

**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:	WHPacific, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	7310 N 16 th Street, Suite 315
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	AZ
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85020
f.	YEAR ESTABLISHED:	1986 as BPLW; 2008 as WHPacific, Inc.
(g1).	OWNERSHIP - TYPE:	100% Alaska Native Owned Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h.	POINT OF CONTACT NAME AND TITLE:	Mary Ann Modzelewski, Senior Architect
i.	POINT OF CONTACT TELEPHONE NUMBER:	602.343.7800
j.	POINT OF CONTACT E-MAIL ADDRESS:	MModzelewski@whpacific.com
k.	NAME OF FIRM (If block 1a is a branch office):	

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

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)
20	Airports; Nav aids; Airport Lighting; Aircraft Fueling	5
4	Airports; Terminals; & Hangars; Freight Handling	7
5	Commercial Building; (low rise); Shopping Centers	6
6	Construction Management	6
18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	5
6	Educational Facilities; Classrooms	5
11	Environmental Impact Studies, Assessments or Statements	4
20	Heating, Ventilating, Air Conditioning	5
36	Highways; Streets; Airfield Paving; Parking Lots	6
6	Hospitals & Medical Facilities	4
9	Housing (Residential, Multifamily, Apartments, Condominiums)	6
14	Military Design Standards	6
1	Petroleum Exploration; Refining	1
3	Planning (Site, Installation and Project)	6
21	Sewage Collection, Treatment & Disposal	6
2	Soils & Geologic Studies; Foundations	4
26	Stormwater Handling & Facilities	6
8	Structural Design; Special Structures	6
126	Surveying; Platting; Mapping; Flood Plain Studies	6
25	Traffic & Transportation Engineering	7
6	Water Supply; Treatment and Distribution	6
5	Zoning; Land Use Studies	6

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 |

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

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

a. NAME Mary Ann Modzelewski, AIA, LEED AP	b. ROLE IN THIS CONTRACT Senior Architect and Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 17
d. FIRM NAME AND LOCATION <i>(City and State)</i> WHPacific, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Architectural Technology New York Institute of Technology		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Registered Architect- AZ #42392, NY #22246	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> LEED® AP BD+C Accredited Professional - Green Building Certificate Institute (National Certification)			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Mesa Grande Ruins Welcoming Center Mesa Grande, AZ	(2) Year Completed	
		Professional Services 9/2011-9/2012	Construction <i>(if applicable)</i> 9/2012-1/2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mary Ann was the project manager and project architect for this 1,200 SF visitors' center with a gift shop, restrooms and covered patio located on a sacred and significant Hohokam archaeological site. Construction Costs: \$601,000.		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Florence Field Maintenance Florence, AZ	(2) Year Completed	
		Professional Services 2009	Construction <i>(if applicable)</i> 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mary Ann was the project manager responsible for developing and monitoring the project work plan, assuring that schedule milestones were met and that project requirements were satisfied. This facility is the first project at the Florence Military Reservation. In addition to the building, the project includes private and military vehicle parking, main access road from the State Highway and all utility infrastructures. The project was awarded LEED® Gold Certification. Construction Costs: \$10,800,000.		
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Design-Build Camp Navajo Headquarters Building 1 Florence, AZ	(2) Year Completed	
		Professional Services 9/2009 – 12/2011	Construction <i>(if applicable)</i> 2/2010 – 8/2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mary Ann was the project manager responsible for developing and monitoring the project work plan, assuring that schedule milestones were met and that project requirements were satisfied. The facility, registered with the National Trust for Historic Preservation, did not meet building, safety, accessibility, or Anti-terrorism Force Protection (AT/FP) codes. The renovation successfully preserved the historic character and aesthetics of the facility while bringing the facility into code compliance. The project was awarded LEED® Silver Certification. Size: 12,870 SF Cost: \$3,000,000		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Silverbell Army Aviation Heliport, Western Army National Guard Training Site; Marana, AZ	(2) Year Completed	
		Professional Services 5-9/ 2013	Construction <i>(if applicable)</i> 6/13 – under construction
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mary Ann was the project manager responsible for developing and monitoring the project work plan, assuring that schedule milestones were met, and that project requirements were satisfied. The project renovated the infrastructure required for two high-bay flight simulator spaces. The scope required stakeholder coordination, new hydraulics, a new concrete slab foundation, new electrical, mass notification, fire suppression, and mechanical systems. The required support spaces including a computer room with a raised floor and a computer room air conditioning system. Size: 6,000 SF remodel and 2,000 SF new Cost: \$1,000,000		

