

	<h1>Offer and Acceptance</h1>		State of Arizona State Procurement Office 100 N. 15 th Ave. Suite 201 Phoenix, AZ 85007		
	SOLICITATION NO.: ADSPO16-00005912 Request for Qualifications: 2016 Annual Professional Services List		PAGE 1		
Offeror: Amec Foster Wheeler Environment & Infrastructure, Inc.		OF 1			

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

Amec Foster Wheeler Environment & Infrastructure, Inc.

Company Name

4600 East Washington Street, Suite 600

Address

Phoenix AZ 85034

City State Zip

brett.howey@amecfw.com

Contact Email Address



Signature of Person Authorized to Sign Offer

Brett A. Howey, PE

Printed Name

Vice President

Title

Phone: 602-733-6000

Fax: 602-733-6100

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

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

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

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

This Contract shall henceforth be referred to as Contract No. ADSPO16-00005912

The effective date of the Contract is March 1, 2016

The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order, contract release document or written notice to proceed.

State of Arizona
 Awarded this 29 day of February 2016


 Procurement Officer



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

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

(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:	Amec Foster Wheeler Environment & Infrastructure, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	4600 East Washington Street, Suite 600
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85034
f.	YEAR ESTABLISHED:	1959
(g1).	OWNERSHIP - TYPE:	Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	n/a
h.	POINT OF CONTACT NAME AND TITLE:	Brett A. Howey, PE, Vice President
i.	POINT OF CONTACT TELEPHONE NUMBER:	602-733-6000
j.	POINT OF CONTACT E-MAIL ADDRESS:	Brett.howey@amecfw.com
k.	NAME OF FIRM (If block 1a is a branch office):	Amec Foster Wheeler Environment & Infrastructure, Inc.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
CADD Technicians/GIS Analysts	P	348	9
Civil Engineers	P	482	3
Construction Inspectors/Managers	P	226	7
Ecologists	P	97	1
Environmental Engineers	P	335	2
Environmental Scientists	P	632	6
Foundation/Geotechnical/Soils Engineers	P	447	15
Geologists	P	403	9
Hydrologists/Hydrogeologists	P	192	4
Land Surveyors	P	59	2
Materials Engineers	P	47	7
Planner: Urban/Regional/Environmental	P	108	5
Safety/Occupational Health Engineers	P	52	2
Technicians	P	1,340	52
Transportation Engineers	P	56	9
Water Resources Engineers	P	202	4
Air Quality Specialists	P	55	2
Project Services	P	1,049	27
UXO Professionals	S	190	0
Other Professional Staff	P	1,307	1
Total		7,627	167



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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
4	Conservation and Resource Management	7 (firm)
3	Construction Management	4 (branch); 9 (firm)
1	Dams, Dikes, Levees	3 (branch); 7 (firm)
1	Design-Build	1 (branch); 9 (firm)
5	Ecological & Archaeological Investigations	1 (branch); 9 (firm)
4	Energy Conservation: New Energy Sources	7 (firm)
10	Environmental Impact Studies, Assessments or Statements	1 (branch); 9 (firm)
10	Environmental Planning	1 (branch); 7 (firm)
5	Environmental Remediation	4 (branch); 9 (firm)
5	GIS Services: Development, Analysis and Data Collection	1 (branch); 9 (firm)
3	Hazardous, Toxic, Radioactive Waste Remediation	9 (firm)
15	Highways, Streets, Airfield Paving, Parking Lots	4 (branch); 9 (firm)
2	Planning (Community, Regional, Areawide and State)	1 (branch); 6 (firm)
1	Railroad, Rapid Transit	9 (firm)
1	Recreation Facilities (Parks, Marianas, etc.)	1 (branch); 7 (firm)
5	Rivers, Canals, Waterways, Flood Control	2 (branch); 9 (firm)
20	Soils & Geologic Studies; Foundations	4 (branch); 9 (firm)
15	Surveying, Platting, Mapping, Flood Plain Studies	2 (branch); 6 (firm)
30	Testing & Inspection Services	5 (branch); 9 (firm)
0	Unexploded Ordinance Remediation	9 (firm)
4	Water Resources, Hydrology, Ground Water	3 (branch); 9 (firm)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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

a. NAME Dick Yano	b. ROLE IN THIS CONTRACT Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 9

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
BS, Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer: AZ #39391, Civil

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Memberships: American Public Works Association, American Council of Engineering Companies

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Hardy Drive Street Improvements, Tempe, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of project improvements including striping changes to widen bike lanes and narrow travel and center turn lane; sidewalk widening; raised medians; ADA curb ramp and driveway upgrades; and landscape and bus stop upgrades. Design: \$180,000; Construction: \$1,900,000. Project Manager.		
2)	Southern Avenue and Country Club Drive Intersection, Mesa, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of intersection improvements to add through lanes, bus bays, right turn lanes, driveways, ADA upgrades, pavement reconstruction, traffic signal/street lighting, and water/sewer lines. Design: \$680,000; Construction: \$14,000,000. Project Manager.		
3)	Greenfield Road, Germann to Pecos, Gilbert, AZ	2011	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of improvements including roadway widening composed of four travel lanes, center turn lane, bike lanes, curb/gutter, sidewalk, traffic signals, water line, sanitary sewer, irrigation ditch relocations, retention basins, and utility relocations. Design: \$1,220,000; Construction: \$5,334,000. Project Manager.		
4)	Ocotillo Road at UPRR, Queen Creek, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of roadway widening to accommodate two lanes in each direction, center turn lane, and bike lanes across the railroad including waterline and ITS crossing. Design: \$165,000; Construction: \$1,100,000. Project Manager.		
5)	US 93, Hoover Dam to MP 17, Mohave County, AZ	2008	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of 15-mile roadway widening to a four-lane divided highway including roadway and drainage design, traffic and geotechnical services, cost estimating and specifications, utility coordination and survey. Design: \$6,700,000; Construction: \$75,000,000. Project Manager.		



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

a. NAME Todd Farmer	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 12
d. FIRM NAME AND LOCATION <i>(City and State)</i> Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer: AZ #40970, Civil	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Randolph Road, Coolidge, AZ	2009	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of project improvements including replacing the existing dirt road with a new three lane paved roadway that will serve a growing industrial area within Coolidge. Design: \$160,000; Engineer's Cost Estimate: \$2,144,500. Project Engineer.		
2)	Camp Navajo Building One Rehabilitation, Bellemont, AZ	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of site grading, drainage, roadway demolition and parking lot construction, and utility relocation design of site surrounding Building One for Camp Navajo ANG. Design: \$46,000; Construction: \$12,000,000. Project Engineer.		
3)	Greenfield Road, Germann to Pecos, Gilbert, AZ	2011	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of improvements including roadway widening composed of four travel lanes, center turn lane, bike lanes, curb/gutter, sidewalk, traffic signals, water line, sanitary sewer, irrigation ditch relocations, retention basins, and utility relocations. Design: \$1,220,000; Construction: \$5,334,000. Project Engineer.		
4)	Ocotillo Road at UPRR, Queen Creek, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of roadway widening to accommodate two lanes in each direction, center turn lane, and bike lanes across the railroad including waterline and ITS crossing. Design: \$165,000; Construction: \$1,100,000. Project Engineer.		
5)	Davis-Monthan AFB Site Improvements, Tucson, AZ	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of site grading, drainage, parking lot and pedestrian sidewalk infrastructure to enhance existing base operations efficiency. Design: \$1,200,000; Construction: \$75,000,000. Project Engineer.		



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

a. NAME Clark Clatanoff	b. ROLE IN THIS CONTRACT Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 36	2. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION (City and State) Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: AZ #20206, CA #41475, NE #E5768, NM #12024, NV #9999, UT #97-339273-2202, Professional Traffic Operations Engineer #602	

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Memberships: Institute of Transportation Engineers (ITE), American Society of Highway Engineers (ASHE)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	ITS Improvements, Peoria, AZ	2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of ITS communications and surveillance infrastructure at various locations throughout the City of Peoria. Design: \$134,500; Construction: \$1,015,000. Transportation Engineer.		
2)	SR 303L, Camelback Road to Glendale Avenue, Glendale, AZ	2011	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of two (2) miles of urban freeway signing, pavement marking, FMS trunk line and lighting, as well as design of two service interchange traffic signals. Design: \$449,000; Construction: \$43,322,000. Transportation Engineer.		
3)	I-10/Kortsen Road Traffic Interchange, Casa Grande, AZ	2014	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Preparation of an alternative selection report to evaluate several alignment options of Kortsen Road. Design: \$156,000. Transportation Engineer.		
4)	Safe Routes to School, Casa Grande, AZ	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design and retrofitting of ramps, sidewalk, signing and crosswalk striping, as well as path lighting analysis and design to provide ADA compliant facilities for students traveling to school at various locations. Design: \$87,500; Construction: \$264,000 (est.). Transportation Engineer.		
5)	SR 210, Sign Rehabilitation, Tucson, AZ	2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design for retrofitting of roadside and overhead signing for an expressway/conventional roadway corridor. Design: \$23,200; Construction: \$98,000. Transportation Engineer.		



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

<p>a. NAME Scott Kelley</p>	<p>b. ROLE IN THIS CONTRACT Transportation Engineer</p>	<p>c. YEARS EXPERIENCE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">1. TOTAL</td> <td style="width:50%;">2. WITH CURRENT FIRM</td> </tr> <tr> <td align="center">13</td> <td align="center">3</td> </tr> </table>		1. TOTAL	2. WITH CURRENT FIRM	13	3
1. TOTAL	2. WITH CURRENT FIRM						
13	3						
<p>d. FIRM NAME AND LOCATION <i>(City and State)</i> Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ</p>							
<p>e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BSE, Civil Engineering</p>		<p>f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer: AZ #48269, CA #73357, Professional Traffic Operations Engineer #3230</p>					
<p>g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Membership: Institute of Transportation Engineers (ITE)</p>							

H. RELEVANT PROJECTS

#	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	I-10, Dragon Road to Johnson Road, Benson, AZ	2014	2016
	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of guardrail and barrier, as well as rock removal to enhance safety along a 2 mile corridor. Design: \$231,000; Construction: \$1,375,000. Project Manager.</p>		
2)	Quartzsite HAWKS, Quartzsite, AZ	2015	2016
	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of two (2) two pedestrian hybrid beacons (aka HAWKS) that included signing, pavement marking and crosswalk lighting, as well as construction management. Design: \$35,000; Construction: \$130,000. Project Manager.</p>		
3)	Verde Village Connector, Yavapai County, AZ	2014	n/a
	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Preparation of an alternative selection report to evaluate alignment options to improve for a new roadway connection. Design: \$28,500. Transportation Engineer.</p>		
4)	Cottonwood Lane and Peart Road Signal Progression, Casa Grande, AZ	2013	n/a
	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Analyze and develop coordinated signal timing plans for three corridors to improve traffic progression and reduce delays, as well as assist the Client with signal controller programming. Design: \$20,000. Transportation Engineer.</p>		
5)	Left Turn Safety Enhancements, Gilbert, AZ	2014	2015
	<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Analysis and design modification to medians, pavement, signing and marking at 2 signalized intersections to eliminate negative left-turn offset, improving sight distance. Design: \$40,000; Construction: \$135,000. Transportation Engineer.</p>		



