



# Offer and Acceptance

State of Arizona  
State Procurement Office  
100 N. 15<sup>th</sup> Ave. Suite 201  
Phoenix, AZ 85007

SOLICITATION NO.: ADSP016-00005912 Request  
for Qualifications: 2016 Annual Professional  
Services List

PAGE  
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Offeror: Woodson Engineering & Surveying

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.

Woodson Engineering & Surveying, Inc.

Company Name

124 N Elden Street

Address

Flagstaff

AZ

86011

City

State

Zip

JSWAN@woodsoneng.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Jeff Swan

Printed Name

Senior Project Manager

Title

Phone: 928-774-4636

Fax: 928-774-4646

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. ADSP016-00005912

The effective date of the Contract is March 1, 2016

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

State of Arizona  
Awarded this 29 day of February 2016

Procurement Officer



**ATTACHMENT I – General Qualifications**  
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:**  
**ADSP016-00005912**

**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:	Woodson Engineering and Surveying
b. FIRM (OR BRANCH OFFICE) STREET:	124 N Elden Street
c. FIRM (OR BRANCH OFFICE) CITY:	Flagstaff
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	86001

f. YEAR ESTABLISHED:	1994
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	yes

h. POINT OF CONTACT NAME AND TITLE:	Jeff Swan, Senior Project Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	928-774-4636
j. POINT OF CONTACT E-MAIL ADDRESS:	<a href="mailto:jswan@woodsoneng.com">jswan@woodsoneng.com</a>

k. NAME OF FIRM (If block 1a is a branch office):	
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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 Technician	P	1	
Civil Engineer	P	3	
Hydraulic Engineer	P	1	
Project Manager	P	1	
Sanitary Engineer	P	1	
Technician/Analyst	P	4	
Transportation Engineer	P	2	
Other	P	3	
Civil Engineer	S	2	
Project Manager	S	4	
Water Resources Engineer	S	1	
<b>Total</b>		23	



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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 <i>(see below)</i>
2	Commercial Building (low rise); Shopping Centers	1
8	Construction Surveying	1
2	Dams (Earth Rock) Dikes; Levees	1
1	Forensic Engineering	1
4	Highways; Streets; Airfield Paving; Parking Lots	2
6	Housing (Residential, Multi-Family; Apartments; Condominiums)	1
10	Land Surveying	1
4	Sewage Collection, Treatment and Disposal	2
9	Surveying; Platting; Mapping; Flood Plain Studies	2
3	Storm Water Handling and Facilities	1
1	Traffic and Transportation Engineering	1
8	Topographic Surveying and Mapping	1
1	Transportation	1
3	Water Supply; Treatment and Distribution	2
2	Zoning; Land Use Studies	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>Mark W. Woodson</b>	b. ROLE IN THIS CONTRACT <b>Project Principal</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>37</b>	2. WITH CURRENT FIRM <b>21</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>			

e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BSCE (Civil Engineering) University of Arizona MBA, University of Arizona</b>	f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Arizona, Professional Engineer (Civil), #14855 Arizona, Registered Land Surveyor, #16630</b>
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
**Fellow, American Society of Civil Engineers, 2002 John C. Park Outstanding Civil Engineer**

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1.	<b>Contract City Engineer, City of Winslow, Winslow, AZ</b>	<b>Ongoing</b>	<b>Ongoing</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Serves as the contract City Engineer. As the engineer, advised staff on engineering related projects. Assisted in the management of capital projects for both design and construction. Reviewed and approved developer projects and coordinated with developer's engineers.</b>		
2.	<b>Flagstaff Unified School District, Flagstaff, AZ</b>	<b>Ongoing</b>	<b>Ongoing</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principal in charge for on-call services for capital and adjacent-ways improvements throughout the district</b>		
3.	<b>Coconino Community College, Flagstaff, AZ</b>	<b>2004</b>	<b>2004</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Planning, design and construction of a new \$19M Campus on 40 Acres. This project took years to develop. Mark was involved with the preliminary planning, continued through design, and provided construction related services. Site improvements included water, sewer, streets, sidewalks and all other general improvements that make a final campus.</b>		
4.	<b>Contract City Engineer, City of Holbrook, Holbrook, AZ</b>	<b>2008</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Served as the contract City Engineer, assisted with various municipal projects. As the engineer, advised city staff on engineering related projects. Assisted in the management of capital projects for both design and construction. Reviewed and approved developed projects and coordinated with the developer's engineers.</b>		
5.	<b>City of Flagstaff City Engineer, Flagstaff, AZ</b>	<b>1993</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Served as the City Engineer for the City of Flagstaff. In that role, supervised: Private Development Review, Capital Improvements, Traffic Engineering, Materials Testing, Inspection, Survey and Contracts Administration. He also served as the liaison for the City with NAU and other local agencies for related and co-funded construction projects during that period.</b>		



