paving/Parking Lots/Civil	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 4
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.C.E., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, CA, CO	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Gilbert Gardner's project management experience includes major transportation facilities and mega projects from the scoping and planning and environmental stages through to final design and construction. He also has expertise in the completion of state highway system projects. He is known for his ability to deliver projects on expedited schedules.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Anaheim Fixed-Guideway Transit Corridor Study, Anaheim, CA	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. Atkins is responsible for the alternatives analysis (AA), environmental impact report (EIR), environmental impact study (EIS), and conceptual engineering for the new east-west transit connection between the Anaheim Regional Transportation Intermodal Center (ARTIC) and the general area of the Anaheim Resort area.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Whittier Parking Management Plan, Whittier, CA	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE QA/QC reviewer. Atkins assessed the City's existing parking resources and community needs to determine future parking needs and goals. Atkins developed a range of parking recommendations and options for efficient and effective parking strategies. The team also developed recommendations for the implementation and maintenance of existing and proposed public improvements.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Santa Fe Commuter Rail for Mid-Region Council of Governments (MRCOG) – Albuquerque, NM	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior rail engineer. Provided planning and design oversight for the implementation of a fast-tracked commuter rail system between the cities of Belen and Bernalillo. The project included nine intermodal passenger stations and park and ride facilities along the 46-mile long corridor. The project included design of park-and-ride and station platform facilities at four locations on an accelerated schedule. Also served as the quality control manager on this project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Metro North Line, Houston, TX	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As quality assurance manager, responsible for quality assurance for the preliminary design of an 8-mile light rail system for the Houston Metro. Primary responsibilities included technical review of the proposed design criteria, development of quality assurance and quality control procedures for the project, and development of cost estimating procedures and project budget.	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Albuquerque Modern Streetcar, Albuquerque, NM	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project controls manager. Responsible for scheduling and QA for the planning and preliminary design of an 8-mile modern streetcar system. Provided technical review of the proposed design criteria, development of QA/QC procedures, preparation of the planning, design and construction schedule, and development of cost estimating procedures and project budget. Developed commercial terms for the vehicle procurement and managed the preparation of RFP documents for the CMGC procurement process.	<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 Angelo Spata, PE	b. ROLE IN THIS CONTRACT Highways/Streets/Airfield Paving/Parking Lots/Civil	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 24
d. LOCATION (City and State) ATKINS Henderson, Nevada			
e. EDUCATION (DEGREE AND SPECIALIZATION)		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV, CO, UT	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Angelo Spata focuses primarily on planning and the design of transportation-related projects. His expertise includes freeway and urban arterial design with drainage, utilities, signing/stripping, and right-of-way coordination. He was the project manager for the Galleria Drive and Auto Show Drive interchanges and the Burkholder Boulevard Roadway and Trail project.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) I-15 Northbound Widening Design and Environmental Documents, Las Vegas, NV	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QA/QC reviewer. Atkins prepared final plans, cost estimates, and special specification provisions to Nevada Department of Transportation standards for all four phases of the widening of 24 miles of I-15 from Primm to Sloan south of Las Vegas. The design added one additional northbound lane within the existing median and increased the inside shoulder width; widened and seismically retrofitted two existing bridges; and included signing, striping, and traffic control.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) McCarran International Airport Satellite D Design, Phase I (Contract 2010), Las Vegas, NV	(2) YEAR COMPLETED	
		Professional Services 2000	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design manager. Atkins was responsible for the civil design for the apron of a new satellite facility, Satellite D, at McCarran International Airport. The Satellite D site work project consisted of aircraft parking aprons for the first 28 aircraft parking positions at the new concourse and remote aircraft parking positions associated with the airport expansion.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Flamingo Diversion Channel Design, Rainbow Branch, Las Vegas, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QA/QC reviewer. Responsible for providing plan review and design support to key personnel. Atkins provided design engineering and hydrologic and hydraulic analyses for this regional storm drain facility. Services included a detailed hydrologic analysis of the urbanized tributary watershed, field reconnaissance and review of development plans and drainage studies, and detailed hydraulic modeling of the storm drain systems.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Arroyo Grande Sports Complex Design, Henderson, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-in-charge. Atkins designed this park renovation project, which included incorporating many new elements that had to meld seamlessly with the existing facilities already offered within the park. Among the new features Atkins designed were a dog park and agility course, a bicycle terrain park, a gathering and awards plaza, trails and trailheads, a 200-foot pedestrian bridge, new signage, and baseball/softball-themed interpretive gateways.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) F Street Reopening Design Services, Las Vegas, NV	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Initial project manager responsible for managing client contact and communication, agency coordination, and the preparation of improvement plans, specifications, and cost estimates. Initially coordinated the efforts of roadway, traffic, drainage, and public outreach disciplines. Atkins provided preliminary design, environmental studies, and final design for reopening F Street, a significant arterial that was closed as part of the I-15 Design-Build North project.	<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 Joey Paskey, PE, PTOE	b. ROLE IN THIS CONTRACT Traffic/Planning/ITS	c. YEARS EXPERIENCE	
		1. TOTAL 11	2. WITH CURRENT FIRM 4
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV, CA, UT, TX	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Joey Paskey's experience includes design of ITS corridors, traffic signal systems, school flasher systems, signing, and marking plans. She conducts QA/QC reviews and has prepared traffic engineering and planning projects including numerous traffic impact studies for varied land uses. Professional Traffic Operations Engineer (PTOE) No. 3326, 2014			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Glendale ITS Strategic Plan, Glendale, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Since the development of the Sports Facilities ITS Master Plan in 2004, the City has continued to deploy ITS devices and a communications infrastructure at various locations, including fiber optic and wireless communications backbone, closed-circuit television cameras for surveillance, vehicle detection cameras, and dynamic message signs. Atkins recently completed tasks to develop the City of Glendale ITS Strategic Plan and a framework of future deployments to implement the plan.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Bell Road Dynamic Message Sign Design, Surprise, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. This contract with the Maricopa County Department of Transportation involved the final design of five dynamic message signs and underground fiber optic infrastructure on Bell Road, in accordance with the Atkins-developed project scoping report and 40 percent plans.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> West Valley Dynamic Message Signs, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager responsible for the design, production, and coordination of 40 percent plans and a project scoping report for the installation of dynamic message signs at eight locations. The scoping report documents the selection of the sign locations and identifies issues associated with the final design, construction, and operation. The report also provides a cost estimate for the construction of the eight dynamic message signs. Atkins is responsible for extensive interagency coordination.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> ITS Project Design Services, Nevada Dept. of Transportation (NDOT), Statewide, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer responsible for ITS design and coordination with NDOT. Atkins is providing design and CAD services to NDOT on a project-by-project basis. Atkins is providing design and CAD services to NDOT on a project-by-project basis. We are providing a series of ITS-related tasks and design for isolated projects	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> RTC Design Build ITS Infrastructure (2010), Las Vegas, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Atkins was responsible for the design, production, and coordination to provide record drawings for ITS infrastructure for approximately 26 miles along the I-215/CC 215 Beltway. The design included fiber optic cable, dynamic message signs, travel time signs, flow detectors, closed-circuit television, and signal interconnect.	<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 Theresa Gaisser, PE, PTOE	b. ROLE IN THIS CONTRACT Traffic/Planning/ITS	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> ATKINS Henderson, Nevada			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV, CA, UT	

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Theresa Gaisser's experience includes many complex freeway, arterial, transit, land development, and airport projects. She has managed a variety of design, operations, and analysis projects; prepared many traffic studies for environmental impact statements and environmental assessments; and worked with the U.S. Forest Service on several national park projects.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Arroyo Grande Sports Complex Design, Henderson, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Atkins designed this park renovation project, which incorporated many new elements that had to meld seamlessly with the existing facilities already offered within the park. Among the new features that Atkins designed were a dog park and agility course, a bicycle terrain park, a gathering and awards plaza, trails and trailheads, a 200-foot pedestrian bridge, new signage, and baseball/softball-themed interpretive gateways.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> On-Call Traffic Engineering Services, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE QA/QC. Atkins is providing on-call traffic engineering services including PS&E. Specific project tasks include traffic engineering studies and reports, traffic impact analyses, traffic/transportation engineering research and operational analyses, development and formulation of traffic engineering policies and procedures, safety improvement studies, and training related to traffic engineering topics.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> James Smalley Elementary School, Henderson, NV	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The 12.92-acre site is located in the City of Henderson. The proposed site is bisected by an existing half street right-of-way, which must be vacated via a vacation map. Atkins recommended that a parcel map be performed on the site to combine all seven parcels into one parcel. The zoning classification for the site was Rural Estates Residential (RS-1A).	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> On-Call Traffic Engineer, City of Maricopa, AZ	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Atkins is providing traffic engineering services to the City of Maricopa on an as-needed basis. Our task assignments have included traffic signal PS&E and bidding assistance for four new traffic signal installations. Additionally, Atkins has provided the City of Maricopa with signal timing development and review services for traffic designs and impact analyses for proposed developments.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Charleston/Desert Foothills Drive High School Design, Las Vegas, NV	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project involved engineering design services for the Charleston/Desert Foothills High School located on 42 acres. The scope of services provided as a subconsultant included boundary and topographical surveys, grading, utilities, and traffic and hydrology studies. Due to the locality and complexity of the project, extensive cooperation was required with the city of Las Vegas, the city of Summerlin, the Nevada Department of Transportation, and the Clark County Water Reclamation District.	<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 Jaime Chang, PE	b. ROLE IN THIS CONTRACT Structural Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 44	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> ATKINS Henderson, Nevada			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil & Structural Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, UT, NV, CA	