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

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
	Readiness Center, Arizona Army National Guard / Arizona Department of Emergency & Military Affairs (DEMA), Florence, AZ	Professional Services 5-9/2013	Construction (if applicable) 3/2013 – 12/2013
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm Mary Ann was the Design Build Criteria Consultant and Owner’s representative for a \$15,000,000 Readiness Center. Assisted DEMA with preparation of the Request for Qualifications and the Request for Proposals. Reviewed the qualifications and proposals and was part of the selection committee. Tasks included participation in the verification charrette hosted by the successful design-build team. Assisted in peer reviewing the construction documents prior to submitting to the National Guard Bureau (NGB) to ensure the documents meet all NGB guidelines, DOD AT/FP requirements, and all code-related requirements.		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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c. NAME Mary K. Wallace, RA, LEED AP		d. ROLE IN THIS CONTRACT Project Architect/LEED® Designer		c. YEARS EXPERIENCE	
		3. TOTAL 13	4. WITH CURRENT FIRM 13		
d. FIRM NAME AND LOCATION (City and State) WHPacific, Inc., Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Mechanical Engineering University of Arizona			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Architect- AZ #52267		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) LEED® AP BD+C Accredited Professional - Green Building Certificate Institute (National Certification) # 10118648					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Florence Field Maintenance Shop Florence, AZ	2007 - 2009	9/2009- 1/2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project architect responsible for the technical review of design tasks. This facility is the first project at the Florence Military Reservation. In addition to the building, the project includes private and military vehicle parking, main access road from the State Highway and all utility infrastructures. Size: 19,800 SF Cost: \$10,800,000		
2)	Boys and Girls Club of the East Valley, Komatke Branch Gila River Indian Community, AZ	2008	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project coordinator for a new 28, 500 SF facilities for a variety of children and uses. Included a full athletic facility with regulation gymnasium, secondary gymnasium, modest kitchen, three classrooms, computer lab, teen activity center, and administrative areas. Cost: \$5,300,000		
3)	Gila River District 7 Multi-Purpose Building Gila River Indian Community, AZ	2008	Under construction
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm My role is Project Architect and LEED® coordinator for a new 32,104 SF two-story building designed and registered to meet LEED® Silver-certification. The project includes a new multipurpose building, parking, and swimming pool. A small storage building is also be included in the design adjacent to the new building. Cost: \$5,300,000		
4)	Silverbell Army Aviation Heliport, Western Army National Guard Training Site; Marana, AZ	5-9/2013	6/2013 – under construction
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project architect with responsibility to create and coordinate the construction documents for this three-phased renovation of Building L4525 for Blackhawk and Lakota Flight Simulators. Size: remodel 6,000 SF; new 2,000 SF. Cost: \$1,000,000		
5)	Readiness Center, Arizona Army National Guard / Arizona Department of Emergency & Military Affairs (DEMA), Florence, AZ	5-9/2013	3/2013 – 12/2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design-Build criteria consulting architect for a \$15,000,000 Readiness Center. Participated in the verification charrette hosted by the successful design-build team. Assisted in peer reviewing the construction documents prior to submitting to the National Guard Bureau (NGB) to ensure the documents meet all NGB guidelines, DOD AT/FP requirements, and all code-related requirements.		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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e. NAME Robert E. Ramsey, PE, LEED AP		f. ROLE IN THIS CONTRACT Civil Engineer		c. YEARS EXPERIENCE	
				5. TOTAL 10	6. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) WHPacific, Inc., Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering University of Arizona			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer- AZ #47526		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) LEED® AP BD+C Accredited Professional - Green Building Certificate Institute (National Certification). Member of American Council of Engineering Companies of Arizona (ACEC) and American Public Works Association (APWA).					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Sonoran Boulevard Phoenix, AZ	2011 – 2012	2012 – 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Robert was the civil engineer responsible for full civil design and hydrology for 2 miles of a new 7 mile long divided highway being developed by the City of Phoenix, through Arizonan State Land and the planned Phoenix Sonoran Preserve. The roadway design included: super elevation, culvert and intersection design, guard rail design, and cross sections. The project also included the widening of Cave Creek Road at the intersection of Sonoran Boulevard. The hydraulic design for this project included culvert design of 20 plus wash crossings, collector channels, analyzing and modeling the off-site flows using HEC-1. Size: 7 miles Cost: ~\$42,000,000		
2)	Tucson Medical Center, West Campus Expansion Tucson, AZ	2011 – 2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Robert was the civil engineer responsible for civil engineering, horizontal control, signing & striping plans, grading, hydrology design, QA-QC Process and pedestrian and vehicle circulation. The project required site demolition, grading and drainage, parking lot design, roadway design, hardscape design, utility design and relocation for a new 4-story surgical tower and parking structure. Size: 13.7 acres Cost: ~\$100,000,000		
3)	Silverado Senior Living Facility Peoria, AZ	2011 – 2012	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Robert was the civil engineer responsible for civil design, hydrology design, and pedestrian and vehicle circulation. The project required plans for the on-site water, sewer, mass grading, and precise grading of this project site creating a combination storm drain and surface drainage network to manage the on-site flow. Size: 55,000 SF Cost: \$N/A		
4)	4th Avenue & 4th Street, Phase II Sidewalk and Pedestrian Corridor Buckeye, AZ	2012	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Robert was the civil engineer responsible for producing full construction plans, special provisions, and an engineer's estimate for this CDBG project. The project included: floodplain clearance from the Flood Control District of Maricopa County (FCDMC), full survey services, and design of sidewalks, curb and gutter, driveways, valley gutters, and traffic sign relocation to improve a one-half mile length of roadway. Size: 1/2 mile roadway Cost: ~\$232,000		

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

(1) TITLE AND LOCATION <i>(City and State)</i> SR-89A, Oak Creek Canyon Bank Protection Oak Creek, AZ	(2) Year Completed	
	Professional Services 2009 – 2010	Construction (if applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
5)	Robert was the civil engineer responsible for responsible for producing construction plans, on behalf of ADOT, for a section of Oak Creek adjacent to SR-89A (MP 385.2). The project included scour analysis and bank protection improvements in the form of a gabion mattress, gabion baskets, gabion edge treatments, an embankment curb to divert street flows, and spillways to aid in erosion protection for areas not protected by the existing or proposed gabion mattress systems. Size: a section of Oak Creek adjacent to SR-89A (MP 385.2) Cost: Not available	

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

g. NAME Clayton Howard, RLS		h. ROLE IN THIS CONTRACT Surveyor		c. YEARS EXPERIENCE	
		7. TOTAL 15	8. WITH CURRENT FIRM 1		
d. FIRM NAME AND LOCATION (City and State) WHPacific, Inc., Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) Associate Degree, Survey Technology Phoenix College			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor- AZ #50640		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member of Arizona Professional Land Surveyors, International Right-of-Way Association, National Society of Professional Surveyors. Clayton understands the unique challenges of managing field and office staff, project deadlines, and client expectations without compromising high quality standards and profitability. As the responsible registrant in charge of a land surveying department he has managed boundary, ALTA, control, topographic, mineral claim, easement, right-of-way, aerial, route, construction and as-built surveys for private, public and utility entities.					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) WHPacific, Inc. Arizona Director of Survey Phoenix, AZ	(2) Year Completed	
		Professional Services 7/2013 – present	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Clayton is responsible for all aspects of land surveying from promoting services, contract administration, field crew and office staff management, staff development, agency submittals, billing review, invoicing, and collections. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Hohokam Field / Fitch Park Mesa, AZ	(2) Year Completed	
		Professional Services 8/2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey project manager on this remodel. Hohokam Field will be updated to accommodate the Oakland Athletics new spring training playing surface. Fitch Park will be updated to house the new spring training facility, and practice fields. WHPacific provided a boundary survey including easements, LiDAR scanning to generate the existing ground surface for the fields, structures, parking areas and surrounding streets, a topographic survey to locate surface utilities and to QC for the LiDAR scans, a digital terrain model (DTM), and break lines. Size: ~75 Total Acres, Cost: \$1,300,000 <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Southwest Gas On-Call Survey Maricopa County, AZ	(2) Year Completed	
		Professional Services 2010-2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Clayton served as survey project manager for various tasks including right-of-way staking, legal descriptions and exhibits, gas main, and service layouts. Over 250 projects were completed in three years for the survey on-call services contract. <input type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Asante North / Asante Surprise, AZ	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Clayton was the survey project manager on this 4,500 acre master planned community. The services he provided include boundary, aerial control, topographic survey, platting, and easements. <input type="checkbox"/> Check if project performed with current firm		