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a. NAME <b>Rick Schuller</b>		b. ROLE IN THIS CONTRACT <b>Associate Principal</b>		c. YEARS EXPERIENCE	
				1. TOTAL <b>25</b>	2. WITH CURRENT FIRM <b>16</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>					
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>University of Minnesota, BS Civil Engineering</b>			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer, Minnesota - Civil, #24709 Professional Engineer, Arizona - Civil, #34537</b>		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Northern Arizona Builders Association, Arizona Floodplain Managers Assoc., American Society of Civil Engineers</b>					
H. RELEVANT PROJECTS					
1.	(1) TITLE AND LOCATION (City and State) <b>Route 66 Renaissance Winslow, AZ</b>			(2) Year Completed	
				Professional Services <b>2011</b>	Construction (if applicable) <b>2013</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Mr. Schuller provides QA/QC on many of Woodson's City of Winslow projects which include administering construction contracts, to all phases of the Downtown Renaissance project Approximate costs - Design and Survey: \$128,590; Construction: \$3,000,000.</b>					
2.	(1) TITLE AND LOCATION (City and State) <b>Northern Arizona Intergovernmental Public Transportation Authority (NAIPTA) Transit Link Project, Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2012</b>	Construction (if applicable) <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>A design/build project, which, teamed Woodson Engineering with a national engineering firm and a large Arizona contractor. Woodson Engineering provided the survey and mapping work used to develop project base maps. We also provided drainage and utility design work for this entire project which consisted of a new roadway servicing the transit link right through the existing NAU campus along with new updated bus stops in the Flagstaff downtown area and Woodlands Village. The City of Flagstaff, NAIPTA and NAU were all partners in this Federally and locally funded project. Size: 5 miles. Design Cost \$370,413, Construction Cost \$4.2 million.</b>					
3.	(1) TITLE AND LOCATION (City and State) <b>Downtown Flagstaff Roadway Improvements, Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2014</b>	Construction (if applicable) <b>2014</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>As Project Manager, Mr. Schuller was responsible for the engineering work which consisted of analyzing local drainage, hydrologic and hydraulic conditions of the existing drainage systems, as well as design work. Approximate costs - Design and Survey: \$270,000; Construction: \$2.4M..</b>					
4.	(1) TITLE AND LOCATION (City and State) <b>Flagstaff Unified School District, Sinagua High School: New Athletic Field, Track, Parking Lot Addition and Reconstruction, Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2009</b>	Construction (if applicable) <b>2009</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Provided surveying, planning and engineering services for a new artificial multi-use field and track and for a parking lot addition and a parking lot reconstruction project as part of our On Call Services. Rick is project manager for these projects which included stormwater management for the fields and parking lots. We performed parking lot layout and circulation planning including student access and ADA access. Construction cost is \$1.3 million.</b>					
5.	(1) TITLE AND LOCATION (City and State) <b>Drainage Basins, Flood Control-US 89 North of Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2015</b>	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>As Associate Principal, Mr. Schuller performed QA/QC on this project in which we designed detention basins, sedimentation basins and all associated channels and culverts. Approximate costs - Design and Survey: \$344,985; Construction: \$3.15M..</b>					



