



**ATTACHMENT I – General Qualifications**  
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:**  
**ADSP015-00004729**

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
**100 North 15<sup>th</sup> 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:	JE Fuller/Hydrology and Geomorphology, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	8400 S. Kyrene Road, Suite 201
c. FIRM (OR BRANCH OFFICE) CITY:	Tempe
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85284

f. YEAR ESTABLISHED:	1995
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small Business

h. POINT OF CONTACT NAME AND TITLE:	Brian Iserman, Vice President
i. POINT OF CONTACT TELEPHONE NUMBER:	480-752-2124 x213
j. POINT OF CONTACT E-MAIL ADDRESS:	brian@jefuller.com

k. NAME OF FIRM <i>(If block 1a is a branch office):</i>	
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**3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR**

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
11	Area Master Planning	4
3	Bridges	1
15	Dams	4
4	Environmental Impact Studies; Assessments	1
50	Rivers; Canals; Waterways; Flood Control	3
7	Surveying; Platting; Mapping; Flood Plain Studies	1
8	Water Resources; Hydrology; Ground Water	2
2	Hydrographic Surveying	2

**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	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
Brian Iserman	Project Manager	28	18

d. LOCATION *(City and State)*  
JE Fuller/Hydrology and Geomorphology, Inc., Tempe, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Hydrology	f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona, Engineer/Civil (29325)
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

Certified Floodplain Manager (CFM), Association of State Floodplain Managers Certificate US-07-03105  
National Hydrologic Warning Council, Editor  
National Hydrologic Warning Council Outstanding Service Award, 2013  
ALERT User's Group Outstanding Service Award, 2014

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Arizona Statewide Flood Warning System Plan, Phase II Statewide, Arizona	(2) YEAR COMPLETED 2013
		Professional Services Planning
		Construction (if applicable)
	(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 Arizona Statewide Flood Warning System (ASFWS) was a planning effort undertaken by JEF (as sub-consultant to David Miller & Associates) for the U.S. Army Corps of Engineers (USACE) and the Arizona Department of Water Resources (ADWR) to facilitate collaborative, multi-jurisdictional, statewide strategies for management and dissemination of real-time hydro-meteorological data and products for use by floodplain managers, emergency responders and the general public. JEF's fee for this project was \$90,000.		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Floodplain Delineation Study of Upper Daggs & Starr Washes Maricopa County, Arizona	(2) YEAR COMPLETED 2008
		Professional Services Floodplain Studies, Hydrology
		Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
JEF as Wood Patel's sub-consultant performed the hydrology for this project along with floodplain delineation of 21 of the approximate 75 miles of study reaches for the Flood Control District of Maricopa County. JEF's portion of the study included the 21 most distributary and complicated of the projects study reaches. JEF also assisted with assembly of the technical data notebook and the digital data delivery as well as provided training to the project team for hydraulic modeling of distributary reaches. JEF's fee was \$210,000.		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> ADWR Schultz Fire ALERT System Design and Installation Coconino County, Arizona and Flagstaff, Arizona	(2) YEAR COMPLETED 2010
		Professional Services Flood Control, Hydrology, Flood Warning
		Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
JEF designed and installed an ALERT flood warning system for the area impacted by the Schultz Fire. The work included coordination with multiple agencies, securing permits, collecting and setting up the equipment, setting up the ADWR base station with station meta-data and alarm thresholds/actions and building a <a href="#">web-based data/map display</a> for use by NWS forecasters and emergency response personnel.		
The work was performed in 2 phases. Phase I included installation of 3 ALERT precipitation stations, one ALERT precipitation/repeater station, initial database setup and web data display within 4 days of the notice of work and immediately after the fire and only days before the first flooding occurred in the area. The second		