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Jaime Chang's experience covers projects including transportation, aviation, drainage, water resources, and facilities, giving him deep knowledge of the federal and local structural codes. He has worked on the design of more than 30 bridges. Projects include the design of retaining walls, sound walls, drainage structures, signal and sign structures, and aesthetic structural components.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> DVT Taxiway A Reconstruction Design (Deer Valley Airport), Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. This project includes the reconstruction of the existing Taxiway A and expansion of the north run-up area (47,000 square yards of new pavement and 70,000 square yards of pavement demolition). The project includes new signage, edge lighting, markings, drainage, utility relocation, and blast fencing.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Las Vegas Wash Trail Bridge at I-15, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural task manager. This project involved preliminary engineering, final design, bidding phase support, and construction management support services for a new multiuse trail segment along the Las Vegas Wash. The project consisted of approximately 0.30 miles of Americans with Disabilities Act-compliant, multi-use trail within existing public right-of-way. The trail alignment was separated and spans I-15, the Union Pacific Railroad, Losee Road, and the Las Vegas Wash.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Pedestrian Bridge at Lizard Acres Wash, Surprise, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. Atkins provided engineering design for a new pedestrian bridge. The 125-foot-long, 10-foot-wide, single-span bridge was a prefabricated structure. Atkins provided foundation design, gabion-basket bank protection; USACE 404/401 permitting, environmental permitting, scour analysis and design; bridge drainage report; and full set of PS&E for construction, and coordination with USACE to determine if coverage under Nationwide Permit 39 was applicable at the site, which was deemed acceptable.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Arroyo Grande Sports Complex Design, Henderson, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. Atkins designed this park renovation project, which incorporated many new elements that had to meld seamlessly with the existing facilities already offered within the park. Among the new features that Atkins designed were a dog park and agility course, a bicycle terrain park, a gathering and awards plaza, trails and trailheads, a 200-foot pedestrian bridge, new signage, and baseball/softball-themed interpretive gateways.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Los Angeles International Airport Second Level Roadway Expansion Joint and Deck Repairs Design, Los Angeles, CA	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. Atkins is preparing the PS&E for the rehabilitation and replacement of expansion joints and hinges, along with deck repair for the seven bridges that comprise the LAX Second Level Roadway. Due to the numerous hinges to be rehabilitated and to minimize traffic impact, Atkins is providing complex construction traffic staging.	<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 Percy Penafiel, PE	b. ROLE IN THIS CONTRACT Structural Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 12
d. LOCATION <i>(City and State)</i> ATKINS Henderson, Nevada			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV, CA	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Percy Penafiel has 20 years of structural engineering experience. He has expertise in analysis and design of reinforced concrete, prestressed concrete, and steel bridges. His experience includes structural design of pedestrian bridges, culverts, viaducts, industrial, commercial, and residential buildings.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Las Vegas Wash Trail Bridge at I-15, NV	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. This project involved preliminary engineering, final design, bidding phase support, and construction management support services for a new multiuse trail segment along the Las Vegas Wash. The project consisted of approximately 0.30 miles of Americans with Disabilities Act-compliant, multi-use trail within existing public right-of-way. The trail alignment was separated and spans I-15, the Union Pacific Railroad, Losee Road, and the Las Vegas Wash.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Central Phoenix/East Valley Light Rail Transit Construction Administration Services, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for structural design of the Central Avenue Bridge over the Grand Canal. Atkins also performed construction administration for this 20-mile fixed-guideway through central Phoenix. The project included a fixed guideway system, low-floor stations and vehicles, parking facilities, and light-rail transit system structures. Design included demolition/existing conditions plans, guideway and roadway drainage plans, National Pollutant Discharge Elimination System plans, and utility relocation plans for public utilities.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Pedestrian Bridge at Lizard Acres Wash, Surprise, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. Atkins provided engineering design for a new pedestrian bridge. The 125-foot-long, 10-foot-wide, single-span bridge was a prefabricated structure. Atkins provided foundation design, gabion-basket bank protection; USACE 404/401 permitting, environmental permitting, scour analysis and design; bridge drainage report; and full set of PS&E for construction, and coordination with USACE to determine if coverage under Nationwide Permit 39 was applicable at the site, which was deemed acceptable.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Los Angeles International Airport Second Level Roadway Expansion Joint and Deck Repairs Design, Los Angeles, CA	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. Atkins is preparing the PS&E for the rehabilitation and replacement of expansion joints and hinges, along with deck repair for the seven bridges that comprise the LAX Second Level Roadway. Due to the numerous hinges to be rehabilitated and in order to minimize traffic impact, Atkins is providing complex construction traffic staging.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> School District Onsite Structural Design Services, NV	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural engineer. The structural design team has provided onsite civil structures for numerous school projects for the Clark County School District (CCSD). The designs have included intricate retaining wall and ramp systems measuring up to 30 feet in height, underground vaults, onsite drainage facilities, and school ground screen walls.	<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 Linda Potter, PE, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 4
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Geological Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, NV	

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Linda Potter's expertise includes hydrology, hydraulics, grading, and drainage. She is well versed in FEMA requirements. Her experience in Arizona includes more than 100 design concept projects, floodplain projects resulting in flood insurance rate map (FIRM) revisions, and floodplain infrastructure design projects. Certified Floodplain Manager - Arizona US-03-00967, 2003