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

a. NAME <b>Jeff Swan</b>	b. ROLE IN THIS CONTRACT <b>Senior Project Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>43</b>	2. WITH CURRENT FIRM <b>9.5</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BSE (Civil Engineering) California Polytechnic Univ. MPA, Northern Arizona University</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Arizona, Professional Engineer (Civil), #10518 Arizona, Registered Land Surveyor, #17524 Certified Floodplain Manager through AFPM</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Member ASCE, Member Intertribal Transportation Association Member Arizona Intelligent Transportation System</b>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1.	<b>Access Road to Public Works Building SR 77, Holbrook, AZ</b>	<b>2013</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Mr. Swan was the Project Manager for this design of the widening of SR 77 and the new access road to the new public works complex. Approximate costs - Design: \$20,655; Construction: \$200,000..</b>		
2.	<b>Ruby Wash Diversion Levee Recertification, Winslow, AZ</b>	<b>Underway</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Managed the levee recertification process in accordance with FEMA and Corps of Engineers requirements. Levee was recertified in 2010. FEMA is in the process of revising the Floodplain Maps.</b>		
3.	<b>Drainage Basins, Flood Control-US 89 north of Flagstaff, AZ</b>	<b>2015</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>As Project Manager, Mr. Swan oversaw the design of detention basins, sedimentation basins and all associated channels and culverts on an 80-acre parcel to protect US 89 from future overtopping and to regulate the flows that initiate within the Schultz Fire burn area. Approx costs - Design &amp; Survey: \$344,985; Construction: \$3.15M.</b>		
4.	<b>Access Road to Little Colorado River Tribal Park - SR 64 near Cameron, AZ</b>	<b>2011</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Mr. Swan was Project Manager in this design of a new access road which featured: detention basin design; project coordination with multiple stakeholders and constituents; base map survey; alternative designs; culvert and roadway design. Approximate costs - Design and Survey: \$67,000; Construction: not constructed.</b>		
5.	<b>Arizona Department of Transportation District Engineer, Holbrook, AZ</b>	<b>2003</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Managed the operations, construction program, and administrative programs for the Holbrook District including developing and supporting county, municipal and tribal transportation projects. Major projects included widening of SR 264 in Window Rock, construction of Querino Wash Bridge on I-40, assisting in attaining and constructing Transportation Enhancement projects in Holbrook, Winslow, and Kayenta.</b>		





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

a. NAME <b>James A. Folkers</b>	b. ROLE IN THIS CONTRACT <b>Survey Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>41</b>	2. WITH CURRENT FIRM <b>5</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>DeVry Institute of Technology Northern Arizona University, BS</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Arizona, Registered Land Surveyor, #18215</b>	

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
**Arizona Professional Land Surveyors Assoc, Arizona Professional Land Surveyors Education Foundation, Arizona Board of Technical Registration Enforcement Advisory Committee Member, Public Land Survey System Education Foundation, National Society of Professional Surveyors, Western Federation of Professional Surveyors.**

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1.	<b>City of Flagstaff, Butler Avenue Medians, Flagstaff, AZ</b>	<b>2012</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>With tough traffic and weather conditions, we performed a topographical survey of Butler Avenue, gathering needed information allowing our engineering team to evaluate and design landscape medians improvements along Butler Avenue between Beaver Street and Lone Tree Road.</b>		
2.	<b>City of Flagstaff, South Beaver St &amp; South Leroux St, Flagstaff, AZ</b>	<b>2012</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>A detailed topographical survey of South Beaver and South Leroux in downtown Flagstaff was performed. The survey information guided our engineering team to complete construction and utility documents for the City of Flagstaff. We also performed construction staking on the project. Size 7 Blocks. Design Cost \$250,000, Construction Cost \$2.4 million</b>		
3.	<b>Townsend-Winona Highway, near Winona, AZ</b>	<b>2014</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>The survey dept. performed the topographical survey for this roadway project. The work consisted of cross sections at 25-foot intervals, and a detailed survey of the northwest wingwall of a BNSF railway crossing. Our team also conducted the field survey for the intersection of Leupp Road and Townsend-Winona Highway. Surveying cost: \$5,500.</b>		
4.	<b>City of Flagstaff - Various, Flagstaff, AZ</b>	<b>2011</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Numerous boundary, control and topographic surveys for various projects including Pulliam Airport Water Storage Tank, Flagstaff Urban Trail System, Reclaimed Waterline, Rio Homes, Sunnyside Improvements Phase II, and LiDAR mapping elevation project evaluation.</b>		
5.	<b>Downtown Flagstaff Roadway Improvements, Flagstaff, AZ</b>	<b>2014</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Survey work included topographic and location survey and construction staking, for this 1/4-mile comprehensive street and utility replacement CMAR project. Approximate costs: Design and Survey: \$270,000; Construction: \$2.4M.</b>		





