



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

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

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	Holben, Martin & White Structural Engineers Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	3240 E Union Hills Drive, Suite 145
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85050
f. YEAR ESTABLISHED:	1969
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	
h. POINT OF CONTACT NAME AND TITLE:	Thomas C. Griffis, P.E.
i. POINT OF CONTACT TELEPHONE NUMBER:	480-382-7370
j. POINT OF CONTACT E-MAIL ADDRESS:	tgriffis@hmwstructural.com
k. NAME OF FIRM (If block 1a is a branch office):	



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Structural Engineer	(P)	4	1
CADD Technician	(P)	2	0
Construction Inspector	(P)	1	0
Total		6	1



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

a. NAME Thomas C Griffis	b. ROLE IN THIS CONTRACT Principal/Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 27
d. LOCATION <i>(City and State)</i> Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B. S. Civil Engineering, University of Arizona 1981 M.S. Structural Engineering, University of Arizona 1983		f. PROFESSIONAL TRAINING - REGISTRATIONS Registered in Arizona, California and New Mexico	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Structural Engineers Association of Southern Arizona			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Northern Arizona University Aquatics and Tennis Center Flagstaff, Arizona	(2) YEAR COMPLETED in progress
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CMAR 62,000-GSF facility featuring an indoor 56 M x 25 yd competitive pool with diving towers; indoor recreation pool for fitness & recreational swimming; spectator seating for 300 people; pool equipment storage. 48,000-GSF tennis center with 6 indoor regulation courts and 6 outdoor regulation courts, indoor spectator seating for 250 spectators, restrooms, outdoor viewing area, office, and shade structures. Project Manager/Structural Engineer	Professional Services 2013-2014
<input checked="" type="checkbox"/> Check if project performed with current firm		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> University of Arizona Cancer Center, Phoenix, AZ	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design/Build. 250,000-GSF structure provides the highest quality cancer research and care with evidence-based, multi-disciplinary models, modern technologies and a patient-centered approach. Project Manager/Structural Engineer	Professional Services 2012-2014
<input checked="" type="checkbox"/> Check if project performed with current firm		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> University of Arizona-Bioscience Partnership Building, Phoenix, AZ	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project is a concrete ten-story, above-grade with one level below grade academic research lab building with offices, support and meeting rooms. It is 245,000 GSF with a \$105,000,000 construction budget. Project Manager/Structural Engineer	Professional Services 2014-2015
<input checked="" type="checkbox"/> Check if project performed with current firm		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> University of Arizona Bioscience Research Laboratories, Tucson, AZ	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CMAR A research facility that brings together the UA's basic scientists and physician researchers for collaborative translational research that will advance our understanding of the molecular basis of human health, aging and disease. This building provides cutting-edge laboratories for pioneering interdisciplinary research in many health science disciplines relevant to the people of Arizona. Project Manager/Structural Engineer	Professional Services 2013-2015
<input checked="" type="checkbox"/> Check if project performed with current firm		
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Ft. Meyer, VA Commissary	(2) YEAR COMPLETED
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project includes an Architectural/Refrigeration Upgrade of approximately 71,000 SF Commissary facility at Fort Myer, Virginia. Designed for new mechanical rooftop units that are supported on the existing strengthened roof structure. New interior condensing units are placed in a tall crawl space beneath the entire building. A new loading dock and trash platform were designed. Construction cost for this project is \$9,700,000. Project Manager/Structural Engineer	Professional Services 2012-2013
<input checked="" type="checkbox"/> Check if project performed with current firm		



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a. NAME Warren White, PE	b. ROLE IN THIS CONTRACT Project Manager/Sr. Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 36	2. WITH CURRENT FIRM 36

d. LOCATION (City and State)
Tucson, Arizona

e. EDUCATION (DEGREE AND SPECIALIZATION) BSCE-Civil Engineering, University of Arizona	f. PROFESSIONAL TRAINING - REGISTRATIONS Licensed Structural Engineer State of Arizona #15325
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g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Member of Arizona Structural Engineering Association, Tucson Chapter