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	DVT Taxiway A Reconstruction Design (Deer Valley Airport), Phoenix, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Drainage engineer. This project includes the reconstruction of the existing Taxiway A and expansion of the north run-up area (47,000 square yards of new pavement and 70,000 square yards of pavement demolition). The project includes new signage, edge lighting, markings, drainage, utility relocation, and blast fencing.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Cottonwood Railroad Wash Floodplain Delineation Study, City of Cottonwood, AZ	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager for a floodplain delineation study on Railroad wash in Cottonwood, Yavapai County, Arizona. The study included HEC-RAS hydraulic modeling for channel flows and FLO-2D modeling for characterization of a non-levee embankment structure. Atkins assisted the City with public notifications and an open-house public meeting.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Queen Valley Flood Mitigation Project, Pinal County, AZ	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. The project provides PS&E for channel improvements, including multiple-cell box culvert design at roadways. The design additionally developed erosion control and stabilization plans, along with roadway drainage, landscaping plans, maintenance access, and access control. Atkins performed a cost-benefit analysis during the alternatives phase. Right-of-way services included numerous easements on private property and on federal land managed by the Bureau of Land Management.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	La Paz County, Contract County Engineer and Floodplain Administrator, La Paz County, AZ	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Contract floodplain administrator for La Paz County. Ms. Potter is responsible for determining compliance with the minimum standards of the National Flood Insurance Program (NFIP) and 44 CFR Part 60.3. This contract has included submittal of a hazard mitigation grant to FEMA, site inspections, elevation certificates, and coordination of floodplain issues throughout the county.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Yarnell and Doce Fire Floodplain Support Services, Yavapai County, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager for emergency response services related to the Yarnell Hill Fire and Doce Fire. These services include developing pre- and post-burn hydrologic and hydraulic models to characterize the change in runoff potential. Atkins prepared hydrology and inundation limits based on post-fire watershed conditions within 48 hours. We additionally designed drainage improvements in Yarnell to mitigate scour and flooding as part of an emergency protection grant.	<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 Brian Schalk, PE, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering B.S., Civil Engineering; B.A., Philosophy		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, CA, AK	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Brian Schalk has served as project manager/engineer on a variety of drainage and flood hazard protection planning studies and design projects. He has worked with local communities and county, state, and federal agencies to identify flood hazards, understand constraints and needs, and formulate strategies to solve these challenges. Certified Floodplain Manager, US-04-01304			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Munds Park FEMA Risk MAP Study, Munds Park, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager/engineer. Detailed restudy of three streams, totaling 7.7 linear miles. Hydrologic and hydraulic (H&H) analyses were completed using xpSWMM, HEC-RAS and xp2D. Results were used to update four digital flood insurance rate maps. Hydraulic results were provided in grid format for future production of FEMA's non-regulatory Risk MAP products.	<input type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Cave Creek Wash Bank Revetment for NRCS Emergency Watershed Protection Program, Cave Creek, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager/engineer. A riprap channel bank revetment measuring 3,680 feet in length (18- and 24-inch D50) was designed to protect against lateral erosion. The design section included a 2H:1V slope, varying scour-dependent toe-down depths, and 1.25 feet of freeboard to account for flow super elevation. Deliverables included a for-construction design package.	<input type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> USACE's Va Shly' Ay Akimel Salt River Ecosystem Restoration Project, SRPMIC/Tempe/Mesa, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager/engineer. Hydraulic and sedimentation modeling of the subject reach of Salt River were used to verify the sustainability of the with-project condition and to quantify pre- versus post-project channel changes. The with-project condition included re-grading of the channel, clearing of non-native plant species, planting of native plant species, and construction of wetlands.	<input type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Tierra Del Rio Flood Hazard Mitigation Facilities, Mohave Valley, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager/engineer. This local area had routinely experienced flood-induced damages such as collapsed walls, damaged house foundations, and scouring within drainage easements. Mitigation alternatives included five upstream basins; improved roadway cross-section/profile; and two improved drainage easements. Deliverables included a for-construction design package.	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Certification of the Holbrook Levee System on Little Colorado River, Holbrook, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager/engineer. The Holbrook Levee System along the Little Colorado River was evaluated per 44CFR65.10 criteria to determine FEMA accreditation eligibility. Levee criteria evaluated included levee freeboard, closures, embankment protection, interior drainage and operations and maintenance plans. A technical data notebook was submitted to FEMA and Levee System was accredited in February 2011.	<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 Hari Raghavan, Ph.D., PE, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Ph.D., Ocean Engineering; M.S., Civil Engineering; B.Tech., Naval Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, CA	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Dr. Hari Raghavan has 13 years of experience in hydrologic, hydraulics, sediment transport, and river mechanic analyses. His expertise includes development of numerical models for a variety of flood hazard mitigation projects/ studies completed for a diverse set of clients. Certified Floodplain Manager, US-04-01299, 2004			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Moovalya Estates Sediment Basin and Storm Drain Design, La Paz County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for the design of a sediment basin and storm drain system to control flooding and sediment deposition in La Paz County, Arizona. Hydrology, hydraulics, and sediment yield calculations per the MUSLE methodology were performed to determine design requirements. Right-of-way acquisition support was provided by Atkins to obtain an easement from the Arizona State Land Department.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinal County On-Call Contract, ACIP Structure Data Collection, Amarillo Basins, Pinal County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Evaluation of four multi-cell above-ground structures in Amarillo Valley, Pinal County, AZ. Data collection, hydrologic modeling, inspection, and criteria evaluation were performed. Additionally, numerous hypothetical breach analyses were performed using FLO-2D software and the results compiled into color-coded inundation maps.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> San Antonio River Basin Regional Model Standards H&H Modeling Sediment Transport Section, San Antonio, TX	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. This ongoing project involves an update of the regional modeling standards document to include a section on sediment transport section. This section includes guidance for addressing FEMA MT-2 Form questions related to sediment transport.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Cottonwood Railroad Wash Floodplain Delineation Study, City of Cottonwood, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Floodplain delineation study on Railroad wash in Cottonwood, Yavapai County, Arizona. The study included HEC-RAS hydraulic modeling for channel flows and FLO-2D modeling for characterization of a non-levee embankment structure. Atkins assisted the City with public notifications and an open-house public meeting.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Zone A Floodplain Delineation Study, Phase 1, Yavapai County Flood Control District, Yavapai County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Responsible for the hydraulic analysis and floodplain delineation for 154 miles of washes. The project involves completing a FEMA RiskMAP-compliant approximate floodplain delineation study for several streams in Yavapai County. He also performed FLO-2-D modeling for a stream where 1-D flood routing program was over estimating the inundation limits.	<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 Seth Ahrens, PE, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 11
d. LOCATION <i>(City and State)</i> ATKINS Roseville, California			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Environmental Water Resources Engineering: B.S., Chemical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ, CA	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Seth Ahrens specializes in surface water modeling, floodplain management, stormwater infrastructure design, and GIS-based automated modeling software and techniques. His expertise includes hydrologic and 1D/2D hydraulic modeling and analysis, FEMA flood insurance studies, and FEMA letters of map revision. Certified Floodplain Manager, Arizona US-09-04292			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Arizona Counties Insurance Pool (ACIP) Certification Project, Pinal County Public Works Department, Pinal County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. This project assesses the condition of above-ground levees located throughout the county to develop a plan to manage these structures and seek insurance coverage through ACIP for the levees for which the County was responsible. The project included data collection, data assessment, field work, assignment of priority rankings, and the development of action plans for high-priority structures. The team reviewed 1,249 structures and recommended that 121 structures be considered for inclusion in the ACIP.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Wittmann Phase III Floodplain Delineation Study, Flood Control District of Maricopa County (FCDMC), Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager and lead modeler for this study of approximately 13 miles of streams in the Wittmann area near the City of Surprise, Arizona. Modeling was completed using HEC-RAS and ArcMap extension HEC-GeoRAS. Floodplain mapping was plotted on 2-foot contour data in an ArcMap environment using custom floodplain mapping tools developed in-house by Atkins. FEMA approved the Technical Data Notebook (TDN) with minimal comments.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Gavilan Peak Floodplain Delineation Study, FCDMC, Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As project manager and lead modeler, developed hydraulic modeling and floodplain mapping for 18 miles of Gavilan Peak Wash and 12 of its tributaries. Modeling resulted in water surface profiles along each stream for the 100-year event. Floodplain mapping was plotted on 2-foot contour data in an ArcMap environment using custom floodplain mapping tools developed in-house. Reporting conformed to Arizona Department of Water Resources TDN format. FEMA approved the TDN with minimal comments.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Hydrologic and Hydraulic (H&H) Analyses and Floodplain Mapping, FEMA, Mohave County, AZ	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As engineering team lead, spearheaded efforts to develop updated H&H analyses and floodplain mapping for 150 stream miles in six communities throughout Mohave County. Photogrammetric survey data and LiDAR topographic data were used as the basis for the terrain model. The H&H modeling associated with this project was completed using HEC-GeoHMS, HEC-HMS, HEC-GeoRAS, and HEC-RAS.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Flood Map Production Coordination Contract Studies Group Engineer, FEMA Region VI, AR, LA, NM, OK, and TX	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a member of the review team, Mr. Ahrens reviewed and provided comments on hydrologic and hydraulic aspects of flood insurance study and conditional letter of map revision applications submitted by study contractors in Region VI to ensure these studies conformed to FEMA regulations.	<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 Anil Nampally, PE, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 9	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering B.Tech., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ (exam passed, paperwork pending)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Anil Nampally's experience in hydrology and hydraulic modeling includes 2D modeling and designing flood control structures, performing floodplain delineation studies and mapping, and extensively using GIS for water resources projects. Certified Floodplain Manager: Arizona, US-11-05847, 2011			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Red Valley Ranch, PM Consultants, City of Maricopa, Pinal County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. A major portion of the site was in FEMA flood Zone A, so a conditional letter of map revision (CLOMR) was submitted to remove the site from Zone A. Performed existing floodplain delineations using HEC-RAS, HEC GeoRAS, and GIS. Designed the proposed channels, culverts, and detention basins to safely route the off-site runoff and tie into the existing floodplain. The proposed channels and culverts were modeled in HEC-RAS and a CLOMR was approved.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Moovalya Estates Sediment Basin and Storm Drain Design, La Paz County, AZ	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Designing a sediment basin and storm drain system to control flooding and sediment near the Parker Strip. Hydrology, hydraulics, and sediment yield calculations per the MUSLE methodology were performed to determine infrastructure design requirements. He reviewed the FLO-2D inundation limits to determine the appropriate sediment basin location. Also working on right-of-way acquisition for the drainage easement from the Arizona State Land Department.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Cottonwood Railroad Wash Floodplain Delineation Study, City of Cottonwood, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE QA/QC reviewer for the hydrologic and hydraulic analysis, including FLO-2D results. He also created the final deliverable GIS shapefiles database in FEMA format. Atkins performed a floodplain delineation study on Railroad Wash in the city of Cottonwood. The study included HEC-RAS hydraulic modeling for channel flows and FLO-2D modeling for characterization of a non-levee embankment structure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Yarnell and Williamson Valley Floodplain Delineation Study and Post-fire Services, Yavapai County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer responsible for QA/QC of the hydrologic and hydraulic models for the washes in Yavapai County. Atkins performed emergency response services related to the Yarnell Hill Fire and Doce Fire. These services include developing pre- and post-burn hydrologic and hydraulic models to characterize the change in runoff potential based on removal of vegetation, soil scorching, and other factors.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Zone A Floodplain Delineation Study, Phase 1, Yavapai County Flood Control District, Yavapai County, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Responsible for the hydraulic analysis and floodplain delineation for 154 miles of washes. The project involves completing a FEMA RiskMAP-compliant approximate floodplain delineation study for several streams in Yavapai County. He also performed FLO-2-D modeling for a stream where 1-D flood routing program was over estimating the inundation limits.	<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 Krystle Pemberton, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 9	2. WITH CURRENT FIRM 9
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Krystle Pemberton's experience in water resources engineering includes hydraulic and hydrologic (H&H) analyses, flood control facility master planning, technical drainage studies, and floodplain mapping. She has in-depth knowledge of arid environment drainage design and analysis. Certified Floodplain Manager, US-06-02187			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinal County Santa Rosa Wash Levee Data Collection and Evaluation, Pinal County, AZ	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead hydrologic and hydraulic engineer for the data collection, inspection, and condition evaluation for this 1,100-foot FEMA accredited levee in Pinal County, Arizona. As part of this project, a Flood Response Plan is being prepared that includes a HEC-RAS unsteady state levee breach model and FLO-2D modeling of the inundation limits. The FLO-2D model covers the urban downstream watershed in the City of Maricopa, Arizona.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Verde River Non-Regulatory Floodplain Mapping Products, Yavapai County, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for creating non-regulatory products per FEMA Guidelines and Specifications Appendices N & O for 43 miles of the Verde River. Changes Since the Last FIRM (CSLF) shapefiles and depth, velocity, percent chance, and percent 30-year chance grids are being prepared. Additionally, Atkins is developing two County-specific products focused on risk and emergency action plans. The created products will be used for public outreach, public meetings, compliance, and emergency actions.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Yavapai Hills Drainage Improvements Project, City of Prescott, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for developing drainage improvements for portions of the Yavapai Hills development. The older portions of the residential development lack extensive drainage infrastructure and have experienced damage from flooding. This project requires developing innovative design solutions to retrofit the area with improved drainage conveyances. The steep grades in the community pose project challenges for improving drainage while maintaining lot access.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Kachina Village/Mountaineer Floodplain Delineation Study, Coconino County, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Atkins was selected to provide floodplain mapping for Coconino County under FEMA Cooperative Technical Partner (CTP) Risk Mapping, Assessment, and Planning (RiskMAP) Flood Study Mapping Activity Statement (MAS). Ms. Pemberton is a project engineer for the re-delineation of 10 miles of Pumphouse Wash and Schoolhouse Wash south of Flagstaff using ArcGIS, GeoRAS, and HEC-RAS.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Reems Road at Olive Avenue, Maricopa County Department of Transportation (MCDOT), Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer. Assisted with drainage design for this intersection improvement project. The project included off-site flow modeling to determine impact to the intersection. The Reems Road regional drainage channel necessitated water quality improvements as part of the drainage design.	<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 Ed Kern, CFM	b. ROLE IN THIS CONTRACT Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 1	2. WITH CURRENT FIRM <1

d. LOCATION (City and State) ATKINS Phoenix, Arizona
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e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering B.S., Civil Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS
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g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Ed Kern is recent graduate from Brigham Young University. The topic of his thesis is "Upstream Directed Surface Velocities and Public Safety at Low-Head Dams". He is responsible for performing H&H analyses, scripting GIS automation tools, storm drain design, floodplain delineations, and field work. Certified Floodplain Manager, US-14-08087

H. RELEVANT PROJECTS

1. (1) TITLE AND LOCATION (City and State) Moovalya Estates Sediment Basin and Storm Drain Design, La Paz County, AZ	(2) YEAR COMPLETED	
	Professional Services Ongoing	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Project engineer assisting with the hydrologic and hydraulic analysis related to the design of a sediment basin and storm drain system to control flooding and sediment deposition near the Parker Strip. Hydrology, hydraulics, and sediment yield calculations per the MUSLE methodology were performed to determine infrastructure design requirements. Right-of-way acquisition support was provided by Atkins to obtain an easement from the Arizona State Land Department.

Check if project performed with current firm

2. (1) TITLE AND LOCATION (City and State) Cottonwood Railroad Wash Floodplain Delineation Study, City of Cottonwood, AZ	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Project engineer assisting with field work and hydraulic modeling. The study included HEC-RAS hydraulic modeling for channel flows and FLO-2D modeling for characterization of a non-levee embankment structure. Delineation was provided using custom GIS tools, and grids provided for depth, water surface elevation, and velocities. Atkins assisted the City with public notifications and an open-house public meeting. The study was submitted to FEMA for a letter of map revision.

Check if project performed with current firm

3. (1) TITLE AND LOCATION (City and State) Zone A Floodplain Delineation Study, Phase 1, Yavapai County Flood Control District, Yavapai County, AZ	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Project engineer responsible for the creation of FEMA workmaps for a project involving the hydraulic analysis and floodplain delineation for 154 miles of washes and completing a FEMA RiskMAP-compliant approximate floodplain delineation study for several streams in Yavapai County.

Check if project performed with current firm

4. (1) TITLE AND LOCATION (City and State) Purple Line Public-Private Partnership Design, Maryland Transit Administration, North of Washington, DC	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Project engineer responsible for the optimization of the proposed alignment of the drainage structures. He performed storm drain design, assisted with QA/QC on the drainage quantity analysis and the drainage roll plots, and wrote scripts to increase efficiency and productivity. Atkins is the prime consultant shortlisted on the Flour/Lane/Traylor Bros. team Purple Line Transit Partners for the \$2.2 billion light rail project.

Check if project performed with current firm

5. (1) TITLE AND LOCATION (City and State) Master of Science Thesis, Upstream Directed Surface Velocities and Public Safety at Low-Head Dams	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Graduate student. Mr. Kern created and ran a physical model to obtain data relating to the hydraulic conditions downstream of low-head drop structures. In addition, he created an interactive map and database documenting fatalities at these structures.