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

a. NAME <b>Sandy Phillips</b>	b. ROLE IN THIS CONTRACT <b>Project Manager Civil Engineering &amp; Design</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>30</b>	2. WITH CURRENT FIRM <b>1.5</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BSCE, California Polytechnic State University of San Luis Obispo</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer (Civil), Arizona, #26962 Professional Engineer (Civil), California #47720</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Member: American Society of Civil Engineers.</b>			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>City of Winslow Animal Care Facility, Winslow, AZ</b>	(2) Year Completed	
		Professional Services <b>2014</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Woodson Engineering is provided surveying services, civil site design, utility plan design and construction administration for the new City Animal Care Facility. We are working with a local Architect and city staff to program this facility, provide design documents, provide bidding services and construction administration thru close out.</b>		
2.	(1) TITLE AND LOCATION (City and State) <b>City of Winslow Renaissance V on Route 66, Winslow, AZ</b>	(2) Year Completed	
		Professional Services <b>Underway</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>This project includes construction of pedestrian, bicycle and roadway improvements along Second and Third Streets. Additional work includes Environmental Documents and Design Plans</b>		
3.	(1) TITLE AND LOCATION (City and State) <b>Westwing Mountain, Peoria, AZ</b>	(2) Year Completed	
		Professional Services <b>Underway</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Slope Analysis was performed on eleven hillside lots to determine buildability and value. Grading and drainage plans have been prepared for two of the lots to assist in the sale.</b>		
4.	(1) TITLE AND LOCATION (City and State) <b>Tonto Forest Estates, Maricopa County, AZ</b>	(2) Year Completed	
		Professional Services <b>2005</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>This 100-acre semi-custom home development was cut into the existing terrain to maintain the beauty of the existing desert. These 1 acre sites were designed to allow the rainfall to travel in it's historic manner to not decrease the flows to the existing vegetation downstream. Ms. Phillips, under the supervision of a Registered Land Surveyor, performed many of the As-Builts to make sure the in-field adjustments still met the intent of the plans, the County's requirements and the Owner's desires.</b>		
5.	(1) TITLE AND LOCATION (City and State) <b>Northside Horse Outfitters, Goodyear, AZ</b>	(2) Year Completed	
		Professional Services <b>2010</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Ms. Phillips performed site grading, retention calcs, access design, and water and fire service for this equestrian park in Goodyear, AZ. HEC-RAS was used to delineate the on- site wash limits so that construction did not encroach on these limits and additional armoring and the associated costs were not required.</b>		



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

a. NAME <b>Alicia Stoffers</b>		b. ROLE IN THIS CONTRACT <b>Design Engineer</b>		c. YEARS EXPERIENCE	
				1. TOTAL <b>13</b>	2. WITH CURRENT FIRM <b>13</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>					
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS Civil Engineering with Emphasis in Environmental Engineering Northern Arizona University</b>			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer (Civil), Arizona, #49953</b>		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
H. RELEVANT PROJECTS					
1.	(1) TITLE AND LOCATION (City and State) <b>Downtown Flagstaff Roadway Improvements. Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2014</b>	Construction (if applicable) <b>2014</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>As the primary engineer on this project, Ms. Stoffers' design work consisted of street, curb, gutter and sidewalk improvements. Design work for utilities included complete sewer and water replacement including a sanitary sewer interceptor (27") replacement project. Approx costs - Design and Survey: \$270,000; Construction: \$2.4M.</b>					
2.	(1) TITLE AND LOCATION (City and State) <b>Winslow Southside Water, Winslow, AZ</b>			(2) Year Completed	
				Professional Services <b>2012</b>	Construction (if applicable) <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>The Southside Waterline project was designed for the City of Winslow. The waterline was constructed to replace aging infrastructure and provide additional redundancy to the system needed for the Southside neighborhood in Winslow, AZ. Woodson Engineering also designed and obtained permits from BNSF for two borings of the waterline under the BNSF railroad tracks.</b>					
3.	(1) TITLE AND LOCATION (City and State) <b>NAIPTA Transit Link Project, Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2012</b>	Construction (if applicable) <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>This design/build project teamed Woodson Engineering with Jacobs Engineering and Hunter Contracting. Alicia Stoffers was the design engineer for drainage and utility work for this project which consisted of a new transit link through NAU campus along with new updated bus stops in the Flagstaff downtown area and Woodlands Village. Size: 5 miles. Design Cost \$370,413, Construction Cost \$4.2 million</b>					
4.	(1) TITLE AND LOCATION (City and State) <b>Drainage Basins, Flood Control-US89 north of Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2015</b>	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>As one of the Engineers Ms. Stoffers assisted in the design of detention basins, sedimentation basins and all associated channels and culverts on an 80-acre parcel to protect US 89 from flows that initiate within the Schultz Fire burn area. Approximate costs - Design and Survey: \$344,985; Construction: \$3.15M.</b>					
5.	(1) TITLE AND LOCATION (City and State) <b>Ridge at Clear Creek, Flagstaff, AZ</b>			(2) Year Completed	
				Professional Services <b>2013</b>	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Engineering services necessary to provide for the planning, development review board approval, platting and construction documents to construct 17 apartment buildings. The civil construction is approximately \$4 million. This project is very complex with many different variables required to be incorporated into the project. These include future right of way for a Lone Tree Road traffic interchange, numerous easements, connection to Forest Service Research Station waterline, Low Impact Development Criteria for Storm Water Management, offsite sanitary sewer in ADOT right of way and resource preservation requirements.</b>					



