

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

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

1. REVISED ADSPO13-00003465: Annual Request for Qualifications

a.	FIRM (OR BRANCH OFFICE) NAME:	Wood, Patel and Associates, Inc. (Wood/Patel)
b.	FIRM (OR BRANCH OFFICE) STREET:	2051 W. Northern Ave., Ste. 100
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	AZ
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85021
f.	YEAR ESTABLISHED:	1984
(g1).	OWNERSHIP - TYPE:	Corporation ("S")
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	AZ UTRACS Small Business Concern (SBC)
h.	POINT OF CONTACT NAME AND TITLE:	Darrel Wood, Principal
i.	POINT OF CONTACT TELEPHONE NUMBER:	(602) 335-8500
j.	POINT OF CONTACT E-MAIL ADDRESS:	dwood@woodpatel.com
k.	NAME OF FIRM (If block 1a is a branch office):	

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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)
2	Area Master Planning	3
1	Cemeteries (Planning and Relocation)	2
5	Construction Management	4
8	Highways; Streets; Airfield Paving; Parking Lots	5
4	Hospital and Medical Facilities	2
16	Housing (Residential, Multi-Family; Apartments; Condos)	6
2	Irrigation; Drainage	3
13	Land Surveying	2
1	Recreation Facilities (Parks, Marinas, Etc.)	2
5	Sewage Collection, Treatment and Disposal	3
8	Surveying; Platting; Mapping; Flood Plain Studies	3
4	Traffic and Transportation Engineering	3
12	Water Resources; Hydrology; Ground Water	6
6	Water Supply; Treatment and Distribution	2
1	Wastewater Treatment Facility	3