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 Alison Rondone	b. ROLE IN THIS CONTRACT Environmental Support	c. YEARS EXPERIENCE	
		1. TOTAL 43	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.A., Environmental Studies B.A., Interdisciplinary Studies		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Alison Rondone provides project management as well as technical and analytical assistance for a variety of environmental documentation and urban planning projects. She is well versed with all National Environmental Policy Act (NEPA) guidelines and is skilled in all aspects of research, critical analysis, and writing.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Candlestick Point-Hunters Point Shipyard Phase II Environmental Impact Report (EIR), San Francisco, CA	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager for this extremely controversial project to redevelop more than 800 acres on the site of Candlestick Park Stadium and a defunct naval shipyard that is also a Superfund site. She was responsible for managing a large, diverse team of Atkins staff and multiple subconsultants.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> East Los Angeles 3rd Street Specific Plan EIR, East Los Angeles, CA	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. The proposed plan defines a vision and establishes standards and strategies for the revitalization of the East Los Angeles community using the principles of transit-oriented design. Components include vibrant and diverse commercial corridors; well-designed buildings, attractive streetscapes, and engaging public spaces; multi-modal streets accommodating pedestrians, bicyclists, and motor vehicles; and a range of housing options.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Colorado Avenue Esplanade Project Environmental Impact Report, Santa Monica, CA	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. Atkins is preparing an EIR and associated NEPA documentation for pedestrian improvements adjacent to the proposed Expo Phase II light-rail terminus in Santa Monica. The proposed project would implement streetscape improvements and enhancements to create a multimodal street and gathering place that would connect the Exposition Light-Rail line, downtown, Palisades Garden Walk, the pier, and the civic center.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Downtown Glendale Specific Plan Program EIR, Glendale, CA	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. The City of Glendale was in the process of preparing a Specific Plan for downtown revitalization. The Specific Plan will provide a set of policies and design guidelines for height, densities, architectural features, preservation of historic buildings, and transit-oriented improvements that will facilitate the City's vision. Atkins prepared a program-level EIR for the Specific Plan that would inform the planning process.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Malibu Middle and High School Campus Improvements EIS, Malibu, CA	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager. The improvements included classrooms, library, administration offices, outdoor spaces; new drop-off/pick-up lane, lighted parking lot and access road, tennis courts, synthetic turf for athletic field, and improved wastewater systems. The area's rural character, traffic associated with the morning drop-off and afternoon pick-up times, as well as impacts from with new parking lot lighting on the aesthetics and biological species were of particular concern to the District, the City of Malibu, and the community.	<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 Zac Sharp, PE	b. ROLE IN THIS CONTRACT Water/Wastewater	c. YEARS EXPERIENCE	
		1. TOTAL 6	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) ATKINS Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Zac Sharp has 6 years of engineering experience on water, wastewater, and reclaimed infrastructure projects including pump stations, pipelines, and treatment facilities. His experience includes hydraulics, engineering design using various rehabilitation techniques, and facility planning.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Surface Water Treatment Plant Improvements, City of Chandler, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer overseeing this task to evaluate and design miscellaneous improvements at the Surface Water Treatment Plant for the City. The project included improvements to the raw pump station and sodium hypochlorite system under the annual permitting, studies, design, and post-design services contract for water/wastewater facilities.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Yavapai-Apache Nation I-17 Corridor Sanitary Sewer Force Main/Water Improvements Design-Build, Camp Verde, AZ	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Staff engineer providing design engineering support for the construction of wastewater conveyance facilities for the Yavapai-Apache Nation. This design-build project includes drinking water system improvements to replace an existing well supply, closure of the existing I-17 corridor wastewater treatment plant and evaporation ponds, construction of new I-17 corridor lift station in a dual 6-inch force main, construction of a 10-inch gravity main from force main transition structure, and removal of existing well and pressure tank.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Rio Salado Oeste Reclaimed Water Pump Station Planning and Design, City of Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Staff engineer assisted in the hydraulic design of a reclaimed water pump station for the City of Phoenix and USACE, Los Angeles District. Design included a new gravity-type drop structure to divert tertiary effluent from an existing 66-inch effluent disposal pipeline, and a new pump station (trench type wet-well with vertical turbine pumps) to discharge captured effluent into two new reservoirs for the irrigation of habitat restoration areas.	<input type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Southeast Water Reclamation Plant Disinfection Improvements, City of Mesa, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Staff engineer assisted in the design of a new sodium hypochlorite disinfection system. The project involved conversion from ultraviolet. Assisted with the layout of the chemical building, design of the chemical feed pumps and associated piping, sizing of the chemical containment area, and design of the chemical truck unloading area. He also assisted in the design of the carry water system used to transport the chemicals to their designated injection locations.	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Glendale Wastewater Master Plan, City of Glendale, AZ	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer. Assisted with preparation of a wastewater master plan that involved modeling, sewer assessment, and development of a capital improvement plan (CIP). A full dynamic hydraulic model was developed of the sewer system (10-inch and larger diameters) to help identify existing system deficiencies and future requirements. Worked with the City and assisted with the development of the CIP to guide new construction and maintenance for more than 660 miles of sewer.	<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 Amanda Marcucci, PE	b. ROLE IN THIS CONTRACT Water/Wastewater	c. YEARS EXPERIENCE	
		1. TOTAL 7	2. WITH CURRENT FIRM 7
d. LOCATION <i>(City and State)</i> ATKINS Wichita, Kansas (home office)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: AZ	

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Amanda Marcucci's experience on water and wastewater infrastructure projects includes water mains, sewer lines, reservoirs, lift stations and pump stations. She has experience in preparing water and sewer master plans and all phases of project design and construction including data collection, property acquisition, calculations, specifications, design drawings, RFIs, and submittal reviews.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Yavapai Hills Lower Pump Station (Zone 7) Design, City of Prescott, AZ	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for design and construction support for a new potable water pump station to replace an existing aged pump station. The project includes an above-grade building enclosure. The pumps will increase city capacity from existing 300-gallons-per-minute (gpm) pump to 1,630-gpm firm capacity. Duties included preparing contract documents, coordinating with utility companies, preparing calculations, and assisting with construction support services.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Zone 27 Improvements, City of Prescott, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for this large project that included siting and design of the 1.25-million-gallon (mg) prestressed concrete Zone 27 Reservoir, the design of the Zone 27 Pump Station, and the design of nearly 3,000 linear feet of 12-inch waterline. As project engineer, Ms. Marcucci assisted with data collection, property acquisition, calculations, specifications, pipeline design, utility coordination, and construction support services.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Zone 24 Reservoir, City of Prescott, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project engineer for the design and construction of the 0.5-mg Zone 24 Reservoir. The project included removal of the existing reservoir and modifying a small site to fit the larger new reservoir. Construction documents were prepared for both a welded steel and a glass-fused-to-steel bolted tank. The City opted for the glass fused to steel bolted tank at bidding. Assisted with data collection, calculations, design document preparation and construction support services.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Wastewater System Expansion Program, Lake Havasu City, AZ	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As project engineer, she assisted with hydraulic modeling of the sewer system, layout of the sewer alignment, design of the sewer mains and laterals, field data collection, and addressing homeowner questions and concerns at public meetings. This project included the design of a municipal sewer system for two sub-basins in Lake Havasu City, including service laterals for approximately 3,400 parcels.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Yavapai County Plan Review, Yavapai County, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a project engineer, she was responsible for reviewing design documents for various water and sewer projects for compliance with ADEQ requirements. She commented on project compliance with agency requirements and advised Yavapai County on whether or not to issue an approval to construct.	<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 David Farley, RLA	b. ROLE IN THIS CONTRACT Parks/Landscape Architecture	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 12
d. LOCATION <i>(City and State)</i> ATKINS Henderson, Nevada			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Landscape Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS RLA: AZ, NV	

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
David Farley's background and responsibilities include master planning, conceptual design, and the development of construction documents and specifications for a variety of commercial, residential, and civic projects, as well as construction observation and administration.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Las Vegas Wash Trail Bridge at I-15, NV	2011	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape architect responsible for designing landscape architecture for this project. Atkins performed preliminary engineering, final design, bidding phase support, and construction management support services for a new multiuse trail segment along the Las Vegas Wash from Civic Center Drive to Losee Road. The trail alignment will be grade separated and span over I-15, the Union Pacific Railroad, Losee Road, and the Las Vegas Wash.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Yardley Garden at Ustler Hall Landscape Architecture Services, Gainesville, FL	2005	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager and senior designer responsible for hardscape design, planting and irrigation design, construction document preparation, contract administration, and construction oversight. Formerly a surface parking lot, the area now functions as the forecourt to the building housing the Women's Studies and Gender Research program as well as a gateway to the remainder of campus.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	F Street Reopening Design Services, Las Vegas, NV	2012	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead landscape architect responsible for overall construction documentation, detail design, and project constructability. Atkins developed a recommended design concept based on engineering data including neighborhood input, existing roadway geometry, drainage flows, traffic data, and cost. Upon acceptance of the concept, we developed plans up to the 30 percent level and obtained environmental clearances. Atkins has been advancing the concept into final construction plans.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Project Neon Final Design and ROW Acquisition Phase I, Las Vegas, NV	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead landscape architect responsible for overall construction documentation, detail design, and project constructability. Atkins is providing aesthetic design, right-of way engineering and acquisition, utility coordination, and public outreach for this improvement project on I-15 between US 95 and Sahara Avenue.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	Arroyo Grande Sports Complex Design, Henderson, NV	2011	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape architect responsible for assisting with the detailed design of the planting, the dog park, concrete slide, trail, signage, and ballfield gateway concept. Wrote specifications. Atkins designed this renovation project, including a dog park and agility course, a bicycle terrain park, a gathering and awards plaza, trails and trailheads, a 200-foot pedestrian bridge, new signage, and baseball/softball-themed interpretive gateways.	<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 Teresa Grombacher	b. ROLE IN THIS CONTRACT Right-of-Way & Utility Coordination	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 2

d. LOCATION <i>(City and State)</i> ATKINS Phoenix, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Continuing education in real estate, law, engineering, and right-of-way related courses	f. PROFESSIONAL TRAINING - REGISTRATIONS
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Teresa Grombacher's experience includes real estate and right-of-way related services under federal, state, and local agency regulations. She performs acquisition of property rights, negotiations, relocation assistance, eligible benefit and cost factor determinations, and comparable housing data research and analysis. Arizona Real Estate Salesperson, License SA08973600

H. RELEVANT PROJECTS

1. (1) TITLE AND LOCATION <i>(City and State)</i> Pinal County Queen Valley Flood Mitigation Design, Pinal County Public Works, Pinal County, AZ	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
Primary agent providing acquisition, relocation, and right-of-way-related services for 11 impacted parcels that include total and partial fee, temporary interest acquisitions, Bureau of Land Management easements, and two residential relocations. Atkins is providing engineering, design, and related channel and culvert construction.