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

a. NAME Michael Blankenship	b. ROLE IN THIS CONTRACT Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 2

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering MS, Civil Engineering	f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer: AZ #45148
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Membership: Institute of Transportation Engineers (ITE)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Roadway Departure Safety Implementation Plan, Phoenix/Tucson, AZ	2013 (ongoing)	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Selecting and scoping road departure crash countermeasure projects for ADOT Phoenix and Tucson Districts. Design: \$230,934. Transportation Engineer.		
2)	Arizona Road Safety Assessment Program, Phoenix, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Managed Arizona Road Safety Assessment (RSA) Program from 2006-2013, conducting 80 RSAs for cities, counties, Tribes and ADOT. Planning: \$2,000,000. Transportation Engineer.		
3)	I-10 Phoenix RSA, MP 141-149, Phoenix, AZ	2007	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Team Leader for RSA of I-10 eastbound in Phoenix. This segment of I-10 is on the state's Top 5% list of locations with severe safety needs. Planning: \$25,000. Transportation Engineer.		
4)	SR 86/IRR 15 Intersection RSA, Quijotoa, AZ	2006	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Team Leader for RSA of SR 86/IRR 15 intersection in Quijotoa. This intersection had multiple road owners including ADOT, Tohono O'odham Nation and BIA. Planning: \$25,000. Transportation Engineer.		
5)	Olive Avenue/59th Avenue Intersection RSA, Glendale, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Team leader for RSA of Olive Avenue/59 th Avenue intersection in Glendale. This intersection is the highest crash location in the City of Glendale. Planning: \$25,000. Transportation Engineer.		



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

a. NAME Alex Coronel	b. ROLE IN THIS CONTRACT Senior Drainage Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 14
d. FIRM NAME AND LOCATION (City and State) Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: AZ #40209 Certified Floodplain Manager, Nationwide, #02-00374	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Memberships: Association of State Floodplain Managers			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Hunt & Magma Flood Mitigation, San Tan Valley, AZ	2012-2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Preparation of a design concept report (DCR) and final design plans to mitigate flooding at the intersection of Hunt Highway and Magma Road. Services include 1-D and 2-D (using FLO-2D) Hydrology and Hydraulics, preparation and alternatives selection of Design Concepts, Final Design, Geotechnical Engineering, Environmental and Cultural Resources Permitting, Field Survey and Legal Descriptions. The DCR was completed and approved. The production of final design plans is ongoing. \$226,000. Project Manager.		
2)	Gilbert Landfill Surface Drainage Erosion Mitigation Design, Gilbert, AZ	2012-2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Evaluation of the Gilbert Landfill site and development of alternatives to mitigate surface drainage issues relating to landfill cap erosion. AMEC completed an evaluation of existing studies at the site and established, compared and contrasted various alternatives for flood mitigation culminating in the facilitation of a Stakeholder Workshop at which a chosen mitigation alternative and final design criteria was established. AMEC also prepared and submitted a final construction package with design plans, project specifications and engineers cost estimate in June of 2013. The project is currently under construction and AMEC is providing post-design services. \$158,000. Project Manager.		
3)	North Lake Havasu Flood Map Revisions, Lake Havasu City, AZ	2009-2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Re-mapping of approximately 2.5 square miles of Zone AO floodplain in portions of Unincorporated Mohave County between the Lake Havasu City Limits and the Colorado River. Services included data collection and review of existing studies, field visits, a detailed geomorphic assessment, detailed 1-D and 2-D (using FLO-2D) hydrologic and hydraulics and remapping the floodplains within the study area. The project Technical Data Notebook (TDN) has been submitted to FEMA and project hydrology and hydraulics has been approved. The floodplain mapping is currently under FEMA review. \$312,000. Project Manager.		
4)	Scour and Lateral Bank Migration Analysis Sierrita Gas Pipeline, Pima County, AZ	2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Calculation of total predicted scour depth and lateral migration potential at over 200 dry wash crossings in the Altar Valley in support of a natural gas pipeline project. Services included an evaluation of existing studies, field reconnaissance, hydrology, hydraulics, scour and lateral erosion potential calculations, geophysics, GIS data management and reporting. \$230,000. Scour and Lateral Erosion Analysis Task Manager.		



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

Alex Coronel (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	Town of Greybull Levee Certification, Greybull, WY	2013 - Ongoing	n/a
5)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Levee Certification project to demonstrate compliance with the standards set forth Code of Federal Regulations Section 65.10 (44 CFR §65.10) for a 5.6-mile levee system along the west bank of the Big Horn River and south bank of Dry Creek that protects the Town of Greybull, Wyoming. Services include hydrology, hydraulics, geotechnical field investigation, materials testing and analysis, field survey (by others), an evaluation of levee closure devices, an evaluation of the levee operation and maintenance manual, preparation of mitigation alternatives, identification of potential funding sources, GIS data management and reporting. The project Draft Levee Certification Report will be submitted to the Town for review in November of 2013. \$252,000. Project Manager.		



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

a. NAME Robert Scrivo	b. ROLE IN THIS CONTRACT Senior Drainage Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 2.5

d. FIRM NAME AND LOCATION (City and State)
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION)
BS, Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Professional Engineer: AZ #33457, Civil
Certified Floodplain Manager #US-09-04658

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Publications and presentations:
"Flood Risk Assessment for the town of Wenden, La Paz County, Arizona, 4/17/2001." Robert Scrivo, Arid West Conference Proceeding in New Mexico 2001

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Hunt and Magma Flood Mitigation Final Design	2014-2015	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of flood control channels and infrastructure to mitigate existing flooding at Superstition Views Subdivision @ the intersection of Magma Road with Hunt Highway in Pinal County, Arizona. Design: \$125,000; Construction Estimate: \$485,000. Project Manager.		
2)	Rancho Bella Vista Drainage Mitigation, San Tan, Pinal County, AZ	2012-2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design of flood control channel and infrastructure to mitigate existing flooding at Rancho Bella Vista Subdivision in Pinal County, Arizona. Design: \$130,000; Construction Estimate: \$710,000. Project Manager.		
3)	Pinal County Levee and Dike Inventory, Pinal County Public Works Department, Pinal County, AZ	2009	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Prioritization of over 1,000 embankment structures identified in the County's Area Drainage Master Plans for inclusion in the Arizona County Insurance Pool (ACIP). Design: \$30,000. Project Manager.		
4)	Proposed Sewer Scour Analysis, Lake Havasu City, Mohave County, AZ	2009	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Managed/Lead scour analysis determining minimum constructed depth at 13 wash crossings within the Trotwood and Mockingbird basins in Lake Havasu City, Arizona. Design: \$80,000. Drainage Task Manager.		
5)	SR 303L Area Drainage Master Plan (ADMP), Flood Control District of Maricopa County, AZ	1999-2005	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Area Drainage Master Study/Plan Update for a 250 square mile area located west of the Phoenix Metropolitan Area (West Valley). Design: \$1,000,000. Deputy Project Manager.		



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

a. NAME Yichun Xu	b. ROLE IN THIS CONTRACT Senior Water Resources Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 11

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> PhD, Engineering, Fluvial Hydraulics MS, River Hydrodynamics BS, Civil Engineering	f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer: AZ #44746
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Memberships: American Society of Civil Engineering; International Association of Hydraulic Engineering and Research; Association of State Floodplain Managers

H. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Professional Services	Construction <i>(if applicable)</i>
North Lake Havasu Flood Map Revisions, Lake Havasu City, AZ	2010 - 2011	n/a
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 1) Re-mapping of approximately 17 miles of Zone AE and 2.5 square miles of Zone AO floodplain in portions of Unincorporated Mohave County between the Lake Havasu City Limits and the Colorado River. Services included data collection and review of existing studies, field visits, a detailed geomorphic assessment, detailed 2-D (using FLO-2D) hydrologic/hydraulics model development and H&H analyses, remapped the floodplains within the study area. The floodplain mapping has been approved by FEMA. \$312,000. Lead Project Engineer.		
North Spanish Spring Floodplain Detention Facility Project (NSSFDF), Reno, NV	2005-2006	n/a
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 2) The NSSFDF is to control stormwater flow from Griffith Canyon and to attenuate flow from unincorporated Washoe County entering the City of Sparks Sphere of Influence which includes construction of artificial conveyance channels, a Sediment Retention Basin (SRB) and a medium Water Detention Basin (WDB) with a 45 ft embank height and a storage capacity of 10,000 ac-ft. Performed sediment transport analysis and sized the SRB, designed the channels, inlets and energy dissipation structures for the SRB, WDB and culvert protections, and all hydraulic, channel stability and scour analyses for the NSSFDF. \$542,000. Project Engineer.		
Hunt and Magma Flood Mitigation Design Concept Report, Pinal, AZ	2012-2013	n/a
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 3) Ongoing drainage issues have been observed by County Flood Control Section staff and reported by local residents at the Hunt Highway and Magma Road intersection. Overtopping of Hunt Highway causes periodic closure of the roadway and damage to private drainage facilities, overtopping of and flow along Magma Road results in periodic closures of Magma Road and impeding access to adjacent subdivisions, and causes damage to private drainage facilities and frequent Flooding within the Superstition Views subdivision. The DCR was to perform cadastral research to identify the source of and quantify the flood volumes impacting the project area, and perform a conceptual level analysis of several alternative solutions to mitigate flooding. Design: \$49,500. Project Engineer.		



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

Yichun Xu (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	On-Call Plan Review Services, FCDMC	Professional Services 2008-2012	Construction <i>(if applicable)</i> n/a
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project included assisting the Regulatory Division of the FCDMC with its reviews of permit applications for Drainage Clearances and Floodplain Use Permits. Responsibilities included the review of grading/drainage plans and reports for single-family homes, multi-lot master planned communities and commercial sites, as well as CLOMR and LOMR submittals prior to their submittal to the FEMA. Amec Foster Wheeler's input was instrumental to both obtaining an FUP and fine-tuning packages for FEMA review. Design: \$500,000		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Levee Certification of the Wichita Valley Center Local Flood Control Project, Wichita, KS	Professional Services 2010	Construction <i>(if applicable)</i> n/a
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Wichita levee project is for certification of approximately 97 miles of earthen levees. Hydrologic and hydraulic models were created to determine if adequate freeboard is available on the levees along these reaches. Both the USACE HEC-RAS model and a FLO-2D, 2-dimensional flood routing model, were used for the hydraulic analysis. Project Engineer responsible for FLO-2D levee breach modeling. Analysis included FLO-2D model developing, testing and performing simulations for 12 Levee Breach Scenarios for Arkansas River System, Littler Arkansas River System and Chisholm River System. The project site covers 350 square miles and includes 101 miles of levee and 117 river miles of channel. Analysis/Certification: \$2,800,000; Design: \$550,000; Maintenance Design: \$450,000. Project Engineer.		