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 Darrel Wood, P.E., R.L.S.	b. ROLE IN THIS CONTRACT Principal	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 29
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S.E. Civil Engineering, Arizona State University Certificate of Surveying, Mohawk Valley Community College A.A.S. Agricultural Science, SUNY Morrisville		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #13138 Professional Land Surveyor, Arizona #16627	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers, Arizona Floodplain Management Association, Valley Partnership, Arizona Consulting Engineers Association St. Mary's Food Bank Board Member, and Arizona State Board of Technical Registration - Past Board Member, 2012 National ACEC Community Service Award			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Reata Wash, FEMA LOMR - Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darrel is the project principal for this project, which included hydraulic modeling, levee design and bank protection construction documents for a new 1,200 foot long west levee to prevent roadway overtopping during the design 100-year flood (17,850 cfs) and design Super flood (26,775 cfs); hydrology, hydraulics and scour analyses for the new westbound bridge; bank protection design; multiple nationwide 404 permits; on-site drainage facilities; cross-culvert extensions; and, post-design services. Wood/Patel is currently under application with FEMA for a Letter of Map Revision (LOMR). <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Scottsdale Road, Thompson Peak Parkway to Pinnacle Peak Road - Scottsdale, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darrel is the project principal for this project, which provided construction administration services to the City of Scottsdale for a major bridge structure (11,900 cfs) and roadway improvements. Other services included: Design Concept Report and final construction documents for 2 miles of Scottsdale Road improvement to a major arterial section incorporating major drainage structures to accommodate FEMA 100-year floodplain flow patterns. Water and wastewater lines were also designed and relocated. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Rawhide Wash @ Silverstone, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darrel is the project principal for this project, which is currently providing construction administration services for a complex flood control channel. FEMA has designated an alluvial type floodplain for Rawhide Wash delineated over hundreds of acres in north Scottsdale and Phoenix. This project included land planning and hydrology, hydraulics and scour analyses and serves to convey a portion of the floodplain in a channel segment (100-year peak discharge of 11,900 cfs) between 2 bridges designed by the Wood/Patel team. Once built and agency accepted, a LOMR will be applied for from FEMA. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Mountain Preserve Acquisition Services, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darrel was project principal for this project, which provides technical due diligence services for acquisition of State Land properties for the McDowell Mountain Preserve. Services included determining the amount of land not burdened by ground slopes over 15%, boulder outcrops, culturally sensitive areas, washes conveying over 50 cfs, and designated FEMA floodplains. Preliminary Opinion of Probable Infrastructure Costs was also undertaken and completed. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Country Club Commercial Park, Flagstaff, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darrel is the principal for this project, which reclaims land from the FEMA floodplain for commercial and retail uses. The Rio de Flag bisects the property and creates a significant volume of floodwater which ponds on the property. Wood/Patel developed an acceptable multi-agency approved solution. Construction documents include public improvements including roadway, water, and sanitary sewer. A Mass Grading Plan was developed to reclaim land and provide the documentation for volume displacement of floodwaters. Project is ongoing. <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 Darin Moore, P.E., LEED GA	b. ROLE IN THIS CONTRACT Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 11
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, Washington State University 1994		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer; Arizona: #36382 LEED Green Associate (GA): # 10555946	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers, Valley Partnership, Alliance for Construction Excellence, Central Arizona Society of Healthcare Engineering U.S. Green Building Council, NAIOP			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Veterans Administration Cemetery, Southern Arizona, Sierra Vista, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darin served as project manager on this 145-acre project for ADOA and the Arizona Department of Veterans' Services (ADVS) that provided planning, design and construction oversight services for enhancements to the Southern Arizona Veterans Memorial Cemetery. Wood/Patel provided services to improve the access roadway, parking lots, drainage, the committal services area, assembly area, Avenue of Flags, and burial section, as well as evaluation and replacement of segments of the irrigation system and installation of twin columbaria. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Banner Verrado Health Center, Buckeye, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darin serves as program manager for this \$4.6 million medical campus project. Phase 1 includes 60,000 square feet of medical office space with private access drives, parking, landscaped open spaces and utilities. Wood/Patel implemented value engineering solutions, including a temporary storm water retention design that eliminates the need for three drywells, saving \$45,000. Services include topographic survey, grading and drainage design, earthworks analysis, water and sewer system design and construction assistance. Design and construction of this project are ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) ASU New Business School Facility, Tempe, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darin serves as project manager on this \$57 million project, which includes a plaza with water features and a 128,000 square-foot facility containing classroom and office space, student and career services, and social spaces. The project is pursuing LEED gold status and the scope includes topographic survey, utility coordination, preliminary engineering, drainage study with underground retention design, final grading, water, sewer improvements, LEED Certification support services, and post-design support. Design and construction of this project are ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) College Avenue Streetscape, Tempe, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darin serves as project engineer on this \$47 million project to expand the ASU Tempe campus. The project will involve new grade plane surfaces, landscaping, site amenities, grading and storm water management and accommodations for game days and special events. The project will also include sustainable design strategies to address climate and urban design issues. Design and construction of this project are ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) ASU Block 12 Development, Tempe, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Darin serves as project engineer on this \$57 million project, a mixed-use midrise building on Block 12 in Tempe. It will include a two-level bookstore with food service, the Del E. Webb School of Construction, an auditorium, ASU office space, classrooms, and other functions. The Block 12 site is at a key intersection, linking the 7th Street east-west corridor to the College Avenue north-south corridor. Wood/Patel is providing the on- and off-site infrastructure, water and sewer system improvements, and dry utility system upgrades. Design and construction of this project are ongoing. <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 Chris Salas, P.E.	b. ROLE IN THIS CONTRACT Project Manager, Roadways	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, Arizona State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona # 52411	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Public Works Association			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) City of Scottsdale Parcel 5 Developable Land Report, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris was the project manager who evaluated a property for developability after removing any portions encumbered by a wash greater than 50 cfs, FEMA designated floodplains, ground slopes of 15% or more, major boulder outcrops, bedrock, and shallow bedrock. The team also evaluated infrastructure needs, including sewer, water, and transportation and provided cost estimates for those improvements. The evaluation is complete, though the project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Storm Drains Report, 27th Avenue, Almeria and Willeta, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris was project manager for this project that extended storm drains into an industrial complex where historical flooding was documented. An hydrologic evaluation was performed. An evaluation of existing storm drain infrastructure was performed and then alternatives were proposed. The main design feature was the extension of storm drain and re-configuring a catch basin. Final deliverables were plans, specifications and cost estimate, as well as a drainage memo that included hydraulic analysis. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) 35th Avenue Storm Drains Report, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris was project manager for this project that extended storm drains into an industrial complex where historical flooding was documented. An hydrologic evaluation was performed. An evaluation of existing storm drain infrastructure was performed and then alternatives were formed. Final deliverables included plans, specifications and cost estimate, as well as a drainage memo that included hydraulic analysis. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Encinas Lane Roadway Improvement, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris was project manager for roadway improvements of 5/8 of a mile of retrofitting an existing neighborhood with a modern lock street section. The existing road was a narrow section without curb and gutter and no storm drain. The new section is a modern width, curb and gutter, and drainage infrastructure. This required coordination with SRP for both tiling of the irrigation ditch and relocation of the 69kV power poles. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Copper Sky Regional Park, City of Maricopa, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris served as project engineer for this 122-acre regional park. The project is a 140-acre site at the intersection of State Route 347 and Bowlin Road in Maricopa. Wood/Patel completed the site civil design, which includes engineering site plan, FEMA submittal to update the floodplain insurance study, grading and drainage, off-site roadway improvements, and utility coordination including bringing water, sewer, and electrical services to the park. <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 Jeff Minch, P.E.	b. ROLE IN THIS CONTRACT Senior Project Manager, Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 9
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, 1985, Arizona State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #24999	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers, Arizona Floodplain Managers Association, American Council of Engineering Companies			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) White Tanks FRS No. 4 Rehabilitation, Buckeye, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Jeff was project manager for the development of detailed hydrology, hydraulics, and construction documents for the White Tanks FRS No. 4 Storms rehabilitation. The hydrologic analysis also evaluated current and MAG future land uses for the contributing watershed. A correction to the 15% hydrologic model and the application of more appropriate methods resulted in a 135% reduction in the PMF peak inflow. The refined inflow design floods enabled the team to reduce the proposed dam raise by 3.5 feet and resulted in multi-million dollar cost savings. This project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Loop 303 Outfall Drainage System; FCDMC, Goodyear, AZ	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Jeff was project manager for this downstream-most portion of the regional drainage system for the Loop 303 freeway corridor, in coordination with ADOT, MCDOT, and Goodyear. The 4.5-mile project includes: open channels, box culverts, storm drains, landscaping and aesthetic treatments. The complexity of the design addresses crossings of the UPRR, Kinder Morgan petroleum line, the PVNGS cooling waterline, fiber optic lines, MC 85, BWCCD canal, and RID irrigation facilities. Design services are ongoing and this \$20 million project is currently under construction. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Bethany Home Outfall Channel, FCDMC, Glendale and Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Jeff was project manager directing the design of three segments of this \$67 million flood control project. These included development of construction documents for two miles of grass-lined channel, a 6,700-foot underground conveyance system, one mile long detention basin, concrete vertical channels, utility coordination, park amenities, public involvement, and the development of a CLOMR for the completed project. The project earned two ACEC Engineering Excellence Awards. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Pinnacle Peak Road Basin & Channel Project; FCDMC, Peoria, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Jeff was project manager for the design of this joint project between the FCDMC and the City of Peoria. The project included a pre-design study, final design, landscaping, irrigation and post-design services. Subsequent to the pre-design study, a value analysis identified a refinement that allowed the project partners to eliminate one-half mile of downstream conveyance system saving over \$1 million in construction and over \$50K in design fees. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Copper Sky Regional Park, City of Maricopa, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Jeff was lead drainage engineer for this 122-acre regional park. The project is a 140-acre site at the intersection of State Route 347 and Bowlin Road in Maricopa. Wood/Patel completed the site civil design, which includes engineering site plan, FEMA submittal to update the floodplain insurance study, grading and drainage, off-site roadway improvements, and utility coordination including bringing water, sewer, and electrical services to the park. <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 Mark Everett, P.E., CFM	b. ROLE IN THIS CONTRACT Project Engineer, Water Resources	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Engineering, Northern Arizona University, Flagstaff, Arizona, 1999 Chemistry Minor, Northern Arizona University, Flagstaff, Arizona, 1999		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #41926 Professional Engineer, Indiana #11100241 Certified Floodplain Manager	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Past President American Society of Civil Engineers, Association of State Floodplain Managers, Upper White River Watershed Alliance Board of Directors, Arizona Floodplain Management Association			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Cave Creek Wash/Salt River Floodplain Reclamation Project, Cave Creek, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is the project manager for a floodplain reclamation project impacted by 2 separate independent flood sources (Cave Creek Wash and Salt River). Both flood sources have a FEMA floodplain delineation designation. The land use is under-utilized and the clients' goal is to remove the floodplain and entitle the property for better use. The project involves coordination with agencies including the City of Phoenix and FCDMC. Secondary but critical to land use will be desirable public access and coordination with the current ADOT recommended new freeway alignment. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Shavers Fork Stream Restoration, Natural Resources Conservation Service (NRCS), Snowshoe, West Virginia	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark was the project manager and QA/QC engineer for the design review and construction of 5 miles of trout stream on this \$17M project. He reviewed the construction plans and specifications, performed hydraulic analysis for confirmation of design discharges, assisted with the bid package preparation and contractor selection, provided costs estimates, and managed the field order, change order and invoice submittals from the contractor. <input type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Norwaldo Phase II Drainage Design Project, DPW, Indianapolis, Indiana	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark served as lead designer and project manager for the drainage design project to address flooding concerns along 19,000 linear feet of roadways. He provided hydrologic and hydraulic analyses and evaluated the potential use of green infrastructure techniques, including the use of permeable pavement, sub-surface storage, and bio-infiltration basins. Final construction plans and a specifications bid package were prepared for a hybrid green infrastructure/conventional infrastructure solution, based on a value engineering analysis. The first phase of construction is underway. <input type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Map (DFIRM) Production, Indiana, Kentucky, Missouri	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark served as project manager for developing the hydrology, hydraulics, inundation/floodplain mapping, DFIRM database development and panel production for detailed (Zone AE) and approximate (Zone A) studies. He was responsible for 23 counties in Indiana, Kentucky and Missouri. Work included determining discharges, developing hydraulic models, and mapping the 100-year and 500-year floodplains per FEMA DFIRM guidelines. <input type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Gila Bend Area Drainage Master Plan FLO-2D Analysis Phase 2	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is senior engineer for the Gila Bend Area Drainage Master Plan FLO-2D analysis phase 2. The Gila Bend area is prone to significant flooding, exacerbated by the contributing watershed being intersected by I-8, SR 85, and the Gila Bend Canal. Phase 2 consists of updating the FLO-2D model to incorporate on-site hydrology and recommended alternative solutions. A final complete single model of the proposed improvements will be developed and a concept plan prepared, including new channel locations/improvements, levee improvements, and modifications to the canal. <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 Kenneth Knickerbocker, P.E., R.L.S.	b. ROLE IN THIS CONTRACT Senior Project Manager, Water/Wastewater	c. YEARS EXPERIENCE	