Check if project performed with current firm

2. (1) TITLE AND LOCATION <i>(City and State)</i> Moovalya Estates Sediment Basin and Storm Drain Design, La Paz County, AZ	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
Right-of-way agent. Provided right-of-way acquisition services to obtain an easement from the Arizona State Land Department. Atkins is designing the sediment basin and storm drain system to control flooding and sediment deposition.

Check if project performed with current firm

3. (1) TITLE AND LOCATION <i>(City and State)</i> Project Neon Right-of-Way Services, Phase 1, Nevada Department of Transportation, Las Vegas, NV	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
Right-of-way agent. Responsible for providing Phase 1 right-of-way services. Assisting with scope of work items including project planning; project cost estimate updates; utility relocation plan delivery; right-of-way surveys and mapping; acquisition and relocation assistance services; interim property management; improvement demolition and clearance in acquired right-of-way; utility relocations; and condemnation case information preparation.

Check if project performed with current firm

4. (1) TITLE AND LOCATION <i>(City and State)</i> Paradise-Whitney Interceptor Land Acquisition Services, Clark County Water Reclamation District, Las Vegas, NV	(2) YEAR COMPLETED	
	Professional Services 2013	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
Right-of-way and quality control agent. Atkins is performing ownership and title research, providing property ownership lists, analyzing property rights requirements, providing right-of-way cost estimates, acquiring property rights, and collecting utilities data. Atkins is also providing preliminary design support, surveying, environmental services, and hydrologic design for the Paradise-Whitney Interceptor.

Check if project performed with current firm

5. (1) TITLE AND LOCATION <i>(City and State)</i> Pyramid Way and McCarran Boulevard Intersection Final Design Services, RTC of Washoe County, Reno, NV	(2) YEAR COMPLETED	
	Professional Services 2014	Construction (if applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
Right-of-way and quality control agent providing services across the board from obtaining title reports and legal descriptions to quality assurance review of property acquisition and relocation assistance. Atkins is providing right-of-way services for 70 residential parcels, a church, a commercial building and business tenants, utility engineering, support for possible construction manager at risk delivery, and public outreach support.

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 (City and State) Bullhead City Community Park Improvements Bullhead City, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Bullhead City	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT Varies by task	e. TOTAL COST OF PROJECT Varies by task
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Atkins has provided planning, design, and construction management services for several park projects, including:



Community Park Seawalls. Atkins prepared the design and specifications for nearly 0.5 miles of seawall bank stabilization along the Colorado River adjacent to Community Park. The east bank of the river was migrating into the park due to bank scour, which resulted in lost beach areas and was jeopardizing the structural integrity of park pavilions, utilities, the boat launch facility, and other park infrastructure. Atkins engineers performed hydraulic modeling of the river to determine design parameters for the bank stabilization. An earth-colored split face concrete masonry unit wall was structurally designed for the tractive shear and buoyancy forces of the river flow. The wall was designed to allow pedestrian access to the river through stairs, Americans with Disabilities Act-accessible facilities, and the primary boat launch ramp.

Non-Motorized Boat Launch Facility. Atkins provided planning and engineering services for a non-motorized boat launch facility and associated site infrastructure as part of a State Lake Improvement Fund (SLIF) grant. The planning portion included siting, type (bank mounted or in-river floatation), and vehicular circulation and access required to launch watercraft of various types. Due to daily river elevation fluctuations of nearly 5 feet, the chosen concept was an in-river floating dock mounted to hinges on a stabilized seawall. An access roadway from SR 95 was designed with a turnaround circle adjacent to the boat launch infrastructure. The access roadway required deep cuts in the slope adjacent to the river, and a scenic terraced and landscaped wall was designed to retain the earth adjacent to the roadway. The project also included design of ADA pedestrian walkways.



Community Park Gravity Sewers and 18-1/18-2 Lift Stations and Force Mains. Atkins performed planning, preliminary engineering, and design services for a 24-inch gravity sewer through the Community Park. The gravity sewer was designed to eliminate two aging pump stations in the park and to convey existing and future flows to the new 18-1 lift station. Atkins provided program management, construction oversight, and construction administration for this \$6 million sewer improvement project. Project components include several miles of gravity collection sewer, several miles of force main, house lateral connections, utility relocations, jack-and-bore installations under SR 95, and ADEQ certifications.

Sunshine Marina Water Quality Improvements. Atkins evaluated natural and mechanical alternatives to improve the flushing ability of the historic Sunshine Marina on the Colorado River. The geometry of the marina did not allow for adequate flushing of water, which led to algae and other biological growth that produced poor water quality as well as an unsightly visual character. The completed project drastically improved the water quality and attracted aquatic species that had not been seen in the marina prior to the circulation improvements.



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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> Pedestrian Bridge at Lizard Acres Wash Surprise, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Haydon Building Corporation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$260,000	e. TOTAL COST OF PROJECT \$260,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

As a subconsultant, Atkins provided design services for a 125-foot-long, 10-foot-wide prefabricated pedestrian bridge spanning Lizard Acres Wash. Atkins designed all cast-in-place drilled shaft foundations, abutment details, lighting, and extension of the existing trail system leading to the new structure.

Atkins was also responsible for the gabion-basket bank protection; Section 404/401 permitting with United States Army Corps of Engineers; environmental permitting; scour analysis and design; bridge drainage report; and a full set of plans, specifications, and estimates for construction. The design and construction were completed ahead of schedule and for the budgeted price.



Complete pedestrian bridge



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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> Las Vegas Wash Trail Bridge at I-15 North Las Vegas, NV	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of North Las Vegas	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$697,000	e. TOTAL COST OF PROJECT \$697,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Atkins performed preliminary engineering, final design, bidding phase support, and construction management support services for a new multiuse trail segment along the Las Vegas Wash. The improvements are primarily funded by the Southern Nevada Public Land Management Act and consisted of approximately 0.3 miles of Americans with Disabilities Act-compliant multiuse trail within existing public right-of-way. The trail alignment was separated and spanned over I-15, the Union Pacific Railroad (UPRR), Losee Road, and the Las Vegas Wash. Atkins effectively coordinated this project with the City of North Las Vegas Parks and Recreation and Public Works departments. We were also successful in gaining the support of the Nevada Department of Transportation and UPRR for the project.

Our structures group designed two pedestrian bridges. The first bridge consists of 11 spans with a main span of 200 feet and approximately 1,400 feet of total length across the I-15 freeway, Losee Road, and the UPRR tracks. The second bridge is 125 feet long and crosses over the Las Vegas Wash Drainage Channel. The bridges are steel trusses with concrete decks and supported on single-column concrete piers.

Atkins conducted environmental reviews to assess potential impacts of the proposed action on the existing environment and prepared a categorical exclusion report to document the findings, conclusions, and recommendations. Our environmental scientists worked closely with the design team to avoid impacts to the Las Vegas Wash and therefore eliminate the need for a Section 404 permit.



Bridge construction



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

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

a. TITLE AND LOCATION <i>(City and State)</i> On-Call Traffic Engineering Services Maricopa County, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Maricopa	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT Varies by task order	e. TOTAL COST OF PROJECT Varies by task order
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Atkins is providing on-call traffic engineering services including plans, specifications, and estimates (PS&E). Specific project tasks include traffic engineering studies and reports, traffic impact analyses, traffic/transportation engineering research and operational analyses, development and formulation of traffic engineering policies and procedures, safety improvement studies, and training related to traffic engineering topics. Atkins has provided signal designs for numerous intersections in Maricopa County including:

- Baseline Road/67th Avenue Intersection Improvements and Traffic Signal PS&E
- MC 85/Baseline Road Intersection Improvements and Traffic Signal PS&E
- Union Hills/99th Avenue Traffic Signal Upgrade PS&E
- Olive Avenue/Reems Road Intersection Improvement Alternatives Study and 40 percent PS&E
- Olive Avenue/Sarival Road Intersection Improvement Alternatives Study and 40 percent PS&E
- Maricopa County Multiuse Path Crossings Standards Development
- Maricopa County School Zone Crossing Policy and Procedure
- Maricopa County Work Zone and Special Event Traffic Control Manual



Union Hills/99th Avenue Traffic Signal Upgrade



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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> Queen Valley Flood Control Project Pinal County, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pinal County	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$254,000	e. TOTAL COST OF PROJECT \$318,000 (difference in costs due to value engineering effort)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

This project includes hydraulic analysis, drainage design, and scour mitigation solutions for an undersized channel in a residential development. The design includes 404 permitting, utility relocations, property/ right-of-way (ROW) acquisition, erosion control, roadway drainage, improved culvert crossings, and landscape design. Atkins provided alternative analyses and final PS&E, which resulted in a 100-year solution that was less expensive than the previously proposed 25-year solution. The key design concepts increased the flood protection level from the 10-percent-annual-chance to the 1-percent-annual-chance with a substantial cost savings. Extensive communication as well as open space amenities resulted in overwhelming community support.

Atkins provided all ROW and drainage easement acquisition services to the County, including Bureau of Land Management easement acquisition. Atkins also performed a preliminary jurisdictional delineation to receive USACE nationwide permitting approval, which included cultural and biological surveys. The project will result in a letter of map revision after construction to reflect changes to the existing floodplain. Atkins is also performing construction administration services.

Challenges included at-risk residential parcels, which were acquired to improve channel design and protection level to reduce risk to the community with favorable community support. In addition, utility conflicts were solved with cost-saving relocation designs.



Queen Valley flood control improvement area



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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.)

We recognize that our most important role is to help our clients achieve their agency goals by building synergistic relationships that result in award-winning projects. The experience of our Arizona-registered personnel, combined with our ability to draw upon regional, national, and international resources and expertise, establishes Atkins as the firm with the knowledge, skills, and ability to provide comprehensive planning and design consulting services for any contract awarded from this list.



I. Executive summary

Atkins North America, Inc. (Atkins) has served governments, communities, and their people by enriching the quality of everyday life since 1960. With 70 offices and nearly 2,500 employees nationwide, we are consistently ranked among the top U.S. engineering design firms by Engineering News-Record. Our multidisciplinary capabilities allow us to develop project teams with broad-based experience that facilitate efficient project management and reduce time, costs, and risks for our clients. Because the technical resources of the entire firm are available to all Atkins divisions and offices, we are able to bring world-class technology to every project—big and small. We plan, design, and enable solutions.

Our Phoenix office features engineers and technical support staff with expertise in transportation, construction, environmental, planning, transit, drainage, utilities design, water resources, water/wastewater, and geographic information systems (GIS). Our history of completing projects on schedule and within budget accounts for much of our repeat business.