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

a. NAME Ed Latimer, PE, CPSWQ, CPESC	b. ROLE IN THIS CONTRACT Senior Stormwater Specialist	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 14

d. FIRM NAME AND LOCATION (City and State)

Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION)

PhD, Irrigation Engineering
MS, Agricultural Engineering
BS, Agricultural Engineering

f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer: AZ #28822
Certified Professional in Storm Water Quality #190
Certified Professional in Erosion & Sediment Control #4372

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Memberships: International Erosion Control Association, American Public Works Association
Numerous technical papers and publications

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
	Stormwater Permit Compliance, AZ (statewide)	Ongoing	n/a
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Developed and served as Technical Lead for the development/implementation of Stormwater Pollution Prevention Plans (SWPPPs) and successful performance of numerous compliance services related to with the requirements of the AZPDES Construction General Permit (CGP) and Multi Sector General Permit (MSGP). Led and supervised the development and implementation of over 50 SWPPPs and related services. Cost: \$400,000.		
	Development of Employee Stormwater Training Modules, ADOT, AZ	2011	n/a
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Technical Lead for the development of six (6) different stormwater training modules for the training of ADOT staff throughout the state, , consisting of: 1) General Employee Stormwater Awareness, 2) Non-Stormwater Discharges, Illicit Discharges, and Illegal Dumping, 3) New Construction and Land Disturbances, New Development, and Significant Redevelopment, 4) Storm Sewer System and Highway Maintenance, 5) Good Housekeeping – Waste Disposal and Industrial Sites, and 6) Good Housekeeping – Pesticides, Herbicides, and Fertilizers. The material consisted of fully-scripted (i.e., speaker notes) Microsoft PowerPoint presentations, coded to be web-based and self-training, and included interactive test questions and automated tracking/reporting. Cost: 87,000.		
	Post-Construction Best Management Practices (BMPs) Water Quality Manual, ADOT, AZ	2007, 2013	n/a
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Technical Lead for the original development and subsequent update of a Permanent (post-construction) Stormwater BMP Quality Manual. The objective of the manual is to improve the water quality of discharges from ADOT storm drain facilities within permit-regulated municipal jurisdictions within ¼ of a mile distance of impaired or unique waters, or other projects designated as sensitive by ADOT. The project efforts involved the research and determination of potential permanent BMPs for use on ADOT construction projects. Cost: \$190,000.		



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

Ed Latimer (continued)

<p>(1) TITLE AND LOCATION <i>(City and State)</i></p> <p>Update/Revision of Drainage Design Manual of Maricopa County Volume III – Erosion Control, Flood Control District of Maricopa County, AZ</p>	<p align="center">(2) Year Completed</p>	
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>4) Project Manager and Technical Lead. This document was originally developed in the early 90s to provide guidance to agencies, engineers and contractors responsible for construction projects within Maricopa County in complying with regulatory requirements in relation to stormwater discharges from regulated construction sites. The revised edition of the manual reflects, among many other things, the latest regulatory framework for both municipalities and construction sites regarding stormwater discharges, plus it outlines/explains the changes in the Construction General Permit, which now focuses on both small and large construction site activities. Cost: \$90,000.</p>	<p>Professional Services 2006</p>	<p>Construction <i>(if applicable)</i> n/a</p>

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 Rebecca Sydnor, PE, LEED-AP	b. ROLE IN THIS CONTRACT Water Quality Specialist	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 1.5

d. FIRM NAME AND LOCATION (City and State)
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering (with environmental concentration)	f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil): AZ #54662 LEED Accredited Professional: 2009
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications and training:
OSHA HAZWOPER (29 CFR 1910.120); OSHA Confined Space (29 CFR 1910.146); MSHA Open Pit Metal and Non-Metal Mines; Comprehensive NEPA; Leadership in Engineering Administration Program (LEAP)

H. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	Professional Services	Construction (if applicable)
AZPDES Phase 1 MS4 Compliance Support, Scottsdale, AZ	2007-2014	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm 1) Provided regulatory support for this on-call contract to provide annual and as-needed stormwater compliance activities under the City's individual AZPDES MS4 Permit. Annual tasks include wet weather monitoring and annual reporting. On-call services included emergency response oversight, sampling, and follow-up; permit negotiation with ADEQ; and stormwater code revision. Revised several components of the SWMP, including development of a system for generating and updating an industrial facility inventory. Prepared and implemented protocols, procedures, and training for industrial and construction inspections, dry weather monitoring, illicit discharge detection and elimination, and municipal industrial MSGP compliance. Additional tasks included assistance with public involvement, review and revision of existing City Code for changes in stormwater enforcement, development of industrial and construction stormwater inspection programs, and preparation of an Enforcement Response Plan. Project Manager. Under a separate contract, revised the SWPPP for the Scottsdale Airport for compliance with the MSGP. Performed training inspections and developed inspection forms for airport personnel.		
AZPDES MSGP Stormwater Management Planning, CDM Smith c/o City of Phoenix Aviation Department, Phoenix, AZ	2007-2014	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm 2) Managed subcontract to CDM Smith for this stormwater planning and compliance project at the Sky Harbor, Goodyear, and Deer Valley Airports under the AZPDES MSGP. Beginning in 2007, responsibilities included assisting in developing and delivering training curriculum for annual Stormwater Pollution Prevention Team training, conducting and organizing quarterly and annual inspections, performing and supervising visual assessments, performing and supervising de-icing inspections, and revising and updating the SWPPP for each of the three city airports – including an extensive revision of the Control Measures section. Provided emergency support and investigation services and completed MSGP-required Corrective Action reports. Assisted in the development and delivery of Inspector training. Responsibilities also included managing the team of inspectors including considerations such as security badging, inspection protocols, and tenant/business sensitivity. Project Manager.		



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

Rebecca Sydnor (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	AZPDES Regulatory Assistance and Training, Phoenix, AZ	Professional Services 2009-2010	Construction <i>(if applicable)</i> n/a
3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Developed and delivered five stormwater training curriculums to City employees, including: stormwater awareness, industrial/construction/ de minimis general permits, IDDE/enforcement response/monitoring, industrial stormwater inspection, and monitoring for dry weather screening. The industrial inspection training included a classroom portion and a practice inspection at a municipal industrial facility. The dry weather screening training included classroom training as well as hands-on training in the field where trainees were able to use field screening kits to test dry weather flows for common pollutants. Also assisted in comparing the City's old MS4 permit to ADEQ's draft Phase 1 MS4 permit and compiling a list of new permit requirements. The SWMP requirements in the new permit were compared to the existing SWMP to identify new activities and data tracking requirements.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	AZPDES MSGP and SPCC Rule Support, Tempe, AZ	Professional Services 2010-2011 updates in 2012 and 2014	Construction <i>(if applicable)</i> n/a
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Brought the East Valley Bus Operations and Maintenance (EVBOM) Facility into compliance with the 2010 AZPDES MSGP. Revised the SWPPP to meet the general requirements and sector-specific requirements under Sector P – Land Transportation and Warehousing. After the EVBOM Facility made structural modifications and added a new 12,000 gallon fuel storage tank, updated the SWPPP and SPCC Plan and also developed a combined inspection form to streamline the inspection documentation process. Prepared and delivered training to meet the requirements of both the SWPPP and SPCC programs. Technical Lead.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	AZPDES Phase II MS4 Compliance Support, Surprise, AZ	Professional Services 2013-2014	Construction <i>(if applicable)</i> n/a
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Revised the City's SWMP to comply with the current AZPDES Phase II MS4 General Permit and to better reflect current City stormwater practices. The City's SWMP was outdated and included best management practices unrelated to stormwater quality. Revised the SWMP and made several recommendations for changes to the City's stormwater code and to current practices. Developed new number-based measureable goals in the SWMP that were easier to track. Provided on-going compliance support and regulatory interpretation. Project Manager.		



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

a. NAME Brian McBride	b. ROLE IN THIS CONTRACT Water/Wastewater Practice Leader	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 2

d. FIRM NAME AND LOCATION (City and State)
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION) MS/BS, Civil Engineering BS, Commerce and Engineering	f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil): AZ #33441, NV #19516 MO #2012012595, TX #102509
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Presentations: "A Primary Treatment Solution Without Clarifiers", AZWater Conference, May 2010; "Odor Abatement and Cold Plasma Technology – A Revolutionary Approach", WEFTEC, October 2008; "Benefits of Continuing Institutional Education", AWPCA Conference, May 2003; "In the Interim: Buying Time for a Membrane WTP Upgrade in Central Arizona", AWPCA Conference, May 2002; "Problems and Solutions Regarding the Design of a Membrane Bioreactor WWTP in Anthem Arizona", AWPCA Conference, May 2001
Memberships: American Water Works Association (AWWA); Water Environment Federation (WEF); Arizona Water Pollution Control Association (AWPCA); American Membrane Technology Association (AMTA)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Dietz-Crane Well Arsenic Treatment Modification Project, El Mirage, AZ	2012	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Provided engineering services to design and permit a modification to the well site arsenic treatment system. Designed a piping and controls modification to the facility whereby the system could be operated in any one of three modes to maintain arsenic compliance. \$50,000. Project Manager.		
2)	Boulder WRF Bypass Study, Boulder, CO	2013	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The objective of this study is to assist Liberty Utilities in developing a viable plan to bypass the WRF so it can be taken out of service and eventually decommissioned. The project includes developing the data required to accurately evaluate options, performing a hydraulic analysis and developing cost estimates for the options. \$2,000,000. Project Manager.		
3)	Café Valley Bakery Commercial Wastewater Pretreatment System, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Study, design and CA for installation of a metering/testing vault and commercial wastewater pretreatment system. System is designed to provide pH adjustment for up to 100 gpm of wastewater discharged from the bakery. \$50,000. Project Manager.		
4)	Commercial Districts Odor Evaluation, City of Peoria, Peoria, AZ	2010	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project entailed developing odor control recommendations and plans of action that city personnel could implement to relieve severe odor issues within two high profile commercial districts within the City. 49,000. Project Manager.		
5)	WTP Buildout Expansion, AZ American (Epcor), Anthem, AZ	2003	2003-2004
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design and CA for the expansion of a MB WTP from 3 to 7 mgd, included temporary package plant to meet water demand during construction. Design: \$300,000; Construction: \$4,000,000. Design Lead/Project Manager.		