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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 <b>Sirisha Kalluri</b>	b. ROLE IN THIS CONTRACT <b>Design Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>12</b>	2. WITH CURRENT FIRM <b>1.5</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS Civil Engineering, Osmania University MS Civil Engineering, Lamar University</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer (Civil) Arizona #51844 Professional Engineer (Civil) Nevada # 19547 Certified Floodplain Manager US-14-07483</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1.	<b>Copeland Regional Detention Basin, Flagstaff, AZ</b>	<b>2015</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>The improvements included three sediment traps and two detention ponds located on approximately 80 acres of undeveloped land located west of and adjacent to US 89 between Copeland Lane and Kevin's Way. Ms. Kalluri is involved in design and analysis of Storm Water Management facilities, Best Management Practices (BMPs), Erosion Control facilities, channels and box culverts. She prepared drainage report, cost estimate and worked on special provisions.</b>		
2.	<b>Grand Canyon Camper Village Master Drainage Plan</b>	<b>2014</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Prepared a master drainage plan including hydrology and hydraulics analysis. Provided alternative drainage design including channels, concrete box culverts, and pipe culverts so that subject property could be developed further and kept out of flood plain.</b>		
3.	<b>Elkhorn Springs and Buffalo Drive storm drain system, Las Vegas NV</b>	<b>2009</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Lead Designer of the 1600-ft long storm drain system. Involved in as built plan review and site visits to delineate the basin boundaries. Performed the detention basin stage storage calculations and provided alternatives for outflow pipes to minimize the impact on downstream facilities. Designed the analyzed storm drain system to route additional flow to the detention basin to utilize the unused capacity of the basin.</b>		
4.	<b>Conditional Letter of Map Revision (CLOMR) for Blue Diamond Crossing, Las Vegas, NV</b>	<b>2006</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Prepared Conditional Letter of Map Revision (CLOMR) application for a 60-Acre commercial site, located in SFHA Zone AE to remove the project site from flood zone. The CLOMR application included analyzing a proposed 45-foot trapezoidal channel of approximately 2400-foot using HEC-RAS. Performed detailed hydraulic modeling to compare the pre and the post-development water surface elevations to satisfy FEMA criteria. A CLOMR application and hydrologic/hydraulic report was submitted to FEMA for review and approval.</b>		
5.	<b>Sunridge Neighborhood Drainage Mitigation, Flagstaff, AZ</b>	<b>Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Design will alleviate the flooding and erosion impacts to residents, structures and existing utilities in this developed neighborhood. A DCR was prepared to summarize activities, analyses, calculations, solutions, design exceptions and costs. Design challenges included the undersized channel filled with utilities, and the 4" roll curb and flat driveways that allow stormwater to flow onto properties. Solutions included storm drains and enlarged channels; reconstructed curb, gutters and driveways to confine runoff within roadway.</b>		