		1. TOTAL 35+	2. WITH CURRENT FIRM 3
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science: Sanitary Engineering, University of Arizona, 1976 Bachelor of Science, Civil Engineering, University of Arizona, 1972		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Civil Engineer, Arizona #13634 Professional Sanitary Engineer, Arizona #12590 Registered Land Surveyor, Arizona #16849	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona State Board of Technical Registration, Enforcement Advisory Committee, Arizona Water Association, Water Environment Federation, American Public Works Association, American Water Works Association			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Riverfront Water Reclamation Facility, Cottonwood, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project principal on the team that prepared two feasibility studies that recommended project siting, developed design criteria, and proposed a preliminary design for an \$8M wastewater facility, which will be constructed for the dual purpose of reducing the pumping requirements and capacity constraints of the existing collection system and to provide a nearby source of reclaimed water to irrigate existing and future turf and landscaped areas in the vicinity of Riverfront Park. The construction of this project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Snowflake Water Distribution Study and Energy Audit, Snowflake, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project principal for this study that conducted extensive analysis of the Town of Snowflake's water distribution system to identify distribution system short- and long-term CIP requirements. The study identified critical source and storage deficits and provided cost-effective solutions. Additionally, an EPS analysis was conducted to determine energy efficiency of the distribution system, with additional improvement recommendations including new electrical rate plans and VFD controllers. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Highway 89A Parallel Waterline and Crossings, Cottonwood, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project principal on this \$1.5M project and assisted in the engineering design and construction drawing preparation of 5,000 LF of 8-inch waterline parallel to and across Highway 89A in Cottonwood, Arizona. Construction of highway waterline crossings were designed to incorporate horizontal directional drilling (HDD) and jack and bore construction techniques. Improvements required coordination with multiple regulatory agencies (US-EPA, ADEQ, ADOT, City of Cottonwood Utilities). The construction of this project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) WinCo Dual Sewage Pump Stations, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As project principal on this \$250,000 project, Ken assisted with the design and project management of two privately operated sewage pump stations for the WinCo Warehouse in Phoenix, Arizona. Client timeline required 100% design within 30-days of contract execution. Deadlines and construction schedule were achieved using Flygt Top packaged pump stations. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Gila River Indian Community Water System Improvements, Sacaton, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project principal for the team through kickoff, conceptual design, construction drawing development, and post-design services for over \$2 million in improvements consisting of a 0.6 MG water storage tank, vertical turbine booster pump station, and approximately 12,000 linear feet of 16-inch and 12-inch waterline including jack and bore and horizontal directional drill construction waterline in order to improve water system performance to the community of Sacaton, Arizona. <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 Ken Snow, P.E.	b. ROLE IN THIS CONTRACT Project Engineer, Water/Wastewater	c. YEARS EXPERIENCE	
		1. TOTAL 7	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering - Environmental, Arizona State University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #52291 Secret Security Clearance, US Department of Defense Certified Environmental Officer, US Army Engineer School	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Water Association, Military Officers Association, American Public Works Association			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Riverfront Water Reclamation Facility, Cottonwood, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project engineer on the team that prepared two feasibility studies that recommended project siting, developed design criteria, and proposed a preliminary design for an \$8M wastewater facility, which will be constructed for the dual purpose of reducing the pumping requirements and capacity constraints of the existing collection system and to provide a nearby source of reclaimed water to irrigate existing and future turf and landscaped areas in the vicinity of Riverfront Park. The construction of this project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Snowflake Water Distribution Study and Energy Audit, Snowflake, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project engineer for this study that conducted extensive analysis of the Town of Snowflake's water distribution system to identify distribution system short- and long-term CIP requirements. The study identified critical source and storage deficits and provided cost-effective solutions. Additionally, an EPS analysis was conducted to determine energy efficiency of the distribution system, with additional improvement recommendations including new electrical rate plans and VFD controllers. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Highway 89A Parallel Waterline and Crossings, Cottonwood, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project engineer on this \$1.5M project and assisted in the engineering design and construction drawing preparation of 5,000 LF of 8-inch waterline parallel to and across Highway 89A in Cottonwood, Arizona. Construction of highway waterline crossings were designed to incorporate horizontal directional drilling (HDD) and jack and bore construction techniques. Improvements required coordination with multiple regulatory agencies (US-EPA, ADEQ, ADOT, City of Cottonwood Utilities). The construction of this project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) WinCo Dual Sewage Pump Stations, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As project engineer on this \$250,000 project, Ken assisted with the design and project management of two privately operated sewage pump stations for the WinCo Warehouse in Phoenix, Arizona. Client timeline required 100% design within 30-days of contract execution. Deadlines and construction schedule were achieved using Flygt Top packaged pump stations. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Gila River Indian Community Water System Improvements, Sacaton, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ken was project engineer for the team through kickoff, conceptual design, construction drawing development, and post-design services for over \$2 million in improvements consisting of a 0.6 MG water storage tank, vertical turbine booster pump station, and approximately 12,000 linear feet of 16-inch and 12-inch waterline including jack and bore and horizontal directional drill construction waterline in order to improve water system performance to the community of Sacaton, Arizona. <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 Bob Gofonia, P.E., R.L.S.	b. ROLE IN THIS CONTRACT Senior Construction Manager	c. YEARS EXPERIENCE	
		1. TOTAL 35+	2. WITH CURRENT FIRM 9