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		University of Arizona – Old Main and Bear Down Gymnasium Renovation Tucson, AZ	Professional Services 2012-2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design/Build. Structural repairs, infrastructure improvements and complete renovation of 27,000-GSF. Old Main is to be re-purposed for administrative. The 75,000-GSF addition to Bear Down Gym is proposed for re-purposing this historic structure, as well as an addition to the south of the building. Project Manager		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
2.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED: Project in progress	
		Professional Services 2013-2014	Construction (if applicable) 2015-Estimated
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Relocation of the Security Screen Checkpoints (SSCP) to the east and west ends of Level 2 of the Terminal. Replacement of 1960's era vertical circulation equipment and south window wall replacement and shade structure element. Studied new food, beverage and retain concession design and design of special systems and equipment required for MDF, USP, IDF and electrical rooms. Project Manager/engineer.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
3.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services 2012-2013	Construction (if applicable) 2013-2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed new canopy and foundation system. Project Manager/engineer.		
	<input type="checkbox"/> Check if project performed with current firm		
4.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed supports for main tension cables and tie back cables for a new backstop netting installation. Main cable supports consist of 45 foot cantilever pipe columns and drilled concrete shafts. Tie back cables are anchored to existing grandstand canopy which required structural evaluation to confirm adequacy. Project Manager/engineer.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
5.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED 2014	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rerouted above ground water pipes required as elevated structural support system to span across and access road utilizing steel stub columns, beams and drilled concrete shafts. Project Manager/engineer.		
	<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 Scott E. Seeman	b. ROLE IN THIS CONTRACT Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 9	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Civil Engineering, Washington State University		f. PROFESSIONAL TRAINING - REGISTRATIONS Licensed as a Structural Engineer in Arizona #52235	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> UA Bioscience Partnership Building, Phoenix Biomedical Campus, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2014-2015	Construction (if applicable) 2015-2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project is a concrete ten-story, above-grade with one level below grade academic research lab building with offices support and meeting rooms. It is 245,000 GSF with a \$105,000,000 construction budget	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> UA Biosciences Research Laboratories, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2013-2015	Construction (if applicable) 2015-2017
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE CMAR. CAD/BIM for this 120,000-SF facility for collaborative translational research to advance understanding of the molecular basis of human health, aging and disease. The building is three stories tall with a basement constructive of concrete. \$85,000,000 Budget	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> UA Cancer Center, Phoenix Biomedical Campus, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2012-2014	Construction (if applicable) 2013-2015 (Estimated)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design/Build. Structural engineering for this new 250,000-GSF facility, which will provide the highest quality cancer research and care with an evidence-based, multi-disciplinary model, along with the modern technologies, and a compassionate patient-center approach	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> UA Old Main Renovations, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012-2013	Construction (if applicable) 2013-2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design/Build. Structural engineering for UA's original and oldest building – an historic icon on campus. This project involves structural repairs, infrastructure improvements, and a complete renovation to be re-purposed for administrative functions. Total size in 26,786-GSF and was completed in May. Construction budget \$13,500,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> UA Sixth Street Residence Halls/Likins and Arbol de la Vida, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2007-2009	Construction (if applicable) 2008-2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Two new residence halls to provide 1,180 beds for undergraduate students, and organized into learning communities to promote academic success and self-development, and improve recruitment and retention of students. 390,000-GSF. Project budge: \$159,300,000. CMAR LEED Platinum Certified. AZ Masonry Guild Honor Award – Arbol de la Vida Dorm; ENR Magazine Best of West Project Award	<input checked="" type="checkbox"/> Check if project performed with current firm	



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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> New Aquatics and Tennis Centers, Northern Arizona University, Flagstaff, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Northern Arizona University	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$33,000,000	e. TOTAL COST OF PROJECT
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

New Aquatics and Tennis Centers, Northern Arizona University



Rendering of NAU Aquatics Center

Aquatics Center:

Construction Cost: \$25,000,000

Completed Design: 2013

Completed Construction: 2015 (estimated)

Tennis Center:

Construction Cost: \$9,000,000

Completed Design: 2014

Completed Construction: 2015 (estimated)

- Service: Structural Engineer
- LEED Silver Certification
- BIM Design

CMAR project. Holben, Martin & White Structural Engineering performed the Structural Design for two projects at NAU. Aquatics Center is a 62,000-GSF facility featuring an indoor 56 M x 25 yd competitive pool with diving towers; indoor recreation pool for fitness & recreational swimming; spectator seating for 300 people; pool equipment storage. The 48,000-GSF tennis center features 6 indoor regulation courts and 6 outdoor regulation courts, indoor spectator seating for 250 spectators, restrooms, outdoor viewing area, office, and shade structures.