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

i. NAME Pamela M. Lentini, PE, LEED AP		j. ROLE IN THIS CONTRACT Mechanical Engineer, LEED® Commissioner		c. YEARS EXPERIENCE	
		9. TOTAL 21	10. WITH CURRENT FIRM 21		
d. FIRM NAME AND LOCATION (City and State) WHPacific, Inc., Albuquerque, NM					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Engineering Technology New Mexico State University			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer- AZ # 39301, CO # 47888. MD #38549, NM #14255, NV #20608, TX #91422, WA #47241		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) LEED® AP BD+C Accredited Professional - Green Building Certificate Institute (National Certification). Experience designing plumbing, piping, fire protection systems, and heat, ventilation, and air conditioning systems for new and remodeled buildings. She prepares computer modeling to estimate annual energy consumption, evaluate energy conservation measures. Performs facility evaluations and programs, and site utility design including central plants, steam distribution systems, and chilled water systems.					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Design-Build Hydrazine Building Holloman Air Force Base, NM	(2) Year Completed	
		Professional Services 02/2012 – 03/2013	Construction (if applicable) 02/2012 – 03/2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Pam was the lead mechanical engineer for this 1,000 SF facility for hydrazine storage and servicing. The facility includes area for tank servicing, storage, personnel personal hygiene, and an above ground tank for waste storage. Size: 1,000 SF Cost: \$1,400,000		
2)	(1) TITLE AND LOCATION (City and State) Design-Build Ranger Station Administration & Fire Station Buildings US Forest Service, Magdalena, NM	(2) Year Completed	
		Professional Services 10/2011 – 12/2012	Construction (if applicable) 05/2012 – 03/2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Pam was the mechanical engineer for the 9,000 SF ranger station and 11,000 SF fire station. The ranger station supports 30 staff and the fire station houses 14 firefighters. The fire station includes an equipment warehouse, an exercise room, showers, a lounge, four vehicle bays, and an equipment repair shop. The buildings were designed to fit the aesthetics of the rustic village, so the design team chose steel construction made to look like wood. The mechanical design included a high efficiency heating and ventilating systems, and water efficient plumbing and water heating to achieve LEED® Silver Certification. Size: 20,000 GSF Cost: \$5,500,000		
3)	(1) TITLE AND LOCATION (City and State) McCarran International Airport ATCT and TRACON Facility Las Vegas, NV	(2) Year Completed	
		Professional Services 11/2008 – 03/2011	Construction (if applicable) 05/2011 – 03/2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Pam was the lead mechanical engineer for this new high profile, FAA facility to replace the existing tower and TRACON facility in Las Vegas. The project included a 55,400 SF base building/TRACON along with a 337 foot tower and incorporates all FAA standards, orders, circulars, and guidelines into the design. Key components of the design are specialty lighting; FAA essential and critical power systems with emergency generators and UPS units; grounding and lightning protection systems; and incorporating FAA equipment and requirements into the design. Size: 55,400 SF base and 337' tower Cost: \$46,000,000		
4)	(1) TITLE AND LOCATION (City and State) Albuquerque International Sunport, Mechanical & Electrical Upgrades; Albuquerque, NM	(2) Year Completed	
		Professional Services 06/2006 – 06/2008	Construction (if applicable) 2008 – 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Pam was the mechanical engineer for the removal of an existing pneumatic controls system and the installation of a native BACnet BAS controls system throughout the 554,000 SF terminal building. Scope required the installation of controls for the building's HVAC systems, chiller and boiler plants and three remote buildings. Pam was the project manager/mechanical engineer for the air handler study/ energy evaluation portion of the project. Size: 554,000 SF Cost: \$4,300,000		

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

	(1) TITLE AND LOCATION <i>(City and State)</i> LEED® Commissioning and LEED® Administration Dow Hall, New Mexico Military Institute Roswell, NM	(2) Year Completed	
		Professional Services 06/2008 – 10/2009	Construction (if applicable) N/A
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Pam was the project manager for the Commissioning of Dow Hall and LEED® administrator for the contractor. WHPacific was hired by the Owner as the third party commissioning agency to perform Fundamental and Enhanced Commissioning in accordance with USGBC and LEED® Administrator for the Contractor for Dow Hall. The building is has obtained LEED® Silver. Size: 22,250 SF Cost: \$58,000		

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

k. NAME William P. Foster, PE, LEED AP BD+C, CBCP, PMP	l. ROLE IN THIS CONTRACT Mechanical Engineer, LEED® Commissioner	c. YEARS EXPERIENCE	
		11. TOTAL 27	12. WITH CURRENT FIRM 10
d. FIRM NAME AND LOCATION (City and State) WHPacific, Inc., Albuquerque, NM			
e. EDUCATION (DEGREE AND SPECIALIZATION) MS, Computer & Information Resource Management Webster University; BS, Electrical Engineering, University of Missouri		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer- AZ # 42191, NM #16439, and 20 other states	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) LEED® AP BD+C Accredited Professional - Green Building Certificate Institute (National Certification) #4175, Project Management Professional (PMP) #1469919, Certified Building Commissioning Professional (CBCP)			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) McCarran International Airport ATCT and TRACON Facility Las Vegas, NV	(2) Year Completed	
		Professional Services 11/2008 – 03/2011	Construction (if applicable) 05/2011 – 03/2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bill was the lead electrical engineer for this new high profile, FAA facility to replace the existing tower and TRACON facility in Las Vegas, NV. The project included a 55,400 SF base building/TRACON along with a 337 foot tower and incorporates all FAA standards, orders, circulars, and guidelines into the design. Key components of the design are specialty lighting; FAA essential and critical power systems with emergency generators and UPS units; grounding and lightning protection systems; and incorporating FAA equipment and requirements into the design. Size: 55,400 SF base and 337' tower Cost: \$46,000,000		
2)	(1) TITLE AND LOCATION (City and State) Design-Build Manzano Mountain Radome Site Work Space Development Test Wing (SDTW), Kirtland Air Force Base, Albuquerque, NM	(2) Year Completed	
		Professional Services 04/2010 – 02/2011	Construction (if applicable) 02/2011 – 07/2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bill was the electrical engineer responsible for demolition design and site electrical engineering tie-in design. The project included construction and grading of roadways, installation of pads and a substantial concrete ring wall with a footing that was 65' in diameter, 12' deep, relocating an existing fence line, adding a secondary fire department access to the facility, upgrading an existing metal storage building, and providing vehicular drives, sidewalks, utilities, storm drainage systems, and walls. Size: Footing of 65' diameter, 12'deep Cost: \$2,036,135		
3)	(1) TITLE AND LOCATION (City and State) Design-Build Permanent Party Barracks, Phase V, PN 57194 Fort Leonard Wood (FLW), MO	(2) Year Completed	
		Professional Services 01/2012 – 11/2013	Construction (if applicable) 01/2012 – 11/2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bill was the lead electrical engineer and LEED® AP for this new design that houses unaccompanied enlisted personnel. Our design followed the townhouse model of the previous phases to keep a cohesive community look between all of the projects. This project is being designed entirely in 3-D and BIM and according to the criteria required to attain LEED® Gold certification. Our design incorporated utilities, electric service, security lights, fire protection, information systems, connection to energy monitoring and control system (EMCS), site signage, and HVAC. Size: 24 five unit town home structures Cost: \$19,500,000		