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, Polytechnic Institute of Brooklyn A.A. Construction, Westchester Community College, New York		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #11227 Professional Engineer, California, Nevada, New Jersey, Florida Registered Land Surveyor, Arizona #16542	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Public Works Association, Construction Management Association of America, American Concrete Institute			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Veterans Administration Cemetery, Southern Arizona, Sierra Vista, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Bob served as construction manager on this 145-acre project for ADOA and the Arizona Department of Veterans' Services (ADVS) that provided planning, design and construction oversight services for enhancements to the Southern Arizona Veterans Memorial Cemetery. Wood/Patel provided services to improve the access roadway, parking lots, drainage, the committal services area, assembly area, Avenue of Flags, and burial section, as well evaluation and replacement of segments of the irrigation system and installation of twin columbaria. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Rawhide Wash @ Silverstone, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Bob is the construction manager for this project, which is currently providing construction administration services for a complex flood control channel. FEMA has designated an alluvial type floodplain for Rawhide Wash delineated over hundreds of acres in north Scottsdale and Phoenix. This project included land planning and hydrology, hydraulics and scour analyses and serves to convey a portion of the floodplain in a channel segment (100 year peak discharge of 11,900 cfs) between 2 bridges designed by the Wood/Patel team. Once built and agency accepted a LOMR will be applied for from FEMA. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Light Rail Cost to Cure, Mission Shadows and Los Olivos, Phoenix, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Bob is the project manager on this \$88,000 project to provide construction management and construction administration services for the demolition of the front of two apartment complexes to be rebuilt back and out of the way of the Light Rail project. This project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Town of Gilbert Street Light Replacement Project, Gilbert, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Bob is the project manager on this \$94,000 project to provide construction management and construction administration services for the removal and replacement of all of the street lights in the Town of Gilbert. The project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Higley Groves ADA Concrete Ramp Replacment, Gilbert, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Bob is the project manager on this \$75,000 project to provide construction management and construction administration services for the removal and replacement of all ADA ramps in a major subdivision in Gilbert. Once all of the ramps have been replaced, the existing asphalt pavement will be milled and overlaid. This project is ongoing. <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 Ron Nadzieja, CCM	b. ROLE IN THIS CONTRACT Construction Manager	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Northern Illinois University Illinois Institute of Technology/Arizona State University, Post Graduate studies in Civil, Soils and Foundation Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) General Commercial Contractor (Arizona B01 No. 121239) General Building Contractor (Arizona B No. 121240) General Contractor (California B No. 660898) Real Estate License (Nevada No. 32996)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Construction Management Association of America			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Veterans Administration Cemetery, Southern Arizona, Sierra Vista, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ron served as senior construction inspector on this 145-acre project for ADOA and the Arizona Department of Veterans' Services (ADVS) that provided planning, design and construction oversight services for enhancements to the Southern Arizona Veterans Memorial Cemetery. Wood/Patel provided services improve the access roadway, parking lots, drainage, the committal services area, assembly area, Avenue of Flags, and burial section, as well evaluation and replacement of segments of the irrigation system and installation of twin columbaria. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Rawhide Wash @ Silverstone, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ron is senior construction inspector for this project, which is currently providing construction administration services for a complex flood control channel. FEMA has designated an alluvial type floodplain for Rawhide Wash delineated over hundreds of acres in north Scottsdale and Phoenix. This project included land planning and hydrology, hydraulics and scour analyses and serves to convey a portion of the floodplain in a channel segment (100 year peak discharge of 11,900 cfs) between 2 bridges designed by the Wood/Patel team. Once built and agency accepted a LOMR will be applied for from FEMA. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Light Rail Cost to Cure, Mission Shadows and Los Olivos, Phoenix, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ron is the construction inspector for this \$88,000 project to provide construction management and construction administration services for the demolition of the front of two apartment complexes to be rebuilt back and out of the way of the Light Rail project. This project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Town of Gilbert Street Light Replacement Project, Gilbert, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ron is the construction inspector for this \$94,000 project to provide construction management and construction administration services for the removal and replacement of all of the street lights in the Town of Gilbert. The project is ongoing. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Higley Groves ADA Concrete Ramp Replacment, Gilbert, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ron is the construction inspector for this \$75,000 project to provide construction management and construction administration services for the removal and replacement of all ADA ramps in a major subdivision in Gilbert. Once all of the ramps have been replaced, the existing asphalt pavement will be milled and overlaid. This project is ongoing. <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 Tom Gettings, R.L.S.	b. ROLE IN THIS CONTRACT Land Surveyor	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 20
d. FIRM NAME AND LOCATION (City and State) Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION)		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor, Arizona #27239	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Board Member, American Indian Chamber of Commerce of Arizona, Arizona Association of Economic Development, Tribal Economic Development Committee, State of Arizona Board of Technical Registration, Enforcement Advisory Committee, Arizona Professional Land Surveyors Association - Central and Sahuaro Chapters, American Congress on Surveying & Mapping, National Society of Professional Surveyors, National Utility Contractors Association of Arizona			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) 19th Street & Madison Street, Phoenix, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tom is the Project Manager for this city-block-long project to identify and remedy discrepancies between recorded property lines and actual lines of possession. The document research effort uncovered unrecorded hand-written sketch and notes from the original surveyor in 1960 explaining how the property was originally surveyed. Results of Survey were prepared for the lots within the block, legal descriptions of the discrepancy areas were prepared, property corners will be set for the revised parcels, and a Record of Survey will be recorded to document the project. This project is ongoing.		
2)	(1) TITLE AND LOCATION (City and State) Light Rail, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tom was the Project Manager for the identification of excess property along a 3-mile length of the Light Rail Project within the City of Phoenix. Boundary and topographic surveys were performed on 19 separate segments to identify required right-of-way and various easement requirements. Legal Descriptions and Results of Surveys were prepared, property corners for the remnant parcels were set, and Record of Surveys were recorded to support the conveyance of the excess property.		
3)	(1) TITLE AND LOCATION (City and State) San Carlos Master Planning, Pinal County	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tom is the project manager for this several hundred acre project that is a compilation of land controlled by multiple entities including Arizona State Land Department, Arizona Department of Transportation, Bureau of Land Management, San Carlos Apache Tribe, and privately held land. This ongoing project is a multi-phased, multi-use development, requiring establishment of new utility and roadway infrastructure in a remote location to support the development.		
4)	(1) TITLE AND LOCATION (City and State) Encinas Lane, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tom was the Survey Project Manager for this ¾ mile long roadway project. The location of the canal has long been in question due to poor documentation of records, frequent canal overtopping, and historic flooding due to the canal embankments. Wood/Patel performed Boundary and Topographic Surveys along with design for storm drain facilities, utility line relocations, and roadway improvements.		
5)	(1) TITLE AND LOCATION (City and State) Confidential Master Planning Project, Maricopa County	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Tom is the project manager of this high profile, multi-phased project consisting of 135 acres of unincorporated land. Wood/Patel has coordinated with multiple agencies, including Maricopa County, Peoria, Glendale, MCDOT, and ADOT, as well as utility providers. The site is comprised of buildings, with varying uses, parking lots and structures, detailed landscaping network, and extensive vehicle and pedestrian interconnections. Multiple factors have been considered and incorporated to limit disturbance of surrounding neighborhood facilities. This project is ongoing.		