Atkins has served many local government agencies including the Arizona Department of Transportation (ADOT); the counties of Maricopa, Pinal, Yavapai, Coconino, Navajo, Mohave, and La Paz; and several cities/towns throughout the Phoenix metropolitan area. We are also serving a number of rural communities including Casa Grande, Maricopa, Quartzsite, Parker, Lake Havasu City, Bullhead City, Kingman, Prescott, and Cottonwood. Other state agencies that we often interact with include the Arizona Department of Environmental Quality (ADEQ), Arizona Department of Water Resources (ADWR), Arizona State Land Department (ASLD), Arizona State Parks (ASP), Arizona Game and Fish Department (AGFD) and the Water Infrastructure Financing Authority (WIFA).



Atkins Phoenix office



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Annual Services List experience and staffing

Atkins has the ability to meet all contract needs for projects resulting from this annual services list. As project demands dictate, we can supply additional technical and support personnel by calling upon resources in our other offices, including Henderson, Nevada. We understand how to minimize costs to the client and control expenses when staff travel may be required.



Our offices are electronically networked, providing efficient communication and transfer of information. Our proven ability to form geographically dispersed teams enables us to provide quick, efficient, and responsive services. Atkins' depth of resources and technical capabilities, coupled with our established local knowledge and relationships, will result in a successful capital improvement endeavor.



Recognizing the variable nature of this assignment, Atkins has designated Jim Martin to serve as contract manager and project manager. This organization will provide you with the personal attention of a dedicated point-of-contact, while affording you the consistency and accountability of an overall contract manager. Mr. Martin is readily available to agency staff to oversee our contract, ensure adequate resources, and manage project assignments so that quality goals are met and tasks are completed on time.



With Atkins on your team, you can begin work immediately and stay on schedule. We typically manage numerous projects with multiple priorities. We assess the workload weekly to determine the appropriate allocation of resources.



Staff experience

	Aviation	Bridges	Community Facilities	Construction Management	Dams	ITS	Irrigation/Drainage	Landscape Architect	Stormwater Handling	Specifications	Traffic	Transportation	Water Resource	Wastewater Treatment	Water Wells
Jim Martin, PE, RLS	•	•	•	•			•		•	•	•	•	•		
Heather Thomas, PE	•	•	•				•		•	•	•	•	•		
Anthony Pisano, PE	•	•	•	•	•	•	•		•	•	•	•	•		
Joey Paskey, PE, PTOE			•			•				•		•			
Jamie Chang, PE	•	•	•	•	•		•		•	•		•	•		
Linda Potter, PE, CFM	•	•	•	•	•		•	•	•	•		•	•		
Brian Schalk, PE, CFM	•	•	•		•		•	•	•	•		•	•		
Hari Raghavan, Ph.D., PE, CFM		•	•		•		•		•	•		•	•		
Zac Sharp, PE			•	•						•			•	•	•
Amanda Marcucci, PE			•	•						•			•	•	•
David Farley, RLA		•	•	•			•	•	•	•		•			



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Cooperating agencies

Atkins recognizes that cooperating agencies may fulfill their consulting services needs by drawing from the ADOA list of qualified firms. By doing this, the agencies can save the costs and hassle associated with procuring and administering the consultant selection process. As a multi-disciplined firm, Atkins has performed professional services for many of the COOP members. If selected for the Annual Professional Services list, Atkins will leverage our relationships with COOP members to promote the benefits of using the ADOA contract for their consultant service needs.

Exceptions to the contract

We have performed a legal review of the State’s boilerplate contract and have no exceptions to the language or requirements stated. If awarded a task order contract, we will discuss and partner with the department on any special contract requirements related to the task.

From major transportation and public works projects to recreational facilities, mixed-use communities to industrial and governmental complexes, Atkins assists in all elements of support infrastructure. Through planning and engineering, we help develop the idea into a functional program or facility. Our most important role is to serve as an extension of our clients’ staff, building relationships that have resulted in successful, award-winning projects.

II. Firm areas of specialization, locally and/or nationally

Atkins has played a major role in the unique and dynamic growth in the West Region. We have provided consulting services on diverse public and private projects including gas, water, and sewer pipelines; hydraulic and hydrologic engineering analyses; stormwater planning and flood control facility design; commercial and residential land development; urban arterial and freeway planning, roadway design, and traffic engineering; environmental/biological assessments and permitting; and construction management and inspection services. Our specific services include:

Transportation

- Planning
- Roadway design
- Corridor studies
- Traffic design
- Toll services
- Intelligent transportation systems (ITS)
- GIS
- Bridge design
- Right-of-way (ROW) acquisition
- Construction management
- Land surveying
- Design-build
- Transit

Water/wastewater

- Water and wastewater pipelines
- Wastewater treatment
- Water supply
- Water treatment
- Wastewater supply

Water resources

- Hydrology/hydraulics (H&H)
- Flood control
- Floodplain delineation
- FEMA floodplain mapping
- Letters of map revision (LOMR)
- Conditional letters of map revision (CLOMR)
- Water quality reports

Environmental studies

- Environmental impact statements
- Cultural resources
- Habitat/wildlife assessments
- NEPA permitting
- Geology
- Air quality management
- Hazardous materials and solid waste management
- Environmental management plans

Design/civil engineering

- Site engineering and infrastructure
- Planning and urban design
- Landscape architecture
- Architecture
- Value engineering
- Electrical studies



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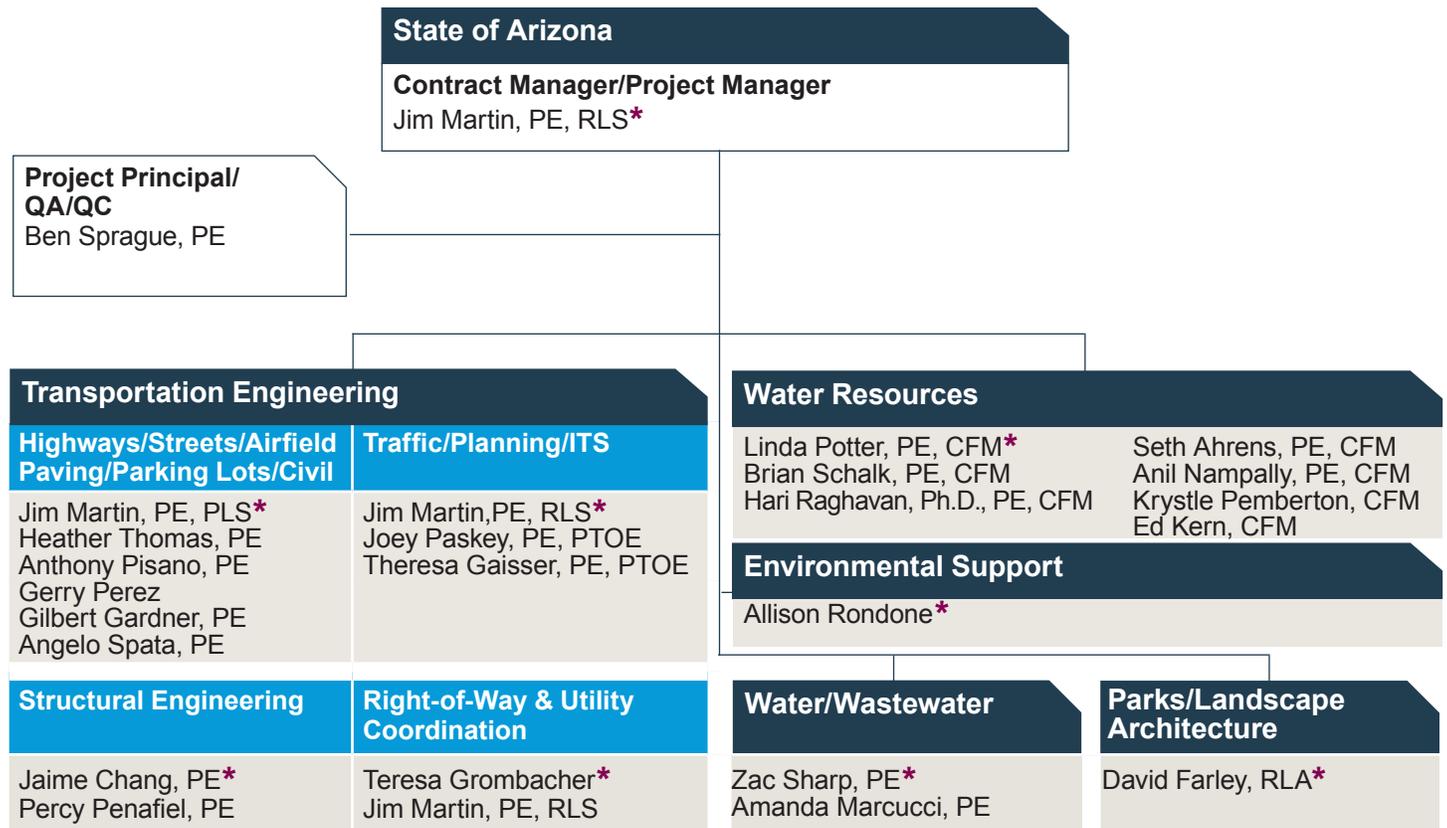
6. ADDITIONAL INFORMATION

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

III. Engineering services

Atkins' engineering practice was founded on the principles of integrity, reliability, and client service. With 54 years of experience, we understand the need to work within budget and schedule and have a reputation for going beyond expectations to meet our clients' goals. Our employees are encouraged to participate in in-house training and programs that cultivate a culture of self-improvement, technical excellence, and entrepreneurship, which ultimately serves as a benefit to our clients. Brief service capabilities, service leader biographies, and an organization chart of our full team follow.

Organization chart



* = Key Staff Member



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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.)

A. Transportation engineering

Atkins’ transportation professionals are experienced in developing engineering solutions for transportation and traffic projects from the initial stages of planning through final design and construction. We specialize in the interaction of vehicular and pedestrian movement integration; pedestrian studies, design element development, and guidelines; parking studies; travel demand modeling; and complex traffic signal design and timing applications for single intersections and multiple-sectioned systems. Our experience encompasses all rural and urban aspects of our clients’ transportation needs. In addition to the transportation services listed in Section II, Atkins provides the following services:

- Traffic engineering studies and analysis
- Traffic signal and signal system design
- ITS and traffic operations
- Program management
- Travel demand forecasting
- Travel demand modeling
- Data collection
- Roadway design
- ROW
- Transportation planning
- Public transit planning and design
- Construction management
- Toll studies
- Surveying/mapping
- Structures

B. Water resources

Atkins’ expertise in water resources encompasses all facets of surface water management including floodplain analysis and protection, drainage, environmental considerations, erosion control, stream restoration, and watershed planning. Our capabilities and experience cover the full spectrum from project planning through engineering design, evaluation studies, construction, and operations. This depth of experience allows Atkins to offer turnkey services, providing both time and cost savings through a coordinated and integrated team approach, whether for a small, specialized drainage study or a large, multidisciplinary water resources project.