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

	(1) TITLE AND LOCATION <i>(City and State)</i> Design-Build Repair Hangarrettes Holloman AFB, Alamogordo, NM	(2) Year Completed	
		Professional Services 09/2008 – 06/2010	Construction (if applicable) 09/2008 – 06/2010
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bill provided electrical engineering quality assurance review. The project required upgrading and modifying mechanical and electrical systems in existing hangarrette buildings to accommodate requirements for F-22 aircraft. Revisions were required due to widely varying electrical and ventilation requirements for the new aircraft versus the old ones. A particularly challenging aspect was the ventilation system, which included articulated ductwork with a winch system. Controls of this system were critical. Size: four buildings, each containing four hangar spaces, totaling 16 hangars Cost: \$22,320,315		
	(1) TITLE AND LOCATION <i>(City and State)</i> Sandoval County/Pueblo of Santa Ana Fire Station #21 Santa Ana Pueblo, NM	(2) Year Completed	
		Professional Services 05/2006 – 12/2009	Construction (if applicable) 05/2006 – 05/2010
5)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bill was the electrical engineer responsible for power, lighting, special alarm/communications systems and an emergency generator. The project is equipped with a 4-bay apparatus, 6 bedrooms, a kitchen, a training room, a day room, a fitness center, and a dispatch area. Size: 13,000 SF Cost: \$2,700,000		

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

m. NAME Elisa Warner, LEED AP BD+C		n. ROLE IN THIS CONTRACT Planner		c. YEARS EXPERIENCE	
		13. TOTAL 19	14. WITH CURRENT FIRM 7		
d. FIRM NAME AND LOCATION (City and State) WHPacific, Inc., Salem, OR					
e. EDUCATION (DEGREE AND SPECIALIZATION) MA, Sociology, Arizona State University BA, Sociology, University of Oregon			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) LEED® AP BD+C Accredited Professional - Green Building Certificate Institute (National Certification) # 1040752		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Elisa is a planner whose 19 years of experience in developing long range transportation plans, tribal transit plans, and educational facility plans. Elisa has successfully pursued federal transportation grants and specializes in socioeconomic and cultural issues, and has worked with diverse populations to address community challenges with planning or design-based solutions. In addition to her transportation experience, Elisa has five years of facility planning / master planning experience for school facilities.					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Long Range Transportation Plan Tonto Apache Tribe, Payson, AZ	2012 – 2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Elisa is the lead planner and project manager for the Tonto Apache Tribe's Long Range Transportation Plan update. The objective of the LRTP is to produce a plan for providing transportation facilities for vehicular traffic that will enable Tribal leaders to take advantage of desirable development opportunities, protect community resources and traditions, and enhance the use of the Tribe's land by its residents. Cost: \$51,321		
2)	Tribal Transit Planning Study Muckleshoot Indian Tribe, Auburn, WA	2011 – 2012	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Elisa was the lead planner and project manager for the Muckleshoot Tribal Transit Planning Study. The study documents current resources, partnership opportunities and community goals when assessing Muckleshoot's current transit resources and deficiencies. The final report presents the vision for Reservation-based transit services based on best practices, community needs, development goals and partnership opportunities. Cost: \$30,276		
3)	Gila Crossing Community School Construction Feasibility Study Gila River Indian Community, AZ	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Elisa worked with Gila Crossing Community School to develop a school construction feasibility study. The study provided recommendations on the feasibility of building a new educational facility for Gila Crossing Community School. Elisa met with educators and community members to determine the educational adequacy of Gila Crossing Community School's current facilities to meet the long-term educational goals of the Tribal community. Cost: \$3,000,000		
4)	Wemble House Master Plan Klamath Tribes, OR	2009	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Elisa was the primary writer of the Master Plan, documenting the strategic goals and facility needs of the center in preparation for a new facility. Wemble Naalam T'at'aksni, translated as "Heal Our Children," offers an intensive residential treatment program serving the 43 Northwest tribes. Wemble provides dual diagnosis treatment to Native American youth who struggle with alcohol and drug abuse, mental health illnesses, and trauma. Cost: \$89,099 (planning fee)		

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

5)	(1) TITLE AND LOCATION <i>(City and State)</i> Gateway Business Incubator Facility Lummi Nation, Bellingham, WA	(2) Year Completed	
		Professional Services 01/2008 – 01/2012	Construction (if applicable) 01/2008 – 01/2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Elisa helped lead collaborative design activities for the proposed building by involving community members, government officials and Tribal leaders. The Lummi Gateway Project is a multiuse facility that will provide space for the Lummi Nation's Ventures Program, including a business incubation facility. Cost: \$865,225 (planning and design fee)		

Project 1

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> WMAT Rural Water System – Water Treatment Plant and Intake System White River, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 05/2012 – 12/2013	CONSTRUCTION <i>(If applicable)</i> anticipated 2015

23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER White Mountain Apache Tribe	d. DOLLAR AMOUNT OF PROJECT \$4.3M	e. TOTAL COST OF PROJECT N/A (in design)

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

As a subconsultant to Carollo Engineers, Inc., WHPacific is designing the water treatment plant intake system for the White Mountain Apache Tribe. This project will produce a 30% design for a new 1,800 SF surface water treatment plant (WTP) and raw water diversion structure as part of the overall Miner Flat Rural Water System project. The team visited the site and discussed the project with WMAT, Bureau of Reclamation, and Indian Health Services. This 30% design will be utilized to obtain approval from the Secretary of the Interior and secure the funding for this project.