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

a. NAME Kathy Svechovsky	b. ROLE IN THIS CONTRACT Survey Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION <i>(City and State)</i> Wood, Patel & Associates, Inc. (Wood/Patel), Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Surveying Technology, Phoenix College Associates Degree, Technical Drafting and CAD, ITT Technical Institute		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Land Surveyor, Arizona #46118	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Arizona Professional Land Surveyors Association, Central Chapter			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Marana Spectrum, Marana, Arizona	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Kathy is the Survey Project Manager for this 140-acre rural site with historic drainage challenges. The project is a multi-phased, multi-use commercial development consisting of new roadway and utility infrastructure along with significant drainage improvements. Wood/Patel is performing topographic, legal description, and platting survey services as well as complete civil design of utilities, roadways, and parcel grading. This project is ongoing.		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Paradise Valley Waterline, Paradise Valley, Arizona	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Kathy was the Survey Project Manager for a waterline improvement project located within residential neighborhoods in Paradise Valley. Wood/Patel provided topographic survey and utility design services.		
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Scottsdale Road, Scottsdale, Arizona	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Kathy was the Survey Project Manager on the team that provided topographic surveying and design services to improve a three mile stretch of Scottsdale Road from Thompson Peak Parkway to Pinnacle Peak Road, including tying into existing side streets, developments, shopping centers and utilities. Other services included a drainage study, pavement evaluation/recommendations, utility relocations, traffic signal design, and street light upgrades.		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Mockingbird Lane, Paradise Valley, Arizona	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Kathy was the Survey Project Manager for a roadway improvement project with special emphasis on drainage improvements and maintaining existing driveway relationships in a rural setting. Wood/Patel provided topographic and control surveying services and preliminary roadway design for this ¼ mile long project.		
5)	(1) TITLE AND LOCATION <i>(City and State)</i> 35th Avenue & Baseline Road, Phoenix, Arizona	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Kathy served as project manager of this topographic survey project consisting of 1.5 miles of roadway design and landscaping improvements. Services included horizontal and vertical control, street monument recovery and restoration, topographic survey, as well as property, right-of-way and easement research and parcel descriptions. Wood/Patel coordinated with the City of Phoenix and Salt River Project to meet client needs.		