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

a. NAME <b>Mike Farley</b>	b. ROLE IN THIS CONTRACT <b>Design Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>16</b>	2. WITH CURRENT FIRM <b>2.5</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying, Flagstaff, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS Civil Engineering, Arizona State University</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer (Civil) Arizona, 42736 Professional Engineer (Civil) Colorado, 45679</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1.	<b>Flagstaff Sanitary Manhole Assessment Project, Flagstaff, AZ</b>	<b>Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>This work consists of providing a manhole condition assessment for a portion of the existing City sanitary sewer system, (over 270 manholes), for the purpose of extrapolating the findings to the overall system to determine future capital expenditures related to rehabilitation and replacement of system manholes. For this project we provided visual condition assessment of each manhole, pole camera documentation of the manholes, and documenting the level of distress encountered at each manhole.</b>		
2.	<b>Arizona State Land Department, Phoenix, AZ</b>	<b>2013</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Performed coordination/review of engineer studies which involved State Trust Land (STL) consisting of drainage, transportation, water and wastewater infrastructure master planning.</b>		
3.	<b>City of Surprise 16 inch Reclaim Water Main, Cactus Rd, Litchfield Rd to Dysart Rd Surprise, AZ</b>	<b>2007</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Engineer of Record in charge of the preparation of construction plans for 1 mile of a new 16 inch reclaimed water distribution main. Oversee utility coordination, identifying pipeline horizontal and vertical alignment. Coordinate with EIT &amp; drafter internally and suppliers, the BNSF Railroad, other consulting engineers and city personnel externally. Performed opinion of probably cost estimates for new reclaimed water main. Coordinated the MCESD submittal in order to obtain an Approval to Construct permit from Maricopa County. Aided the City of Surprise in obtaining a railroad permit for installing infrastructure underneath an existing railroad.</b>		
4.	<b>City of Cottonwood Water Systems Evaluation, Cottonwood, AZ</b>	<b>2003</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Responsibilities included water quality, financial, and hydraulic analysis of three private water companies in Cottonwood. This study utilized engineering economics to establish present worth of each company based on age, expected lifespan, and condition of equipment. Performed current water demands analysis throughout the study area to be used in WaterCAD in order to accurately model each water system.</b>		



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

a. NAME <b>Chris Hull</b>	b. ROLE IN THIS CONTRACT <b>Survey Project Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>18</b>	2. WITH CURRENT FIRM <b>7</b>
d. FIRM NAME AND LOCATION (City and State) <b>Woodson Engineering &amp; Surveying</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>Denver Institute of Technology Surveying and Mapping</b>		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Registered Land Surveyor, Arizona, #39469 Registered Land Surveyor, Utah, #56141302201 Registered Land Surveyor, Colorado #37951</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Arizona Professional Land Surveyors</b>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1.	<b>Peabody Mapping Survey, Kayenta, AZ</b>	<b>2011</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Chris was responsible for setting and locating the aerial targets used to map 11 miles of road for the Peabody Coal Mine on the Navajo Reservation, a corridor of 800 feet wide centered on Navajo Route 41 from the Highway 160 intersection south to where the Black Mesa Haul Road and NR 41 intersect.</b>		
2.	<b>City of Flagstaff Beaver &amp; Leroux Survey, Flagstaff, AZ</b>	<b>2013</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Chris did a detailed topographic survey of Beaver and Leroux Streets in downtown to aid in the design of new utility lines and road improvement. The survey information guided the engineering team to complete construction and utility documents for the City of Flagstaff. Chris also performed construction staking on the project.</b>		
3.	<b>NAIPTA Mountain Links, Flagstaff, AZ (Northern Arizona Intergovernmental Public Transportation Authority)</b>	<b>2009</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Chris provided the necessary construction layout in order to build the bus route through the Northern Arizona University Campus, and other bus stop locations throughout Flagstaff including the downtown area. Size: 5 miles. Design Cost \$370,413, Construction Cost \$4.2 million</b>		
4.	<b>City of Flagstaff Schultz Waterline</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Chris performed a topographic survey of the lower portion of waterline for use in the design of a new waterline. Chris was involved in the construction layout of the new line on the lower portion.</b>		
5.	<b>City of Flagstaff Observatory Mesa</b>	<b>2013</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Performed an ALTA/ACSM Land Title Survey of ± four sections of land on Observatory Mesa for purchase from the State of Arizona by the City of Flagstaff.</b>		



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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>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>Downtown Flagstaff Roadway Improvements Flagstaff, AZ</b>	<b>2014</b>	<b>2014</b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
<b>City of Flagstaff</b>	<b>Design and Survey: \$270,000</b>	<b>Construction: \$2.4M</b>

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

We were the prime engineers for this 1/4-mile comprehensive street and utility replacement CMAR project.