The design includes preparing a comprehensive Feasibility Design Report (FDR) and 30% plans, specifications, associated cost estimate, and a constructability report. These documents shall be in sufficient detail to support an Environmental Impact Statement (EIS). The FDR will include alternative plant sites and layouts, treatment process options for the new WTP, siting alternatives, and configurations for the new diversion structure and pump station on the North Fork White River, and raw water pipeline alignment options to the new WTP.

Selection of the preferred water treatment process will be based on a review of the current and projected raw water quality, current and anticipated water quality regulations, finished water quality goals, pilot testing results, WTP land requirements, estimated construction and annual operations and maintenance (O&M) costs, cultural studies, fisheries and aquatics studies, and other criteria and values important to WMAT.

<p align="center">Points of Relevance</p> <ul style="list-style-type: none"> ● Size: ~1,800 SF Station ● Cost: ~\$4,300,000 Intake, Station, Pipeline ● Located in Arizona ● Federally Funded and Monitored ● Feasibility Design Report (FDR) with: <ul style="list-style-type: none"> ○ Alternative plant sites and layouts ○ Treatment process options for the new WTP ○ Site alternatives ○ Site configurations for the new diversion structure and pump station on the North Fork White River ○ Raw water pipeline alignment ● 30% plans, specifications, associated cost estimate, and a constructability report ● Support an Environmental Impact Statement



Project 2

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>		
b. TITLE AND LOCATION <i>(City and State)</i> Silverbell Army Aviation Heliport Western Army National Guard Training Site; Three-Phased Renovation of Building L4525 for Blackhawk and Lakota Flight Simulators; Marana, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 05/2013 – 09/2013	CONSTRUCTION <i>(If applicable)</i> 06/2013 – expected complete 01/2014
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER AZ Department of Emergency & Military Affairs	d. DOLLAR AMOUNT OF PROJECT \$1M	e. TOTAL COST OF PROJECT \$1M

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

The Arizona Department of Military and Emergency Affairs (DEMA) contracted with WHPacific to provide design and construction administration services for the renovation of two high-bay spaces in preparation for the installation of helicopter flight simulators at this military installation building in Marana, AZ. One of the bays is for a Blackhawk simulator and the other bay for two Lakota simulators. In addition, a second floor was added above the Lakota bay for training classrooms and offices.

The scope included coordination with the simulators' vendors, military stakeholders, DEMA, and the Training Site Installation. New concrete slab, hydraulics, electrical system, mechanical system, and fire suppression system along with required support systems were included in the design.

<p align="center">Points of Relevance</p> <ul style="list-style-type: none"> • Size: 6,000 SF remodel and 2,000 SF new • Cost: \$1,000,000 • Located in Arizona • Stakeholder coordination • New hydraulics, a new concrete slab foundation, new electrical, mass notification, fire suppression, and mechanical systems • New required support spaces including a computer room with a raised floor and a computer room air conditioning system



Project 3

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>	
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c. TITLE AND LOCATION <i>(City and State)</i> Florence Field Maintenance Shop Florence, AZ	b. YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES</td> <td style="width:50%;">CONSTRUCTION <i>(If applicable)</i></td> </tr> <tr> <td align="center">05/2007 – 08/2009</td> <td align="center">09/2009 – 01/2012</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	05/2007 – 08/2009	09/2009 – 01/2012
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>				
05/2007 – 08/2009	09/2009 – 01/2012				

23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER AZ Department of Emergency & Military Affairs	d. DOLLAR AMOUNT OF PROJECT \$10.8M	e. TOTAL COST OF PROJECT \$10.8M

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

WHPacific was contracted to provide design, construction documents, and construction administration for a Field Maintenance Shop (FMS) for the Arizona Army National Guard.

The FMS is the first such project at the Florence Military Reservation. Within the next several years, two readiness centers, barracks, and other facilities will be constructed. The 19,800 SF building includes eight work bays, including a lubrication bay and a 15-ton crane. Supporting building spaces include tool and supply rooms, storage, offices, a physical training room, a classroom, and locker rooms. WHPacific incorporated cost-effective energy conserving features into the design, and the building is LEED® Gold-certified. In addition, physical security measures were incorporated into the design, including the maximum feasible standoff distance from roads, the parking areas, and the vehicle unloading areas.

The exterior supporting facilities include a main access roadway into the facility from the state highway, privately-owned vehicle parking, military parking, a vehicle wash platform, a loading ramp, a flammable storage area, and a controlled waste handling facility. All utilities (power, communication, water, sewer, and gas) were brought into the site.

Points of Relevance

- Size: 19,800 SF
- Cost: \$10,800,000
- Military Installation
- Located in Arizona
- LEED® Gold Certified
- Tool supply storage, offices, a physical training room, a classroom, and locker rooms
- Main access roadway, parking, power, communication, water, sewer, gas, and other infrastructure were brought into the site for both this project and future development



Project 4

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.)

d. TITLE AND LOCATION <i>(City and State)</i> Design-Build Criteria Consultant and Owner's Representative for Florence Readiness Center; Florence, AZ Florence, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 03/2011 – 2013	CONSTRUCTION <i>(If applicable)</i> 03/2011 – 12/2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER AZ Department of Emergency & Military Affairs	d. DOLLAR AMOUNT OF PROJECT \$15M	e. TOTAL COST OF PROJECT \$15M
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i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

WHPacific was contracted to assist with preparing the Request for Qualifications and the Request for Proposals issued to complete the \$15,000,000 campus. Additionally, WHPacific:

- Participated in the selection committee proposal review.
- Participated in the verification charrette hosted by the successful design-build team.
- Reviewed the construction documents prior to submitting to ensure the documents meet all National Guard Bureau guidelines.
- Reviewed the shop drawings and submittal documents.
- Verified the design and construction incorporated the required anti-terrorism force protection (AT/FP) requirements.
- Verified the LEED® design, construction, and documentation requirements are incorporated
- Participated in project related meetings.
- Certified pay applications.
- Provided structural inspections.
- Provided fundamental and enhanced commissioning services.