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

a. NAME Debra McGrew	b. ROLE IN THIS CONTRACT Senior Water/Wastewater Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 3

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Engineering Science Environmental Engineering	f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer (Civil): AZ #13909, CA #66338 MO #2012012697, NV #20041
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
AZ Water Association, Past President ASCE Phoenix Branch

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Black Mountain Sewer Corp. Collection System Mods, Carefree, AZ	2006-2015	2007, 2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Several projects authorized over 9 years – beginning with odor control evaluations, modifications to sewers and lift stations, design of new lift station, evaluation of the WRF for decommissioning and removal and evaluation of collection system to accommodate removal of the WRF. Design: \$250,000; Construction: \$2,500,000. Project Manager.		
2)	Commercial Districts Odor Evaluation, City of Peoria, AZ	2010	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project entailed developing odor control recommendations and plans of action that city personnel could implement to relieve severe odor issues within two high profile commercial districts within the City. Project Mgr; Design ~\$49,000		
3)	Val Vista Water Main Assessment and Rehab, City of Phoenix, AZ	2004-2006	2005-2006
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project entailed assessing the condition of 15 miles of 72 to 108-inch diameter prestressed concrete cylinder pipe and the rehabilitation of 6300-ft of 72-in with steel cylinder slip-lining. Project Mgr; Design: \$450,000; Construction: \$6M		
4)	North Gateway Lift Station and Force Mains, City of Phoenix, AZ	2003-2004	2004-2005
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design and Construction Administration (CA) for 8 miles of dual 24-inch diameter force mains. Design: \$1,400,000; Construction: \$8,000,000. Design Lead.		
5)	WTP Buildout Expansion, AZ American (Epcor), Anthem, AZ	2003	2003-2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design and CA for the expansion of a MB WTP from 3 to 7 mgd, included temporary package plant to meet water demand during construction. Design: \$300,000; Construction: \$4,000,000. Design Lead/Project Manager.		



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

a. NAME Timothy LeClair	b. ROLE IN THIS CONTRACT Senior Water/Wastewater Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 2
d. FIRM NAME AND LOCATION (City and State) Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil): AZ #43824	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) N/A			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Café Valley Bakery Metering and Pretreatment, Phoenix, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design services for a new flume metering vault of the industrial flow, a sanitary sewer metering vault bypass, a temporary pH adjustment system, and permanent pH adjustment system. Design: \$50,000; Construction: \$500,000. Project Engineer.		
2)	Palm Valley WRF Equalization Tank Improvements, Goodyear, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project included design and construction services to repair significant deterioration of the EQ Tank ceiling which also serves as the floor of the Headworks Building; wastewater facilities planning study; and the development of an online electronic O&M manual for the entire plant. Design: \$300,000; Construction: \$750,000. Project Engineer.		
3)	Palm Valley WRF Expansion, Goodyear, AZ	2011-2012	2012-2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design, permitting and construction services for a 1 MGD capacity expansion to the Palm Valley WRF including a new Salsnes primary filter, retrofit of the two original SBR basins with new equipment and instrumentation, new tertiary filter, and a new UV disinfection train. Design: \$500,000; Construction: \$5,000,000. Project Engineer.		
4)	Palo Verde Utilities Company Campus 1 WRF Performance Upgrades, Maricopa, AZ	2009	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design and construction services for retrofitting the four SBR basins with new equipment and instrumentation, providing post-equalization tank solids removal, replacement of the tertiary filters with new disk filters, and an overhaul of the plant's instrumentation and control system. Design: \$300,000; Construction: \$3,000,000. Project Engineer.		
5)	Merrill Ranch WRF, Florence, AZ	2006	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design services for a new 1.5-MGD class A+ wastewater treatment plant including influent pumping, fine screening, flow equalization, membrane bioreactor treatment system, UV disinfection, effluent pumping, aerated sludge storage, sludge dewatering and odor control. Design: \$350,000. Project Engineer.		



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

a. NAME Gary Whitten, PE	b. ROLE IN THIS CONTRACT Senior Water/Wastewater Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 1.5
d. FIRM NAME AND LOCATION <i>(City and State)</i> Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer (Civil): AZ #42105	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> "Implementing Treatment Facility Rehabilitation During a Water Shortage." AWWA Annual Conference & Exposition, 2005 "Managing the Resource – Water Reclamation at Santa Rosa Rancheria." Tri-State Seminar on the River, 2003			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	Residuals Handling & Processing, Canyon Road WTP, Santa Fe, NM	2007-2009	2009-2011
1)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Led the team performing design and construction services for implementation of residuals handling and processing at the Canyon Road WTP (10 mgd). Included two 65-ft diameter gravity thickeners; new residuals building with two – 600 lb/hr centrifuges, sludge batch tanks, and three pumping systems; 80,000 gal EQ tank; and lamella clarifiers for spent filter backwash treatment and recycle. The modifications and improvements in addition to resolving residuals handling shortcomings, greatly increased plant reliability and redundancy. The Canyon Road WTP is also now a zero-discharge facility. \$15 million. Project Director.		
	Metropolitan Domestic Water Improvement District, Tucson, AZ	1998-2003	1998-2003
2)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Led the design effort and provided construction management services for the implementation of MDWID's 5-year CIP program. The program consisted of modifications and improvements to six well sites. These services included physical logging of the wells, new deep-well pumps, the addition of gas engines and clutches to allow operation of the pumps with alternate energy source (natural gas). The improvements included sound enclosures and sand separators along with instrumentation and control features. \$10 million. Project Manager.		
	Wastewater System Master Plan, Water Dept., City of Mesa, AZ	2001-2002	N/A
3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Led the team performing Master Planning for the City of Mesa. The master planning effort featured the development of a computer model of the collection system utilizing a GIS database as input allowing continuous updates as new sewers are constructed and added to the system. The use of GIS databases also allows changes to the City's General Plan to be incorporated into the model to update flow projections automatically. \$450,000. Project Manager.		
	Woodmark WWTP, Modifications/Improvements, Flint, TX	2015-2016	2016 (est.)
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Led the engineering team in the design and construction services associated with process mods/improvements to the existing 0.363 mgd plant. Also led the team in the design and construction services for the expansion to 0.7 mgd. The work was completed in two phases and consisted of process modifications converting a single-sludge activated sludge system to an IFAS process. The integrated activated sludge: fixed film process brought the plant into compliance with its discharge permit (3 mg/L NH4), and simplified process considerations. \$2 million. Project Manager.		



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

Gary Whitten (continued)

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Professional Services	Construction <i>(if applicable)</i>
Blackhawk-Central City Sanitation District, Black Hawk, CO	2002	2003-2005
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
5) Led a team in the performance of design and construction management services for the District's new 4 mgd WWTP. The facility is located on a narrow site in a canyon between State Highway 119 and North Clear Creek. The plant utilizes a single-sludge activated sludge system, to remove nitrogen and phosphorus from the effluent. The WWTP incorporates tertiary filters for TSS and UV light disinfection for stringent coliform compliance. The waste biosolids are dewatered on a 2-meter belt filter press and hauled to a bio-solid reclamation (composting) facility. A process simulation model (GPS-X) was utilized to develop design process criteria. Project Manager.		



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

a. NAME Chris Courtney		b. ROLE IN THIS CONTRACT Senior Hydrogeologist		c. YEARS EXPERIENCE	
				1. TOTAL 18	2. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION <i>(City and State)</i> AMEC Environment & Infrastructure, Inc., Phoenix, AZ					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Geosciences			f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Registered Geologist: AZ #40811		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Counsel of Engineering Companies of Arizona - Leadership in Engineering Administration Program Graduate (2005); AMEC Project Management Certification; MSHA 16-Hour; OSHA (HAZWOPER) 40-Hour; OSHA (HAZWOPER) 24-Hour Site Supervisor; OSHA (HAZWOPER) 8-Hour Construction Management; CPR & First Aid					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION <i>(City and State)</i> Agua Fria National Monument Intra Basin Water Management Project, Yavapai County, AZ			(2) Year Completed	
				Professional Services 2010-2013	Construction <i>(if applicable)</i> 2010-2011
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Installation and monitoring of telemetry enabled stream gage and precipitation stations and well pressure transducers; quarterly groundwater level sweeps (10 wells); geochemical forensic study on groundwater and surface water, and; an evapotranspiration study. Design: \$270,000; Construction: \$150,000. Hydrogeologist.			<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Groundwater Modeling Impact Analysis and Water Resource Sustainability Study, City of Flagstaff, AZ			(2) Year Completed	
				Professional Services 2011-2013	Construction <i>(if applicable)</i> n/a
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hydrology study and groundwater model of Northern Arizona to determine impacts to stream flows and groundwater levels from additional groundwater pumping by the City of Flagstaff for the next 100 years. The study resulted in the City of Flagstaff receiving an amendment to their 100-year water supply Designation with the Arizona Department of Water Resources (ADWR). \$317,000. Hydrogeologist.			<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Coal Combustion Residuals (CCR) Evaluation, Salt River Project (SRP) Coronado Generating Station Plant, Arizona Public Service (APS), St. Johns, AZ			(2) Year Completed	
				Professional Services 2009	Construction <i>(if applicable)</i> n/a
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Groundwater and vadose zone interaction modeling study of a 773-Megawatt electrical plant. Hydrology study and groundwater model to determine the 1,000-year impact from the disposal of coal combustion residuals (CCR) to groundwater. The model was used to examine the differences between expected conditions at this facility, versus the assumptions used in the CCR risk assessment from EPA's Composite Model for Leachate Migration with Transformation Products (EPACMTP). \$50,000. Hydrogeologist.			<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Formers Williams Air Force Base (AFB) located at the Phoenix-Mesa Gateway Airport, Air Force Civil Engineer Center (AFCEC/CZRB), Mesa, AZ			(2) Year Completed	
				Professional Services 2010-Ongoing	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Performance Based Remediation project for groundwater/soil impacted by the former Williams AFB. In 1989, the site was placed on US EPA National Priority List. Since then the US Air Force has been cleaning up hazardous waste at the site under the CERCLA with oversight from the EPA, ADEQ and ADWR. AMEC's task order concerns a total of 12 sites, six of which have not received regulatory closure due to groundwater and/or soil contamination above acceptable EPA/ADEQ cleanup standards. Oversee/manage all activities related to quarterly, semi-annual, annual and remediation related groundwater monitoring and reporting for four of the six active sites. These sites have over 100 monitoring wells combined with varying volatile organic compounds, semi-volatile organic compounds, metals and/or pesticides above ADEQ and EPA cleanup standards. Design: \$2,000,000; Construction: \$20,000,000. Hydrogeologist.			<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.)*

Chris Courtney (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	Deep Exploratory Boring Industrial Water Supply Investigation, Pinal Creek Group, Globe, AZ	2005	2005
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Drilling and zonal sampling of two 1,200-foot deep exploratory borings through fractured volcanic formations to assess the water quality and potential production capacity of a deep confined fracture-flow aquifer. Testing included depth-specific zonal sampling, down-hole geophysical logging, and slug testing. Testing was conducted to assess the feasibility of drilling and constructing large diameter production wells to replace wells constructed in a shallow unconfined aquifer impacted by sulfates generated from acid heap-leaching operations at the adjacent open pit copper mine sites. Three new deep wells were subsequently drilled and completed based on this project. Design: \$50,000; Construction: \$350,000. Hydrogeologist.		