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> Veterans' Administration Cemetery Southern Arizona, Sierra Vista, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER ADOA/Arizona Dept. of Veterans' Services	d. DOLLAR AMOUNT OF PROJECT \$1,471,008	e. TOTAL COST OF PROJECT completed under budget
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Arizona Department of Administration (ADOA) in association with the Arizona Department of Veterans' Services (ADVS) selected Wood/Patel and SmithGroup | JJR to provide planning and design services for the Phase 2 expansion and enhancement of the Southern Arizona Veterans' Memorial Cemetery. ADVS originally established the cemetery on approximately 145 acres of land, which was previously part of the Ft. Huachuca Military Reservation. The cemetery's main entrance is south of Fry Boulevard on Buffalo Solder Trail in Sierra Vista, Arizona.

Wood/Patel provided land survey, civil engineering, and construction management services for one additional columbarium plaza with two above-grade structures, additional hardscape, parking, private roadway paving, curb, and drainage improvements. Design services were complete in June 2012 and construction began in September 2012. This project was completed utilizing the design-bid-build (DBB) delivery method.

- A. Method of project delivery: DBB
- B. Construction Documents: Conventional
- C. Principal elements and special features of the project, including but not limited to: The project scope was reduced to accommodate the specific goals and budget outlined by the NCA. Through a collaborative effort, all of the construction components were implemented including numerous alternates that met the total program budget.
 - i. Brief physical description of the project: Project included columbarium planning and design along with sidewalk, parking, and irrigation infrastructure improvements.
 - ii. A brief discussion of any specific challenges and how they were overcome: A restricted budget and aggressive schedule was required to be met in order to secure project funding for the current fiscal year.
 - iii. If a LEED certified project, list the goal level and level achieved: N/A
 - iv. List original budget and final construction cost: \$1,471,008/\$1,446.625
 - v. List the planned completion date and actual completion date: 2013
 - vi. What the Owner's objectives were and whether they were met: The ADVS's objective was to meet the project schedule and budget inclusive of all the additional alternatives. The goal was attained.

References:

Jeff Pugh M.P.A., Project Manager, ADOA Construction Services (602) 542-0074
Homer Rodgers, Assistant Deputy Director, Arizona Department of Veterans' Services (602) 255-3373

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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> Silvertstone, Scottsdale, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Silverstone	d. DOLLAR AMOUNT OF PROJECT \$22M	e. TOTAL COST OF PROJECT completed at budget
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Wood/Patel served as the lead consulting engineer and participated in the rezoning and entitlements of the former Rawhide development. A best land use analysis was performed for the Rawhide entertainment site due to the land values of north Scottsdale. The project required a successful blend of proper mixed-use zoning with the main channel and public roadways serving as delineators to support various land uses.

The entire 160-acre project site is burdened by a FEMA floodplain along with the main channel location of the Rawhide Wash (10,900 cfs for a 100-year event). All decisions needed to account for the technical overlays of the FEMA floodplain and the independent channel system. The project also required two significant bridges (Pinnacle Peak Road and Scottsdale Road) to safely pass floodwaters, along with over 2 miles of new public roadways and support infrastructure.

The final project benefits from a scenic corridor, multi-use trails, and public access easements over the landscaped wash area. Special to the project was an engineered drop structure that also serves as a pedestrian entrance - exit to the wash upstream of the Pinnacle Peak Bridge.

References:

Mike Pacheco, Director RHVT Partnership (602) 230-1051
Derek Earle PE, City Engineer, City of Scottsdale (480) 312-2776

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> Veterans' Administration Arizona State Home, Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Dept. of Veterans' Services	d. DOLLAR AMOUNT OF PROJECT \$30M	e. TOTAL COST OF PROJECT completed under budget
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The new Arizona Veterans' Administration State Home is situated on eight acres of the Southern Arizona Veterans' Hospital campus in Tucson, Arizona. The project consisted of one administrative building, four clustered residential buildings (containing 120 nursing home beds, multiple outdoor gathering areas with gardens between building walkways, parking areas, and drive isles designed with the residents in mind). Wood/Patel and SmithGroup | JJR assembled a design team to successfully produce the 35% civil "bridging documents" for this "fast tracked" project.

Civil challenges included designing connecting finish floors across a site with six feet of vertical drop, designing tight utility corridors for domestic water, fire, sanitary sewer, and gas service to multiple buildings without crossing the enclosed building walkway system; and creating design that minimizes disruption to the busy existing hospital facility. Extensive topographic survey information was collected to allow the proposed project to fit within the existing and independent hospital campus. Wood/Patel and SmithGroup | JJR worked closely with the ADVS, the City of Tucson Planning/Development Services and Water Departments, and Pima County Wastewater Department to generate a thorough preliminary design.