Points of Relevance

Prior work for DEMA includes:

- Design-Build Camp Navajo Headquarters Building 1; Florence, AZ (09/2009-08/2010)
- Florence Field Maintenance Shop; Florence, AZ (05/2007-01/2012)
Refer to project #3 above
- Obstacle Courses, Confidence Courses and Rappelling Tower, Two Arizona Army National Guard Bases, AZ (08/2008-01/2010)
- Readiness Center; Tempe, AZ, (06/2005-12/2007)

Project 5

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>		
e. TITLE AND LOCATION <i>(City and State)</i> Hohokam Field / Fitch Park Mesa, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 07/2013	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER City of Mesa	d. DOLLAR AMOUNT OF PROJECT \$1.3M	e. TOTAL COST OF PROJECT \$1.3M

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

WHPacific was contracted by W. E. O'Neil Construction to provide a boundary survey including easements, LiDAR scanning to generate the existing ground surface for the fields, structures, parking areas and surrounding streets, a topographic survey to locate surface utilities and to QC for the LiDAR scans, a digital terrain model (DTM), and break lines.

W. E. O'Neil Construction is remodeling the property previously operated by the Chicago Cubs. Hohokam Field will be updated to accommodate the Oakland Athletics new spring training playing surface. Fitch Park will be updated to house the new spring training facility, and practice fields.

<p align="center">Points of Relevance</p> <ul style="list-style-type: none"> • Size: Hohokam Stadium ~ 40 Acres Fitch Field ~ 35 Acres • Cost: \$1,300,000 • Boundary survey including easements • LiDAR scanning to generate the existing ground surface for the fields, structures, parking areas and surrounding streets • Topographic survey to locate surface utilities and to QC for the LiDAR scans • Digital terrain model (DTM) • Break lines



6. ADDITIONAL INFORMATION

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

A. Firm Description & History

WHPacific, Inc. is a multidiscipline architecture and engineering firm with nearly 400 staff members in offices across the low-48 states and Alaska and annual revenues averaging \$59M over the past three years. Owned by NANA Development Corporation (NDC), WHPacific is the largest Native American-owned architecture/engineering (A/E) firm in the United States. WHPacific is consistently ranked among the nation’s top 500 design companies by *Engineering News Record*.

Our history in Arizona begins as BPLW Architects, which was acquired by ASCG, the predecessor company of WHPacific. In June 2005, ASCG was acquired by the NANA Regional Corporation, an Alaska Native Corporation. In 2007, we consolidated our organization under one name: WHPacific, Inc.

At all times, we strive to provide our clients with the resources they need at any stage of project development, whether it be master planning, design, commissioning, construction management services, or any other project phase. Our ability to fully serve our clients is enhanced by our global parent company, NDC, which connects us to an extensive network of dedicated professionals, skilled worldwide partners, and stable financial resources.

Our approach to every project is based upon providing qualified, attentive personnel that diligently respond to client needs and requests. The project team, which includes active participation from the firm’s senior architects, remains constant with the project from inception to conclusion. We believe in excellent design, and have received awards for our projects—most notably by authorities outside the design profession. We take pride in creating designs that are imaginative and sensitive to the environment, the users, and the culture served.

B. Capabilities - Disciplines

Through our extensive experience, we have developed an excellent reputation. WHPacific continues to back up this reputation with an extremely high-quality product that is delivered on schedule and within budget. The number of clients who return to us for professional architecture and engineering services also support this reputation. The high number of repeat clients is a measure of our quality and directly related to our technical expertise and customer service.

WHPacific offers a one-stop shop, providing most services in-house that are required for any project. WHPacific has strong relationships with multiple consultants that can be brought onboard quickly to strengthen the project team and provide local resources. WHPacific provides complete services in the following areas:

- Architecture
- Commissioning
- Educational Planning
- Facility and Land Planning
- Landscape Architecture
- Scanning Services
- Water Resources Engineering
- Aviation Planning and Design
- Communications
- Electrical Engineering
- Hydrology
- Mechanical Engineering
- Surveying
- Water/Wastewater Engineering
- Civil Engineering
- Construction Administration
- Environmental Services
- Land Development
- Roadway/Highway Engineering
- Transportation Planning

WHPacific has the capacity to meet multiple, stringent project milestones, as well as an expansion in any project or the acceleration of any project schedule. Our diverse resources encompass the appropriate disciplines necessary to produce a quality product on time and within budget.

C. Additional Capabilities

1. *Our Design Philosophy*

- Practice using a collaborative design process; fully involving the owner, users, and community along with the design team, engineers, and consultants.
- Make the commitment to provide the best project you can within the fiscal constraints.
- Use context and symbolism to create an identity with purpose and function foremost in mind.
- Concentrate on the social responsibility of our actions.
- Let the culture guide the design; such as country, region, state, and municipality.
- Be responsible to the land and environment.
- Celebrate the entry. Make it easy to understand. It is about first impressions and this is an area of focus. An entry should give one a sense of arrival and the ability to direct oneself within the building.
- Discover the natural order. Make it easy to navigate to the building and through the building.
- Provide timeless design.
- Stay focused; the design process may be long and protracted. The building is complex and its perception is vulnerable to political upheaval. Patience and understanding with sensitivity to the process and responsiveness to the Owner's needs whether they are cultural, fiscal, aesthetic, timely, or quality of design.
- Listen closely and be responsible to the entire community. Balance aesthetics and the utilitarian concerns of the owner. Develop trust and respect.
- Restrain the ego. The building needs to "make a statement for the community, not about the architect."
- Architecture is an art, but is first a profession of service, and the functional needs of the client are always paramount.

2. *Commissioning*

Not all buildings were designed or constructed with life-cycle operation in mind. Even new facilities can lack the proper integration that complex systems require in order to accomplish a client's functional objectives. Reliability, sustainability, efficiency, functional performance, maintenance, verification, and baseline performance monitoring are project elements rarely understood. Commissioning is a quality assurance process that integrates building systems with these project elements in mind. When executed properly, commissioning ensures a facility will perform as designed, meeting an owner's expectations for the life of the facility.