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

a. NAME Scott Thompson	b. ROLE IN THIS CONTRACT Construction Materials Manager	c. YEARS EXPERIENCE	
		1. TOTAL 23	2. WITH CURRENT FIRM 17

d. FIRM NAME AND LOCATION (City and State)
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION) _____ f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) _____

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Memberships/affiliations: Arizona Rock Product Association, Arizona Concrete Institute, Associated General Contractors – Arizona Chapter

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	On-call Referee Testing, ADOT, Phoenix, AZ	2014 to Present	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provide third-party referee testing on hot mix asphalt. \$25,000. Provide principle review and technical support for the project.		
2)	I-10/303 Traffic Interchange, Buckeye, AZ	2011 to 2014	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Provided materials testing and inspection on the construction of the traffic interchange. \$450,000. Project Manager for the quality control testing and inspection services.		
3)	City of Phoenix On-Call Materials Testing, Phoenix, AZ	2011 to Present	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provide the City with inspectors and technicians for quality assurance testing and inspection. \$900,000. Project Principal.		
4)	Hanson Asphalt Testing Services, Phoenix, AZ	2015 to Present	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provide asphalt quality control testing and technical services for the asphalt operation for Hanson. \$100,000. Project Manager.		
5)	Diamond Bar Road, Peach Springs, AZ	2012 to 2014	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Provide quality assurance/quality control testing and inspection services for the construction of 9 miles of new roadway. \$220,000. Project Manager.		



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

a. NAME Scott Kiah		b. ROLE IN THIS CONTRACT Resident Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 20	2. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION (City and State) Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: AZ #43822 (Civil)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Training/Certifications: NCEES National & International Registry Certificate #42069 NAVFAC Construction Quality Management (CQM) for Contractors					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Intel Fab 42, Chandler, AZ	2011	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided Quality Assurance/Quality Control (QA/QC) services for Intel on the construction of their Fab 42 Chip Manufacturing Facility, which would be their most advanced, high volume semiconductor manufacturing facility in the world. QA/QC services involved coordination of up to 12 inspection staff for the entire construction operations. Additional responsibilities included staffing, managing budgets and schedules, reporting, on-site meetings, coordination with the City of Chandler, site safety, forecasting, interaction with the design engineer, conflict resolution and invoicing on a bi-weekly basis. Senior Project Manager.		
2)	White Tanks No. 4 Dam Rehabilitation Project, Flood Control District of Maricopa County (FCDMC), Phoenix, AZ	2011	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed QA services for the FCDMC on the construction of the White Tanks No. 4 Dam Rehabilitation Project. QA services involved setting up an on-site materials testing laboratory and managing inspection staff which performed daily sampling of material for compliance with contract specification. The project involved coordination with the National Resources Conservation Service (NRCS) and the Arizona Department of Water Resources (ADWR). Responsibilities included staffing, managing budgets and schedules, maintenance of the File Transfer Protocol Site, reporting, on-site meetings, coordination with NRCS and ADWR, site safety, forecasting, interaction with the design engineer, conflict resolution and invoicing. Senior Project Manager.		
3)	Wastewater System Expansion (WWSE) Program, Lake Havasu City, AZ	2011	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided construction management for the master planned, nine-year WWSE Program to convert 25,000 residential septic tanks to a conventional gravity sewer system. Duties included maintaining project budgets and schedules, extensive public relations, public presentations, daily interaction with the City staff, permitting with the Arizona governmental agencies and local utility companies, developing specifications, supervising/coordinating administrative and inspection efforts, administering weekly construction meetings, conducting weekly internal safety meetings, responding to RFIs, reviewing/approving/processing payment applications, and managing change orders and claims. Construction Manager/Senior Resident Engineer.		



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

Scott Kiah (continued)

<p>(1) TITLE AND LOCATION <i>(City and State)</i></p> <p>University Avenue Widening, Riverside, CA</p>	(2) Year Completed	
	Professional Services 2008	Construction <i>(if applicable)</i> n/a
<p>4) (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p><input type="checkbox"/> Check if project performed with current firm</p> <p>This major street widening project consisted of relocating/replacing curb, gutter, sidewalk, cross gutters, spandrels and driveway approaches; removing/replacing electrical conduits for signal interconnect and street lighting; providing temporary overhead electric lines for street lighting and traffic signals; installing traffic detection loops; relocating existing and new street lights; installing new traffic signal poles/arms, a controller and electric pedestal; landscaping and irrigation; installing new water services, backflow assemblies and pressure reducers; full depth pavement removal and subgrading; and asphalt grinding and paving overlay with thermoplastic striping of roadway and legends. Responsible for inspection/oversight of the contractors work; scheduling and conducting coordination meetings; quantity reconciliation; change orders review and processing; responding to RFIs; ensuring compliance with current American with Disabilities Act (ADA) regulations and California Department of Transportation (Caltrans) standard specifications; coordinating field testing of materials; scheduling compaction testing as required by the City of Riverside's Quality Assurance Program (QAP); oversight of job safety and storm water pollution prevention plans (SWPPP); monitoring set up and maintenance of traffic control in accordance with approved traffic control plans and Manual on Uniform Traffic Control Devices (MUTCD); and approving lane closures at critical juncture in the work. Senior Project Manager.</p>		
<p>(1) TITLE AND LOCATION <i>(City and State)</i></p> <p>Alessandro Boulevard Improvements, Riverside, CA</p>	(2) Year Completed	
	Professional Services 2007	Construction <i>(if applicable)</i> n/a
<p>5) (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p><input type="checkbox"/> Check if project performed with current firm</p> <p>This fast-track project involved widened of a major thoroughfare from four to six lanes of traffic flow. Work included relocating/replacing curb, gutter, sidewalk, cross gutters, spandrels and driveway approaches; removing/narrowing an existing median to ensure three lanes of travel in both directions; constructing retaining walls; electrical improvements including underground conduit for relocating an existing overhead electric utility; installing traffic detection loops; relocating and installing existing and new street lights; constructing a wireless video detection system; installing new traffic signal poles/arms, controller and electric pedestal; landscaping and irrigation; installing new water services, backflow assemblies and pressure reducers; pavement removal and grading; and asphalt grinding and paving overlay with thermoplastic striping of roadway and legends. Responsibilities were similar to the above University Avenue Widening project with the exception that the majority of this construction was performed at night. Construction Manager.</p>		



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a. NAME Jim Monnett	b. ROLE IN THIS CONTRACT Project Supervisor/Inspector	c. YEARS EXPERIENCE	
		1. TOTAL 52	2. WITH CURRENT FIRM 14

d. FIRM NAME AND LOCATION (City and State)
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION) f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
BS, Mining Technology

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications/Training: Grade I ACI – Level I & II (#921157), OSHA, ATSSA, Structural Plans reading; UDOT Materials and Radioactive License L-4; BOCA and SBCCI Reinforced Concrete Inspector; ADOT – (CET) ATTI; NICET – Level IV, Highway Materials #080036; NICET – Level IV, Concrete #080036; NICET – Level IV, Asphalt #080036; NICET – Level IV, Soils #080036; Certified Chief Engineering Supervisor #25839, 1971, ADOT; ICBO and ICC Reinforced Concrete Special Inspector #0883495-4; ICBO Pre-stressed Masonry Inspector; Weld Certifications AWS #00050354; ADOT Radiation Safety Officer #T95-0097; MSHA, First Aid, CPR, Mine Safety, Mine Pit Driving; ATSSA, Traffic Safety Supervisor 10-20-2010 #28617; ECC, Erosion Control Coordinator AGC-ADOT12-7/8-2010; STAT's (Change Order) Supplemental Agreements; ATTI (Arizona Technical Testing Institute) – Field Technician Certification; ACI Concrete Field Testing Technician – Grade I; ACI – Level I & II #921157, OSHA Certificate; ADOT – 16 Different Training Seminars; EDu Code 5 CEUs Special inspections; NDOT – Management Training; FHWA – Asphalt Superpave Design; UDOT Project Construction Management; Asphalt Institute, Superpave Design & Research; ADOT – Survey Quality & Computations; ADOT Office Engineering & Accounting; ADOT – Materials School; Alaska Mining, Gold Star Mining Corp.

H. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	Professional Services	Construction (if applicable)
Office Management, Bonnyville Alberta, Canada	2012	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 1) Train and schedule ten University students in field and lab operations; schedule permanent employees on large projects. Coordination of Shale Oil Field operations in Northern Alberta where each oil company required up to five field testers for months. Some projects were over 200 miles from the main office. Safety in the oil fields while dealing with snow and below zero conditions required constant meetings and field review. Working with several different large oil fields on their roadways and building steam plant pads, roads as well as research use of lime additive for the dirt roadways and pad foundations. Pipelines, caissons, concrete structures, concrete buildings with large areas of muskeg requiring geotechnical materials and gang mats. Located sources of glacier till for foundations and field design. Rehabilitation on Cold Lake Airport. \$1,000,000. Senior Project Manager.		
Wastewater System Expansion Project, Lake Havasu City, AZ	2010	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 2) Oversaw management for several new large sewer construction projects for the City, including all mainline laterals on lots, lot restoration, homeowners issues, sub base for roadway new pavement, testing and reviewing pavements for meeting City standards. He also assisted in scheduling and reviewing safety requirements in trenches, traffic flow, and administered weekly meetings onsite. \$463,000,000. Project Management and Materials Specialist.		



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Jim Monnett (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Sewer Improvement District No. 3, Bullhead City, AZ	Professional Services 2007	Construction <i>(if applicable)</i> n/a
3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Oversaw all operations including meetings, design and work orders, right-of-way, training and assigning 25 inspectors and working directly with the City Engineer and re-designs meeting ADEQ requirements. 32 crews worked 12 hours a day throughout the City and placed 230,000 feet of mainline and laterals with each lot connection and restoration, milling and paving, curb and gutter, concrete channels and traffic control. Responsible for safety and scheduling safety meetings. This project won the Governor’s Excellence in Rural Development Award for 2007. AMEC completed this project early, within budget and with no accidents. We also received excellent input from the homeowners. \$49,000,000. Project Manager.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Tonto National Forest 7 Bridge Removal and Replacement, CFL/FHWA, AZ	Professional Services 2012	Construction <i>(if applicable)</i> n/a
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Senior Project Supervisor; ATSSA, ECC, SWPPP, QA-QC. Also, the last 3 months of the project, manager for the CFL on all inspections and construction on the seven bridges. The bridges were 27 miles from start to end. This Supervision included proof testing the micro pile for both loading and tension to 150 Kip loading. Inspected traffic control setups morning and night, meeting with CFL each morning to review the pre-construction work for the day. Inspection of all backfill, concrete, benching, new roadway alignment and inspection of trucks before entering the forest. Final rebar inspection on all bridges and caissons. Observed and tested backfill procedures, managed all inspectors both QC and QA. Field revisions and SWPPP Placement on major slopes. \$5,000,000. Senior Project Supervisor.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Banjo Bill Rock Containment, Sedona, AZ	Professional Services 2008	Construction <i>(if applicable)</i> n/a
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This was a research construction project for ADOT in Oak Creek Canyon consisting of two large structural micro pile and anchor retaining walls with architectural fascia for a natural appearance. Work elements included working closely with the US Forest Service and the Arizona Game and Fish Department; traffic and environmental impacts in a confined area; a short work period; and partnering. \$7,500,000. Senior Project Supervisor.		