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	phase included coordination/provision and installation of 4 additional ALERT precipitation stations and augmentation of the ADWR database, the web display and alarm and alarm action settings. The combined work was performed for approximately \$25,000	
4.	(1) TITLE AND LOCATION ( <i>City and State</i> )  Arizona Game and Fish Department, Lynx Lake Improvements Inspection and Design Yavapai County, Arizona (near Prescott, Arizona)	(2) YEAR COMPLETED 2010  Professional Services Dams  Construction (if applicable)
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE  JEF performed inspection work related to design of improvements for Lynx Lake. The work included hiring and supervising a commercial dive contractor and pipe inspection company. The work also included miscellaneous on-site equipment inspection and disassembly/reassembly. The approximate fee for this work was \$35,000	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION ( <i>City and State</i> )  35 <sup>th</sup> Avenue Bridge Scour Monitoring System Design and Installation, Phoenix, Arizona	(2) YEAR COMPLETED  Professional Services Bridges  Construction (if applicable)
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE  JEF designed and installed a scour monitoring and stream stage station on the Salt River at the new 35 <sup>th</sup> Avenue Bridge for the City of Phoenix Street Transportation Department. The work included coordination with the bridge design team, survey, hydraulic analyses for rating curve development, custom fabrication, integration and installation of the complete system, including database server setup at city hall. The approximate fee for this work was \$65,000	<input checked="" type="checkbox"/> Check if project performed with current firm



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

a. NAME Jeffrey A. Despain	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 12
d. LOCATION (City and State) JE Fuller/Hydrology and Geomorphology, Inc., Tempe, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona, Engineer/Civil (32833)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Certified Floodplain Manager (CFM), Association of State Floodplain Managers Certificate US-07-03059			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) Yavapai County Bridge Scour Evaluation/Montezuma Avenue Bridge Construction Management	(2) YEAR COMPLETED 2013 Professional Services Bridges	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE JEF evaluated the Old Black Canyon Highway Bridge and the Montezuma Avenue Bridge for scour and structural integrity. JEF performed scour analysis, and performed alternative analysis for these two scour prone bridges. JEF then recommended a final alternative which included full construction documents for the Montezuma Avenue Bridge Scour Floor. JEF Then provided Construction Management for construction of the Scour Floor. JEF's fee was approximately \$25,000		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Yavapai County Flood Control District Cordes Lakes Floodplain Delineation Study	(2) YEAR COMPLETED 2012 Professional Services Floodplain Studies, Hydrology	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE JEF performed a Floodplain Delineation Study for Cordes Lakes. This work included data collection, field reconnaissance, survey, hydrologic compilation, corridor hydraulics, technical data notebook (TDN), and FEMA submittal and addressing of comments. JEF's fee was approximately \$50,000.		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Yavapai County Flood Control District Agua Fria Non-Regulatory Products around Black Canyon City, Yavapai County, Arizona	(2) YEAR COMPLETED 2013 Professional Services Floodplain Studies	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE JEF utilized existing models, and established new models to provide the necessary deliverables for conformance to the draft FEMA Guidelines and Standards for Flood Risk Analysis and Mapping. These deliverables include water surface elevation contours, inundation limits, percent 30-year chance grid, depth grid (10%, 4%, 2%, 1%, and 0.2%), depth times velocity grid (10%, 4%, 2%, 1%, and 0.2%), depth times velocity squared grid (10%, 4%, 2%, 1%, and 0.2%), percent annual grid, velocity grid (10%, 4%, 2%, 1%, and 0.2%), and water surface elevation (10%, 4%, 2%, 1%, and 0.2%). JEF's fee was approximately \$20,000		<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Arizona Game and Fish Department, Lynx Lake Principal Outlet Valve Replacement Yavapai County, Arizona (near Prescott, Arizona)	(2) YEAR COMPLETED 2012 Professional Services Dams	Construction (if applicable)



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	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>JEF performed a site visit with divers to clean and remove the old valve gate and inspect the valve for the purpose of design and replacement of the valve at Lynx Lake. JEF then deployed a pipe plug into the principal outlet (PO) of Lynx Lake Dam. Once the dam's PO was plugged, the old valve was removed and a new valve was installed. The new valve required an extension to be constructed in the field that would allow the new valve to fit onto the opening. Once the valve was in place the area around the valve was sealed so that it would not leak. JEF also pulled the old valve actuator stem in preparation for placing the new hydraulic lines and ram. JEF also constructed the foundation for the new actuator house. JEF then installed the new hydraulic actuator to the valve and completed the actuator housing. The approximate fee for this work was \$58,000</p>	<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>				
<p>5.</p>	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Arizona Game and Fish Department, Willow Springs Principal Outlet Inspection and Repair Coconino County, Arizona (near Forest Lakes, Arizona)</p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>JEF contracted divers to inspect and remove the hydraulic actuators in Willow Springs Lake. The two actuators were refurbished and reinstalled and made operational. JEF inspected the existing valves and performed minor hydraulic repairs to the supply lines. JEF assessed the leaks in the system and provided alternatives for fixing the valve leaks. The approximate fee for this work was \$45,000</p>	<p>(2) YEAR COMPLETED 2013</p> <table border="1"> <tr> <td data-bbox="950 655 1252 768">Professional Services</td> <td data-bbox="1252 655 1494 768">Construction (if applicable)</td> </tr> <tr> <td data-bbox="950 768 1252 970">Dams</td> <td data-bbox="1252 768 1494 970"></td> </tr> </table> <p><input checked="" type="checkbox"/> Check if project performed with current firm</p>	Professional Services	Construction (if applicable)	Dams	
Professional Services	Construction (if applicable)					
Dams						