- A. BIM was created by the design team for this project.
- B. Method of project delivery: Design-Build (DB)
- C. Construction Documents: BIM was utilized for final construction bridging documents.
- D. Principal elements and special features of the project, including but not limited to:
 - i. Brief physical description of the project: In 2004 the State of Arizona proposed the construction of a second Arizona State Veterans Home to be located adjacent to the campus of the Southern Arizona VA Health Care System (SAVAHCS) in Tucson. SAVAHCS donated the 8.54 acres of land on which the home was built. The nearly \$27-million project is a joint venture between the ADVS and the U. S. Department of Veterans Affairs. The 137,500 square foot facility consists of four 30-bed, long-term care units and a community/administration building.
 - ii. A brief discussion of any specific challenges and how they were overcome: Our team was responsible for delivering the bridging documents within four weeks of notice-to-proceed (NTP) in order to secure the matching grant from the federal government. Our team provided the preliminary documents on time resulting in the facility being built and opening on-time.
 - iii. If a LEED certified project, list the goal level and level achieved: N/A
 - vi. List original budget and final construction cost: \$30M/\$27M
 - v. List the planned completion date and actual completion date: July 2008/July 2008
 - vi. What the Owner's objectives were and whether they were met: The owner's objective was to secure final funding and the goal was attained.

References:

Colonel Joey Strickland, Arizona Department of Veterans' Services (602) 255-3373
Homer Rodgers, Assistant Deputy Director, Arizona Department of Veterans' Services (602) 255-3373

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

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> Riverfront Water Reclamation Facility, Cottonwood, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER City of Cottonwood	d. DOLLAR AMOUNT OF PROJECT \$354,938	e. TOTAL COST OF PROJECT 0% complete

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

The City of Cottonwood investigated constructing a water reclamation facility (WRF) in Riverfront Park. Our team prepared two feasibility studies that recommended project siting, developed design criteria, and proposed a preliminary design for the WRF. This facility will be constructed for the dual purpose of reducing the pumping requirements and capacity constraints of the existing collection system and to provide a nearby source of reclaimed water to irrigate existing and future turf and landscaped areas in the vicinity of Riverfront Park.

The WRF is designed to treat 0.3 MGD and the effluent quality must meet Class A+ requirements and be suitable for discharge to the Verde River. In addition, the team prepared a preliminary design utilizing energy efficient equipment and incorporating state-of-the-art "green" technologies, such as solar energy to supplement power for the facility. Our team also introduced and championed reducing the most prevalent pharmaceuticals found in typical municipal wastewater.

The proposed treatment process includes, as a minimum, influent pumping, screening, organic compounds removal, nitrification and denitrification, filtration, advanced oxidation, nitrogen removal to less than 1.0 mg/L, disinfection, effluent pumping, and sludge pumping. The city plans to utilize the proposed WRF as a tool to educate the community about water reclamation and environmental stewardship.

The construction of this project is ongoing.

Reference:

Dan Lueder, Development Services General Manager, City of Cottonwood (928) 634-0186

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

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>
Heritage Park at Marley Park, Surprise, AZ	2008	2009

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Surprise/DMB	\$100,000	completed at budget

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

Heritage Park represents a shared use facility between Marley Park Elementary School, HOA District Club and the City of Surprise. The integration of the program provided shared facilities including the park playground and sport courts. During the day, the playground and hard courts are utilized by the school, as well as a restroom facility that was designed as part of the school with exterior access.

The park was constructed in partnership between DMB, the master developer, the City of Surprise, and the Dysart Unified School District. The park amenities include playgrounds, water play area, ramadas, shared restroom, sport courts, amphitheater, lighted ball fields, multi-use play fields within the detention basin, trail route, parking lot and maintenance facility. Additionally, special attention was paid to "safe routes" from the neighborhoods to the elementary school. Wood/Patel and the team (land planner, landscape architect, master developer, City of Surprise, and school district) all worked smartly together to deliver a shared resource (Heritage Park) to the community.

References:

Chris Rivera, Project Manager, DMB (480) 367-7000

Mark Coronado, Director of Recreation and Community Services, City of Surprise (623) 222-2000

6. ADDITIONAL INFORMATION

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

Wood/Patel is a locally owned and operated, multi-talented, leadership driven Arizona firm.

In service to our clients, Wood/Patel operates successfully in various civil engineering service sectors as follows:

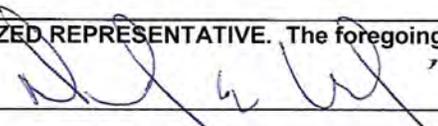
- Site Development for all end user buildings.
- Land Subdivisions for commercial and residential uses.
- Master Plan Communities – engineering, surveying and construction management
- Cemeteries
- Roadway Infrastructure – engineering, surveying and construction management
- Water and Wastewater Infrastructure – engineering, surveying and construction management
- Water and Wastewater treatment – engineering, surveying and construction management
- Floodplain Delineations, FEMA Studies, Flood Reclamation Projects, Channelization Projects
- Land Surveying - ALTA, boundary and topographic.

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

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:	55%
b. Percentage of Total Work Attributable to Non-Government Work:	45%

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

Signature: 

Date: December 12, 2013

Name: Darrel Wood, P.E., R.L.S.

Title: Principal