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

a. NAME Bryan Campbell	b. ROLE IN THIS CONTRACT Survey Manager	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 8
d. FIRM NAME AND LOCATION (City and State) Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) AS, Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Land Surveyor: AZ #40622	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Memberships: Arizona Professional Land Surveyors Association, Certified Federal Surveyor (CFedS)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	El Paso Natural Gas Right-of-Way (R/W) Survey	2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performance of Right-of-Way Surveying for a 70 mile pipeline through the Gila River Indian Community. Collection of over 600 PLS corners, staking of 900 R/W monuments. Survey: \$600,000. Project Manager.		
2)	Southern Avenue and Country Club Drive Intersection, Mesa, AZ	2013	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of intersection improvements to add through lanes, bus bays, right turn lanes, driveways, ADA upgrades, pavement reconstruction, traffic signal/street lighting, and water/sewer lines. Design: \$680,000; Construction: \$14,000,000. Survey Manager.		
3)	Greenfield Road, Germann to Pecos, Gilbert, AZ	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design of improvements including roadway widening composed of four travel lanes, center turn lane, bike lanes, curb/gutter, sidewalk, traffic signals, water line, sanitary sewer, irrigation ditch relocations, retention basins, and utility relocations. Design: \$1,220,000; Construction: \$5,334,000. Survey Manager.		
4)	Falcon Field Airport, Mesa, AZ	2006 - Present	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performance of multiple surveying services for the past 7+ years including topographic surveying for design, boundary surveying for the airport and over 30 lease parcels, FAA control tower survey. Surveying: \$40,000. Survey Manager.		
5)	Town of Miami Sewer Upgrade, Miami, AZ	2010	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performance of topographic and as-built surveys for the existing sewer system for use in design. Determination of parcel boundaries and creation of easement descriptions and exhibits for over 30 parcels. Surveying: \$60,000. Survey Manager.		



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

a. NAME Don Thorstenson	b. ROLE IN THIS CONTRACT Information Management Lead	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 5

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
MS, Structural Geology
MAS, Geographic Information Systems

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

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

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Road Sign Inventory, Yuma, AZ	2014	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm FHWA funded road sign inventory including a needs assessment, database design, oversight of data collection, implementation and training. \$103,000. Information Management Lead.		
2)	Outfall Inventory, Statewide, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted statewide inventory of storm water outfalls discharging from ADOT property into impaired or outstanding waters of the U.S. \$84,000. Information Management Lead.		
3)	GIS and Database Support Services, Phoenix, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided well location mapping, environmental database support, property acquisition document management and an interactive user interface for data accessibility. \$72,000. Information Management Lead.		
4)	Winter Storm Management, Globe, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Analyzed winter storm management practices including real-time chemical application rates to provide best practice recommendations for future winter storm management. \$417,000. Information Management Lead.		
5)	GIS Services, Apache Junction, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Developed internal GIS data for Development Services, Public Works, and Economic Development. Created internal map viewer and assisted with migration to Enterprise GIS database. \$23,000. Information Management Lead.		



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

Reed Kraemer (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Preliminary Jurisdictional Delineation for Moss Mine, Bullhead City, AZ	Professional Services 2015	Construction <i>(if applicable)</i> n/a
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed a CWA Section 404-compliant delineation of jurisdictional "Waters of the US" for an approximately 60-acre proposed gold mine project in western Arizona. Conducted the field delineation and coordinated completion of the USACE submittal package. The delineation was in regard to ephemeral waterways typical of the Arid West region. \$10,429. CWA Specialist.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Pre-construction Biological Assessment for Lobos CO2 Pipeline, Central NM	Professional Services 2013	Construction <i>(if applicable)</i> n/a
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted pre-construction biological habitat assessments for a CO2 pipeline in various locations in New Mexico. Habitat assessments were done for various federal and state protected species including, but not limited to, grey vireo, mountain plover, burrowing owl and black-footed ferret. The project also included Clean Water Act Section 404 delineations. \$1,394,882. Biologist/Team Lead.		



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

a. NAME Serelle Laine	b. ROLE IN THIS CONTRACT Associate Archaeologist	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION <i>(City and State)</i> Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MA, Organizational Management BA, Anthropology		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Tucson Electric Power Roadway Improvements, Apache County, AZ	2013-Ongoing	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted archival research, pedestrian survey and prepared a Class III cultural resources report <i>A Cultural Resources Survey Hunt and Magma Flood Mitigation, Pinal County, Arizona</i> (Laine and Schaafsma 2013) for the final design services for improvements to the entrance road serving the Tucson Electric Power (TEP) Springerville Generating Station (SGS) located north of the Town of Springerville in Apache County. \$23,500. Archaeologist.		
2)	Lower Magma Channel Environmental Assessment, Pinal County, AZ	2013-Ongoing	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted archival research, pedestrian survey, and prepared a Class III cultural resources report <i>A Cultural Resources Survey Lower Magma Channel, Pinal County, Arizona</i> (Laine and Schaafsma 2013) for proposed improvements to the Lower Magma Channel. Prepared Section 106 early consultation and project effect determination consultation for SHPO, THPOs, and tribes. Design: \$151,000. Archaeologist.		
3)	Hunt and Magma Drainage Design Improvements, Florence, AZ	2013-Ongoing	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted archival research, pedestrian survey and prepared a Class III cultural resources report <i>A Cultural Resources Survey Hunt and Magma Flood Mitigation, Pinal County, Arizona</i> (Laine and Schaafsma 2013). For the proposed drainage improvements proposed by Pinal County. Prepared Section 106 early consultation and project effect determination consultation for SHPO, THPOs and tribes. Design: \$13,700. Archaeologist.		
4)	Phoenix-Mesa Gateway Airport Authority (PMGAA) Environmental Assessment, Mesa, AZ	2013-Ongoing	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project includes preparing an EA for the Northeast Area Development Plan, which involves development of a new passenger terminal and associated airport facilities. Responsible for overseeing cultural resources, Section 106 consultation, and Section 4(f). Based on the final results of the cultural resources survey and coordination with FAA, AMEC will complete the necessary Section 4(f) analysis. Archaeologist.		



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

Serelle Laine (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	20th Avenue Widening Categorical Exclusion, City of Stafford, AZ	2012-Ongoing	n/a
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted archival research, pedestrian survey and prepared a Class III cultural resources report A Cultural Resources Survey 20th Avenue, Phase 2, Golf Course Road to Relation Street, City of Safford, Graham County, Arizona (Laine 2013) for a widening project of 20th Avenue from two to four lanes within the city of Safford, Arizona. Prepared Section 106 project effect determination consultation for SHPO. \$28,700. Archaeologist.		



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

a. NAME Theresa Price	b. ROLE IN THIS CONTRACT Environmental Planner	c. YEARS EXPERIENCE	
		1. TOTAL 9	2. WITH CURRENT FIRM 8

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
MS, Applied Biological Science (Botany)
Master Certificate, Geographical Information Systems
BS, Botany & Environmental Studies

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Memberships: Arizona Association of Environmental Professionals
Training: Wetland Delineator Training; OSHA 40-Hour HAZWOPER; Desert Tortoise Survey, Monitoring and Handling Workshop; Burrowing Owl Surveyor Training; Chiricahua Leopard Frog Certification Workshop
Presentation: "Flora of Mt. Ord, Mazatzal Mountains, Central Arizona." Theresa Price and Kelly Steele Southwestern Vegetation Management Association Conference, Flagstaff, Arizona. November 19, 2008

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Environmental Assessment (EA) and Preliminary Jurisdictional Delineation for Lower Magma Channel, Magma Flood Control District, Florence, AZ	2013-Ongoing	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project includes preparation of a NEPA-compliant EA for proposed improvements to the Lower Magma Channel located near Florence, Arizona. In addition to analyzing potential impacts from the construction and operation of the proposed improvements to the channel, AMEC conducted a Clean Water Act Section 404 Preliminary Jurisdictional Delineation and is coordinating with the US Army Corps of Engineers for the appropriate permitting of this project. \$150,399. Lead Biologist.		
2)	Update to the ADOT Clean Water Act Section 404/401 Manual, Phoenix, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project includes updating the ADOT Clean Water Act Section 404/401 Manual that will guide ADOT's Environmental Services Group, Maintenance and Construction staff and consultants in the development of Clean Water Act Sections 404 and 401 compliance documents and permit applications. \$49,573. Lead Author/Environmental Scientist.		
3)	Vegetation Mapping and Habitat Management, Nellis Air Force Base and Nevada Test and Training Range, Las Vegas, NV	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performing fieldwork and background research for vegetation composition studies for habitat mapping on the Nevada Test and Training Range. The overall purpose of this project is to initiate the process of surveying and mapping habitats through vegetation classification on selected areas and updating the Unique Habitat/Rare Plants Management program guidelines with the most current data collected/analyzed during this project. \$471,400. Field Botanist.		



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

Theresa Price (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Ambient Monitoring System for Winter Storm Management, ADOT, Globe, AZ	Professional Services 2011-2013	Construction <i>(if applicable)</i> n/a
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted research study to develop application rate guidelines for the use of winter storm management chemical additives to roadways. Soil, biotic and water samples were collected over a two-year period to assess accumulation of winter storm chemicals along roadways and potential or observed impacts to natural resources associated with these accumulations. Anticipated benefit of this research project is to minimize impacts to water quality and roadside vegetation while maintaining desired roadway safety. \$200,000. Lead Biologist.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Preliminary Jurisdictional Delineation and Biological Review for Centennial Wash, City of Phoenix, AZ	Professional Services 2011	Construction <i>(if applicable)</i> n/a
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted fieldwork and prepared documentation for a Biological Review and Clean Water Act Section 404 Preliminary Jurisdictional Delineation along Centennial Wash in La Paz County, Arizona. The project area included approximately 450 acres in western Arizona. \$24,833. Lead Biologist.		