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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> Highway Drainage Design Manual - Hydrology for Arizona Department of Transportation (ADOT), AZ	b. YEAR COMPLETED 2013 PROFESSIONAL SERVICES Standards, Ordinances, Drainage Design, Hydrologic Modeling, Planning CONSTRUCTION <i>(If applicable)</i>	
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**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER ADOT	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$175,000	e. TOTAL COST OF PROJECT \$175,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

JE Fuller was selected by the Arizona Department of Transportation (ADOT) to update its Highway Drainage Design Manual, Hydrology. This was the first update since the manual was released in 1993. ADOT's goal was to update, refine, and improve the methods for estimating storm water runoff in order to produce better runoff values for optimizing drainage designs, thereby improving safety and operational characteristics of the roadways in the state. The project included an assessment of the existing manual which included recommendations for new practical methods and procedures to make the manual more user-friendly and to take advantage of technological advancements since 1993 such as GIS tools and two-dimensional flow modeling. Key improvements included incorporating newer rainfall data from NOAA 14, improved methods for computing Green-Ampt infiltration loss parameters, migration from HEC-1 to HEC-HMS computer program, and provision for use of FLO-2D where appropriate. ADOT appointed a review committee to participate in a series of workshops to discuss and approve potential manual updates. In addition to the manual update, JE Fuller developed GIS tools and datasets to aid in implementation of the hydrologic methods. Tools included a Rational Method calculator and a Rainfall averaging tool that utilizes NOAA rainfall data to compute basin wide average rainfall depths. The project duration was approximately 18 months.

**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> 2011 Arizona Fire Season Support Services, Apache County, Greenlee County, Cochise County, Santa Cruz County	b. YEAR COMPLETED 2011 PROFESSIONAL SERVICES Flood Control, Hydrology, Flood Warning CONSTRUCTION <i>(If applicable)</i> 2011	
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**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER ADWR	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$45,000	e. TOTAL COST OF PROJECT \$45,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

JEF installed 11 new ALERT flood warning sensor stations in 4 separate areas impacted by Arizona forest fires in 2011. The fires included the Wallow, Horseshoe II, Monument and Murphy Complex. The work included coordination with multiple local, state and federal agencies, securing permits, collecting and setting up the equipment, setting up the ADWR base station with



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station meta-data and alarm thresholds/actions and building 4 web-based data map displays including [Wallow](#), [Horseshoe II](#), [Monument](#) and [Murphy](#) for use by NWS forecasters and emergency response personnel.

The work included coordination with the Burned Area Emergency Rehabilitation (BAER) teams to establish the gauge locations, data telemetry routes, base station configurations and to coordinate entry into the burned forest areas. Finally, the installation work was coordinated with the local cooperating agencies, which included the local flood control districts, the Arizona Department of Water Resources and the U.S., Forest Service.