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a. TITLE AND LOCATION <i>(City and State)</i> University of Arizona Cancer Center, Phoenix Biomedical Campus Phoenix, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER University of Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$100,000,000	e. TOTAL COST OF PROJECT
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

University of Arizona Cancer Center
 Phoenix Biomedical Campus, Phoenix, Arizona



Construction Cost: \$100,000,000

Completed Design: 2013

Completed Construction: 2015 (estimated)

- Service: Structural Engineer and Special Structural Inspections
- BIM Design

Holben, Martin & White Structural Engineering provided structural engineering and special inspections for this Design/Build 250,000-GSF structure, which will provide the highest quality cancer research and care with an evidence-based, multi-disciplinary model, along with modern technologies and a patient-centered approach.



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a. TITLE AND LOCATION <i>(City and State)</i> University of Arizona Old Main Renovations & Bear Down Gymnasium		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c .PROJECT OWNER University of Arizona	d .ORIGINAL BUDGET/NTE AMOUNT OF PROJECT Old Main: \$12,000,000 Bear Down Gym: \$20,000,000 Estimated	e. TOTAL COST OF PROJECT	

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

**University of Arizona Old Main Renovations & Bear Down Gym
Addition and Restoration, Tucson, Arizona**



Old Main:

Construction Cost: \$12,000,000
Completed Design: 2013
Completed Construction: 2014

Bear Down Gym:

Construction Cost: \$20,000,000 (estimate)
Completed Design: on hold
Completed Construction: on hold

- Service: Structural Engineering
- BIM Design

Holben, Martin & White Structural Engineering provided structural engineering services for this Design/Build. The project involves structural repairs, infrastructure improvements, and a complete renovation to the 27,000-GSF Old Main building. The 75,000-GSF addition to Bear Down Gym is proposed for re-purposing this historic structure, as well as an addition to the south of the building.



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6. ADDITIONAL INFORMATION

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

Holben, Martin & White Structural Engineers, Inc. (HMW) has provided quality structural engineering design services in Arizona for 45 years and is committed to the future. In addition, we are confident in the Project Management skills of our engineers, most of who have served as Project Managers on past projects. We have the expertise and the experience to perform On-Call Structural Engineering Services in a professional and timely manner.

We have an excellent reputation with local architects and engineers, as well as public entities and private businesses. Whether as a prime consultant or subconsultant, HMW is ready to assist the State of Arizona in planning, designing, and constructing projects within time and budget constraints.

We are fully conversant with "on-call" projects and have similar experience with Pima County, the University of Arizona, Northern Arizona University, Pima Community College, and City of Gilbert, Town of Marana and other public entities, which gives us an extensive understanding of the types of projects and innovative solutions which may be demanded in an "open-end" contract.

Some examples of our structural design experience include municipal buildings, recreation centers, administration and office buildings, local fire stations, police facilities, dormitories, warehouse and storage facilities, vehicle maintenance facilities, retaining walls, and parking structures, to name just a few. We have also performed structural inspections of many different building types. We have also designed many pedestrian and vehicular bridges in Arizona and the southwestern United States. Our structural engineering experience is extensive and we are committed to helping Arizona move forward into the future with state-of-the-art engineering techniques.

HMW routinely uses Revit, a Building Information Modeling (BIM) program, in the design of complex facilities. With BIM, buildings are conceived and drawings are developed in a three-dimensional virtual world. All of the elements of a building are created and integrated in the same way the contractor will construct them. With the "virtual building" model, the client and the contractor can actually see the building from the beginning of the design process. This gives everyone on the Project Team a chance to recognize and correct potential conflicts before they are constructed. This is especially helpful for the many complex details involved in structural, mechanical and electrical systems. The use of Revit or other BIM software also fosters communication and understanding between team members. In addition, Revit helps eliminate waste of materials and is an important scheduling tool. To the owner, this means drawings are better coordinated between all the disciplines. In turn, the Construction Document phase is more streamlined due to the exchange of information.

With offices located in both Phoenix and Tucson, HMW has the available staff and site convenience to undertake project assignments across the state, in an expeditious and efficient manner.

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS: \$1.2 Million

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	\$960,000
b. Percentage of Total Work Attributable to Non-Government Work:	\$240,000

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

Signature: Thomas C. Griffis

Date: December 30, 2014

Name: Thomas C. Griffis, PE

Title: President