- Design work consisted of street, curb, gutter and sidewalk improvements.
- Design work for utilities included complete sewer and water replacement including a sanitary sewer interceptor (27") replacement project.
- Specific engineering work consisted of analyzing local drainage, hydrologic and hydraulic conditions of the existing drainage systems.
- Our work included topographic and location survey and construction staking, field investigation of existing drainage infrastructure, an alternatives analysis and design and construction services.
- Approximate costs - Design and Survey: \$270,000; Construction: \$2.4M.



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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> <b>Drainage Basins, Flood Control-US 89 north of Flagstaff, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2015</b>	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>Coconino County</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>Design and Survey: \$344,986</b>	e. TOTAL COST OF PROJECT <b>Construction: \$3.15M</b>
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g. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Woodson designed detention basins, sedimentation basins and all associated channels and culverts on an 80-acre parcel on US 89, north of Flagstaff. These improvements are to protect US 89 from future overtopping and to regulate the flows that initiate within the Schultz Fire burn area. We prepared 100% level plans, specifications and cost estimates for ADOT and the County. Our package included a grading and drainage plan with earthwork as well as an SWPPP for the entire parcel. The project is now under construction.

Approximate costs - Design and Survey: \$344,985; Construction: \$3.15M.

Project features:

- Detention basin design
- Hydraulic analysis
- Surveying
- Runoff mitigation
- SWPPP
- Grading plan
- Drainage plan
- Culvert design
- Channel design





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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>	b. YEAR COMPLETED	
<b>Route 66 Renaissance Winslow, AZ</b>	<b>PROFESSIONAL SERVICES 2011</b>	<b>CONSTRUCTION <i>(If applicable)</i> 2013</b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
<b>City of Winslow</b>	<b>Design and Survey: \$128,590</b>	<b>Construction: \$3.M</b>

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

As the City's Contract Engineer, Woodson Engineering is responsible for a wide range of activities related to infrastructure work. In the last 5 years we have managed and completed 41 projects for the City of Winslow. These have ranged from smaller services such as administering construction contracts, to all phases of the Downtown Renaissance project. **The Renaissance Phase II was awarded the APWA Arizona Project of the Year in Historical Renovation.**

Winslow Renaissance III Scoping, Environmental Clearance, Design, Construction Management. Woodson Engineering provided the scoping documents and environmental clearances for the Winslow Renaissance III Transportation Enhancement (TE) Project. Using federal TE money, environmental studies were required to move ahead with the design. Woodson provided the design of a new frontage road, curb, gutter, sidewalk, vehicle and pedestrian lighting, as well as landscape and irrigation on Old US Route 66. The total length of the project was approximately 3,500 linear feet. The design included preparing 30%, 60% 95% and 100% plans for review by ADOT and the State Historic Preservation Office.

Woodson was responsible for preparing Bid Documents, advertisements for bid and bid tabulation, maintaining records of weekly progress meetings, checking contractor pay applications, conducting employee interviews to meet federal requirements for FHWA grant funded work, monitoring wage rates to comply with Davis-Bacon requirements, checking and approving shop drawings, facilitating pre-final and final walkthroughs to develop punch lists for final work to be completed and final payment and providing reimbursement documents to ADOT for reimbursement to the City of Winslow. Approximate costs - Design and Survey: \$128,590; Construction: \$3,000,000.