**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>	b. YEAR COMPLETED 2011	
Mohave Valley Risk Map	PROFESSIONAL SERVICES Flood Control, Hydrology, Hydraulics, Planning	CONSTRUCTION <i>(If applicable)</i> 2013

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Mohave County Flood Control Dist.	\$500,000	\$500,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Within the Mohave Valley area, several delineated FEMA floodplains did not accurately reflect the flood hazards at the time of the project; therefore, using FEMA CTP grant funding, the Mohave County Flood Control District (District) approved the Mohave Valley Risk MAP Project (Risk MAP Project), which included the following two primary objectives that were accomplished by JEF:

- Physical Map Revision (PMR).** Using recent aerial topography and updated hydrologic and hydraulic analyses (two-dimensional modeling/FLO-2D), the Risk MAP Project entailed restudy and remapping of the FEMA delineated floodplains located within the northern portion of Mohave Valley. Revised floodplain delineations were submitted to FEMA for revision of applicable Digital Flood Insurance Rate Maps.
- Generation of Flood Depth Grids for Preparation of Future Risk MAP Products.** Two-dimensional hydrologic and hydraulic analyses were completed for the 10-, 25-, 50-, 100- and 500-year, 6- and 24-hour storms. Two-dimensional modeling output for these storm events (flow depth, velocity and magnitude) was generated in flood depth grid format, which is the base data format used by FEMA for developing Flood Hazard Risk MAP products. Flood depth grids generated for this study were submitted to FEMA for development of future Mohave Valley Flood Hazard Risk MAP products.

**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>	b. YEAR COMPLETED 2012	
Arizona Game and Fish Department, Lynx Lake Principal Outlet Valve Replacement, Yavapai County, Arizona (near Prescott, Arizona)	PROFESSIONAL SERVICES Dams	CONSTRUCTION <i>(If applicable)</i> 2012

**23. PROJECT OWNER'S INFORMATION**



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c. PROJECT OWNER Arizona Game and Fish Department	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$58,000	e. TOTAL COST OF PROJECT \$58,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

JEF performed a site visit with divers to clean and remove the old valve gate and inspect the valve for the purpose of design and replacement of the valve at Lynx Lake. JEF then deployed a pipe plug into the principal outlet of Lynx Lake Dam. Once the dam was plugged, the old valve was removed and a new valve was provided and installed. The new valve required an extension to be constructed in the field by JEF staff that would allow the new valve to fit onto the opening. Once the valve was in place the area around the valve was sealed so that it would not leak. JEF also pulled the old valve stem in preparation for placing the new hydraulic lines and ram. JEF also constructed the foundation for the new actuator house. JEF then installed the new hydraulic actuator to the valve and completed the actuator housing.

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

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

a. TITLE AND LOCATION <i>(City and State)</i> Arizona Department of Emergency Management – Local MHMP Updates M10-0010, Apache, Gila, Greenlee, Navajo, Santa Cruz and Yavapai Counties, Arizona	b. YEAR COMPLETED 2012	
	PROFESSIONAL SERVICES Planning, Emergency Management	CONSTRUCTION <i>(If applicable)</i> 2011

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER ADEM	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$220,000	e. TOTAL COST OF PROJECT \$220,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Arizona Division of Emergency Management (ADEM) hired JEF to assist Apache, Gila, Greenlee, Navajo, Santa Cruz, and Yavapai Counties; all incorporated communities within those counties; and the Yavapai-Prescott Indian Tribe in preparing the 5 year updated multi-hazard mitigation plans that address the requirements set forth by Congress in the Disaster Mitigation Act of 2000. JEF lead the planning effort for each county, respective community, and Tribe using a multi-jurisdictional planning process to develop the public involvement, planning process, risk assessment, mitigation strategy, and maintenance and evaluation elements of each plan, and documented the results in a multi-jurisdictional plan document.



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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.)

Since 1995, JE Fuller/ Hydrology & Geomorphology, Inc. (JEF) has been recognized throughout Arizona as a leader in drainage and flood control related civil engineering.

Collectively, our engineers and technicians have more than 350 years of combined Civil Engineering experience with expertise in the fields of:

- Drainage Infrastructure Design and Master Planning,
- Hydrologic and Hydraulic Modeling,
- Dam Safety,
- Floodplain Management and Planning,
- Transportation Drainage,
- Applied Fluvial Geomorphology, and
- ALERT/Flood Warning Systems.

Our firm's previous experience working with local and state agencies in Arizona brings a caliber of value and local expertise that is unparalleled. Our project teams are eager to exceed your expectations for quality, value, communication, and schedule. Additional information on our company and people can be found in our [downloadable brochure](#) located at [www.jefuller.com](http://www.jefuller.com)



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

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	85%
b.	Percentage of Total Work Attributable to Non-Government Work:	15%

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

Signature: Brian R. Iserman

Date: 12/12/14

Name: Brian R. Iserman

Title: Vice President