WHPacific provides a full range of commissioning services tailored to the needs of our clients. Our commissioning personnel are comprised of professional engineers, certified commissioning providers, and LEED®-accredited professionals. Our commissioning team has breadth of experience and depth of knowledge in not only commissioning, but in design, facility engineering, and construction. We provide LEED® Fundamental Commissioning, LEED® Enhanced Commissioning, and commissioning for non- LEED® buildings.

Our role as the commissioning authority is to be the owner's advocate. We represent the interest of our client by building team consensus among a project's participants and rigorously implementing a well-conceived commissioning plan. Our commissioning process includes the use of a web-based commissioning project management site, tailored to the building and the client's requirements.

Capabilities: Total building commissioning
New construction
Existing building (retro-commissioning)

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

- Benefits:**
- Identify and resolve issues early in design and construction
 - Ensure the facility's systems function properly
 - Reduce construction rework
 - Reduce project punch lists
 - Reduce life-cycle costs of facilities
 - Reduce downtime of facilities
 - Lower energy consumption
 - Improve project delivery

3. Surveying/Scanning and Mapping Services

The WHPacific survey staff has extensive experience performing geodetic control surveying, LiDAR surveying, topographic surveying, and boundary surveying. WHPacific has the capabilities and the resources to perform surveys from the simplest of lot surveys to multi-million dollar design and construction surveys. WHPacific has the latest technology in survey equipment including GPS systems, robotic total stations, and digital levels. WHPacific is continually striving to improve procedures and systems to maintain its competitive edge in the survey community and to better serve their clients. We are professionals utilizing current surveying standards and procedures, and have earned the recognition and trust of the FAA, the NGS, and the U.S. Army Corps of Engineers, among other federal, state, and local agencies.

WHPacific provides a wide range of land, precision control, boundary, mapping, and hydrographic surveying services. Our full complement of professional surveyors and field support personnel utilize the most advanced equipment including Global Positioning Systems (GPS), robotic total stations 3-D laser scanners (terrestrial LiDAR), and digital/laser levels. Key personnel have been performing GPS control surveys since 1989 in most of the areas of the western United States and Alaska.

WHPacific is committed to utilizing the latest in technology to provide fast, accurate and cost-effective surveying services. We use dual frequency GPS receivers capable of first order static positioning and real time kinematic positioning. WHPacific has also invested in one-man robotic total stations. These automated reflectorless total stations track the surveyor through the use of a servo-motor. WHPacific also offers laser scanning services (High-Definition surveying) for all types of A/E projects utilizing our Leica HDS3000 3-D laser scanning system. This equipment reduces our crew size requirements, increases our productivity and vastly broadens our survey capabilities. Office support equipment and a full library of surveying/civil software are available, including AutoCAD Civil 3D™, Intergraph MicroStation™, Intergraph InRoads™, and GPS processing software.

We provide expertise in the following survey types:

- GPS Surveys
- Boundary Surveys
- High Definition Surveying (HDS) (laser scanning)
- Cadastral Surveys
- Utility and Route Surveys
- Topographic and Site Selection Surveys
- Construction Surveys
- Hydrographic Surveys

4. LEED® Services/Capabilities

Sustainable design is not only incorporated into all of our designs, but is a part of our corporate culture. As a member of the U.S. Green Building Council, we encourage LEED® education and accreditation for all of our employees. Many of our Arizona-registered architects and engineers, and commissioning providers, are also LEED® AP's. We've included these leaders as key team members in our qualifications for this annual services roster.

Not only has WHPacific designed nearly 30 LEED® projects, including three that meet LEED®-Platinum standards, we have designed sustainable projects using the LEED® scorecard to meet a target rating. These projects were designed to incorporate sustainable concepts and materials, but were not submitted for certification. Our LEED®-designed projects includes schools, dormitories, office buildings, and institutional and government facilities.

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

WHPacific has performed as the LEED® project manager for a variety of building types. Because our architectural and engineering disciplines are in-house, we are able to facilitate the entire LEED® process with a collaboratively and efficiently. Our constant involvement in the LEED® certification process ensures WHPacific is up to date with ongoing changes and improvements to LEED® standards and practices.

In addition to the commissioning services noted above, the commissioning team also performs the fundamental commissioning required for LEED® buildings, and provides third-party enhanced commissioning for other design firms as required for LEED® certification.

5. Fire Protection and Life Safety Design

WHPacific personnel are specialists in building code and fire protection issues. We have Certified Fire Protection Engineers on staff and many of our engineers are members of the Society of Fire Protection Engineers and the National Fire Protection Association. Both engineers and senior staff have expert understanding of the International Building Code and the State of Arizona and the International Fire Code.

WHPacific is experienced in a variety of fire suppression systems. Design selections are based on a project's design criteria and the owner's insurance carrier, the requirements of the code, requirements of the national standards, interpretations of the local fire marshal, and specific site conditions (such as availability of space, water, and electrical power). WHPacific's job is to balance the requirements of all parties with designs that meet or exceed the owner's goals, ensure public and property safety in conformance with the code, and guard the economic interest of our clients. Some of the systems WHPacific designs are:

- Wet-pipe sprinkler systems applied to most heated commercial buildings and storage facilities.
- Dry-pipe sprinkler systems applied to unheated facilities, including parking garages, external canopies, and refrigerated storage spaces.
- Dry and wet-standpipe systems for high-rise buildings and special conditions of non-high-rise buildings.
- Foam-Water systems for facilities where liquid combustibles are used.
- A variety of other fire suppression systems, such as clean agent for computer room applications, dry chemical for cooking facilities, pre-action systems, and others.
- Fire pumps within remotely located facilities, or in applications where the utility water pressure is inadequate.
- Fire suppression storage tanks when the utility water flow capacity is inadequate.
- Application of seismic requirements.
- Coordination with the fire alarm system for connection of supervised devices and activation of special fire suppression systems.
- Smoke control systems.

6. Antiterrorism Force Protection

WHPacific has been working on federal projects for decades, and is experienced designing to antiterrorism force protection (AT/FP) guidelines, including the UFC 4-010-01, *DoD Minimum Antiterrorism Standards for Buildings*.

Our experience in ATFP design goes back to the interim DoD Standards, first issued in 1999 edition. In 1998, WHPacific became aware of the upcoming standards and began incorporating force protection concepts into most of our federal projects, even though these requirements did not apply to projects before 2002. WHPacific began providing designs that address some of the basic ideas of the standards to parking areas, building setbacks, and glazing next to roadways, which were modified to respond to the possibility of terrorist activities.