Atkins draws upon its wide range of expertise to assist communities in developing, prioritizing, funding, and implementing capital improvement programs that emphasize multi-objective management solutions to address flooding, water quality, environment, and permit requirements. Our team of hydrologists, environmental scientists, civil engineers, regulatory specialists, and geologists works together to provide integrated solutions for the effective management of water resources.

Through participation on rule-making and advisory committees and ongoing involvement with the regulatory process at the local, state, and national levels, Atkins’ water professionals are experts in current regulatory standards. In addition to their expertise, our staff members maintain and use cutting-edge technology and innovation to solve today’s environmental challenges. We have successfully integrated information technologies with asset management and complex regulatory permits. Our new computer models have withstood regulatory scrutiny in areas where no standard previously existed.

Atkins’ capabilities include:

- Adaptive management
- Arc Hydro tools data modeling
- Bridge hydraulics
- Drainage capital improvements
- FEMA
- Flood mapping and flood control
- Flood hazard management
- Floodplain studies and mapping
- H&H analyses
- Integrated water resource planning
- Levee review/FEMA Memo 34
- Low impact development planning
- Master drainage plans
- 2D hydraulic modeling
- National Pollutant Discharge Elimination System permitting
- FEMA floodplain, water quality, and stormwater management permitting
- Regional stormwater facility design
- Scour analysis
- Stormwater best management practices
- Stormwater utility development
- Streambank protection and stabilization
- Water quality
- Watershed Analyst™



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6. ADDITIONAL INFORMATION

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C. Environmental support

From planning and permitting to design, construction management, and operations, our team of engineers and scientists offer comprehensive services supporting a variety of client demands. Our clients include energy companies, state departments of transportation, state and federal governments, counties and municipalities, industries, private land developers, public and private utilities, constructors, aviation, health care, entertainment, criminal justice, and education facilities.

Of particular advantage to many of our clients are the additional services we offer in specialty areas, such as cultural resources, odor control, habitat restoration, brownfields, pipeline materials, information solutions, toxicology, and land management. Our ability to be a single-source solution for most projects benefits our clients through better cost and schedule control. In addition to the services mentioned in Section II, our environmental services include:

- Regulatory compliance and permitting
- Socioeconomic and land use studies including environmental justice
- Geology, soils, and hydrogeology
- Hydrology, water quality, environmental toxicology, and water conservation
- Wetland determinations, permitting, and mitigation/monitoring
- Biological/ecological services
- Cultural resources
- Environmental resource analysis
- Noise monitoring and modeling
- NEPA documentation and clearance
- Differential GPS mapping
- Public involvement

D. Design/civil engineering

Atkins' civil engineering services group provides its clients with expertise in a diverse range of specialized areas including site development, feasibility studies, utilities assessment and acquisition studies, site/civil engineering design, and permitting. From initial regulatory approvals to permitting and from civil design to project management, Atkins' team of professionals brings significant technical expertise to a wide range of retail/commercial, office, residential, institutional, resort, light industrial, mixed-use, and other projects. Our civil engineering services include:

- Regulatory compliance and permitting
- Site suitability studies
- Master infrastructure engineering and planning
- Site engineering
- Resorts and recreation
- Value engineering
- Multi-use facilities
- Program management
- Disaster planning and response
- Urban design
- Commercial and retail development
- Residential development
- Facility assessments
- Educational and institutional facilities
- Program management
- Code review and interface/coordination

Atkins' experience in providing a wide variety of water treatment planning and design services to public and private water utility system owners, operators, and consumers for more than 40 years allows the selection of the best practical technology for each situation. Since 1971, the firm's extensive experience in conventional water treatment processes has been augmented by equally impressive experience in membrane processes. The firm has pioneered the use of new reverse osmosis and membrane softening technology—coupled with innovative energy conservation techniques—to permit the economic development of large-scale subdivisions, where brackish groundwater cannot be treated for human consumption by conventional processes. Atkins also has staff engineers experienced in optimization studies and plant performance evaluations with its own portable field analytical equipment to perform the required lab analysis on site.



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Atkins' experience includes the design of more than 120 wastewater treatment plants in the United States. These plants range in size from less than 1 million-gallons-per-day (mgd) processing capacity to more than 100 mgd and incorporate a wide range of innovative technologies and advanced processes. From preliminary engineering through construction, we have the in-house resources to support the implementation of even the most complex wastewater programs.

We draw from our multidisciplined staff of civil; environmental; chemical; instrumentation; electrical; structural; and heating, ventilation, and air conditioning (HVAC) engineers to form project teams with the experience and qualifications to get each job done efficiently and effectively, in accordance with each client's needs. Our plans and specifications provide the clarity that facilitates close bidding and the detail necessary for contractors to correctly build facilities. We pay close attention to construction materials and the quality of mechanical equipment to lower lifecycle costs.

IV. Relevant project experience

Wet Beaver Creek Pedestrian Bridge, Yavapai County Public Works, Yavapai County, Arizona

Atkins performed the planning and design of a steel truss pedestrian bridge over Wet Beaver Creek in the Lake Montezuma community. Project work included scoping of various structure types, cost and design impacts, structural renderings and a public involvement program to garner consensus on a publicly approved alternative. Final design included bridge, walls, and sidewalk plans as well as drainage reports, FEMA and USACE concurrence for floodplain and wetland impacts, scour analysis, environmental permitting including a jurisdictional delineation, cultural resources study and a nesting bird clearance for the Southwest Willow Fly Catcher. Atkins is currently managing the construction administration elements of the project.

Highway Safety Improvement Program (HSIP) Grant Applications, La Paz County Public Works, La Paz County, Arizona

Atkins developed project assessments and supporting HSIP applications for ROW fencing along Salome Highway and Guardrail installations along a 20-mile segment of Alamo Road. Due to cost benefit ratios below the FHWA acceptance criteria, predictive modeling for crash data was used for the Alamo Road project and a systematic approach was used for Salome Highway. This work was very closely coordinated with FHWA, ADOT and the Western Arizona Council of Governments (WACOG) to obtain eligibility status from FHWA. The projects are currently awaiting WACOG TAC approval to be placed on the TIP.

Dysart/Thunderbird Roads Traffic Interchange (TI) Construction Management, City of El Mirage, Arizona

Atkins provided construction management services for this \$1.9 million project to reconstruct an intersection to arterial standards. The intersection has a railroad track diagonally across it, which required construction phasing of both traffic and railroad signals. The project includes undergrounding major utility lines and boring 24-inch conduits under the railroad. It also includes road widening; duct banks and manholes; water line relocation; street lighting; traffic signal installation; concrete curb, gutter, and scuppers; catch basins; sidewalk; landscaping; retention basins; and drywells. Our services include construction management, constructability reviews, quality assurance (QA), contractor schedule analysis and progress monitoring, claim analysis, material testing, and inspection.





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New River Road Corridor Improvement Study, Maricopa County Department of Transportation, Maricopa County, Arizona

Atkins prepared a corridor improvement and access control study for a 10-mile segment of New River Road, linking I-17 to Carefree Highway. The project included a detailed evaluation of alternatives, study of numerous issues, and development of an implementation plan and access control guidelines.

MC 85 and Baseline Road Intersection Improvements, MCDOT, Phoenix, Arizona

Atkins prepared the alternatives analysis and final plans, specifications, and estimates for improvements to the intersection of MC 85 and Baseline Road near Buckeye. The existing T intersection is controlled by a stop sign on Baseline Road and provides no dedicated left-turn lanes on MC 85. Across from the Baseline Road approach are multiple driveways on the south side of MC 85 that provide access to commercial/retail and industrial uses. Recognizing the safety issues and increasing traffic volumes through this intersection, Atkins evaluated multiple alternatives for improving the intersection.

Porter Road HAWK Pedestrian Beacon Design Services, City of Maricopa, Arizona

Faced with the need to safely cross elementary school students across Porter Road, Atkins designed a two-phase improvement plan for the intersection of Porter Road and Alan Stephens Parkway. Phase I was the design of a Hybrid Pedestrian Beacon (also referred to as HAWK) for activated pedestrian crossings. Phase II included the modification and extension of the Phase I plans to provide full intersection signalization (when warranted). The Atkins team provided surveying, utility potholing, design, special provisions, cost estimates and bid documents for this first-ever installation in the City.



Wastewater System Improvements Design and Construction Administration, Bullhead City, Arizona

Under a multi-year on-call contract, Atkins is serving as Bullhead City's wastewater engineer providing study, design, and construction administration services for wastewater lift station rehabilitation, upgrade, decommissioning, and new construction, as well as sewer collection system rehabilitation and expansion, and wastewater treatment plant additions, modifications, and improvements.



Section 208 Plan Update and Wastewater Master Plan. Atkins prepared a comprehensive Section 208 Update and wastewater master plan. The 208 Plan Update addresses current and future wastewater collection, treatment, reuse, and disposal needs for Bullhead City's current city limits and service area. The new master plan included updated wastewater flow forecasts reflecting the changing economic conditions. The master plan has developed a new highly calibrated sewer model in InfoSWMM software to evaluate hydraulic capacity in the sewer collection system, including lift station operations and optimization of the existing collection system.

Lift Stations 10-1 and 10-4 Design and Construction Support Services. The first projects under this contract include design of two new lift stations to replace existing facilities, which will be located on the existing sites, and odor control improvements at a third lift station. The lift station projects include wet well structures, piping, force main connections, demolition of structures to be abandoned, modification of existing lift station structures to be retained, electrical power/controls, odor control, grading, gating, and concrete block walls.



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West Branch Trunk Sewer Assessment and Rehabilitation Recommendations. As part of the 208 Plan update, the City video inspected this trunk sewer and requested Atkins perform a condition assessment and make recommendations for immediate rehabilitation needs. The system included 10,000 feet of existing 36-inch and 42-inch diameter T-lock lined reinforced concrete pipeline that was installed in 1990.

Lake Havasu City Wastewater System Expansion (WWSE), Lake Havasu City, Arizona

Atkins has provided a variety of wastewater services to the City of Lake Havasu City (contracting agency) since 2009. Representative services include:



WWSE CIP, Design, and Construction Management. Atkins completed design and performed construction management of the last two phases of the WWSE Program, the Trotwood and Mockingbird projects, which included conversion of 3,400 properties from septic to sewer systems, and 170,000 feet of new sewer mains. Odor and hydrogen sulfide generation analysis was also completed for these areas, and resulted in cost savings due to removal of drop manholes, and recommendations for system improvements to reduce hydrogen sulfide generation. We also provided construction management for the Chemehuevi area including inspection, engineering, and administration. Atkins completed design and obtained ADEQ approval within 9 months of contract award.