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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>	b. YEAR COMPLETED	
<b>City of Flagstaff Bonito Street Water and Sewer, Flagstaff, AZ</b>	<b>PROFESSIONAL SERVICES 2014</b>	<b>CONSTRUCTION <i>(If applicable)</i></b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
<b>City of Flagstaff</b>	<b>Design: \$149,300</b>	<b>Construction: \$1.4M</b>

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

This project began as a sewer and water replacement project, but based on citizen input, grew to include drainage improvements due to flooding and runoff issues. Because of Woodson's depth of technical staff and diverse experience we were able to accommodate all aspects of the project. The project is now under construction and involves water and sewer replacement, catch basins and a storm drain system to alleviate the flooding impacts to residents and also to contain the runoff within right-of Way (ROW). Replacements of curb, gutter, sidewalk, pedestrian ramps, and driveway approaches have been designed for the utility improvements. Woodson Engineering has also been responsible for utility coordination, Arizona Department of Environmental Quality (ADEQ) submissions, traffic routing during construction phase, public meetings, bid phase services and construction services.



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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>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>Winslow Floodplain Physical Map Revision, Winslow, AZ</b>	<b>Ongoing</b>	

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
<b>Town of Winslow</b>	<b>Design: \$197,000</b>	<b>\$197,000</b>

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

PROJECT DESCRIPTION: This Environmental Engineering and Planning project involved a floodplain delineation study after determining that with the de-accreditation of the Little Colorado River Levee, east of the City, approximately 3,000 properties were placed in a Special Flood Hazard Area (SFHA) Zone A. Initial review estimated that approximately 40% of the properties would have the flood risk and flood insurance reduced if a delineation study was performed. The study has involved coordination with the US Army Corps of Engineers (USACE) and Navajo County to ensure that the feasibility study of rehabilitating the levee and this delineation project do not conclude with conflicting results which would impact the local residents. Tasks included validating a survey performed by the county, validating hydrologic data, determining flow patterns and depths over several square miles, determining the floodway, preparing the necessary analysis maps and presentations for the City, and coordinating with FEMA in terms of how to apply the results so that the proper risk levels could be assigned. The use of HEC-RAS and AutoCad were instrumental in developing the maps necessary to demonstrate to the stakeholders the analysis and impacts on the community in delineating the floodplain.

This project has involved a close working relationship between Woodson and DuBroy Engineering along with FEMA, USACE, Navajo County, and the City of Winslow. The technical challenges were solved through the constant communication and data sharing between Woodson and DuBroy.

Project encompassed over 10 square miles of study area and required iterative uses of the HEC-RAS software to accommodate changing conditions and client preference. The budget for performing this work is \$197,000.



6. ADDITIONAL INFORMATION

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

**Woodson Engineering and Surveying, Inc.** is a multi-disciplinary firm in Flagstaff, Arizona, engaged in land surveying, land planning, and civil engineering. We realize that service to our clients is our most important marketing tool. Service, along with the knowledge and experience of our personnel and the state-of-the-art equipment that is available to our personnel, leads to the successful completion of quality projects.

Woodson Engineering is unique in its ability to successfully work with both private developers and public agency clients, and can handle a broad range of projects. Since 1994, the objective of Woodson Engineering has been to provide quality surveying, planning and civil engineering services to our clients. This is accomplished because of our commitment to excellence.

SERVICES

- **Surveying** – Boundary and cadastral surveys, right-of-way surveys, subdivision layouts, parcel splits, topographic surveys, asbuilt surveys, ALTA surveys, construction staking.
- **Feasibility Studies, Preliminary Planning, Land Use and Master Plans** - Investigation of development potential and costs, preliminary development plans or alignment studies, improvement district development, project scoping, development master plans and land use planning.
- **Site Development** - Residential, institutional, commercial and industrial developments ranging from single building site plans to large developments.
- **Right-of-way Services** - Alignment studies, surveys, and mapping, negotiations for property acquisitions, research property ownership and easements, write legal descriptions, recording of documents, and final property staking.
- **Infrastructure Studies and Design** - Water, sewer, drainage, roadway, facility and airport studies and designs for individual residences and site plans, subdivision, or large municipal systems.
- **Drainage and Flood Control** – From permitting to local storm drains and detention basins to major flood control studies and projects including floodplain studies.
- **Construction Contract Administration** - Cost estimating, specifications, bidding assistance, and overall construction administration.
- **Government Engineering On-Call Services** - Services such as plan review, planning and programming of capital improvement plans, and other contract government engineering services.

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:	70
b.	Percentage of Total Work Attributable to Non-Government Work:	30

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

Signature: 

Date: December 21, 2015

Name: Jeff Swan

Title: Senior Project Manager