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

Since that time WHPacific has incorporated AT/FP into projects for the Arizona Department of Emergency and Military Affairs, Holloman AFB, Kirtland AFB, New Mexico National Guard, and the New Mexico Army National Guard, to name just a few.

7. Water Resources

WHPacific is recognized for accomplishments in the study, evaluation, master planning, design and construction of surface water management and water and wastewater collection, distribution, storage and treatment projects. Our work includes watershed planning, flood control and multi-use facility design; river management, restoration and enhancement; floodplain analyses; and whitewater recreation planning and design. Our core competencies include water and wastewater system planning and design, wells, storage tanks, pump stations, lift stations, treatment facilities, large and small diameter pipelines, effluent reuse, regulatory processes and all types of permitting.

Over the years, WHPacific has helped to form and provide engineering support to many private and public entities and districts. The majority of the water resource services provided to WHPacific clients specialize in the following areas:

- Drainage and Storm Water Facilities
- Water Supply, Treatment, Storage, and Distribution
- Sewage Collection, Transmission, Treatment, and Disposal

The work WHPacific has completed represents designs encompassing many miles of pipeline, pumping stations, water storage tanks, water or sewer treatment plants, and miles of park trails and drainage basin features.

8. Design-Build Experience

WHPacific’s design-build experience encompasses a successful 12-year history of large and small projects that we have completed on time and within budget. Our firm has served as a consultant, partner, and sometimes the prime contractor on design-build projects. We understand the roles and responsibilities of each participant in a design-build project.

We work closely with our clients to produce RFP documents for design-build projects. The RFP preparation stage involves defining owner expectations about factors such as project size, operational performance, the quality of building systems, architectural image, environmental sustainability, flexibility, safety, schedule, and budget. The WHPacific methodology involves a process of defining desired project functions, and developing quality and cost models in order to achieve a balance of scope, quality, and budget in the design-build RFP. WHPacific has prepared Programs of Requirements (POR) documents on many projects. We are familiar with and have produced CSI Division 1 documents, including Specification Section 01010 for construction projects.

9. Construction Manager at Risk Experience

Construction Management at Risk (CMAR) is a delivery method wherein the construction manager is actively participating in the design phase by evaluating construction costs, generating project construction schedules, and considering the implications of alternative designs, systems, and materials during the design of the facility. During the design phase, the construction manager develops a Guaranteed Maximum Price for construction and assumes the risk for price, construction, and schedule. The construction manager subcontracts areas of the construction work by receiving proposals or by competitive bidding among sub-trade contractors. This process makes the construction manager a member of a collaborative project team; centralizes responsibility for construction under a single contract; offers a bonded Guaranteed Maximum Price; produces a manageable, predictable project; saves time and money; and reduces risk for everyone.

WHPacific has worked on numerous CMAR delivery projects. We have also participated in the selection of the construction manager, where the construction manager was retained after the architecture/engineering contract was awarded.

Techniques to Accommodate Changes in Costs

WHPacific is very aware that, even with extreme scrutiny and care, unforeseen conditions may exist that the contractor did not estimate. With remodeling and retrofitting of existing space and buildings, this is a very high probability. The best initial strategy is to research existing conditions as much as possible. In many instances, minor destructive testing and analysis are undertaken to identify hidden construction conditions. Where ambiguity remains, these areas are identified on the construction drawings and specifications, as a caution to the contractor.

WHPacific uses a technique that has proven to be very successful. We meet with the owner and construction manager early in the project to discuss areas of concern where existing conditions are difficult to determine. We work to identify a reasonable construction contingency, and the project is bid with the instructions that the contractor is to provide for such contingency in the Schedule of Values. If unforeseen conditions are uncovered later, the costs to remedy the construction are negotiated with the contractor, construction manager, and owner's representative. This system has worked extremely well for our clients, and prevents some of the frustration that can develop in such scenarios.

Advantages: Team approach from the start
Increased owner control
Strong check and balance
Continuous project budget control
Value engineering
Construction planning
Phased construction option
Controlled purchasing
Change management by owner's advocate
"Open Book" financing

10. Value Engineering

WHPacific will implement value engineering (VE) in all phases of design and, in particular, for those design elements identified as contributing to a large portion of the construction costs. VE is an organized and systematic approach to the comparison of alternative building systems for the purpose of identifying and deleting unnecessary costs, thereby adding value for the dollars spent. WHPacific believes in value for money, and we work with our clients to use VE to enhance project value, not simply reduce costs. The most impact on cost can be achieved at the earliest stages of the project, prior to the expenditure of significant fees and design time. The VE process improves overall project value by:

- Understanding systems and functions
- Reviewing life-cycle costs of systems and functions
- Optimizing construction expenditures
- Identifying alternative systems with better performance
- Reducing operating and maintenance costs
- Enhancing constructability

The result of this estimating process is the establishment of a valid, reasonable, and adequately detailed project budget early in the design process. This budget then becomes the focus of cost trending and monitoring efforts as design progresses. As the final design is documented, an updated estimate is prepared to serve as the baseline for bid evaluation and construction cost control.

11. Grant and Loan Program Assistance

WHPacific understands the importance of infrastructure funding for communities. We have extensive experience with and knowledge of federal, state, and private grant and loan programs used to fund community and regional infrastructures. This includes grant and loan funding programs from Community Development Block Grant (CDBG),

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

USDA Rural Utility Services (RUS), Environmental Protection Agency (EPA), Clean Water State Revolving Fund (CWSRF), Drinking Water State Revolving Fund (DWSRF), Rural Infrastructure Program (RIP), Economic Development Administration (EDA), Legislative and Congressional appropriations, and other funding sources.

WHPacific has extensive experience in applying for and administering these funding sources. We have successfully administered millions of dollars in grant and low-interest funds and can assist our clients with their externally funded projects. WHPacific can work through specific agency regulations and requirements to help clients successfully administer project funds in a timely manner. We also assist clients with preparing the necessary reports, contract documents, pay requests, and final project closeout forms in the specific format required by each particular agency.

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS: \$59,774,014.33

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

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

Signature:  Date: 12/12/2013

Name: Mary Ann Modzelewski, AIA, LEED AP Title: Senior Architect