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

a. NAME Daniel Fréchette	b. ROLE IN THIS CONTRACT Senior Associate Geotechnical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 15

d. FIRM NAME AND LOCATION (City and State)
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION)
BS, Civil Engineering
PhD/MSE, Civil Engineering/Geotechnical Engineering

f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Professional Engineer: AZ #37284 (Civil)

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Publications: Fréchette, D.N., Walsh, K.D. and Houston, W.N. "Review of Design Methods and Parameters for Laterally Loaded Groups of Drilled Shafts", Proceedings, Deep Foundation Congress, ASCE, Orlando, FL, February 2002

Memberships: American Society of Civil Engineers; Geo Institute; ADSC: The International Association of Foundation Drilling, ASTM International

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Ajo Way (SR 86) Traffic Interchange at I-19, Tucson, AZ	2014	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Provided geotechnical investigation and design for the reconstruction of the Ajo Way TI. The project extends approximately 1½ miles along I-19 and approximately ¾ miles along Ajo Way. The Ajo Way TI is located in a congested urban setting with significant challenges associated with existing utilities, residential and business land use, and heavy traffic. The reconstruction required construction of three roadway bridges, including a bridge across the Santa Cruz River and one over I-19 for Ajo Way, founded on drilled shafts due to the high loads and potential scour at the river bridge. A pedestrian bridge over I-19 was supported on shallow spread footing foundations. The project required nine retaining walls (approximately 6,500 feet long), three sound walls (approximately 7,000 feet long) and one combination wall (approximately 470 feet long). The retaining walls vary in height from 4 to 30 feet. Amec Foster Wheeler overcame the challenges to complete the work on time and within budget. Project Manager/Senior Project Engineer.		
2)	SR 303L – El Mirage Road TI, Peoria, AZ	2014	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Geotechnical investigation and design for the traffic interchange improvements at SR 303L, an interstate type freeway, and El Mirage Road. The project consisted of two parallel two-span bridge structures founded on drilled shafts at the abutments and spread footings at the piers to elevate the SR 303L over El Mirage Road. In addition to the bridge the project consisted of retaining walls and sound walls founded on spread footings. Pavement design, consisting of both asphaltic concrete and PCCP, was completed for approximately 1 mile of mainline roadway improvements plus ramps in all four quadrants of the TI. Project Manager/Senior Project Engineer.		
3)	SR 24 – Gateway Freeway, SR 202L to Ellsworth Road, Mesa and Maricopa County, AZ	2011	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	The project consists of the roadway improvements associated with the construction of Phase I of the system traffic interchange between SR 24 and SR 202L located predominantly in Mesa and an unincorporated portion of Maricopa County. The construction includes directional ramps between SR 24 and SR 202L, as well as the segment of SR 24 from SR 202L to Ellsworth Road. \$1,066,600. Project Manager/Project Engineer.		



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

Daniel Fr chet (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
4)	SR 303L – Camelback to Glendale, AZ	2010	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project consisted of roadway improvements, new roadway construction and bridges including ramps, along the planned Estrella Freeway (SR 303L) from approximately 2,550 feet north of Camelback Road to approximately 2,550 feet north of Glendale Avenue. \$730,761. Project Engineer.		
5)	SR 303L: Happy Valley Parkway to Lake Pleasant Parkway, Peoria, AZ	2007	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project was comprised of roadway improvements consisting of 7.5 miles of new roadway construction and 15 bridges, including one over the Agua Fria River, along the SR 303L alignment. The roadway consists of 4 general purpose lanes, two in each direction of travel. \$1,391,091. Project Manager/Project Engineer.		



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

a. NAME Tony Freiman	b. ROLE IN THIS CONTRACT Associate Geotechnical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 32

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
BS, Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer: AZ #23982 (Civil); NV #09432 (Civil)

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Graduate Level Courses in Geotechnical Engineering
Professor J.L. Briand's Short Course on Pressuremeters & Cone Penetrometers
Memberships: American Society of Civil Engineers; Society of Mining Engineers

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	SR 143 – Sky Harbor Traffic Interchange, Phoenix, AZ	2010	n/a
1)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The study area began at SR 143 Milepost (MP) 0.75 and ended at MP 2.5, for a total length of approximately 1.75 miles along SR 143. The project reconfigured the existing SR 143/Sky Harbor Boulevard TI to improve and provide more efficient freeway-to-freeway directional ramps and consolidate the airport access to SR 143 and Sky Harbor Boulevard. \$456,045. Project Manager/Project Engineer.		
	SR 89 Little Hells Canyon Dam Spillway Reconstruction, AZ	2012	n/a
2)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The roadway embankment forming the Little Hell's Canyon reservoir is up to 70 feet in height and forms an impoundment volume of about 135 acre-feet. An ADWR Dam Safety inspection in May 2009 and June 2010 indicated safety repairs were necessary to prevent further erosion of the bedrock. AMEC performed a seismic refraction program to provide the design team with geotechnical engineering design criteria. \$5,740. Project Manager.		
	US 93, MP 104.1 to 106.0, Mohave County, AZ	2010	n/a
3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project consisted of preparation of construction plans, specifications, special provisions and quantity and cost estimates for a two-lane roadway parallel and adjacent to (west of) the existing US 93, resulting in a four-lane divided highway (two lanes each NB and SB) with an open median. \$173,836. Project Manager/Project Engineer.		
	SR 24 – Gateway Freeway, SR 202L to Ellsworth Road, Mesa and Maricopa County, AZ	2011	n/a
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project consists of the roadway improvements associated with the construction of Phase I of the system traffic interchange between SR 24 and SR 202L located predominantly in Mesa and an unincorporated portion of Maricopa County. The construction includes directional ramps between SR 24 and SR 202L as well as the segment of SR 24 from SR 202L to Ellsworth Road. \$1,066,600. Project Engineer.		



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

Tony Freiman (continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	Northern Arizona Veterans Memorial Cemetery, Camp Navajo, AZ	2012	Ongoing
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project consisted of a 60-acre cemetery site in northern Arizona within the boundaries of Camp Navajo. The Northern Arizona Veterans Memorial Cemetery was modeled to suit the unique characteristics of Camp Navajo and its natural environment. The first phase of the cemetery facilities included administration and maintenance buildings, a committal shelter, a columbarium wall, a memorial wall and a crypt field. Other planned site improvements will include a ceremonial main gate entry feature and ornamental fencing. Pavements were placed for roadways and parking areas. \$30,770. Project Manager/Geotechnical Engineer.		



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Phoenix, Arizona 85007**

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

a. NAME Wayne Harrison	b. ROLE IN THIS CONTRACT Senior Geologist	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 2

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
BS, Geosciences

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Geologist (PG) AZ #42910; PG CA #PG6916;
Certified Hydrogeologist CA #CHG671;
Certified Engineering Geologist #CEG2168

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Training/Certifications:
MSHA 5000-23/Mining Part 48 Annual Refresher/Surface, Construction, Metal, Nonmetal
Certified Radiological Worker – XRF Analyzer Spectroscopy; Radiation Safety and Use of Nuclear Density Gauges/#32975;
Radiation Safety Officer for Nuclear Density Gauges/#2239; OSHA 10 Hour Construction Safety; OSHA 40 Hour Hazardous
Waste Operations; OSHA 8 Hour Hazardous Materials Refresher; OSHA 8 Hour Hazardous Materials Supervisor; FEMA
Project Specialist/Emergency Management Institute
Memberships/affiliations: Association of Environmental & Engineering Geologists, Society for Mining, Metallurgy & Exploration

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Geotechnical Investigation, Design of US 93 Wickenburg-Kingman Highway, Carrow to Stephens Segment Widening, ADOT, Mohave County, AZ	2014-2015	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Geotechnical investigation of a 3.5-mile highway widening and realignment along the western edge of the Big Sandy River, crossing Gunsight Canyon Wash, and through rugged sedimentary bedrock ridges that will require up to 100-foot cuts. Project included track-mounted and helicopter-assisted exploratory geotechnical drilling, geologic mapping, seismic refraction surveys, and backhoe test pits along the alignment and a report of findings in support of the 4-lane divided highway design. Existing cut slope performance was documented and evaluated. The alignment crosses the western edge of the Big Sandy Floodplain and the new roadway embankment will require bank protection to protect the roadway from surface water flows along the Big Sandy River. \$775,000. Senior Geologist/Task Manager.		
2)	Design of Rockfall Debris Removal and Rock Slope Mitigation, SR 69, ADOT, Prescott Area of Yavapai County, AZ	2011-2011	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Site inspection and development of design plans, specifications, and construction cost estimate for debris wall clean-out and rock slope mitigation. This project involved a road cut 60 to 100 feet in approximate height exposing a rock face over steepened and prone to continued toppling, block, or wedge failures, and differential erosion resulting in rockfall and slope wash debris collecting behind the wall. Portions of the associated rock fall catchment retaining wall, approximately 4 to 2 feet in maximum height and 620 feet in length, had been completely in-filled with debris, and required maintenance to re-establish the storage capacity of the catchment located near Mile Post 300± on the north side of SR 69. \$80,000. Senior Engineering Geologist/Project Manager.		
3)	Geotechnical Investigation, SR 74 Carefree Highway Passing Lanes, ADOT, Lake Pleasant Area of Maricopa County, AZ	2009-2009	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Geotechnical investigation for roadway cuts/fills associated with the design and construction of passing lanes and northerly road widening. This project involved a road cut 45 feet in approximate height exposing quaternary stream terrace deposits and tertiary sediments. A geologic cross-section was developed to evaluate proposed 1.5H:1V cut slope stability adjacent to a high-voltage electrical transmission tower. \$175,000. Senior Engineering Geologist/Task Manager.		



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

a. NAME Robert Kostelny	b. ROLE IN THIS CONTRACT Laboratory Supervisor	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 11

d. FIRM NAME AND LOCATION *(City and State)*
Amec Foster Wheeler Environment & Infrastructure, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)* _____ f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)* _____

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Certifications/Training: ACI Concrete Strength Testing Tech., ACI Concrete Field Testing Tech. – Grade I, ACI Aggregate Testing Technician – Level 1, ACI Concrete Laboratory Testing Technician – Level 1, ATTI Soils/Aggregate Technician – Level I, ATTI Asphalt Technician
Memberships/affiliations: Arizona Rock Products Association, Maricopa Association of Governments Technical Committee, American Concrete Institute (ACI)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Diamond Bar Road, Peach Springs, AZ	2013 to 2014	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Oversaw construction materials laboratory testing and performed quality assurance/quality control testing and inspection services on 9 miles of new roadway to the Grand Canyon Skywalk. \$220,000. Laboratory Manager.		
2)	Lake Mary Road, Flagstaff, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Oversaw the construction materials testing and inspection laboratory services and provided quality control testing and inspection services on pavement rehabilitation project on roadway. \$150,000. Laboratory Manager.		
3)	I-10 / 303 Traffic Interchange, Buckeye, AZ	2014	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Oversaw the material laboratory testing and inspection services and provided contractor quality control testing and inspection services. \$450,000. Laboratory Manager.		
4)	Hanson Quality Control Testing Services, Phoenix, AZ	Ongoing	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Oversee the construction materials laboratory testing and inspection services and provide testing and inspection services to help control the quality of materials at the Hanson plants and aggregate pits. \$240,000. Project Manager/Laboratory Supervisor.		
5)	Safford Leach Pad, Safford, AZ	2013	n/a
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Oversaw laboratory testing and inspection services and provided quality control services on phase 2 of the leach pad construction. \$350,000. Laboratory Manager.		