WWSE Engineering Oversight. Atkins performed a technical review and assessment of the sewer master plan, including review of the new InfoWorks dynamic hydraulic sewer model and oversight engineering services for the WWSE Program. The project goal was to review the completed planning work and identify cost savings and refinement opportunities.

Our role included being a technical resource for the City, reviewing the model and previous planning work, and addressing concerns raised by the community. This effort included review of design criteria, pumping systems, and surcharge issues; evaluation of treatment plant options; and participation in workshops with the City Council. Atkins' evaluation of the current system revealed that it had adequate treatment and conveyance capacity for 20 years, resulting in significant savings to the community by deferring tens-of-millions of dollars in unnecessary capital projects.

Lake Havasu City Water System Improvements, Lake Havasu City, Arizona

Atkins has provided a variety of water services to the City of Lake Havasu City (contracting agency) since 2009. Representative services include:



Tank 6A, Water Booster Station 5A, Water Booster Station 1B, and Water Main Improvements. Atkins was recently selected to provide design services for Site 6A reservoir, Booster Pump Stations 5A and 1B, as well as tank rehabilitation support and small-diameter pipeline replacement projects. The City's 2007 Water Master Plan identified these projects as a high priority due to the existing stations being more than 40 years old, undersized and inefficient, and requiring a high level of maintenance. These projects will improve the water transmission and distribution systems, enhance pump station efficiency, and add redundancy across water pressure Zones 4 and 5.

Zones 4 and 5A Water System Improvements. Atkins designed water system improvements at four locations including Zone 4 and 5A reservoir tanks. The project included adding a 0.75-mg tank to the Site 5A reservoir and a 1-mg tank to Site 4. Atkins also prepared an environmental information document for construction of new water pump stations 1, 4, and 5A, which included obtaining state land permits. Atkins also designed a new pipeline crossing of El Dorado Wash and new water transmission main in McCulloch Boulevard.



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Water System Model and CIP Update. Atkins developed an updated hydraulic model with a higher level of calibration to validate and refine major CIP projects, such as pump station upgrades and reservoir expansions, and to evaluate operational enhancements and potential energy savings. The H2OMap hydraulic model was updated with recent water facility additions, revised operational settings, and average day demands. Upon completion of the update, Atkins provided model training to City staff and presented recommendations to City Council.

Booster Pump Station No. 1 Design and Construction Management. Atkins provided the City’s upgrades to Booster Pump Station No. 1—one of the City’s vital pump stations. The project upsized the three existing 1,400-gpm vertical turbine pumps to four 1,400-gpm pumps. A shade structure, electrical enclosure, and site retaining walls were also designed. The existing pump station was on a site with two steel tanks adjacent to Pima Wash, which had experienced extensive degradation. Atkins also provided construction management and cost estimates. A diesel emergency generator was provided at the site as a replacement for the existing gas-powered generator. A new pre-cast electrical building was erected at the site to house the motor control center and programmable logic controller.

67th Avenue at Salt River, MCDOT, Phoenix, Arizona

Atkins developed solutions for crossing the Salt River at 67th Avenue, located between Broadway Road and Southern Avenue. The Salt River flows necessitated frequent closures of 67th Avenue, causing traffic disruptions and costly repairs and maintenance. The Atkins team reviewed and evaluated studies and drainage information (including site visits), developed candidate alternatives based on previous findings, and prepared and submitted a report outlining findings and depicting the preferred alternative. This optimum alternative will create cost-effective, improved low-flow crossing that can handle higher discharges from Granite Reef (diversion dam located on the Salt River) to help avoid roadway overtopping.



Town of Quartzsite On-Call Water and Wastewater Services, Quartzsite, Arizona

Atkins’ services to the Town of Quartzsite (contracting agency) have included:

Water and Wastewater Master Plan. Atkins prepared a water and wastewater master plan update for the Town, which experiences large seasonal influx of tourist populations in the winter months. This influx puts severe pressure on the Town’s water distribution and sewer collection facilities. To alleviate concerns, Atkins provided a master plan update evaluating these seasonal impacts and identifying CIP projects that will strengthen the reliability of the water distribution system and consider expanding the sewer system to areas currently on a septic system. The plan includes development of an InfoWATER hydraulic model and analyses of the Town’s water system vulnerabilities, including emergency operation scenarios such as maximum day plus fire and unplanned well shutdowns. This project also included an evaluation of the Town’s Colorado River water allocation and potential beneficial reuse customers.



Wastewater Treatment Plant and Pipeline Design. Atkins provided project management and value engineering for redesign and upgrade of the Quartzsite Wastewater Treatment Plant. Atkins coordinated the upgrades with the County’s approved 208 plan. The design increased the plant capacity from 0.45 mgd to 0.9 mgd. The redesign reduced the prior design engineer’s estimated construction cost by \$1 million and also provided for a more energy-efficient operation that is estimated to reduce energy costs by approximately \$50,000/year. Atkins staff designed the pipeline and manhole protection for the plant expansion project. This project included protection of nearly 30 manholes in Tyson Wash, which contributed to



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infiltration and inflow problems in the collection system. Atkins designed lift station upgrades, a 1-mile waterline extension, and two sewer line extensions. Atkins also facilitated obtainment of a USDA Grant and Loan and WIFA financing.

Drainage Master Plan. Atkins prepared a conceptual drainage master plan for a portion of the town that is subject to flooding from runoff from the Plomosa Mountains, and contains distributary flow patterns typical of an arid southwest alluvial fan environment. Detailed HEC-1 hydrologic modeling was performed for the flooding sources of Plomosa Wash, Plomosita Wash, and Scaddan Wash. FLO-2D modeling was used to determine flow splits for input into the HEC-1 model. Conceptual solutions to solve flooding problems were presented along with potential funding sources including a FEMA Cooperative Technical Partnership grant for additional analyses and improved floodplain mapping.

Key design features included improvement of an existing detention basin to provide additional storage capacity and underground storm drain systems. Challenges included thousands of recreational vehicles temporarily located in the watershed, many in flood hazard areas. This issue was addressed with notification and flood warning options.

Pinal County Santa Rosa Levee, Pinal County, Arizona

The Santa Rosa Levee is an above-ground embankment that contains flood flows from the Santa Rosa Wash, part of the complex Santa Cruz River system. The levee is recognized by FEMA as providing protection from the base flood. Atkins provided data collection pertaining to the accreditation, design, and construction of the levee including an analysis against 44 CFR 65.10, FEMA regulations, and ACIP criteria. Biannual levee inspections are performed by Atkins. Extensive hydraulic modeling of the wash using HEC-RAS and HEC-GeoRAS was performed. Additionally, a Flood Response Plan was prepared that includes a levee breach analysis using unsteady-state HEC-RAS modeling and FLO-2D inundation limits. The FLO-2D model includes an urbanized area where streets are an important corridor for flow with a grid size of 30 feet.



Drainage System Improvements, Lake Havasu City, Arizona

Atkins designed five improved culvert wash crossings including large, four-barrel, 6- by 10-foot box culverts and smaller, multiple-barrel, 36-inch pipe crossings. The flows were confirmed for each of the washes and the final designs will be in conformance with Mohave County drainage standards. The Swanson Avenue crossing of Pima Wash had an expedited design time due to community concerns with the existing pedestrian crossing. The design is on track to be completed in 2.5 months. The City desires that Swanson Avenue be open to two-way traffic throughout construction, which added phasing and grading challenges. The project included gabion retaining walls in some areas with lower velocities to match aesthetics. Significant improvements to pedestrian safety were accomplished through modifications to the pedestrian path. The box was extended nearly 150 feet upstream to work toward ultimately enclosing the Pima Wash between McCulloch Boulevard and Swanson Avenue. Other crossings included Eldorado Wash at Eldorado Drive and Bermuda Avenue, one of which is a critical emergency access; Mockingbird Wash at Oro Grande Boulevard; and Willow Wash at Lake Havasu Avenue. The Willow Wash crossing was challenging due to an adjacent electrical substation and fire station, as well as potentially split flow upstream that had not been properly considered in the past due to roadway improvements.





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V. Quality control (QC) process

Every Atkins employee is committed to the success of continuous quality improvement. Atkins actively and enthusiastically pursues quality performance and quality improvement in all that we do. QA/QC is an important aspect of every project that we undertake. We also strive to improve and adhere to the business processes we use to develop our products and services. As we pursue these goals, we are ever mindful that excellence is ultimately defined not by us but by you, our client. At Atkins, excellence begins with each of us.

Combining elements of QA/QC, the Atkins quality process formalizes our methods of bringing high-value products and services to our clients. Three key activities comprise our QA/QC process:

- Having a plan
- Following the plan
- Monitoring the plan

The Atkins QA/QC program requires that project managers document how a project will proceed by developing a project control plan, consisting of the following elements:

- Project description with notation of special project issues
- Detailed scope
- Schedule with tasks, milestones, deliverables, and staffing/production plans
- Budgets
- Billing plans
- Communication plans
- Document control plans (electronic and hard copy)
- Internal kickoff meeting agenda and minutes
- A QC plan

Every project is unique. We will apply our consistent, proven QA/QC process throughout the project lifecycle in a manner specific to each project. The assigned project manager, responsible for process application, is empowered to apply proper monitoring tools to each specific situation. In this way, we ensure that key parameters (such as scope, schedule, and budget) are managed effectively.

VI. Work location

Atkins has West coast offices in Phoenix, Arizona; Henderson, Nevada; and several California locations. All projects will be coordinated through our Phoenix office and delegated to the proper office by location requirements and expertise.



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VII. Conclusion

Atkins offers fully qualified, competent, credentialed, experienced, and proven team members.

- We have experience supporting numerous similar projects
- We offer qualified engineers and a cadre of support specialists
- We offer well credentialed personnel committed to your needs
- The Atkins team is motivated and ready to start work
- The Atkins team has conclusively demonstrated diversified and specialized expertise
- We have established working relationships with all local agencies

Atkins is serious about schedules.

- Schedules are crucial to total quality management of our services
- Products and services must and will be delivered on time
- Atkins stands firmly and proudly on its professional services performance. Our repeat client track record is testimony to client satisfaction of product and service
- Our cost estimating accuracy parallels design accuracy in importance for each project

Atkins offers the requisite criteria for your project success.

- Products and services must and will be delivered on time
- Staff availability
- Expertise
- Interest
- Commitment

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:	88%
b.	Percentage of Total Work Attributable to Non-Government Work:	11%

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

Signature: James M. Martin

Date: 12/30/2014

Name: Jim Martin, PE, RLS

Title: Project Director