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

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

a. TITLE AND LOCATION <i>(City and State)</i> Maricopa County/Town of Gilbert – Gilbert Landfill Surface Drainage Erosion Mitigation Design, Maricopa County/Gilbert, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012 to 2013	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Brian Kehoe 602-506-8997	d. DOLLAR AMOUNT OF PROJECT \$135,000	e. TOTAL COST OF PROJECT \$1,600,000 (est.)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) evaluated the Gilbert Landfill site and developed alternatives to mitigate surface drainage issues relating to erosion and adverse surface water quality impacts. Several studies had previously been completed by others on behalf of the County.



Amec Foster Wheeler performed an alternatives analysis and submitted a Stakeholder Workshop Information Packet to both Maricopa County and the Town of Gilbert summarizing the results. A final construction package with design plans, project specifications and engineers cost estimate was submitted in June of 2013. Amec Foster Wheeler's engineers cost estimate was over \$600,000 less than other designs previously considered for the site.

Amec Foster Wheeler also provided post-design services including bidding support, construction inspection and materials testing.



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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) Lake Havasu City (LHC) – Wastewater System Expansion Program, Lake Havasu, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005	CONSTRUCTION (If applicable) 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Lake Havasu City Greg Froslic 928-855-2116	d. DOLLAR AMOUNT OF PROJECT Engineering Costs (original; final): \$65,000,000; \$52,000,000	e. TOTAL COST OF PROJECT Construction: \$463,000,000 (orig.); \$341,000,000 (final) (Amec Foster Wheeler delivered program 1 year ahead of schedule)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Lake Havasu City was one of the largest western cities serviced almost entirely by septic tanks without a public wastewater collection and treatment system. To avoid continued beach closures due to bacterial contamination, in 2001 LHC elected to construct a city-wide sewer collection system. A distinctive aspect of the program during construction was the connection of each occupied lot to the sewer system and abandoning the septic tanks. This required obtaining separate legal agreements for entry onto each property and the collection of the "capacity fee" from each property owner as they were connected.

Amec Foster Wheeler provided program management, design and construction administration services and assistance with financing considerations including revenue generation analysis and utility cash flow projections. When Amec Foster Wheeler was appointed, the project was tens of millions over its original budget of \$463M and six months behind schedule. Within 18 months, the project was back on budget and on schedule. Typically, two to three sewer area projects were released each year through the design and construction contracts. These projects consisted of the installation of main line sewer, small diameter sewer laterals, manholes, septic tank closures and asphalt/landscape replacement.



Design: Amec Foster Wheeler designed nearly 145 miles of mainline sewer for the Wastewater System Expansion and four of the larger pump stations in the program. The program also included 17 miles of sewer force mains, 7 miles of effluent force main, the decommissioning of approximately 22,000 septic tanks, a new wastewater treatment plant and effluent disposal system. Amec Foster Wheeler was also involved in the overall conversion of the hydraulic model from HydroWorks to InfoWorks. This included upgrading the model to a GIS-based system and moving from a skeletonized trunk system model to a full pipe model (>3,500 nodes).

Construction Administration & Inspection (CA&I): The Amec Foster Wheeler construction team inspection staff was tasked with oversight of the sewer installation. Tasks included interacting with contractors to identify potential issues and resolutions, coordinating with City staff, preparing daily field reports and record drawings, maintaining a safe work zone and ensuring that the project was constructed in accordance with the plans and specifications.

Agency Coordination: Amec Foster Wheeler provided agency coordination with entities including local gas and cable companies, LHC Water Department, ADOT and the ADEQ. Amec Foster Wheeler and LHC partnered with ADEQ to streamline the Engineer's Certificate of Completion process with a series of sewer line video reviews and partial acceptance forms, introducing sewer flows into the new system.

Program Management: As part of the planning stages, Amec Foster Wheeler revised construction sequencing, optimized system configurations and evaluated phasing for various projects for economies of scale in the sewer designs. The team was heavily involved with public relations and organized/participated in numerous open houses to meet with affected homeowners to address their concerns. A large portion of the activities included meeting with the oversight committee to develop improvements to the overall WWSE program such as the joint Program Management Plan, advanced pavement designs, curvilinear sewers, backwater valves and hydrogen sulfide issues.



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

a. TITLE AND LOCATION <i>(City and State)</i> Supplemental Watershed Plan and Environmental Assessment for the Magma Flood Retarding Structure, Magma Flood Control District, Pinal County, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008 to 2010	CONSTRUCTION <i>(If applicable)</i> Ongoing

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Magma Flood Control District Kent Pace 480-424-3438	d. DOLLAR AMOUNT OF PROJECT \$213,000	e. TOTAL COST OF PROJECT \$11,300,000 (est.)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

Amec Foster Wheeler prepared a Supplemental Watershed Plan/Environmental Assessment (Plan/EA) for Magma Flood Retarding Structure (FRS). The Magma FRS was nearing the end of its original 50-year project lifetime and did not meet current dam safety standards. The Plan/EA determined the feasibility of rehabilitating the Magma FRS to provide continued flood protection to downstream residences, public facilities and agricultural fields while meeting dam safety requirements for the Natural Resources Conservation Service (NRCS) and the Arizona Department of Water Resources (ADWR).

The Magma Flood Control District was seeking funding from the NRCS; therefore the Plan/EA was prepared in accordance with NRCS National Environmental Policy Act guidance. The Plan/EA identified the National Economic Development (NED) alternative and compared environmental impacts of the NED Alternative to other project alternatives.



Amec Foster Wheeler completed all of the environmental technical reports including Cultural Resources Survey and Report, Biological Evaluation, Hazardous Materials Report and Economic Analysis. Amec Foster Wheeler also completed the jurisdiction delineation and Section 404 Permit Application for the U.S. Army Corps of Engineers review and approval. A Section 404 Individual Permit was acquired for this project which is currently under construction.



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

a. TITLE AND LOCATION <i>(City and State)</i> SR 24 – Gateway Freeway, SR 202L to Ellsworth Road, Maricopa County, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> n/a

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER ADOT Annette Riley 602-680-9598	d. DOLLAR AMOUNT OF PROJECT \$1,066,600	e. TOTAL COST OF PROJECT n/a
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

The project consists of the roadway improvements associated with the construction of Phase I of the system traffic interchange between SR 24 and SR 202L located predominantly in Mesa and an unincorporated portion of Maricopa County. The construction includes directional ramps between SR 24 and SR 202L, as well as the segment of SR 24 from SR 202L to Ellsworth Road.



The project length extends approximately 2 ¼ miles along SR 202L from west of Sossaman Road to east of Warner Road and includes approximately 1 mile of new roadway construction for SR 24 from the SR 202L to Ellsworth Road. The roadway improvements to SR 202L are primarily associated with adding merge lanes for the directional ramps. These improvements include widening the Sossaman Road bridge. The SR 24 roadway will generally consist of six general-purpose lanes, three in each direction of travel, with all traffic exiting at Ellsworth Road in an end-of-freeway condition. The SR 202L roadway profile is elevated on fill embankment and the SR 24 will also be an elevated roadway founded on embankment except at the end-of-freeway condition at Ellsworth Road.

The planned roadway improvements consist of Portland cement concrete pavement, except for the detour roads and the transitions along Ellsworth Road from new construction to existing asphalt concrete pavement. The improvements associated with SR 202L will receive a rubberized asphalt overlay.

Seven concrete bridge structures are planned at the following locations:

- Ramp W-S Flyover
- Ramp N-W Flyover
- Ramp E-S over Hawes Road
- SR 24 over Ray Road
- SR 24 over Powerline Floodway
- Ramp N-E over Warner Road
- SR 202L over Sossaman Road (bridge widening)

These bridges will be primarily founded on drilled shaft foundations.

The planned drainage for the project consists of a combination of drainage channels, box culverts, storm drains and detention/retention basins.



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

a. TITLE AND LOCATION (City and State) US 93, MP 2 to MP 17 Feasibility Study, DCR, EA and Final Design, Mohave County, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable) 2010

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Transportation Michael Kondelis, PE 928-681-6020	d. DOLLAR AMOUNT OF PROJECT \$7,600,000	e. TOTAL COST OF PROJECT \$75,000,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Amec Foster Wheeler was the prime consultant providing professional engineering and environmental services for the preparation of the Feasibility Report, Design Concept Report (DCR), Environmental Assessment (EA), and Final Design for this award-winning-mile long 4-lane divided highway segment. Final design for this fast-track project was completed within 12 months in order to coincide with the completion of CFLHD's Hoover Dam Bypass project.

The diverse technical requirements of the project demanded a group of equally diverse technical team members to ensure all the project elements were addressed. The design included complex geometric design with independent northbound and southbound profiles, scenic overlook design, and over 140 wash crossings including five bridge crossings in a rural, environmentally sensitive, mountainous setting.

One of the unique features of the project was the wildlife bridges for desert big horn sheep to cross over the highway – the first type of crossing in North America. These unique project features required extensive coordination with National Park Service, Arizona Game and Fish Department, and Bureau of Land Management related to context sensitive design features within the Lake Mead National Recreation Area.

Additional services for this project included significant roadway/ geometric design, drainage, utilities, geotechnical analysis and design, pavement analysis and design, preparation of NEPA documentation, landscape architecture/erosion control and survey/aerial mapping. Traffic services included signing inventory for both north- and southbound US 93; signing design and details – resulting in over 200 new signs; construction staging/phasing; design of the temporary construction crossover; and detailed work zone traffic control design.

The project has been recognized with several awards including:

- 2011 APWA Transportation Project of the Year
- 2011 Arizona ACEC Judges Choice
- 2012 Arizona Transportation Partnering Excellence
- 2011 FHWA Exemplary Ecosystem Initiative
- 2012 National Environmental Excellence
- Western Region 2012 America's Transportation Awards Best Use of Innovation

"I am extremely pleased with the quality of the AMEC design work on this project. Their staff was great to work with, and they were very responsive to the many variations presented during the design period. Completing a job of this size in such a compressed timeframe is remarkable."

Michael Kondelis, PE
ADOT Project Manager





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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.)

Please refer to Amec Foster Wheeler Environment & Infrastructure Inc.'s Statement of Qualifications for Additional Information.

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	80
b.	Percentage of Total Work Attributable to Non-Government Work:	20

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

Signature: 

Date: December 21, 2015

Name: Brett A. Howey, PE

Title: Vice President